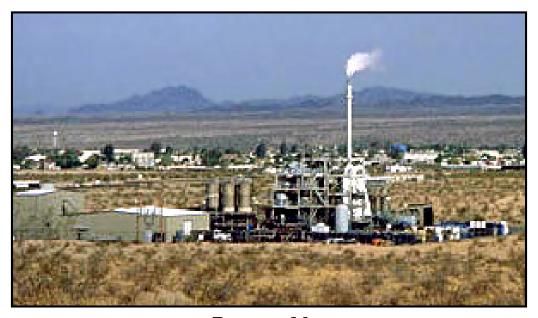
Revised Statement of Basis

Proposed Permit for Storage and Processing of RCRA-Regulated Hazardous Wastes

Colorado River Indian Tribes and Evoqua Water Technologies LLC for Carbon Regeneration Facility Located at: 2523 Mutahar Street Parker, Arizona 85344 (EPA ID # AZD982441263)



Proposed by
U.S. Environmental Protection Agency, Region 9
San Francisco, California

November 2016

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1. Executive Summary

The United States Environmental Protection Agency, Region 9 (EPA or the Agency) is requesting public comment on its proposal to issue a Resource Conservation and Recovery Act (RCRA), 42 U.S.C. §§6901 *et seq.*, permit to Evoqua Water Technologies LLC (Evoqua), as facility operator, and the Colorado River Indian Tribes (CRIT or the Tribe), as the beneficial land owner.

The Evoqua facility is located on the Colorado River Indian Reservation near Parker, Arizona, (the Facility), and houses a thermal treatment system used to regenerate spent carbon for reuse. A RCRA hazardous waste management permit would allow the Facility operator to continue the regeneration of carbon contaminated with hazardous waste, subject to the conditions and the stipulations specified in the permit and in the RCRA regulations.

EPA is in the process of making a permit decision, and is requesting public comment on its proposal to issue a permit for RCRA storage and treatment. The public comment period starts on October 1, 2016 and will close on November 15, 2016.

2. Introduction

EPA has prepared this Statement of Basis in accordance with Title 40 of the Code of Federal Regulations (40 CFR) § 124.7. It explains EPA's decision, as part of this proposal, to issue a draft RCRA permit for the Facility to treat RCRA regulated spent carbon waste.

The Appendices to this document help support the Agency's decision to issue and request public comment on a draft RCRA hazardous waste management permit for the Facility. These Appendices are organized in the following manner:

- Appendix A Draft Permit Modules
- Appendix B Checklists
- Appendix C National Historic Preservation Act Determination
- Appendix D Endangered Species Act Determination
- Appendix E Environmental Justice Findings
- Appendix F Administrative Record File List
- Appendix G RCRA Facility Assessment
- Appendix H Evoqua Facility Unit Maps (Figures J-1 through J-7)

3. Proposed Permit Decision

EPA is proposing a RCRA permit be issued to Evoqua and CRIT as co-Permittees. The Agency is seeking public comment on this proposed decision and the draft permit that accompanies this Statement of Basis. After the public comment period closes, EPA will respond to the public comments and make a final permit decision.

3.1 Proposed Action

EPA is proposing issuance of the attached draft RCRA hazardous waste management permit. [See Appendix A.]

3.2 Administrative Record

The public may review the Administrative Record (AR), which contains the documents and information upon which the EPA is basing this proposed action.

The AR is physically located at the EPA Region 9 Office, 75 Hawthorne Street, San Francisco, CA 94105.

There are two satellite information repositories containing key documents and a file list of the AR. The first information repository is located at the CRIT Museum and Library located at the CRIT Administrative Complex, 26600 Mohave Road, Parker, Arizona, 85344, (at the intersection of 2nd Avenue and Mohave Road). The second information repository is located at the Parker Public Library, 1001 South Navaho Ave., Parker, Arizona, 85344.

For specific documents listed on the AR file list that cannot be found at one of the repositories listed above, please contact Mike Zabaneh at (415) 972-3348 or at zabaneh.mahfouz@epa.gov.

Key documents used in the decision making process can also be found on EPA's website at: www.epa.gov/az/evoqua.

3.3 Public Participation

EPA must provide notice to the public whenever a draft RCRA permit has been prepared and when a hearing has been scheduled.

3.3.1 Request for Public Comment

Pursuant to 40 CFR §124.10(b), EPA must provide at least 45 days for public comment on proposed permit decisions under RCRA. EPA is requesting that the public submit any comments on the proposed RCRA permit decision announced today in the following manner.

Comments on this proposed Permit decision may be submitted to EPA via mail, email, fax and/or in person during the public comment period, including at the Public Hearing. Written comments must be faxed, emailed or postmarked on or before January 9, 2017, and sent to:

"Mike" Mahfouz Zabaneh, P.E., Project Manager Phone number: 415-972-3348 US Environmental Protection Agency (LND-4-2) Fax number: 415-947-3530

Email: zabaneh.mahfouz@epa.gov

3.3.2 Public Meeting/Public Hearing

The Public Meeting and Public Hearing will be held on held November 1, 2016, in the **Mohave Conference Room** at the **Bluewater Resort and Casino, located at 11300 Resort Drive, Parker, AZ 85344**. **Phone number: 928-669-7000.** The Public Meeting/Public Hearing time is at **7:00 pm**. If you need reasonable accommodation, please contact Mike Zabaneh by email or phone.

During the Public Meeting, representatives from EPA will provide information about the Facility and the proposed permit decision. The public will have an opportunity to ask questions during the Public Meeting. Immediately after the Public Meeting, EPA will hold a Public Hearing, which will be recorded. The public may comment on EPA's proposed decision during the Public Hearing. EPA will respond to all public comments received during the public comment period, including during the Public Hearing, in a written Response to Comments document at the time the Agency finalizes its permit decision.

3.4 How EPA Will Make a Final Decision

After the public comment period closes, EPA will review and evaluate all the comments received. The Agency will then make a final decision to issue or deny the permit for the Facility. EPA will notify the applicants and each person who submitted written comments or requested notice of the final permit decision. The notice will include a reference to the procedures for appealing the decision under 40 CFR § 124.19.

The final permit decision to issue or to deny the permit will become effective 30 days after the notice of the decision unless a later effective date is specified in the decision or review is requested on the permit under 40 CFR § 124.19. If there are no comments opposing the issuance of the permit or requesting a change in the draft permit, the permit will become effective immediately upon issuance.

4. Facility Information

The Facility is located at 2523 Mutahar Street, Parker, Arizona, 85344. The Facility is approximately one (1) mile southeast of the town of Parker and close to Arizona Highway 95. This area is part of La Paz County and within CRIT reservation lands.

The Facility achieved RCRA "interim status" as an existing facility, effective August 21, 1991. The Facility operator was formerly known as Siemens Water Technologies LLC, Siemens Industries Inc., U.S. Filter-Westates, and Westates Carbon-Arizona, Inc. Many of the historic documents contain these former names for the Facility operator. As the beneficial landowner, CRIT signed on as co-applicant of the permit application.

EPA is the regulatory agency with jurisdiction for the RCRA hazardous waste permit decision.

4.1 Wastes Handled

This Facility stores and treats by regeneration spent hazardous and non-hazardous activated carbon. The permit application for the Facility identified several hundred hazardous waste codes acceptable for treatment at the Facility. These wastes include, but are not limited to, volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), phthalates, amines, pesticides, and metals.

Some of the spent carbon stored and processed at the facility is received from facilities subject to the Clean Air Act National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Benzene Waste Operations.

5. Basis for the Draft Permit Conditions

5.1 Permit Application

Much of the information reflected in the attached draft permit modules is derived from the permit application submitted by the applicants to the Agency.

5.2 Statutory Provisions

RCRA authorizes EPA to issue permits to persons owning or operating hazardous waste treatment, storage, or disposal facilities. [See RCRA Sections 3004, 3005, 42 U.S.C. §§ 6924 and 6925.]

5.2.1 General Authority

RCRA requires EPA to promulgate regulations establishing standards applicable to owners and operators of hazardous waste storage, treatment, and disposal facilities (42 U.S.C. § 6924). EPA promulgated regulations implementing a federal and state permitting program for such facilities.

5.2.2 Use of Omnibus Authority

RCRA Section 3005(c)(3), 42 U.S.C. § 6925(c)(3), provides that a permit contain terms and conditions that the Administrator determines necessary to protect human health and the environment.

5.3 Regulatory Provisions

On May 19, 1980, EPA promulgated regulations establishing standards and a permitting program for the transportation, storage, treatment and disposal of hazardous waste. 45 FR 33066, May 19, 1980. The regulations have been revised, renumbered, and reorganized many times since then. [See, *e.g.*, 40 CFR Parts 260-279.]

The Facility is currently operating under RCRA's Interim Status regulations at 40 CFR Part 265 as well as complying with the requirements for hazardous waste generators at 40 CFR Part 262.

RCRA's permitted facility standards are found at 40 CFR Part 264. In addition, regulations governing the issuance of RCRA hazardous waste management permits are found at 40 CFR Part 270. Regulations covering the issuance EPA permits generally are contained in 40 CFR Part 124.

The Facility's furnace is currently regulated under RCRA's interim status regulations as a thermal treatment unit. See 40 CFR Part 265, Subpart P. However, under RCRA's permitting regulations, the unit would be classified as a miscellaneous unit. See 40 CFR Part 264, Subpart X.

In an effort to address each of the regulatory provisions applicable to the Facility, the Region has prepared checklists matching specific regulatory requirements to their analogous provisions in the proposed draft permit. (See Appendix B.)

5.3.1 Checklists

Checklists for the applicable regulatory provisions from the following regulations are attached: 40 CFR Parts 61, 63, 124, 264, and 270.

The checklists do not repeat the regulations verbatim. They are merely excerpts, designed to assist the public in understanding the basis for specific proposed permit conditions.

5.4 Other Authorities

In addition to RCRA, a permitted Facility may be subject to other environmental statutes. A brief discussion of additional authorities and their relationship to this proposed permit decision follows.

5.4.1 National Historic Preservation Act (NHPA)

The National Historic Preservation Act of 1966. 16 U.S.C. 470 et seq. Section 106 of the NHPA and its implementing regulations at 36 CFR Part 800 require the Agency, before issuing a permit, to adopt, when feasible, measures to mitigate potential adverse effects of the permitted activity on properties listed or eligible for listing in the National Register of Historic Places. The NHPA's requirements are to be implemented in cooperation with State and Tribal Historic Preservation Officers and, upon notice to and when appropriate, in consultation with the Advisory Council on Historic Preservation.

The NHPA requires that EPA first review potential impacts of its proposed permit decision on historic properties. See NHPA, as amended, at 16 U.S.C. 470, *et seq.* EPA has conducted an NHPA Sec. 106 review of the potential impacts from the issuance of a RCRA hazardous waste permit for the Facility and, in June of 2012, made a final determination that "no adverse effect" on historic properties would occur as a result of EPA's decision. A report documenting the steps taken in making this finding was sent to CRIT, the Arizona State Historic Preservation Office, Evoqua, and the Town of Parker, which were all consulting parties under the NHPA process.

During the NHPA process, EPA identified two sites within a one-mile radius of the Facility (area of potential effects [APE]) as potential historic properties under the NHPA. One is the Parker Cemetery, a location where Navajo Code Talkers are interred. The second site that EPA considered consisted of all areas within the APE from where Black Peak, a mountain sacred to the members of the Native American community in the area, approximately 3 miles away, may

be viewed or from where prayers might be directed. EPA considered both locations to be areas of traditional religious and cultural importance.

EPA identified potential effects of Facility operations on historic properties, including visual and auditory impacts, and impacts stemming from the presence of chemicals at the Facility and in the Facility's emissions. However, because the Facility could continue treating non-hazardous spent carbon, whether or not a hazardous waste management permit is issued, EPA concluded that the permit decision will not significantly affect Facility operations. Thus, EPA has determined that issuing a permit solely for the management of RCRA hazardous waste at the Facility will have no adverse effect on nearby historic properties.

5.4.2 Endangered Species Acts (ESA)

The Endangered Species Act. 16 U.S.C. §§ 1531, et seq. Section 7 of the ESA and its implementing regulations at 50 CFR Part 402, require the Agency to ensure, in consultation with the Secretary of the Interior or Commerce, that any action authorized by EPA is not likely to jeopardize the continued existence of any endangered or threatened species or adversely affect its critical habitat.

EPA has complied with this requirement and has determined that the Risk Assessment submitted with the Part B Permit Application demonstrated that the issuance of a RCRA permit for the Facility would not be expected to jeopardize the continued existence of a listed species or result in the destruction or adverse modification of designated critical habitat. As a result, EPA has completed its obligations under Section 7 of the ESA and does not need to consult with the U.S. Fish and Wildlife Service prior to the issuance of this draft RCRA hazardous waste permit for the Facility. An EPA memorandum reflecting this determination, along with periodic updates and other materials relating to EPA's compliance with Section 7 of the ESA, are included in Appendix D to this Statement of Basis. These materials include the most recently reviewed automated Environmental Conservation Online System-Information, Planning and Conservation (ECOS-IPaC) system print out about the resources managed in the area of the Facility by the US Fish and Wildlife Service.

5.4.3. Wild and Scenic Rivers Act

The Wild and Scenic Rivers Act. 16 U.S.C. § 1273, et seq. Section 7 of the Wild and Scenic Rivers Act prohibits the Agency from assisting the licensing or construction of any water resources project that would have a direct, adverse effect on the values for which a national wild and scenic river was established.

EPA has made a determination that the issuance of a hazardous waste management permit for the Facility will not have a direct, adverse effect pursuant to the Wild and Scenic Rivers Act, since the portion of the Colorado River that passes by Parker, Arizona is not designated as part of the Wild and Scenic Rivers Act system.

5.4.4. Coastal Zone Management Act

The Coastal Zone Management Act. 16 U.S.C. § 1451, et seq. Section 307(c) of the Coastal Zone Management Act, and its implementing regulations at 15 CFR Part 930, prohibit EPA from issuing a permit for an activity affecting land or water use in the coastal zone until the applicant certifies that the proposed activity complies with the State Coastal Zone Management program,

and the State or its designated agency concurs with the certification (or the Secretary of Commerce overrides the State's non-concurrence).

The Coastal Zone Management Act is not applicable to this proposed action because land held in trust by the federal government, such as the CRIT Reservation on which the Facility is located, is excluded from the definition of "coastal zone." [See 16 U.S.C. § 1453(1).]

5.4.5 Fish and Wildlife Coordination Act

The Fish and Wildlife Coordination Act. 16 U.S.C. §§ 661, et seq. requires that the Agency, before issuing a permit proposing or authorizing the impoundment (with certain exemptions), diversion, or other control or modification of any body of water, consult with the appropriate State agency exercising jurisdiction over wildlife resources to conserve those resources.

This proposed permit decision would neither propose nor authorize the impoundment, diversion, or other control or modification of any body of water and thus the Fish and Wildlife Coordination Act is inapplicable to this proposed action.

5.4.6 The Clean Air Act

The Clean Air Act (CAA), 42 U.S.C. §§ 7661 *et seq.*, requires any major source of criteria or hazardous air pollutants (HAP) to obtain a title V permit. For criteria air pollutants, the title V major source threshold is 100 tons per year (tpy); for HAPs, the title V major source threshold is 10 tpy for any individual HAP and 25 tpy for any combination of HAPs.

The Facility's uncontrolled potential to emit criteria and HAP pollutants is below applicable major source thresholds, with the exception of sulfur dioxide (SO2) and oxides of nitrogen (NOx).

This draft RCRA permit, if finalized, would impose practically enforceable, synthetic minor limits on SO2 and NOx. For SO2, this includes a Facility-wide cap of 30 tpy, demonstrated on a rolling 12-month basis, using sulfur content of the feed, carbon reactivation production rate, and hours of operation over the course of the year, minus a 90% presumed sulfur removal rate from the packed bed scrubber system. For NOx, this includes a Facility-wide cap of 22 tpy, demonstrated on a 12-month rolling basis, using the NOx stack gas concentration from the most recent stack test where NOx was measured (average of 3 runs), flow rate out of the stack, and the hours of operation of the reactivation unit. The Facility is also subject to a Performance Demonstration Test (PDT), also known as a "trial burn", at least once every five years. See Draft Permit Condition I.K.1.c.

EPA believes these Facility-wide synthetic minor limits, in conjunction with the monitoring, recordkeeping, and reporting required by the draft RCRA permit in Permit Condition I.E.9. and elsewhere in the draft RCRA permit, are sufficient to limit the Facility's emissions below the title V major source threshold of 100 tpy. Because these limits on the Facility's air emissions would be practically and federally enforceable, the Facility would not be required to obtain a separate title V permit if the draft RCRA permit is made final.

5.5 Permit Conditions and Operating Parameters that are based on the Performance Demonstration Test (PDT)

The operating limits, parameters, and draft permit conditions for the carbon regeneration furnace and its associated air pollution control and other equipment are primarily found in the draft permit at Module V. These proposed limits, parameters and conditions are based on the results

of the PDT that was performed in 2006 by Evoqua under the oversight of EPA and documented in the Risk Assessment, which was submitted as part of the Part B Permit Application. The PDT evaluated the operation of the furnace and showed that emissions from the stack meet the Hazardous Waste Combustor Maximum Achievable Control Technology (MACT) standards set forth in 40 CFR Part 63, Subpart EEE. While promulgated in the CAA MACT standards section of the Code of Federal Regulations, these 40 CFR Part 63, Subpart EEE standards are applicable to units under both the CAA and RCRA. For example, 40 CFR Part 264, Subpart X allows EPA to draw on these requirements when appropriate to apply to Miscellaneous Units, such as the carbon regeneration furnace at the Facility. [See 40 CFR § 264.601.]

5.6 Risk Assessment

On July 30, 2007, Evoqua submitted its Human Health and Ecological Risk Assessment Report to EPA. The risk assessment uses the results from the Final March 2006 PDT, conducted at the Facility in accordance with the EPA regulations for this type of facility.

The risk assessment demonstrates that even using conservative assumptions:

- The potential for adverse health impacts associated with air emissions from both the Facility's carbon reactivation furnace and from spent carbon unloading are below regulatory and other target risk levels, for both human health and ecological receptors;
- The incremental contribution of effluent from the Facility's wastewater treatment plant drainage does not pose unacceptable risks to either aquatic life or human health; and
- Both concentrations of fugitive emissions from carbon unloading at the Facility and measured worker breathing zone concentrations are below occupational exposure limits.

In conclusion, this analysis demonstrates that, even with conservative assumptions, the likelihood of adverse human health impacts from facility operations is below levels of concern and regulatory target levels.

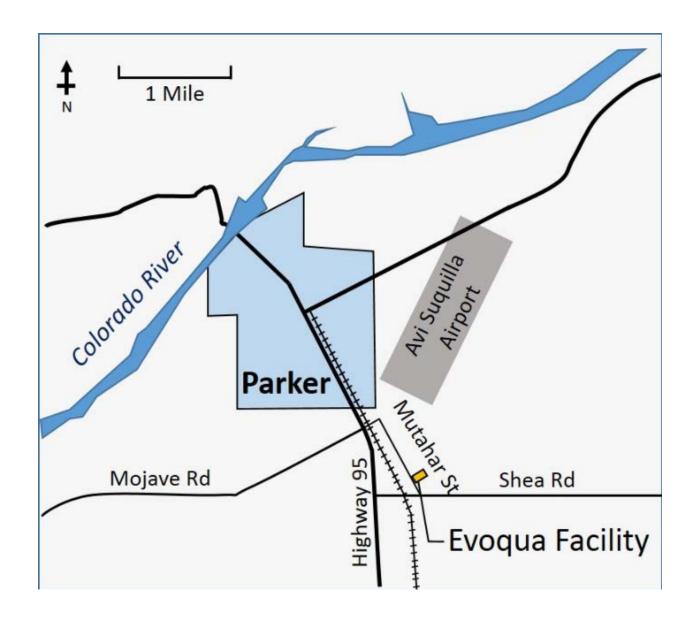
6. Tribal Consultation with the Colorado River Indian Tribes (CRIT)

In August of 2014, EPA initiated formal Tribal consultation with respect to the RCRA Hazardous Waste Permit Application submitted to EPA for the Facility, which is operated by Evoqua on the Tribe's land. EPA regards its formal consultation with CRIT as a critical part of the RCRA permitting process for the Facility. The Tribe's status as the beneficial landowner of the trust land on which the Facility is located makes that consultation process all the more significant, because CRIT is a co-applicant on the RCRA Permit Application.

Since the time that EPA initiated formal Tribal consultation in a letter, dated August 28, 2014, EPA made two presentations about the Facility and the Agency's review of the Permit Application to the CRIT Council; one on September 22, 2014, and another on March 12, 2015.

Formal Tribal consultation was closed on May 20, 2016. EPA will open a separate formal consultation in advance of the final permit decision. If a permit is issued, EPA will continue regular consultation regarding hazardous waste management at the facility with the Tribal Council.

Figure 1 – Site Location Map



USFILTER WESTATES
CARBON REACTIVATION DIAGRAM

TOTAL

TOTA

Figure 2 – Facility Process Diagram

Appendix A Draft Permit Modules

DRAFT RCRA PERMIT Evoqua Water Technologies LLC Colorado River Indian Tribes EPA ID# AZD982441263 Introduction/Table of Contents, Page 1 September 2016



U.S. Environmental Protection Agency Resource Conservation & Recovery Act Draft Permit EPA RCRA I.D. Number: AZD982441263

BENEFICIAL COLORADO RIVER INDIAN OPERATOR: EVOQUA WATER TECHNOLOGIES,

LANDOWNER: TRIBES LLC

26600 Mohave Road 2523 Mutahar Street Parker, Arizona 85344 Parker, Arizona 85344

Pursuant to the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act (RCRA) of 1976, 42 USC Sections 6901 <u>et seq.</u>, and the Hazardous and Solid Waste Amendments (HSWA) of 1984, P.L. 98-616 (collectively, hereafter, "RCRA"), and regulations promulgated thereunder by the U.S. Environmental Protection Agency (EPA) (codified and to be codified in Title 40 of the Code of Federal Regulations), this Permit is issued to Evoqua Water Technologies, LLC and the Colorado River Indian Tribes (collectively, hereafter, the "Permittees"), for the facility located at 2523 Mutahar Street, Parker, Arizona 85344 with the EPA RCRA ID # AZD982441263.

This Permit, with all its attachments, constitutes the full RCRA Permit for this Facility. The Permittees, pursuant to this Permit, are required to investigate any releases of hazardous waste or hazardous constituents at the Facility, regardless of the time at which waste was placed in a unit. The Permittees are required to take appropriate corrective action for any such releases.

The Permittees must comply with all the terms and conditions of this Permit. This Permit consists of the conditions contained herein (including those in any appendices) and the applicable regulations contained in 40 CFR Parts 61, 63, 124, and 260 through 270, as specified in this Permit, and the statutory requirements of RCRA. Nothing in this Permit shall preclude the Regional Administrator from reviewing and modifying the Permit at any time during its term in accordance with 40 CFR § 270.41.

This Permit is based on the premise that information and reports submitted by the Permittees prior to issuance of this Permit are complete and accurate, unless otherwise indicated in this Permit. Any inaccuracies found in this information or information submitted as required by this Permit may be grounds for termination or modification of this Permit in accordance with 40 CFR §§ 270.41, 270.42, or 270.43 and/or potential enforcement. The Permittees must inform the EPA of any deviation from or changes in the information in the application which would affect the Permittees' ability to comply with the applicable regulations or Permit conditions.

This Permit is effective ______, and shall remain in effect for ten (10) years until ______, unless revoked and reissued, or terminated under 40 CFR §§ 270.41 and/or 270.43 or continued in accordance with 40 CFR § 270.51(a). All obligations for performance of the conditions of this Permit are in effect until deemed complete by the Director of the Land Division for the U.S. Environmental Protection Agency, Region 9 (the "Director").

DRAFT RCRA PERMIT Evoqua Water Technologies LLC Colorado River Indian Tribes EPA ID# AZD982441263 Introduction/Table of Contents, Page 2 September 2016

If any conditions of this Permit are appealed in accordance with 40 CFR § 124.19, the effective date of the conditions determined to be stayed in accordance with 40 CFR § 124.16 shall be determined by <u>final agency action</u> as specified under 40 CFR § 124.19.

9/27/2016
Date Issued

/SIGNED/
Jeff Scott
Director
Land Division

DRAFT RCRA PERMIT Evoqua Water Technologies LLC Colorado River Indian Tribes EPA ID# AZD982441263 Introduction/Table of Contents, Page 3 September 2016

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This draft permit has been created in accordance with 40 CFR § 124.6 as part of US EPA's proposed RCRA hazardous waste permit decision for the hazardous waste facility (EPA ID # AZD982441263) located on trust land of the Colorado River Indian Tribes at 2523 Mutahar Street, Parker, Arizona, 85344, and operated by Evoqua Water Technologies LLC

DRAFT RCRA PERMIT Evoqua Water Technologies LLC Colorado River Indian Tribes EPA ID# AZD982441263 Introduction/Table of Contents, Page 4 September 2016

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PERMIT ATTACHMENT APPENDICES:

I PART A PERMIT APPLICATION.....

This draft permit has been created in accordance with 40 CFR § 124.6 as part of US EPA's proposed RCRA hazardous waste permit decision for the hazardous waste facility (EPA ID # AZD982441263) located on trust land of the Colorado River Indian Tribes at 2523 Mutahar Street, Parker, Arizona, 85344, and operated by Evoqua Water Technologies LLC

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MODULE I - GENERAL PERMIT CONDITIONS

I. <u>INTRODUCTION</u>

This document, consisting of Modules I through VI and the Permit Attachments, Permit Exhibits, and any other documents incorporated herein, constitutes a hazardous waste permit under Subtitle C of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act of 1976, as amended, (RCRA), and the applicable regulations at Title 40 of the Code of Federal Regulations (40 CFR) Parts 260 through 270 for hazardous waste storage and treatment at a carbon regeneration facility (EPA ID Number - AZD982441263) (Permit) located on the Colorado River Indian Tribes (CRIT) Reservation near Parker, Arizona. At the Evoqua Water Technologies LLC Facility (defined below), spent carbon is treated in a regeneration furnace to purify it and make it suitable as a commercial product. [See 40 CFR §§ 264.10 and 264.11.]

I.A. EFFECT OF PERMIT

- I.A.1. The Permittees Evoqua Water Technologies LLC and CRIT are allowed to store and treat hazardous waste in accordance with the conditions of this Permit. Any storage or treatment of hazardous waste at the Facility not authorized in this Permit is prohibited. Pursuant to 40 CFR §270.4, compliance with this Permit generally constitutes compliance, for purposes of enforcement with RCRA, with some exceptions (42 U.S.C. §§6901 et seq.). [See also Permit Conditions II.A.2. and II.A.5. and 40 CFR Part 262, §§270.1(c), and 270.4.]
- I.A.2. Issuance of this Permit does not convey any property rights of any sort or any exclusive privilege. [See 40 CFR §§270.4(b) and 270.30(g).]
- I.A.3. Issuance of this Permit does not authorize any injury to persons or property, any invasion of other private rights, or any infringement of Tribal, state or local law or regulations. [See 40 CFR §270.4(c).]
- I.A.4. Compliance with the terms of this Permit does not constitute a defense to any order issued or any action brought under Sections 3008(h), 3013, or

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7003 of RCRA, Sections 104, 106(a) or 107 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) (42 U.S.C. §§9601 et seq.), or any other law providing for protection of public health or the environment. In addition, compliance with the terms of this Permit does not constitute a defense to any order issued or any action brought under Sections 3008(a), solely with respect to those requirements set forth at 40 CFR § 270.4(a)(1)(i)-(iv).

- I.A.5. This Permit supersedes any and all requirements included in the attachments, sections, and appendices of the permit application. However, to the extent that any attachments, sections or appendices of the permit application are incorporated into and made a part of this Permit, and to the extent that any such attachments, sections or appendices contradict or conflict with the requirements of the Permit set forth in Modules I through VI, inclusive, the conditions set forth in Modules I through VI shall control. In addition, references to RCRA's interim status requirements (40 CFR Part 265) contained in such attachments, sections or appendices are superseded by the standards applicable to RCRA permitted facilities (40 CFR Part 264), as appropriate, upon the effective date of this Permit.
- I.A.6. Unless set forth specifically otherwise herein, requirements of this Permit apply to both the tribal trust landowner and the operator of the Facility, who are referred to herein collectively as the "Permittees." However, compliance with such requirements of this Permit by either the Tribe, as beneficial landowner, or the operator is regarded as sufficient for both. [See 45 Federal Register (FR) 33295/col. 3, (May 19, 1980).]
- I.A.7. Where citations to regulatory authority are included at the end of a permit condition -- for example "[See 40 CFR §264.XXX.]" -- such references are solely to assist those reading the Permit with identifying the source of the requirement to which the citation applies. Such citations do not, in and of themselves, incorporate the regulatory requirement into the permit condition. However, where regulations are referenced in the body of a permit condition for example "Pursuant to 40 CFR § 264.XXX" or "In accordance with 40 CFR § 264.XXX," the requirements of the regulation so cited are incorporated into the permit condition.

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I.A.8. For the purposes of this Permit, any reference to a regulatory requirement (including any interim final regulation) shall refer to the version of such regulatory requirement which is in effect at the time of issuance of the permit. With some exceptions as set forth in 40 CFR § 270.4(a)(1), where regulatory authorities affecting conditions of this Permit are issued, revised or amended after the issuance of this Permit, such new, revised or amended provisions shall only be applicable to the operations of the Facility after a permit modification incorporates such requirements or after a renewal of the Permit, incorporating or referencing such new, revised or amended regulations, is issued. [See 40 CFR 270.32(c) and 40 CFR § 270.4(a)(1).]

I.B. PERMIT ACTIONS

- I.B.1. This Permit may be modified, revoked and reissued, or terminated for cause, in accordance with 40 CFR §§ 270.41, 270.42, and 270.43. The filing of a request for a permit modification, revocation and reissuance, or termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittees, does not stay the applicability or enforceability of any permit condition. [See 40 CFR §§ 270.4(a)(2), 270.30(f), 270.41, 270.42, and 270.43.]
- I.B.2. This Permit may be renewed in accordance with 40 CFR § 270.30(b) and Permit Condition I.E.2. Review of any application for a Permit renewal shall consider improvements in the state of control and measurement technology, as well as changes in applicable regulations. [See 40 CFR § 270.30(b), RCRA Section 3005(c)(3).]

I.C. SEVERABILITY

The provisions of this Permit are severable, and if any provision of this Permit, or the application of any provision of this Permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this Permit shall not be affected thereby. [See 40 CFR §124.16.]

I.D. DEFINITIONS

For purposes of this Permit, terms used herein shall have the same meaning as

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those in 40 CFR Parts 61, 63, 124, 260, 264, 266, 268, and 270, as appropriate, unless this Permit specifically provides otherwise. Where terms are not defined in the regulations or this Permit, the meaning associated with such terms shall be defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term.

AOC means Area of Concern.

CEMS means continuous emissions monitoring system.

<u>CERCLA</u> means the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, (42 U.S.C. §§9601 et seq.,) as amended.

<u>CFR</u> means Code of Federal Regulations, latest edition.

<u>CMS</u> means continuous monitoring system.

<u>CRIT</u> or <u>Tribe</u> means the beneficial landowner of the land on which the Facility is located, the Colorado River Indian Tribes.

<u>Day</u> or <u>days</u> means a calendar day or days, even if the word "calendar" is absent, unless otherwise specified.

<u>Director</u> means the Director of the EPA Region 9 Land Division, or his or her designee or authorized representative.

<u>Enforcement Director</u> means the Director of the EPA Region 9 Enforcement Division, or his or her designee or authorized representative.

<u>EPA</u> means the United States Environmental Protection Agency.

<u>Facility</u> means the carbon regeneration facility located at 2523 Mutahar Street, Parker, Arizona, 85344, on land of the Colorado River Indian Tribes and all contiguous land, and structures, other appurtenances, and improvements on the land, used for treating or storing, of spent carbon as allowed by this Permit.

Facility mailing list means the most recent version of the interested parties mailing

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list provided by the EPA Region 9 Land Division to the Permittee(s).

HWMU means Hazardous Waste Management Unit.

Method 21 means Method 21 from Appendix A-7 of 40 CFR Part 60.

PDT means Performance Demonstration Test.

<u>Permit Attachment(s)</u>, <u>Permit Attachment Section(s)</u> and <u>Permit Attachment Appendix or Appendices</u> mean the attachments, sections and appendices to this Permit, which were transmitted to EPA by the Permittees in their Part B Permit Application dated April 2016.

<u>Permittee, Permittees</u> or <u>Permit Applicants</u> means either Evoqua Water Technologies, LLC, the operator of the Facility, or the Colorado River Indian Tribes, the beneficial landowner of the tribal land on which the Facility is located, or both.

<u>Product</u> means the carbon that has been thermally treated and regenerated at the Facility.

<u>RCRA</u> means the Solid Waste Disposal Act as amended by the Resource Conservation and Recovery Act of 1976 and the Hazardous and Solid Waste Amendments of 1984, as amended, 42 U.S.C. §§ 6901 <u>et seq</u>.

<u>Site</u> means the land where the Facility is physically located down to and including the groundwater zone.

SWMU means Solid Waste Management Unit.

I.E. DUTIES AND REQUIREMENTS

I.E.1. <u>Duty to Comply</u>

The Permittees shall comply with all conditions of this Permit, except to the extent and for the duration such noncompliance is authorized by an emergency permit. Any Permit noncompliance, other than noncompliance

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authorized by an emergency permit, constitutes a violation of RCRA and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. [See 40 CFR §270.30(a).]

I.E.2. <u>Duty to Reapply</u>

If the Permittees wish to continue an activity allowed by this Permit after the expiration date of this Permit, the Permittees shall submit a complete application for a new permit at least 180 days prior to the Permit's expiration. [See 40 CFR §§270.10(h) and 270.30(b).]

I.E.3. <u>Permit Expiration</u>

This Permit shall be effective for a fixed term not to exceed ten years. This Permit and all conditions herein will remain in effect and enforceable beyond the Permit's expiration date, if the Permittees have submitted a timely, complete application and, through no fault of the Permittees, the Director has not issued a new permit. [See 40 CFR §§270.10, 270.13, 270.14, 270.50, and 270.51.]

I.E.4. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the Permittees in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit. [See 40 CFR §270.30(c).]

I.E.5. Duty to Mitigate

In the event of noncompliance with this Permit, the Permittees shall take all reasonable steps to minimize releases to the environment and shall carry out such measures, as are reasonable, to prevent significant adverse impacts on human health or the environment. [See 40 CFR §270.30(d).]

I.E.6. Proper Operation and Maintenance

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The Permittees shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances), which are installed or used by the Permittees to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance/quality control procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Permit. [See 40 CFR §270.30(e).]

I.E.7. <u>Duty to Provide Information</u>

The Permittees shall furnish to the Director or the Enforcement Director, as appropriate, within a reasonable time, any relevant information which the Director or the Enforcement Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Permit, or to determine compliance with this Permit. The Permittees shall also furnish to the Director or the Enforcement Director, as appropriate, upon request, copies of records required to be kept by this Permit. [See 40 CFR §270.30(h).]

I.E.8. Inspection and Entry

The Permittees shall allow the Director or the Enforcement Director, as appropriate, or an authorized representative, upon presenting credentials and other documents, as may be required by law, to:

- I.E.8.a. Enter during business hours or at a reasonable time upon the Facility and/or either Permittees' premises where a regulated activity is located or conducted, or where records must be kept under the conditions of this Permit;
- I.E.8.b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;

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- I.E.8.c. Inspect at reasonable times any equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and
- I.E.8.d. Sample or monitor, at reasonable times, for the purposes of assuring Permit compliance or as otherwise authorized by RCRA, any substances or parameters at any location at the Facility. [See 40 CFR §270.30(i).]

I.E.9. <u>Monitoring and Records</u>

- I.E.9.a. Samples and measurements taken by the Permittees for the purpose of monitoring shall be representative of the monitored activity. The method used to obtain a representative sample of the waste must be the appropriate method from Appendix I of 40 CFR Part 261 or an equivalent method approved by the Director. Laboratory analytic methods must be those specified in Test Methods for Evaluating Solid Waste: Physical/Chemical Methods SW-846, Standard Methods of Wastewater Analysis, or an equivalent method, as specified in the Waste Analysis Plan (See Permit Condition II.C, Permit Attachment Section C and Permit Attachment Appendix IV). [See 40 CFR §270.30(j)(1).]
- I.E.9.b. The Permittees shall retain records of all monitoring information (including all calibration and maintenance records and all digital and original strip chart recordings for continuous monitoring instrumentation), copies of all reports and records required by this Permit, the certification required by 40 CFR § 264.73(b)(9) and Permit Condition II.A.6., and records of all data used to complete the application for this Permit for a period of at least 3 years from the date of the sample, measurement, report, record, certification, or application. These periods may be extended by request of the Director at any time and are automatically extended during the course of any unresolved enforcement action

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regarding this Facility. The Permittees shall maintain records for all ground-water monitoring wells and associated ground-water surface elevations for the active life of the Facility. This provision does not apply to any records required to be maintained in accordance with Permit Condition V.G, which shall instead be subject to that requirement. [See 40 CFR §§ 264.73(b)(9), 264.74(b) and 270.30(j)(2). See also Permit Condition V.G.]

I.E.9.c. Records of monitoring information shall specify:

I.E.9.c.i.	The dates, exact place, and time of sampling
	or measurements;

I.E.9.c.ii. The individual(s) who performed the sampling or measurements;

I.E.9.c.iii. The date(s) analyses were performed;

I.E.9.c.iv. The individual(s) who performed the analyses;

I.E.9.c.v. The analytical technique(s) or method(s) used; and

I.E.9.c.vi. The results of such analyses. [See 40 CFR §270.30(j)(3).]

I.E.10. Reporting Planned Changes

The Permittees shall give notice to the Director, as soon as possible, of any planned physical alterations or additions to the Facility. If any planned "changes" (as defined at 40 CFR § 63.1206(b)(5)(iii)), to the design, operation, or maintenance practices of the source may adversely affect compliance with any emission standard that is not monitored with a CEMS, the Permittees shall follow the procedures set forth at 40 CFR § 63.1206(b)(5)(i) for notification, performance testing and restrictions on

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waste burning, or otherwise shall comply with the requirements of 40 CFR § 63.1206(b)(5)(ii). Any notice provided under this section shall include any necessary request for a permit modification pursuant to Permit Condition I.G.7. and 40 CFR § 270.42. [See 40 CFR §§ 63.1206(b)(5), 63.1207(j), 63.1210(d), 270.30(l)(1) and 270.42.]

I.E.11. Reporting Anticipated Noncompliance

The Permittees shall give advance notice to the Director of any planned changes in the Facility or activity which may result in noncompliance with Permit requirements. [See 40 CFR §270.30(l)(2).]

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I.E.12. <u>Transfer of Permits</u>

This Permit is not transferable to any person, except after notice to the Director. The Director may require modification or revocation and reissuance of the Permit to change the name of a Permittee and incorporate such other requirements as may be necessary in accordance with 40 CFR §270.40. Before transferring ownership or operation of the Facility, the Permittees shall notify the new owner or operator in writing of the requirements of 40 CFR Parts 264 and 270 and this Permit. [See 40 CFR §\$264.12(c), 270.30(l)(3) and 270.40.]

I.E.13. Twenty-Four Hour Reporting

- I.E.13.a. The Permittees shall report to the Director any noncompliance which may endanger human health or the environment. Any such information shall be reported orally within 24 hours from the time whichever Permittee first becomes aware of the circumstances. The report shall include the following:
 - I.E.13.a.i. Information concerning release of any hazardous waste that may cause an endangerment to public drinking water supplies; and
 - I.E.13.a.ii. Any information of a release or discharge of hazardous waste, or of a fire or explosion from the Facility which could threaten the environment or human health inside or outside the Facility. [See 40 CFR §270.30(1)(6)(i).];
- I.E.13.b. The description of the noncompliance and its cause shall include:
 - I.E.13.b.i. Names, addresses, and telephone numbers of the Permittees;

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I.E.13.b.ii. Name, address, and telephone number of the Facility;

I.E.13.b.iii. Date, time, and type of incident;

I.E.13.b.iv. Name and quantity of materials involved;

I.E.13.b.v. The extent of injuries, if any;

I.E.13.b.vi. An assessment of actual or potential hazards to the environment and/or human health outside the Facility, where this is applicable; and

I.E.13.b.vii. Estimated quantity and disposition of recovered material that resulted from the incident. [See 40 CFR §270.30(1)(6)(ii).]

I.E.13.c. A written submission shall also be provided within five days of the time that whichever Permittee first becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period(s) of noncompliance (including exact dates and times); whether the noncompliance has been corrected, and, if not, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The Director may waive the five-day written notice requirement in favor of a written report within 15 days. [See 40 CFR §270.30(1)(6)(iii).]

I.E.14. Compliance Schedule Reporting

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 14 days following each schedule date. [See 40 CFR §270.30(l)(5).]

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I.E.15. Other Noncompliance

The Permittees shall report all other instances of noncompliance not otherwise required to be reported in Permit Conditions I.E.10 through I.E.14, at the time monitoring reports are submitted. The reports of noncompliance shall contain the information listed in Permit Condition I.E.13. [See 40 CFR §270.30(I)(10).]

I.E.16. Other Information

Whenever either Permittee becomes aware that either Permittee failed to submit any relevant facts, or submitted incorrect information, in a Permit application or in any report to the Director, the Permittees shall promptly submit such facts or information. [See 40 CFR § 270.30(1)(11).]

I.F. SIGNATORY REQUIREMENT

All applications, reports, or information submitted to or requested by the Director, the Enforcement Director, or a designee or authorized representative of the Director or the Enforcement Director, shall be signed and certified in accordance with 40 CFR §§ 270.11 and 270.30(k). [See 40 CFR §§ 270.11 and 270.30(k).]

I.G. REPORTS, NOTIFICATIONS, AND DELIVERABLES

I.G.1. All reports, correspondence, notices or other deliverables required by this Permit, or required to be submitted to EPA or the Regional Administrator under regulatory provisions cited in this Permit, shall be delivered by U.S. Postal Service or private courier service to:

Director, Land Division US Environmental Protection Agency, Region IX 75 Hawthorne St. (LND-1) San Francisco, CA 94105

I.G.2. All deliverables submitted pursuant to this Permit shall be printed on recycled paper and shall be copied double-sided, whenever practicable. Additionally, all deliverables submitted pursuant to this Permit shall also be submitted in electronic format (*e.g.*,

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CD ROM, flash drive). Permittees may submit such deliverables by electronic mail where the Permittees and the Director have agreed in writing as to the appropriate email address for such electronic mail submissions.

- I.G.3. For the computation of time periods set forth in this Permit, the Permittees shall conduct the following:
 - I.G.3.a. Any time period scheduled to begin on the occurrence of an act or event shall begin on the day after the act or event.
 - I.G.3.b. Any time period scheduled to begin before the occurrence of an act or event shall be computed so that the period ends on the day before the act or event.
 - I.G.3.c. If the final day of any time period falls on a weekend or legal holiday, the time period shall be extended to the next working day. [See, *e.g.*, 40 CFR § 124.20.]
- I.G.4. Where this permit references or incorporates any standard from 40 CFR Part 63 for which a notice or notification is required to be submitted to EPA, including any notice or notification required under 40 CFR §§ 63.1206(b)(5), 63.1207(j) or 63.1210, the Permittees shall submit such notice or notification with reference to the specific provision of this Permit requiring the notice or notification. [See 40 CFR §§ 63.1206(b)(5), 63.1207(j) and 63.1210.]
- I.G.5. <u>Deliverables Submitted for the Director's Review and Approval</u>
 - I.G.5.a. Deliverables that are explicitly required by this Permit to be submitted to the Director for review and approval must be post-marked by the due date specified in this Permit or by the specific schedules developed pursuant to the requirements of this Permit that apply to such deliverables. The Director shall review and respond to the deliverable in accordance with Permit Condition I.G.5.b.
 - I.G.5.b. Subject to the provisions of I.G.5.c., after review of any deliverable that is required to be approved by the Director pursuant to this Permit, the Director will either:

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- (i) approve, in whole or in part, the submission;
- (ii) approve the submission on specified conditions;
- (iii) modify the submission to cure the deficiencies;
- (iv) disapprove, in whole or in part, the submission, directing that Permittee modify the submission; or
- (v) any combination of the above.
- I.G.5.c. The Director will not modify a deliverable under Permit Condition I.G.5.b. without first providing the Permittees at least one notice of deficiency and an opportunity to cure within ten (10) days, except:
 - (i) where the Director determines that to do so would cause serious disruption to the work required by this Permit or could present an unacceptable risk to human health or the environment; or
 - (ii) where the Director has disapproved previous submission(s) due to material defects and the Director determines that the deficiencies in the submission under consideration indicate a bad faith lack of effort to submit an acceptable deliverable.
- I.G.5.d. Upon approval of any deliverable pursuant to this Permit, including approval on conditions or modification by the Director, the Permittees shall maintain a copy of the approved deliverable in the Operating Record and proceed to take any action required by and in accordance with the approved deliverable.
- I.G.5.e. <u>Resubmission of Deliverable:</u> Upon receipt of a notice of disapproval, in whole or in part, pursuant to this Permit Condition I.G.5., the Permittees shall, within twenty-one (21) days or such longer time as specified by the Director in such notice, correct the deficiencies and resubmit the deliverable for approval.
- I.G.5.f. Notwithstanding the receipt of a notice of disapproval pursuant to this Permit Condition I.G.5., the Permittees shall proceed, at the direction of the Director, to take any action required by any non-deficient portion of the submission. Implementation of any non-deficient portion of a submission shall not relieve the Permittees of the obligation to address any deficient portion of the submission.

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- I.G.5.g. In the event that a resubmitted deliverable, or portion thereof, is disapproved by the Director, the Director may again require the Permittees to correct the deficiencies, in accordance with this Permit Condition I.G.5.
- I.G.5.h. If upon resubmission, a deliverable is disapproved or modified by the Director due to a material defect, the Permittees shall be deemed to have failed to submit such deliverable in a timely or adequate manner.
- I.G.5.i. The disapproval or modification of a deliverable by the Director pursuant to this Permit Condition I.G.5. is subject to the informal dispute resolution procedures set forth in Permit Condition I.L.

I.G.6. <u>Modifications to Previously Approved Deliverables</u>

- I.G.6.a. If at any time during the life of this Permit, the Permittees identify a need for a modification of any previously approved deliverable required by this Permit or of any deadline required by this Permit, the Permittees shall submit a memorandum documenting the need for the modification to the Director. Where appropriate, such memorandum shall be accompanied by a request for a Permit Modification pursuant to 40 CFR § 270.42. [See 40 CFR § 270.42.]
- I.G.6.b. Where a Permit Modification is not requested by the Permittees, the Director will determine if the requested modification to the previously approved deliverable or to the deadline is warranted as soon as practicable after receipt of any memorandum submitted pursuant to Permit Condition I.G.6.a. and so inform the Permittees in writing that the proposed modification to the deliverable or deadline has been approved, modified or disapproved as provided in Permit Condition I.G.5.b. and subject to Permit Condition I.G.5.c. Where the memorandum is accompanied by a request for a Permit Modification under 40 CFR § 270.42, RCRA's permit modification procedures shall apply. [See 40 CFR § 270.42.]
- I.G.6.c. Requests for extensions of the due dates for deliverables may be granted by the Director in accordance with either the procedures in Permit Condition I.G.6.a. of this Permit or RCRA's permit modification processes. [See 40 CFR § 270.42.]

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I.G.7. <u>Deliverables that Require a Permit Modification</u>

- I.G.7.a. Deliverables that are explicitly required by this Permit to be submitted with an accompanying request for a permit modification in accordance with this Permit Condition I.G.7., must specify the class of permit modification for which the request is being submitted in accordance with 40 CFR § 270.42 and Appendix 1 to that section. Or, if the request is for a permit modification not explicitly identified in Appendix 1 to 40 CFR § 270.42, the Permittees may submit a Class 3 modification request to the Director, or may request a determination by the Director that the modification should be reviewed and approved as a Class 1 with no prior Director approval, Class 1 with prior Director approval, or Class 2 modification. [See 40 CFR § 270.42 and Appendix 1 to 40 CFR § 270.42.]
- I.G.7.b. For any permit modification not explicitly identified in Appendix 1 to 40 CFR § 270.42, if the Permittees request that the modification be classified as a Class 1 with no prior Director approval, Class 1 with prior Director approval, or Class 2 modification, the request must include the necessary information to support the requested classification in accordance with 40 CFR §270.42. [See 40 CFR § 270.42(d).]
- I.G.7.c. The Director's determination that the modification should or should not be treated as a Class 1 with no prior Director approval, Class 1 with prior Director approval, or Class 2 modification shall be subject to the Informal Dispute Resolution provisions of Permit Condition I.L., but any other decisions made by the Director as part of the permit modification process shall only be reviewable in accordance with 40 CFR Part 124. [See 40 CFR Part 124.]

I.G.8. Deliverables That May Trigger a Permit Modification

Where a report or other deliverable required by this Permit includes a recommendation that the Permit be modified, and the report or other deliverable is subject to approval by the Director under Permit Condition I.G.5., the request for the permit modification should only be submitted after the report or other deliverable recommending the modification has been approved by the Director.

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I.H. CONFIDENTIAL INFORMATION

In accordance with 40 CFR §270.12, either Permittee may claim any information required to be submitted by this Permit as confidential. If no claim is made at the time of submission, the information may be made available to the public without further notice. [See 40 CFR Part 2, Subpart B, and § 270.12.]

I.I. DOCUMENTS TO BE MAINTAINED AT THE FACILITY

- I.I.1. The Permittees shall maintain at the Facility, until closure is completed and certified by an independent, registered professional engineer, the following documents and all amendments, revisions, and modifications to these documents:
 - 1. Waste Analysis Plan, as required by 40 CFR §264.13 and this Permit;
 - 2. Inspection schedules, as required by 40 CFR §264.15(b)(2) and this Permit;
 - 3. Personnel training documents and records, as required by 40 CFR §264.16(d) and this Permit;
 - 4. Contingency Plan, as required by 40 CFR §264.53(a) and this Permit;
 - 5. Operating record, as required by 40 CFR §264.73 and this Permit;
 - 6. Closure Plan, as required by 40 CFR §264.112(a) and this Permit;
 - 7. Annually-adjusted cost estimates for Facility closure, as required by 40 CFR §264.142(d) and this Permit;
 - 8. The Startup Shutdown and Malfunction Plan (SSMP), as required by this Permit;
 - 9. The Subpart FF Compliance Plan; and
 - 10. All other documents required to be maintained for the life of the Facility in accordance with the requirements of this Permit.
- I.I.2. All records, including plans, required under this Permit must be furnished upon request, and made available at all reasonable times for inspection by any officer, employee, or representative of EPA who is duly designated by the Director. [See 40 CFR § 264.74(a).]

I.J. INFORMATION REPOSITORY

I.J.1. The Permittees must establish and maintain an information repository that meets the requirements of 40 CFR § 124.33 and includes the records identified in Permit Exhibit

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- I. [See 40 CFR §§124.33 and 270.30(m).]
- I.J.2. The Permittees must update the information repository with appropriate information at least every five (5) years throughout the life of this Permit. [See 40 CFR §§ 124.33(f) and 270.30(m).]
- I.J.3 Permittees shall send notice of the location of the information repository to all persons on the facility's mailing list. [See 40 CFR §§ 124.33(e) and 270.30(m).]

I.K. COMPLIANCE SCHEDULE

- I.K.1. <u>Performance Demonstration Test.</u> The Permittees shall perform periodic trial burns or "Performance Demonstration Tests" in accordance with the following requirements. (The Performance Demonstration Test is a combination of the Comprehensive Performance Tests and traditional RCRA "Trial Burn" to address site specific risk assessments. Unless otherwise specified, references in this Permit to 40 CFR Part 63 testing and related requirements applicable to incinerators should be interpreted as applicable to the operating reactivation furnace (RF-2) and its associated equipment.)
 - I.K.1.a. The Permittees shall submit a Performance Demonstration Test (PDT) Work Plan meeting the requirements of Permit Condition I.K.1.c. to the Director for approval in accordance with Permit Condition I.G.5. within 120 days after the final Permit is made effective.
 - I.K.1.b. As for future PDTs, the Permittees shall conduct testing periodically in accordance with this Permit Condition I.K. and 40 CFR §§ 63.1207 and 63.1208. The date of commencement of each PDT is the basis for establishing the deadline to commence the subsequent PDT. The Permittees shall submit PDT Work Plans to the Director for approval *at least one year before the start date of each subsequent PDT*. The Permittees shall commence testing no later than 61 months after the date of commencing the previous PDT. Except as provided in Permit Condition I.K.1.c., the Permittees may conduct performance testing at any time prior to the required date. [See 40 CFR Part 60 and §§ 63.8(d) and (e), 63.9(g), 63.1206(c)(5)(ii), 63.1207, 63.1208, 264.344(a)(1) and 270.62.]
 - I.K.1.c. The Permittees shall submit PDT Work Plans to the Director for approval in accordance with Permit Condition I.G.5. PDT Work Plans must include a

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proposed schedule for performance of the PDT. The Permittees shall not undertake the performance of the PDT less than 60 days after the public notice required under Permit Condition I.K.1.f. Nor shall the Permittees undertake the performance of the PDT prior to the time the PDT Work Plan is approved by the Director. The PDT Work Plans shall be done in accordance with and must include the information listed at 40 CFR §§ 63.7, 63.8, 63.9(e), (f), (g) and (j), 63.1206(c)(5)(ii), 63.1207(b)(1), 63.1219 and 270.62(b)(2). The information provided in these regulatory provisions that are applicable to incinerators must be included in the PDT Work Plans, and address each performance parameter and emission limit set forth in Table V-4 of this permit. [See 40 CFR §§ 63.7, 63.8, 63.9(e), (f), (g) and (j), 63.1206(c)(5)(ii), 63.1207(b)(1), 63.1219, and 270.62(b)(2).]

- I.K.1.d. The portions of the PDT Work Plans addressing provisions for testing for SOx and NOx emissions during the PDT, shall reference EPA Test Method 6 for SOx (as SO2) and EPA Test Method 7 for NOx as provided in Appendix A of 40 CFR Part 60. [See Appendix A of 40 CFR Part 60.]
- I.K.1.e. Where appropriate, the Permittees shall incorporate into PDT Work Plans appropriate methods and/or performance specifications, as set forth in specifically applicable requirements and/or in the Appendices in 40 CFR Part 60. [See 40 CFR Part 60.]
- I.K.1.f. The Permittees shall make the PDT Work Plans available to the public for review no later than 60 calendar days before initiation of the test. The Permittees must also provide a public notice to all persons on the facility's mailing list announcing the availability of the PDT Work Plan and the location where the PDT Work Plan is available for review. The PDT Work Plans must be accessible to the public for 60 calendar days, beginning on the date of the public notice. The location must be unrestricted and provide access to the public during reasonable hours and provide a means for the public to obtain copies. The notification must, at a minimum, include the information identified at 40 CFR § 63.1207(e)(2). [See 40 CFR § 63.1207(e).]
- I.K.2. The Permittees shall complete performance testing *within 60 days* after the date of commencement of each of the PDTs in accordance with the approved PDT Work Plans. [See 40 CFR § 63.1207(d)(3).]

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- I.K.3. The Permittees shall submit to the Director for review and approval, in accordance with Permit Condition I.G.5., a PDT Report regarding the performance of the PDT *within 90 days* of the completion of each PDT.
 - I.K.3.a. The PDT Reports shall also include the results of the required CMS and CEMS Performance Tests, and the analysis of the parameters evaluated in accordance with Permit Condition I.K.1.
 - I.K.3.b. The PDT Reports shall also include the Permittees' recommendations, if any, regarding any appropriate modifications to permit conditions based on the results of one or more PDTs in accordance with Permit Condition I.G.8. and 40 CFR Part 270.
 - I.K.3.c. The PDT Reports shall also include the CMS and CEMS Performance Test results, and any other information that is required in notifications of compliance status and certifications for incinerators under 40 CFR § 63.9(h)(2).
- I.K.4. PDT Reports must include an assessment as to whether the operating parameters and emission limits set forth in Module V are being met with specific reference to the Group A1, Group A2, Group B and Group C parameters set forth in Module V of this Permit at Table V-2 Operating Limits and Parameters.
 - I.K.4.a. If a PDT Report concludes that such parameters or limits are not being met, the Permittees must comply with the AWFCO requirements of the SSMP and otherwise comply with Permit Condition V.C.5.v., as appropriate for the particular parameter or limit not being met.
 - I.K.4.b. When a PDT Report concludes that such operating parameters or emission limits are not being met, the Permittees shall cease processing hazardous waste except in accordance with the provisions of 40 CFR §§ 63.1207(l)(1)(i) and (ii) and 63.1207(l)(2)(i),(ii) and (iii), as appropriate. [See 40 CFR § 63.1207(l).]
 - I.K.4.c. Where 40 CFR §§ 63.1207(l)(1)(ii)(A) or (C), and/or 63.1207(l)(2)(ii) and (iii) require the submittal of a revised Notification of Compliance, the Permittees shall submit Supplemental PDT Report(s) to the Director for review and approval in accordance with Permit Condition I.G.5. within 90 days of any subsequent test(s). [See 40 CFR § 63.1207(l).]

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I.K.5. <u>Human Health and Ecological Risk Assessment</u>

- I.K.5.a. Within 90 days after the approval of a PDT Report, the Permittees shall submit a Human Health and Ecological Risk Assessment Work Plan to the Director for review and approval in accordance with Permit Condition I.G.5. The Work Plan should be consistent with good scientific principles. For example, the Permittees should consider EPA's current risk assessment guidance for combustion facilities and proposing the use of the latest air dispersion modeling software. The Risk Assessment Work Plans must include a proposed schedule for performance and completion of the Human Health and Ecological Risk Assessment.
- I.K.5.b. In accordance with the schedule set forth in the approved Human Health and Ecological Risk Assessment Work Plan, the Permittees shall submit a Draft Human Health and Ecological Risk Assessment to the Director for approval in accordance with Permit Condition I.G.5.
- I.K.5.c. Where an approved Human Health and Ecological Risk Assessment includes a recommendation for a modification of this Permit, the Permittees shall submit a request for such modification in accordance with Permit Condition I.G.8. and 40 CFR § 270.42. [See 40 CFR § 270.42.]
- I.K.6. RF-1 Closure. Within 90 days after the final permit is effective, the Permittees shall submit to EPA a closure activity notification designating the start date for the implementation of the schedule as specified in Section 9.0 of the Permit Attachment Appendix XVI. This closure activity notification, which will trigger the closure and dismantling of the non-operational reactivation furnace (RF-1) in accordance with the schedule set forth in Section 8.0 of the Permit Attachment Appendix XVI, shall include a start date that allows for completion of RF-1's closure no later than one (1) year from the effective date of this Permit. [See Sections 8.0 and 9.0 in Permit Attachment Appendix XVI.]
- I.K.7. Hopper H-1 Containment. The Permittees shall submit a work plan for implementation of the requirements for the secondary containment for Hopper H-1 (H-1 Work Plan) to the Director for approval in accordance with Permit Condition I.G.5. within 90 days after the final Permit is effective. The H-1 Work Plan shall include a schedule for implementation of the requirements for the secondary containment for Hopper H-1 and otherwise conform

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to the requirements of Permit Condition IV.F.6. This schedule shall provide for completion of implementation of the requirements for the secondary containment for Hopper H-1 no later than one (1) year from the effective date of this Permit. [See 40 CFR § 264.193.]

I.K.8. <u>Integrity Assessment/Leak Test</u>

- I.K.8.a. The Permittees shall have the integrity of Hopper H-1 assessed by a professional engineer *within 60 days after the final Permit is effective* in accordance with 40 CFR § 264.191. This assessment must include a leak test, as described in 40 CFR § 264.191, or other integrity examination that is certified by a qualified Professional Engineer in accordance with 40 CFR § 270.11(d), that addresses cracks, leaks, corrosion, and erosion. [See 40 CFR §§ 264.191, 264.193(i), and 270.11(d).]
- I.K.8.b. Until such time as the secondary containment for Hopper H-1 is implemented in accordance with Permit Conditions I.K.7, and IV.F.6.a., the Permittees must conduct a leak test, (or other integrity examination that meets the requirements of 40 CFR § 264.191), in accordance with 40 CFR § 264.193(i) and Permit Condition IV.F.6.b. to ensure the integrity of Hopper H-1. [See 40 CFR §§ 264.191, 264.193(i), and 270.11(d).]
- I.K.9. If the secondary containment for Hopper H-1 is not implemented within a year from the effective date of this Permit, as provided in accordance with Permit Conditions I.K.7., the Permittees shall submit to the Director a contingent closure plan and proof of financial responsibility meeting the requirements of 40 CFR § 264.197(c), incorporated herein by this reference. [See also Permit Conditions IV.F.6.b.iii. and IV.M.3., and 40 CFR § 264.197(c).]

I.K.10. 40 CFR Part 264, Subpart BB Compliance

I.K.10.a. The Permittees shall submit to the Director a request for a Permit Modification in accordance with Permit Condition I.G.7., with an accompanying revised Permit Attachment Section N and Subpart BB Compliance Plan (Permit Attachment Appendix XIX) within 120 days after the final permit is effective. The revised Permit Attachment Section N and Subpart BB Compliance Plan shall identify the equipment subject to 40 CFR Part 264, Subpart BB at the facility and, for each piece of equipment so identified, whether the Permittees elect to determine compliance with this Permit either by documentation pursuant to 40 CFR Part 264,

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Subpart BB, or by documentation of compliance with the regulations at 40 CFR Part 60, Part 61, or Part 63, pursuant to the relevant provisions of the regulations at 40 CFR Parts 60, 61, 63 and 264. [See 40 CFR Part 264, Subpart BB.]

- I.K.10.b. The revised Subpart BB compliance plan shall identify each piece of equipment that contains or contacts a hazardous waste with organic concentration that equals or exceeds 10% by weight using one of the methods described in 40 CFR § 264.1063(d). [See 40 CFR § 264.1063(d).]
- I.K.10.c. If revisions to Permit Attachment Section N and the Subpart BB Compliance Plan also necessitate any changes to the Waste Analysis Plan in order to comply with 40 CFR § 264.1063(d), the Permittees shall include a revised Waste Analysis Plan (WAP) with the Permit Modification request. [See 40 CFR § 264.1063(d).]
- I.K.10.d. The documentation of compliance elected by the Permittees in accordance with 40 CFR § 264.1064(m) shall be included in the facility operating record in accordance with Permit Condition II.M.1.ii. [See 40 CFR § 264.1064(m).]
- I.K.10.e. If the Permittees and EPA do not agree on whether a piece of equipment contains or contacts a hazardous waste with organic concentrations at least 10 percent by weight, the procedures in 40 CFR § 264.1063(d)(1) or (d)(2) shall be used to resolve the disagreement. [40 CFR § 264.1063(d)(1) or (d)(2) and Permit Attachment Appendix XIX.]
- I.K.11. Waste Carbon Feed Monitoring for Sulfur. The Permittees shall submit to the Director a request for a Permit Modification in accordance with Permit Condition I.G.7., with an accompanying revised Permit Attachment Section C, if necessary, and a revised Permit Attachment Appendix IV (Waste Analysis Plan) within 60 days after the final Permit is effective.
 - I.K.11. a. The revised Waste Analysis Plan shall include sampling for sulfur at the waste carbon feed every 6 hours to be composited and sent to the lab for analysis every 14 days.
 - I.K.11.b. The revised Waste Analysis Plan shall include a feed limit for sulfur oxides with reference to the limit expressed in Table V-1 of Module V of this Permit.

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- I.K.11.c. Once the revised Waste Analysis Plan is incorporated into the Permit, the Permittees are not authorized to feed in the RF-2 spent activated carbon that contains sulfur in concentrations exceeding permissible feed limits set forth in the revised Waste Analysis Plan in accordance with Module V, Table V-1.
- I.K.12. <u>Information Repository</u>. *Within 120 days of the effective date of this Permit*, the Permittees must establish an information repository that meets the requirements of 40 CFR § 124.33 and includes the records identified in Permit Exhibit I. *Within 150 days of the effective date of this Permit*, the Permittees shall send notice of the location of the information repository to all persons on the facility's mailing list. [See 40 CFR §§ 124.33, 270.30(m), Permit Condition I.J. and Permit Exhibit I.]
- I.K.13. <u>Training Outline</u>. *Within 120 days of the effective date of this Permit*, the Permittees shall submit to the Director a request for a Permit Modification in accordance with Permit Condition I.G.7., with an accompanying revised and updated Permit Attachment Section H (Personnel Training Program) and Permit Attachment Appendix XIV (Training Syllabus Outline and Training Summary) that, in addition to addressing the requirements of 40 CFR § 264.16, specifically address the requirements of 40 CFR § 63.1206(c)(6). [See 40 CFR § 63.1206(c)(6) and 264.16.]

I.L. INFORMAL DISPUTE RESOLUTION (IDR)

- I.L.1. Where the informal dispute resolution procedures of this Permit Condition I.L. are expressly identified as applicable, the following procedures shall apply:
 - I.L.1.a. The Permittee(s) may invoke the dispute resolution procedures by sending an Informal Dispute Resolution ("IDR") Notice to the Director in writing in accordance with Permit Conditions I.G.1. and I.G.2. Within the first fourteen (14) days after receipt of any such Notice, (the "informal dispute resolution period"), the Permittee(s) and the EPA staff person(s) responsible for the matter under dispute (the "permitting staff") will attempt to resolve any disputes informally. If requested by either of the Permittees, a meeting should be held between the permitting staff and the Permittee(s) and/or their representative(s) to discuss the matter. Unless otherwise agreed to by the permitting staff, the meeting will be held at the EPA Region 9's office in San Francisco, California, or by video or teleconference.

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- I.L.1.b. If agreement is not reached between the permitting staff and the Permittee(s) within the fourteen (14) day informal dispute resolution period, and the Permittee(s) wish to continue the IDR process, the Permittee(s) must submit written arguments and evidence to the Director. The written arguments and evidence shall be submitted to the Director within thirty (30) days of the end of the informal dispute resolution period (*i.e.*, within 44 days after EPA's receipt of the IDR Notice) at the address identified in Permit Condition I.G.1.
- I.L.1.c. If written arguments and evidence are submitted by the Permittee(s) to the Director, the Director will resolve the dispute within a reasonably prompt time period. The Director's resolution of the dispute shall include a written response to the evidence and arguments submitted by the Permittee(s). The Permittee(s) shall comply with the Director's decision regardless of whether the Permittee(s) agree with the decision. The Director's resolution of the dispute is not subject to administrative or judicial appeal.
- I.L.2. Unless otherwise agreed to by the Director, invocation of IDR by the Permittee(s) shall not extend, postpone, or affect in any way any obligation of the Permittee(s) under this Permit not directly in dispute.

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MODULE II - GENERAL FACILITY CONDITIONS

II. GENERAL FACILITY DESCRIPTION

Spent carbon is trucked to the Facility in several kinds of containers (e.g., drums, vessels, supersacks, roll-off bins, etc.) or in tanker trucks. The spent carbon typically contains benzene or other volatile organic compounds (VOCs). The spent carbon is either introduced to the carbon regeneration system at the Facility upon receipt via one of two hoppers (H-1 or H-2) or it is moved to the Container Storage Area to be put in the hoppers later. The spent carbon is transferred from the hoppers to one of four Spent Carbon Storage Tanks (T-1, T-2, T-5, or T-6). During the transfer, water is added to the spent carbon, creating a slurry, to help in pumping the spent carbon from the hoppers to the storage tanks. From the storage tanks, the spent carbon is transferred in slurry form to the furnace Feed Tank (T-18). The spent carbon in its slurry form then gets sent from T-18 through a dewatering screw where the carbon slurry gets dewatered. The dewatered carbon then gets on the weigh belt where it is weighted and sampled, before it is fed to the operating Carbon Regeneration Furnace (RF-2).. The regenerated carbon is cooled in a cooling screw and is then sent to the product storage area for commercial packaging. Wastewater is processed through the waste water treatment system and is discharged to the local publically owned treatment works pursuant to a Clean Water Act discharge permit.

II.A. DESIGN AND OPERATION OF FACILITY

- II.A.1. The Permittees shall maintain and operate the Facility to minimize the possibility of a fire, explosion, or any unplanned, sudden or non-sudden release of hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment. [See 40 CFR § 264.31.]
- II.A.2. Except for those requirements set forth in 40 CFR §§270.4(a)(1)(i) (iv), the Permittees are prohibited from any storage or treatment activity not specifically described in this Permit except insofar as the Permittees' hazardous waste generation, accumulation or less than 90 day storage activities are governed by 40 CFR Part 262. [See 40 CFR Part 262 and §§ 270.1(c) and 270.4(a)(1)(i) (iv).]

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- II.A.3. The Permittees shall not store on land or land dispose of any hazardous waste on or at the Facility, whether temporarily or permanently. The Permittees shall comply with all applicable land disposal restriction requirements, including the prohibition on storage of restricted waste for over a year. [See 40 CFR Part 268].
- II.A.4. Any Permittee-initiated modifications to the units designated in this Permit shall first be the subject of a Permit Modification request in accordance with Permit Condition I.G.7. and the permit modification procedures of 40 CFR § 270.42. [See 40 CFR § 270.42.]
- II.A.5. The Permittees may store hazardous waste generated on-site in accordance with the provisions of 40 CFR Part 262. Any hazardous waste generated on-site that is to be treated on-site, or disposed of or transported off-site must be stored, handled, treated, transported and otherwise managed in accordance with the regulations applicable to hazardous waste generators at 40 CFR Part 262 and any other applicable requirements, such as 40 CFR Part 265 Subpart BB or requirements listed under 40 CFR §§ 270.4(a)(1)(i)-(iv), or this Permit. [See 40 CFR Part 262, 40 CFR Part 265, Subpart BB and §§ 270.1(c) and 270.4(a)(1)(i)-(iv).]
- II.A.6. No less often than annually, the Permittees must certify, in accordance with 40 CFR § 264.73(b)(9), that there is a program in place to reduce the volume and toxicity of hazardous waste that is generated on-site to the degree economically practicable and that the proposed method of treatment, storage or disposal is that practicable method currently available to the Permittees which minimizes the present and future threat to human health and the environment. A copy of the certification must be maintained in the operating record in accordance with Permit Conditions I.E.9.b and II.M.1. [See 40 CFR § 264.73(b)(9) and Permit Conditions I.E.9.b., and II.M.1.]

II.B. REQUIRED NOTICES

II.B.1. If the Permittees expect to receive hazardous waste from a foreign source, the Permittees shall notify the Regional Administrator in writing at the address below

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at least four weeks in advance of the date the waste is expected to arrive at the facility. Notice of subsequent shipments of the same waste from the same foreign source in the same calendar year is not required. [See 40 CFR § 264.12(a)(1).]

Regional Administrator US EPA, Region 9 Mail Code: ORA-1 75 Hawthorne St. San Francisco, CA 94105

II.B.2. When the Permittees are to receive hazardous waste from an off-site source (except where either Permittee is also the generator), they must inform the generator in writing that they have the appropriate hazardous waste Permit, and will accept the waste the generator is shipping. The Permittees must keep a copy of this written notice as part of the Facility's operating record in accordance with 40 CFR § 264.73. [See 40 CFR §§ 264.12(b) and 264.73.]

II.C. GENERAL WASTE ANALYSIS

- II.C.1. The Permittees shall follow the waste analysis procedures in accordance with 40 CFR § 264.13, Permit Attachment Section C, and the Waste Analysis Plan, Permit Attachment Appendix IV. [See 40 CFR §264.13.]
- II.C.2. The Permittees shall review the analysis of each waste stream provided by the generator as part of their quality assurance program in accordance with the frequencies set forth in the Waste Analysis Plan, Permit Attachment Appendix IV.
- II.C.3. If an on-site lab is used, then the Permittees shall maintain proper functional instruments, use approved sampling and analytical methods, verify the validity of sampling and analytical procedures, and perform correct calculations.
- II.C.4. If the Permittees use a contract or other off-site laboratory to perform analyses, then the Permittees shall inform the laboratory in writing that it must operate under the waste analysis conditions set forth in this Permit. Any failure of the

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laboratory to operate under the waste analysis conditions set forth in this Permit shall constitute a violation of the Permit by the Permittees. [See 40 CFR §264.13 and the Waste Analysis Plan, Permit Attachment Appendix IV.]

- II.C.5. The Director, the Enforcement Director, or either's designee reserve the right to audit the on-site laboratory or the off-site laboratory utilized by the Permittees at any time.
- II.C.6. The Director, the Enforcement Director, or either's designee reserve the right to sample the waste steam at the weigh belt to ensure compliance with this Permit.
- II.C.7. The Permittees shall review the Waste Analysis Plan at least every two calendar years to determine if it is in compliance with current RCRA regulations and otherwise meets the needs of the Facility in accordance with Section 7.0 of the Waste Analysis Plan, Permit Attachment Appendix IV, incorporated herein by this reference. [See Section 7.0 of the Waste Analysis Plan, Permit Attachment Appendix IV.]
- II.C.8. The Permittees shall comply with the test methods and procedural requirements described in 40 CFR § 264.1063 in accordance with the RCRA Subpart BB standards, where applicable, Permit Attachment Section N and Permit Attachment Appendix XIX, incorporated herein by this reference. [See 40 CFR § 264.1063, Permit Attachment Section N and Permit Attachment Appendix XIX. See also Permit Condition I.K.10.]
- II.C.9. At the request of the Director, the Permittees shall perform a waste determination for a hazardous waste managed in any tank or container exempted from using air emission controls under the provisions of 40 CFR § 264.1082. [See 40 CFR § 264.1082(d).]

II.D. SECURITY

II.D.1. The Permittees shall comply with the security provisions of 40 CFR §264.14. The treatment process and operating areas of the Facility are surrounded by a fence as depicted on the Reactivation Facility Site Plan (D14789-08) contained

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in Permit Attachment Appendix III. This Reactivation Facility Site Plan also shows gates for the Facility. All gates and building entrances must be locked or monitored when open. Additional access control requirements for the Facility are contained in Permit Attachment Section F (Procedures to Prevent Hazards), incorporated herein by this reference. [See 40 CFR § 264.14.]

- II.D.2. The Permittees shall prevent, and minimize the possibility for, livestock and unauthorized people from entering the Facility. [See 40 CFR § 264.14(a).]
- II.D.3. The Permittees shall post and maintain a sign at each entrance to the Facility, and at other prominent locations, in sufficient numbers to be seen from any approach to the Facility. The sign shall bear the legend "Danger Unauthorized Personnel Keep Out". The legend shall be in English and in Spanish and must be legible from a distance of at least 25 feet. The Permittees may use existing signs with a legend other than "Danger--Unauthorized Personnel Keep Out" if the legend on the sign indicates that only authorized personnel are allowed to enter the Facility, and that entry onto the Facility can be dangerous. [See 40 CFR § 264.14(c).]

II.E. GENERAL INSPECTION REQUIREMENTS

- II.E.1. The Permittees shall follow the inspection schedule as per Permit Attachment Section F and Permit Attachment Appendix XII and shall comply with the requirements of 40 CFR § 264.15. [See 40 CFR § 264.15.]
- II.E.2. The Permittees shall inspect the facility for malfunctions and deterioration, operator errors, and discharges that may be causing, or may lead to any release of hazardous waste constituents to the environment or any threat to human health. The Permittees shall conduct these inspections often enough to identify problems in time to correct them before they result in harm to human health or the environment. [See 40 CFR § 264.15(a).]
- II.E.3. The inspection should include at a minimum, monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment (such as dikes and sump pumps) that are important to preventing, detecting, or responding to environmental or human health hazards. Areas subject to spills,

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such as loading and unloading areas, shall be inspected daily when in use. [See 40 CFR 264.15(b). See also Table V-3 in Module V.]

- II.E.4. The Permittees shall remedy any deterioration or malfunction discovered by an inspection in accordance with 40 CFR §§ 264.15(c) and 264.171. [See 40 CFR §§ 264.15(c) and 264.171.]
- II.E.5. The Permittees shall record all inspections. The Permittees shall keep these records for at least three years from the date of inspection. At a minimum, the Permittees must include the date and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial actions. [See 40 CFR § 264.15(d).]

II.F. MAINTENANCE AND OPERATION

- II.F.1. The Permittees shall maintain, calibrate, and operate the Facility in accordance with this Permit and Table V-3 in Module V. [See 40 CFR § 264.15 and Table V-3 in Module V.]
- II.F.2. The Permittees shall maintain the SWMUs, HWMUs, and AOCs and their equipment in good operating condition.

II.G. PERSONNEL TRAINING

- II.G.1. The Permittees shall conduct personnel training in accordance with 40 CFR § 264.16, and in accordance with Permit Attachment Section H and Permit Attachment Appendix XIV, both of which are incorporated herein by this reference. [See 40 CFR § 264.16.]
- II.G.2. The Permittees shall maintain training documents and records in accordance with 40 CFR §§ 264.16(d) and (e). [See 40 CFR §§ 264.16(d) and (e).]

II.H. SPECIAL PROVISIONS FOR CERTAIN WASTES

II.H.1. The Permittees are prohibited from storing or treating hazardous waste that is not

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identified in Table II-2.

TABLE II-2 - PERMITTED HAZARDOUS WASTE

Description of permitted hazardous waste D001, D004, D005, D006, D007, D008, D009, D010, D011, D012, D013, D014, D015, D016, D017, D018, D019, D020, D021, D022, D023, D024, D025, D026, D027, D028, D029, D030, D031, D032, D033, D034, D035, D036, D037, D038, D039, D040, D041, D042, D043. F001, F002, F003, F004, F005, F006, F012, F019, F025, F035, F037, F038, F039 (except for F039 that contains dioxin or furans). K001, K002, K003, K004, K005, K006, K007, K008, K009, K010, K014, K015, K016, K017, K018, K019, K020, K022, K023, K024, K025, K026, K029, K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041, K042, K046, K048, K049, K050, K051, K052, K061, K064, K065, K066, K071, K073, K083, K084, K085, K086, K087, K088, K090, K091, K093, K094, K095, K096, K097, K098, K100, K101, K102, K103, K104, K105, K106, K112, K113, K114, K115, K116, K117, K118, K125, K126. P001, P002, P003, P004, P005, P007, P008, P010, P011, P012, P013, P014, P015, P016, P017, P018, P020, P021, P022 (rust), P023, P024, P026, P027, P028, P029, P030, P031, P033, P034, P036, P037, P038, P039, P040, P041, P042, P043, P044, P045, P046, P047, P048, P049, P050, P051, P054, P056, P057, P058, P059, P060, P062, P063, P064, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P077, P078, P082, P084, P085, P087, P088, P089, P092, P093, P094, P095, P096, P097, P098, P099, P101, P102, P103, P104, P105, P108, P109, P110, P113, P114, P115, P116, P118, P119, P120, P121, P123. U001, U002, U003, U004, U005, U007, U008, U009, U010, U011, U012, U014, U015, U016, U017, U018, U019, U022, U024, U025, U026, U027, U028, U029, U030, U031, U032, U034, U035, U036, U037, U038, U039, U041, U042, U043, U044, U045, U046, U047, U048, U049, U050, U051, U052, U053, U055, U056, U057, U058, U059, U060, U061, U062, U063, U064, U066, U067, U068, U069, U070, U071, U072, U073, U074, U075, U076, U077, U078, U079, U080, U081, U082, U083, U084, U085, U086, U087,

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U088, U089, U090, U091, U092, U093, U094, U095, U097, U098, U099, U101, U102, U103, U105, U106, U107, U108, U109, U110, U111, U112, U113, U114, U115, U116, U117, U118, U119, U120, U121, U122, U124, U125, U126, U127, U128, U129, U130, U131, U132, U135, U136, U137, U138, U140, U141, U142, U143, U144, U145, U146, U147, U148, U149, U150, U151, U152, U153, U154, U155, U156, U157, U158, U159, U161, U162, U163, U164, U165, U166, U167, U168, U169, U170, U171, U172, U173, U174, U176, U177, U178, U179, U180, U181, U182, U183, U184, U185, U186, U187, U188, U190, U191, U192, U193, U194, U196, U197, U200, U201, U202, U203, U204, U206, U207, U208, U209, U210, U211, U213, U214, U215, U216, U217, U218, U219, U220, U221, U222, U225, U226, U227, U228, U235, U236, U237, U238, U239, U240, U243, U244, U246, U247, U248, U249, U328, U353, U359.
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- II.H.2. The Permittees shall follow the procedures for handling ignitable and incompatible waste and otherwise comply with the requirements of 40 CFR § 264.17. The Permittees shall follow the procedures for handling ignitable wastes set forth in Permit Attachment Section C, incorporated herein by this reference. [See 40 CFR § 264.17 and Permit Attachment Section C, at C.2.4.]
- II.H.3. Waste received from off-site may only be stored at the Facility if it is to be regenerated through thermal treatment in RF-2.
- II.H.4. The Permittees shall comply with the requirements for Air Emission Standards for Equipment Leaks (40 CFR Part 264, Subpart BB) in accordance with Permit Application Appendix XIX and Permit Attachment Section N, incorporated herein by this reference. [See 40 CFR § 264.1050 *et seq.*, including 40 CFR § 264.1063(f), and Permit Condition I.K.10.]
- II.H.5. The Permittees shall not accept, store, consolidate or treat any of the following:
 - II.H.5.a. Radioactive or nuclear wastes regulated by the U.S. Department of Energy and U.S. Nuclear Regulatory Commission including any spent carbon contaminated with such material;
 - II.H.5.b. Wastes associated with dioxins and/or furans (*e.g.* F020, F021, F022, F023, F026, F027, F028, F032, K043, K099, K156, K158, K174, K178, P127, and/or P189)

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including any spent carbon contaminated with such material;

- II.H.5.c. Leachate from the disposal of more than one restricted waste (F039) including any spent carbon contaminated with such material if it contains wastes associated with dioxins and/or furans (*e.g.* F020, F021, F022, F023, F026, F027, F028, F032, K043, K099, K156, K158, K174, K178, P127, and/or P189), [See definition of "Dioxins and furans" in 40 CFR 260.10.];
- II.H.5.d. Wastes regulated under the Toxic Substances Control Act (TSCA) that contain levels of polychlorinated biphenyls (PCBs) equal to or greater than 50 mg/Kg (ppm), or where the source of the PCBs is equal to or greater than 50 ppm including any spent carbon contaminated with such material;
- II.H.5.e. Medical or infectious wastes including any spent carbon contaminated with such material; or
- II.H.5.f. RCRA mixed waste (radioactive and hazardous waste) including any spent carbon contaminated with such material.
- II.H.5.g. Corrosive (D002) or reactive waste (D003) including spent carbon containing corrosive or reactive waste.
- II.H.5.h. Benzedine-contaminated waste (U021) including spent carbon containing benzedine.

II.I. LOCATION STANDARDS

The Facility is not within a 100-year floodplain. In the event of a flood, the Permittees shall remove all hazardous waste, before flood waters can reach the Facility, to a location where the wastes will not be vulnerable to the flood waters. [See 40 CFR § 264.18(b), Permit Attachment Section B and Permit Attachment Appendix II.]

II.J. PREPAREDNESS AND PREVENTION

II.J.1. Required Equipment

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At a minimum, the Permittees shall maintain the following at the Facility:

- An internal communications or alarm system at or near areas of the Facility where hazardous waste is stored, treated or otherwise managed that is or are capable of providing immediate emergency instruction (voice or signal) to facility personnel;
- A device, such as a telephone (immediately available at the scene of operations) or a hand-held two-way radio, capable of summoning emergency assistance from local police departments, fire departments, or State or local emergency response teams;
- Portable fire extinguishers, fire control equipment (including special extinguishing equipment, such as that using foam, inert gas, or dry chemicals), spill control equipment, and decontamination equipment; and
- Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems. [See 40 CFR § 264.32.]

II.J.2. Testing And Maintenance Of Emergency Equipment

The Permittees shall test and maintain all the communications and alarm systems, fire protection equipment, spill control equipment, and decontamination equipment, as necessary, to assure its proper operation in time of emergency. Specific testing and maintenance procedures are included in the inspection schedule in Permit Attachment Section F and in Permit Attachment Appendix XII. [See 40 CFR § 264.33.]

II.J.3. Access To Communications Or Alarm System

Whenever hazardous waste is being poured, mixed, spread, or otherwise handled, the Permittees shall ensure that all personnel involved in the operation have immediate access to an internal alarm or emergency communication device, either directly or through visual or voice contact with another employee. If there is ever just one employee on the premises while the Facility is operating, the Permittees shall ensure that he or she has immediate access to a device, such as a telephone (immediately available at the scene

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of operation) or a hand-held two-way radio, capable of summoning external emergency assistance. [See 40 CFR § 264.34.]

II.J.4. Required Aisle Space

The Permittees shall maintain adequate aisle space at the Facility in accordance with Permit Attachment Section D, Permit Attachment Appendix III, and Permit Attachment Appendix VII. At a minimum, the Permittees shall maintain aisle space to allow the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of facility operation in an emergency and for the purposes of conducting inspections. [See 40 CFR § 264.35.]

II.J.5. Arrangements with Local Authorities

The Permittees shall maintain arrangements with the appropriate state, local, and Colorado River Indian Tribes (CRIT) authorities in accordance with 40 CFR § 264.37. The Permittees shall periodically update the arrangements, at least every five years from the effective date of this Permit. If state, local, or CRIT officials refuse to renew the preparedness and prevention arrangements with the Permittees, the Permittees must get this refusal in writing and document this refusal and maintain such documentation in the Facility's operating record until closure is completed and certified. The Permittees shall also notify the Director of the Waste Management Division of this refusal by the local authority(ies). [See 40 CFR §§ 264.37, Permit Attachment Section G and Permit Appendix XIII.]

II.K. CONTINGENCY PLAN

II.K.1. <u>Implementation of Plan</u>

The Permittees shall comply with the requirements of 40 CFR §§264.50 through 264.56. The Permittees must immediately carry out the provisions of the Contingency Plan, Permit Attachment Section G and Permit Attachment Appendix XIII, whenever there is a fire, explosion, or release of hazardous waste or constituents which could threaten human health or the environment. [See 40 CFR §§ 264.50 through 264.56.]

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II.K.2. Copies of Plan

The Permittees shall maintain a copy of the Contingency Plan at the Facility, including all revisions to the plan and must submit a copy (and a copy of all revisions) to all local police departments, fire departments, hospitals, and state and local emergency response teams that may be called upon to provide emergency services. The Contingency Plan, Permit Attachment Section G and Permit Attachment Appendix XIII is hereby incorporated into this Permit by this reference. [See 40 CFR § 264.53.]

II.K.3. Amendments to Plan

- II.K.3.a. The Permittees shall review and immediately amend, if necessary, the Contingency Plan, whenever:
 - II.K.3.a.i. The facility permit is revised;
 - II.K.3.a.ii. The plan fails in an emergency;
 - II.K.3.a.iii. The facility changes—in its design, construction, operation, maintenance, or other circumstances—in a way that materially increases the potential for fires, explosions, or releases of hazardous waste or hazardous waste constituents, or changes the response necessary in an emergency;
 - II.K.3.a.iv. The list of emergency coordinators changes; or
 - II.K.3.a.v. The list of emergency equipment changes. [See 40 CFR § 264.54.]
- II.K.3.b. The Permittees shall submit to the Director a request for a Permit Modification in accordance with Permit Condition I.G.7., with the accompanying amended Contingency Plan. [See 40 CFR § 270.42.]

II.K.4. Emergency Coordinator

The Permittees shall ensure that a trained emergency coordinator is available at all times at the Facility or on call in case of an emergency, in accordance with 40 CFR § 264.55.

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[See 40 CFR §§ 264.52(d) and 264.55.]

II.L. MANIFEST SYSTEM

- II.L.1. The Permittees shall comply with the manifest requirements of 40 CFR §§264.70, 264.71, 264.72, and 264.76. [See 40 CFR §§ 264.70, 264.71, 264.72, and 264.76. See also § 270.30(1)(7) and (8).]
 - II.L.1.a. If a significant discrepancy in a manifest is discovered, the Permittees must attempt to reconcile the discrepancy. If not resolved within fifteen days, the Permittees must submit a letter report, including a copy of the manifest, to the Director. [See 40 CFR §§264.72 and 270.30(l)(7).]
 - II.L.1.b. An unmanifested waste report must be submitted to the Director within 15 days of receipt of unmanifested waste. [See 40 CFR §§264.76 and 270.30(l)(8).]
 - II.L.1.c. Pursuant to 40 CFR § 264.71, electronic manifests that are obtained, completed, and transmitted in accordance with §262.20(a)(3) and used in accordance with 40 CFR § 264.71 in lieu of the paper manifest form are the legal equivalent of paper manifest forms bearing handwritten signatures, and satisfy for all purposes any requirement to obtain, complete, sign, provide, use, or retain a manifest. [See 40 CFR §§ 262.20(a)(3) and 264.71.]

II.M. RECORDKEEPING AND REPORTING

In addition to the recordkeeping and reporting requirements specified elsewhere in this Permit, the Permittees shall do the following:

II.M.1. Operating Record

II.M.1.a. The Permittees shall maintain a written operating record at the facility in accordance with 40 CFR § 264.73. [See 40 CFR § 264.73.]

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- II.M.1.b. The Permittees shall record and maintain, in the operating record for this Permit, all monitoring, inspection, and other data compiled under the requirements of this Permit in accordance with 40 CFR §§ 63.1211, 264.73 and 264.1064. The Permittees shall also maintain the test burn reports, data, and calculations in the operating record. [See Permit Condition I.K. and 40 CFR §§ 63.1211, 264.73 and 264.1064.]
- II.M.1.c. The Permittees shall maintain, in the operating record for this Permit, the manuals listed in the Operating and Maintenance Manuals Maintained on Site Table identified in Permit Attachment Appendix XXI. Whenever the list of manuals needs to be revised, the Permittees shall submit a request for a Permit Modification in accordance with Permit Condition I.G.7. along with the accompanying revised Table. [See 40 CFR §§ 63.8(c)(3) and 63.1209(b)(2).]
- II.M.1.d. The Permittees shall maintain, in the operating record for this Permit, the site specific CMS quality control performance evaluation test plan procedures in accordance with 40 CFR § 63.8(d). [See 40 CFR § 63.8(d).]

II.M.2. Reporting Requirements

The Permittees shall comply with the reporting requirements of 40 CFR §§ 61.357, 63.1211, 264.77, 264.1089 and 264.1090, as appropriate. To the extent that the cited regulatory requirements call for overlapping reporting of information, the Permittees may merge the information into one or more reports and need not provide duplicative information. [See 40 CFR §§ 61.357, 63.1211, 264.77, 264.1089 and 264.1090.]

II.M.3. Biennial Report

The Permittees shall comply with the biennial reporting requirements of 40 CFR §264.75. [See 40 CFR §§ 264.75 and 270.30(l)(9).]

II.M.4. Subpart BB Recordkeeping and Reporting

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In accordance with 40 CFR § 264.1064(m), if any "equipment" at the facility, as defined at 40 CFR § 264.1031, contains or contacts hazardous waste with an organic concentration of at least 10 percent by weight for 300 hours or more per calendar year and is subject to regulations at 40 CFR Part 60, Part 61, or part 63 and the Permittees elect to determine compliance with 40 CFR Part 264, Subpart BB by documentation of compliance with the regulations at 40 CFR Part 60, Part 61, or Part 63 pursuant to the relevant provisions of the regulations at 40 Part 60, Part 61, or Part 63, the documentation of compliance under the regulations at 40 CFR Part 60, Part 61, or Part 63 shall be kept with or made readily available with the facility operating record. Otherwise, the Permittees shall comply with the recordkeeping and reporting requirements described in 40 CFR §§ 264.1064 and 264.1065 in accordance with the RCRA Subpart BB standards, Permit Attachment Section N and Permit Attachment Appendix XIX, incorporated herein by this reference. [See 40 CFR §§ 264.1031, 264.1064 and 264.1065, Permit Attachment Section N and Permit Attachment Appendix XIX. See also Permit Condition I.K.10.]

II.M.5. Application Recordkeeping

Except as provided in Permit Condition I.J., the Permittees shall comply with the recordkeeping requirements described in 40 CFR § 270.10(i). [See 40 CFR § 270.10(i).]

II.N. GENERAL CLOSURE REQUIREMENTS

II.N.1. Performance Standard

II.N.1.a. The Permittees shall close the Facility in accordance with Permit Conditions III.L., IV.M., and V.H., and 40 CFR Part 264, Subpart G, (40 CFR §§264.110 et seq.), Permit Attachment Section I, and Permit Attachment Appendices XV and XVII, each of which is incorporated herein by this reference. [See 40 CFR Part 264, Subpart G, (40 CFR §§264.110 et seq.), the RCRA Facility Closure Plan, Permit Attachment Section I, and Permit Attachment Appendices XV and

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XVII.]

II.N.1.b. The Permittees shall close RF-1 in accordance with Permit Conditions I.K, and V.H., and 40 CFR Part 264, Subpart G, (40 CFR §\$264.110 et seq.), RF-1 Closure Plan, Permit Attachment Section I, and Permit Attachment Appendices XVI and XVII, each of which is incorporated herein by this reference. [See 40 CFR Part 264, Subpart G, (40 CFR §\$264.110 et seq.), RF-1 Closure Plan, Permit Attachment Section I, and Permit Attachment Appendices XVI and XVII.]

II.N.2. Closure Plan Review

The Director reserves the right to review the closure plans at any time to ensure both contain all the requirements to meet the closure requirements of 40 CFR Part 264, Subpart G, (40 CFR §§264.110 *et seq.*). This review may include any unusual activities, notices of violation, and inspection reports. [See 40 CFR Part 264, Subpart G.]

II.N.3. Amendment to Closure Plans

- II.N.3.a. The Permittees shall amend either or both the RCRA Facility Closure Plan and the RF-1 Closure Plan, in accordance with 40 CFR §264.112(c), whenever necessary. [See 40 CFR § 264.112.]
- II.N.3.b. If the Director determines at any time that either or both closure plans require modification, the Permittees shall modify either or both closure plans as appropriate to incorporate findings identified by the Director's review in accordance with 40 CFR §§264.112(c)(4) and 270.42. [See 40 CFR §§ 264.112 and 270.42.]
- II.N.3.c. If, prior to the time the notice of closure required by Permit Condition II.N.4. is submitted, the Permittees determine that an amendment to the Closure Plan is appropriate, the Permittees shall submit to the Director a request for a Permit Modification in accordance with Permit Condition I.G.7., with an accompanying revised closure plan at least

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180 days before initiation of closure activities in accordance with 40 CFR § 270.42. [See 40 CFR § 270.42.]

II.N.4. Notification of Closure

In addition to the Notice of Closure of RF-1 required by Permit Condition I.K., the Permittees shall notify the Director in writing at least 60 days prior to the date on which they expect to begin closure of any additional part of the Facility or to begin final closure of the Facility. [See 40 CFR § 264.112(d).]

II.N.5. Time Allowed For Closure

Within 90 days after receiving the final volume of hazardous waste, the Permittees shall treat, remove from the unit or Facility, or dispose of on-site all hazardous waste and shall complete closure activities, in accordance with 40 CFR § 264.113 and the schedules specified in the Closure Plans, Permit Attachment Section I and Appendices XV and XVI. [See 40 CFR §§ 264.113 and 270.42.]

II.N.6. Disposal or Decontamination of Equipment, Structures, and Soils

The Permittees shall decontaminate and dispose of all contaminated equipment from the Facility, support structures, and soils in accordance with 40 CFR § 264.114 and the Closure Plans, Permit Attachment Section I, and Permit Attachment Appendices XV and XVI. [See 40 CFR § 264.114.]

II.N.7. Certification of Closure

The Permittees shall certify that the Facility has been closed in accordance with 40 CFR § 264.115 and the specifications in the Closure Plans, Permit Attachment Section I, and Permit Attachment Appendices XV and XVI. [See 40 CFR § 264.115.]

II.O. GENERAL POST-CLOSURE REQUIREMENTS

If waste is left in place (e.g. equipment, platforms, SWMUs), the Permittees shall submit

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a post-closure permit application in accordance with the requirements of 40 CFR Part 264, Subpart G. [See 40 CFR §§ 264.117 through 264.120.]

II.P. COST ESTIMATE FOR FACILITY CLOSURE

II.P.1. The Permittees' most recent closure cost estimates, for facility-wide closure and RF-1 closure, respectively, are specified in Attachment 4 to the Closure Plan, Permit Attachment Section I, and Permit Attachment Appendix XV and Attachment 4 to the RF-1 Closure Plan, Permit Attachment Section I and Permit Attachment Appendix XVI, which are each incorporated herein by this reference. [See 40 CFR §§ 264.142, 264.144, 264.197(c)(3) and (5), 264.228(c)(2), and 264.258(c)(2).]

II.P.2.

- II.P.2.a. The Permittees must adjust the closure cost estimate for inflation within 60 days prior to each annual anniversary date of the establishment of the financial instrument(s) used to comply with 40 CFR § 264.143. [40 CFR § 264.142(b).]
- II.P.2.b. If at any time during the operation of the Facility, the Permittees use a financial test or corporate guarantee to meet the financial responsibility requirements in accordance with 40 CFR §264.143(f), the Permittees must adjust the closure cost estimate for inflation within 30 days after the close of owner or operator's fiscal year, as appropriate, and before submission of updated information to the Director in accordance with 40 CFR § 264.142(b). [See 40 CFR § 264.142(b).]
- II.P.3. The Permittees must revise either or both closure cost estimates whenever there is a change in either or both of the Facility's Closure Plans in accordance with 40 CFR § 264.142(c). [See 40 CFR § 264.142(c).]
- II.P.4. The Permittees must keep the latest closure cost estimates (for RF-1 and the Facility-wide closure) at the Facility in accordance with 40 CFR § 264.142(d). [See 40 CFR § 264.142(d).]

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II.P.5. New, updated or revised financial assurance instruments and updated cost estimates must be submitted to the Director in accordance with 40 CFR §§ 264.142 and 264.143. [40 CFR §§ 264.142 and 264.143.]

II.Q. FINANCIAL ASSURANCE FOR FACILITY CLOSURE

The Permittees shall demonstrate continuous compliance with the requirements of 40 CFR § 264.143 by providing documentation of financial assurance, as required by and in accordance with 40 CFR § 264.151, in at least the amount of the cost estimates required by Permit Condition II.P. Requests for changes in financial assurance mechanisms demonstrating compliance with this Permit Condition II.Q. shall be submitted to the Director for review and approval in accordance with Permit Condition I.G.5. before being implemented. [See 40 CFR §§ 264.143 and 264.151.]

II.R. LIABILITY REQUIREMENTS

The Permittees shall demonstrate continuous compliance with the requirement of 40 CFR § 264.147(a) to have and maintain liability coverage for sudden and accidental occurrences in the amount of at least \$1 million per occurrence, with an annual aggregate of at least \$2 million, exclusive of legal defense costs. [See 40 CFR § 264.147(a).]

II.S. <u>INCAPACITY OF OWNERS OR OPERATORS, GUARANTORS, OR FINANCIAL</u> INSTITUTIONS

The Permittees shall comply with 40 CFR § 264.148, whenever applicable. [See 40 CFR § 264.148.]

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MODULE III - CONTAINERS

III.A. APPLICABILITY

This Module provides requirements for any containers used to store or treat hazardous waste at the Facility, including those received from off-site sources. Waste analysis requirements are contained in Module II, in Permit Condition II.C., in Permit Attachment Section C, and in Permit Attachment Appendix IV, the Waste Analysis Plan. [See 40 CFR § 264.13.]

III.B. GENERAL REQUIREMENTS FOR CONTAINERS

- III.B.1. The Permittees shall not manage, store, treat, and/or consolidate hazardous waste in containers other than in the designated container storage areas listed in Table III-1 below. [See 40 CFR § 264.170.]
- III.B.2. The Permittees must maintain the Spent Carbon Container Storage Area containment capacity of at least 10,000 gallons. [See 40 CFR § 264.175(b)(3).]
- III.B.3. The Permittees shall not manage, store, and/or consolidate containers of hazardous wastes in excess of the maximum capacities for each individual container storage area identified in Table III-1.

TABLE III-1 CONTAINER STORAGE AREAS, SATELLITE ACCUMULATION AREAS, AND DESIGN CAPACITIES

Description	Location*	Capacity
Spent Carbon Container	Warehouse	100,000 gallons
Storage		
Satellite accumulation	North side of container	55 gallons
area	storage area	
Satellite accumulation	South side of container	55 gallons
area	storage area	
Satellite accumulation	East of control room	55 gallons or less
area		

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Description	Location*	Capacity
Satellite accumulation	Facility on-site	55 gallons or less
area	screening laboratory	
Container storage area for	South east of H-1	40 cubic yards or
waste generated on-site	hopper	less per bin

^{*} Note: Locations may vary due to facility needs. Permit Attachment Appendix III contains diagrams and maps with unit locations

- III.B.3. The Permittees must manage all containers used to store or otherwise manage hazardous waste at the Facility in accordance with 40 CFR Part 264, Subpart I. [See 40 CFR Part 264, Subpart I.]
- III.B.4. Closure requirements for containers used to store or otherwise manage hazardous waste are included in Module II, in Permit Condition II.N, in this Module III, in Permit Condition III.L., Permit Attachment Section I and Permit Attachment Appendices XV and XVI. [See 40 CFR §§ 264.111 and 264.178.]

III.C. CONDITION OF CONTAINERS

The Permittees shall maintain containers in good condition (*e.g.*, no severe rusting, apparent structural defects, etc.). If a container holding hazardous waste is not in good condition or, if the container begins to leak, the Permittees shall repair the container or place it into another suitable container or transfer the waste from such a container into a container that is in good condition. [See 40 CFR § 264.171.]

III.D. COMPATIBILITY OF WASTE WITH CONTAINER

- III.D.1. The Permittees must use containers that are made of or lined with materials that will not react with, and are otherwise compatible with, the hazardous wastes to be stored, so that the ability of the containers to contain the waste is not impaired. [See 40 CFR § 264.172.]
- III.D.2. For all containers within a singular secondary containment system, the Permittees shall ensure that the containers are compatible with all wastes within that containment system. [See 40 CFR § 264.172.]

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- III.D.3. The Permittees shall assure compliance with Permit Condition III.D.1. by utilization of the procedures (*e.g.*, testing of waste and containers) and equipment specified in the Waste Analysis Plan, Permit Attachment Section C and Permit Attachment Appendix IV.
- III.D.4. The Permittees shall conduct pre-acceptance characterization of waste, as specified in the Waste Analysis Plan, Permit Attachment Section C and Permit Attachment Appendix IV, and ensure proper precautions are taken so as to prevent accidental ignition or reaction of ignitable or incompatible wastes. [See 40 CFR §§ 264.172, 264.176 and 264.177.]

III.E. MANAGEMENT OF CONTAINERS

- III.E.1. The Permittees shall always keep all containers holding hazardous waste closed during storage, except when it is necessary to add or remove waste. [See 40 CFR § 264.173(a).]
- III.E.2. The Permittees shall never open, handle, or store a container holding hazardous waste in a manner that may rupture the container or cause the container to leak. [See 40 CFR § 264.173(b).]

III.E.3. Storage Configuration

- III.E.3.a. The Permittees shall maintain adequate aisle space between rows of containers to allow for the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of the facility. [See 40 CFR § 264.35.]
- III.E.3.b. A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak. [See 40 CFR § 264.173(b).]
- III.E.3.c. The Permittees shall not exceed the maximum volumes of waste for each category of containers listed in Table III-2. [See 40 CFR § 264.173.]

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TABLE III-2 LIST OF CONTAINER TYPES AND VOLUMES

Container Type	Volume (ft³)	Volume (US Gallons)
VSC/ASC 200/Drums	7.9	59
VSC/ASC 400	17.5	131
VSC/ASC 1000	44.9	336
VSC/ASC 2000	82.0	614
VSC 3000	164	1228
PV1000	44.9	336
PV2000	82.0	614
"Supersack"	Up to 67	Up to 500

III.F. CONTAINMENT SYSTEMS

III.F.1. The Permittees shall provide secondary containment for all hazardous waste containers in accordance with 40 CFR § 264.175(b) except that storage areas that store containers holding only wastes that do not contain free liquids need not have such a containment system so long as the storage area meets the requirements of 40 CFR § 264.175(c). [See 40 CFR §§ 264.175(b) and (c).]

III.F.2.

- III.F.2.a. The Permittees shall remove all accumulated liquid, including spilled and/or leaked wastes and all accumulated precipitation or run-on from the sump or collection area in a timely manner to prevent overflow of the collection system. [See 40 CFR § 264.175(b)(5).]
- III.F.2.b. At a minimum, removal of liquid shall occur within 24 hours of the initial accumulation of liquid, or sooner, based on inspection of the containment area. [See Permit Attachment Section F and Permit Appendix XII.]

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- III.F.2.c. If the collected material from a secondary containment system is a hazardous waste, it must be managed as a hazardous waste in accordance with all applicable requirements of this Permit and RCRA. [See 40 CFR § 264.175(b).]
- III.F.2.d. The Permittees shall address any spills or leaks from the pad and, if applicable, containment system in accordance with 40 CFR §\$264.15(c) and 264.171. [See 40 CFR §264.15(c) and 264.171.]

III.G. AIR EMISSION CONTROLS FOR CONTAINERS

- III.G.1. The Permittees shall store and manage hazardous waste in containers in accordance with the requirements specified in 40 CFR Part 264, Subpart CC, Permit Attachment Section O and Permit Attachment Appendix XX. [See 40 CFR §264.179, and Part 264, Subpart CC.]
- III.G.2. For containers exempted under 264.1082(c), the Permittees shall determine the average volatile organic concentration of the waste at the point of waste generation, in accordance with the procedures specified in 40 CFR § 264.1083(a). The average volatile organic concentration shall be determined over an annual timeframe, as specified in 40 CFR § 264.1083(a). [See 40 CFR §§ 264.1082(c) and 264.1083(a).]
- III.G.3. In accordance with 40 CFR § 264.1082(c)(1), for containers exempted under 264.1082(c)(1), the Permittees shall review and update, as necessary, the determination of average volatile organic concentration of the waste at the point of waste generation at least once every 12 months following the date of the initial determination for the hazardous waste streams managed and/or stored in such containers. [See 40 CFR §§ 264.1082 and 264.1083.]
- III.G.4. For any hazardous waste that has been treated at the Facility, the Permittees shall perform the applicable waste determinations for each treated hazardous waste placed in containers exempted under the provisions of 40 CFR § 264.1082(c)(2)(i) through (c)(2)(vi) in accordance with the procedures specified in 40 CFR § 264.1082(c)(2) and 264.1083(b). [See 40 CFR § 264.1082(c)(2) and 264.1083.]

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- III.G.5. Certain hazardous wastes or volumes of hazardous wastes managed at the facility trigger air emission control requirements under the RCRA air emission control provisions at 40 CFR Part 264, Subpart CC (referred to as "CC"). For wastes subject to the requirements of RCRA CC that are not subject to one of the exemptions listed at 40 CFR § 264.1082(c), that are received in containers at the facility, in addition to any other applicable provisions in this Module, the Permittees shall:
 - III.G.5.a. Visually observe container condition and record the material (carbon size) and how full the container is by percentage as per Permit Attachment Appendix IV, Appendix B Tally Sheet;
 - III.G.5.b. This Permit Condition III.G.5.b. applies to: (1) any hazardous waste containers having a design capacity greater than 0.1 cubic meters and less than or equal to 0.46 cubic meters for which all hazardous waste in or entering the unit has an average volatile organic concentration at the point of waste origination of more than 500 parts per million by weight; and (2) any hazardous waste containers having a design capacity greater than 0.46 cubic meters that is not "in light material service" as that term is defined in 40 CFR § 265.1081, for which all hazardous waste in or entering the unit has an average volatile organic concentration at the point of waste origination of more than 500 parts per million by weight. These containers must comply with the "Container Level 1 standards" in accordance with 40 CFR Part 264, Subpart CC. [See 40 CFR § 264.1086(b) and (c).]
 - III.G.5.c. This Permit Condition III.G.5.c. applies to any hazardous waste containers having a design capacity greater than 0.46 cubic meters that is "in light material service" as that term is defined in 40 CFR § 265.1081, for which all hazardous waste in or entering the unit has an average volatile organic concentration at the point of waste origination of more than 500 parts per million by weight. These containers must comply with the "Container Level 2 standards" in accordance with 40 CFR Part 264 Subpart CC. [See 40 CFR § 264.1086(b) and (d).]
 - III.G.5.d. This Permit Condition III.G.5.d. applies to any hazardous waste containers having a design capacity greater than 0.1 cubic meters that is used for

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treatment of a hazardous waste by a waste stabilization process, for which all hazardous waste in or entering the unit has an average volatile organic concentration at the point of waste origination of more than 500 parts per million by weight. These containers must comply with the "Container Level 3 standards" in accordance with 40 CFR Part 264 Subpart CC. [See 40 CFR § 264.1086(b) and (e).]

III.G.6.For containers that contain or contact hazardous wastes with organic concentrations of 10% by weight or less, the Permittees shall comply with 40 CFR §§ 264.1063 and 264.1064. [See 40 CFR §§ 264.1050(b), 264.1063(d), and 264.1064(k).]

III. H. INSPECTION SCHEDULES AND PROCEDURES

- III.H.1. The Permittees shall, upon receipt of containers of hazardous waste, inspect the containers in accordance with Permit Attachment F and Permit Appendices IV and XII and shall also ensure the container is in good condition within the meaning of 40 CFR § 264.171. Pursuant to 40 C7FR § 264.171, if any container is determined to be not in good condition or if it begins to or has leaked, the Permittees must transfer the hazardous waste from the container to a container that is in good condition or manage the waste in some other way that complies with the provisions of this Permit. [See 40 CFR § 264.171.]
- III.H.2. The Permittees shall conduct daily inspections of the Spent Carbon Container Storage Area and the containers stored there in accordance with Permit Attachment F and Permit Appendix XII and shall maintain daily records of inspections at the facility.
- III.H.3. The Permittees shall, at a minimum, conduct weekly inspections of all areas where hazardous waste containers are stored or managed, in accordance with the provisions of and inspection schedule in Permit Attachment F and Permit Appendix XII, to detect leaking containers and deterioration of containers or the containment system, which may be caused by corrosion or other factors. [See 40 CFR § 264.174.]
- III.H.4. The Permittees' inspections shall include inspection and monitoring of any air emission control equipment used to comply with the provisions of Permit

This draft permit has been created in accordance with 40 CFR § 124.6 as part of US EPA's proposed RCRA hazardous waste permit decision for the hazardous waste facility (EPA ID # AZD982441263) located on trust land of the Colorado River Indian Tribes at 2523 Mutahar Street, Parker, Arizona, 85344, and operated by Evoqua Water Technologies LLC.

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Condition III.G. in accordance with a written plan and schedule in accordance with 40 CFR § 264.1088.

III.H.5.

- III.H.5.a. Prior to their receipt, identify any hazardous waste containers subject to the Container Level 1 Standards that will not or may not be emptied within 24 hours of their receipt at the Facility and conduct an inspection on or before receipt of such containers as follows:
 - III.H.5.a.i. Visually inspect the container, cover and closure devices to check for visible cracks, holes, gaps, or other open spaces into the interior of the container when the cover and closure devices are secured in the closed position;
 - III.H.5.a.ii. Repair defects, if detected, in accordance with the requirements, including time frames, of 40 CFR § 264.1086(c)(4)(iii);
 - III.H.5.a.iii. If a container used for managing hazardous waste remains at the facility for a period of 1 year or more, the owner or operator shall visually inspect the container and its cover and closure device(s) initially and thereafter, at least once every 12 months, to check for visible cracks, holes, gaps, or other open spaces into the interior of the container when the cover and closure devices are secured in the closed position. [See 40 CFR § 264.1086(c)(4).]
- III.H.5.b. Prior to their receipt, identify any hazardous waste containers subject to the Container Level 2 Standards that will not or may not be emptied within 24 hours of their receipt at the Facility and conduct an inspection on or before receipt of such containers in accordance with the requirements of 40 CFR § 264.1086(d)(4). [See 40 CFR § 264.1086(d)(4).]
- III.H.5.c. Prior to their receipt, identify any hazardous waste containers subject to the Container Level 3 Standards and inspect and monitor the closed vent systems and control devices on such containers in accordance with the

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requirements of 40 CFR § 264.1086(e)(4). [See 40 CFR § 264.1086(e)(4).]

III.I. RECORD KEEPING AND REPORTING

- III.I.1. For hazardous waste containers subject to the requirements of RCRA CC, including those subject to one of the exemptions listed at 40 CFR § 264.1082(c), the Permittees shall comply with the recordkeeping requirements of 40 CFR §§ 264.1086 and 264.1089. [See 40 CFR §§ 264.1086 and 264.1089.]
- III.I.2. For hazardous waste containers subject to the requirements of RCRA CC, including those subject to one of the exemptions listed at 40 CFR § 264.1082(c), the Permittees shall comply with the reporting requirements of 40 CFR § 264.1090. [See 40 CFR § 264.1090.]
- III.I.3. The Permittees shall retain sketches, drawings, or data demonstrating compliance with Permit Condition III.J.1., (location of buffer zone [15 m or 50 ft] and containers holding ignitable or reactive wastes). [See 40 CFR §§ 264.176.]
- III.I.4. The Permittees shall retain sketches, drawings, or data demonstrating compliance with Permit Condition III.K.3., (location of incompatible wastes in relation to each other), where applicable. [See Permit Appendix IV (Waste Analysis Plan) and 40 CFR § 264.177.]
- III.I.5. The Permittees shall maintain at the Facility until closure is completed and certified by an independent, registered professional engineer, the following hazardous waste container-specific documents and information and all amendments, revisions, and modifications to these documents and information:
 - III.I.5.a. For storage areas that store hazardous waste containers having free liquids, a description of the containment system to demonstrate compliance with container storage area provisions of 40 CFR § 264.175. This description must show the following:
 - III.I.5.a.i. Basic design parameters, dimensions, and materials of construction;

This draft permit has been created in accordance with 40 CFR § 124.6 as part of US EPA's proposed RCRA hazardous waste permit decision for the hazardous waste facility (EPA ID # AZD982441263) located on trust land of the Colorado River Indian Tribes at 2523 Mutahar Street, Parker, Arizona, 85344, and operated by Evoqua Water Technologies LLC.

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III.I.5.a.ii. How the design promotes drainage or how containers are kept from contact with standing liquids in the containment system;

III.I.5.a.iiii. Capacity of the containment system relative to the number and volume of hazardous waste containers to be stored;

III.I.5.a.iv. Provisions for preventing or managing run-on; and

III.I.5.a.v. How accumulated liquids can be analyzed and removed to prevent overflow.

III.I.5.b. For storage areas that store containers holding hazardous wastes that do not contain free liquids, a demonstration of compliance with 40 CFR 264.175(c), including:

III.I.5.b.i Test procedures and results or other documentation or information to show that the wastes do not contain free liquids; and

III.I.5.b.ii. A description of how the storage area is designed or operated to drain and remove liquids or how containers are kept from contact with standing liquids.

III.I.6. When management of ignitable or reactive waste or incompatible waste occurs at the Facility, the Permittees must document compliance with Permit Conditions III.J. and III.K. This documentation may be based on references to published scientific or engineering literature, data from trial tests (e.g., bench scale or pilot scale tests), waste analyses (as specified in the Waste Analysis Plan), or the results of the treatment of similar wastes by similar treatment processes and under similar operating conditions. [See Permit Appendix IV (Waste Analysis Plan) and 40 CFR § 264.17(c).]

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III.J. SPECIAL CONTAINER PROVISIONS FOR IGNITABLE AND REACTIVE WASTES

- III.J.1. The Permittees shall not locate containers holding ignitable or reactive waste within 50 feet (15 meters) of the facility property line. The physical location of this 50-foot boundary shall be permanently marked and maintained while the facility is in operation. [See 40 CFR § 264.176.]
- III.J.2. The Permittees shall prevent accidental ignition or reaction of ignitable or reactive waste. The Permittees shall follow the procedures specified in the Waste Analysis Plan (Permit Appendix IV) regarding the identification of ignitable and reactive wastes. [40 CFR §§ 264.177(a) and 264.176.]
- III.J.3 The Permittees shall comply with the general requirements of 40 CFR § 264.17 for ignitable or reactive wastes managed or stored in containers at the Facility. [See 40 CFR § 264.17.]
- III.J.4. Containers of ignitable and reactive wastes shall be stacked no more than two containers high.

III.K. SPECIAL CONTAINER PROVISIONS FOR INCOMPATIBLE WASTE

- III.K.1. The Permittees shall not place incompatible wastes, or incompatible wastes and materials, in the same container unless such placement is performed in accordance with the provisions of 40 CFR § 264.17(b). [See 40 CFR §§ 264.17(b) and 264.177(a).]
- III.K.2. The Permittees shall not place hazardous waste in an unwashed container that previously held an incompatible waste or material. [See 40 CFR § 264.177(b).]
- III.K.3. The Permittees shall separate containers of incompatible wastes as specified in the Waste Analysis Plan. Storage containers with incompatible wastes shall be separated from other material or be protected from other materials by means of a berm, dike, wall, or other device. [See 40 CFR § 264.177(c).]

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III.K.4. The Permittees shall ensure that the management of any incompatible wastes at the Facility will not result in any leak, corrosion, compromise or failure of any secondary containment required by this Permit. [See 40 CFR § 264.175.]

III.L. CLOSURE

- III.L.1. At closure, all hazardous waste and hazardous waste residues must be removed from the containment system. Remaining containers, liners, bases and soil containing or contaminated with hazardous waste or hazardous waste residues must be decontaminated or removed. [See 40 CFR § 264.178.]
- III.L.2. At closure, the Permittees must manage any hazardous waste removed from the containment system in accordance with the requirements of this Permit. [See comment to 40 CFR § 264.178.]

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MODULE IV - STORAGE IN TANKS

IV.A. <u>APPLICABILITY</u>

- **IV.A.1.** All hazardous waste tank systems and tank-like systems managed at the Facility must comply with the design, installation, and other requirements for "new tank systems" at 40 CFR § 264.192, incorporated herein by this reference, as opposed to the requirements for "existing tank systems" at 40 CFR § 264.191. [See 40 CFR § 260.10, 264.191 and 264.192.]
- Except as otherwise specifically set forth in this Permit, the requirements of 40 CFR § 264, Subpart J, Subpart BB (Subpart BB), and Subpart CC (Subpart CC), and 40 CFR § 61, Subpart FF (Subpart FF) are applicable to the hazardous waste tanks systems (T-1, T-2, T-5, T-6, and T-18) that are used to store or otherwise manage hazardous waste at the Facility. Map of Tanks systems' locations can be found in the Permit Attachment Appendix III. Certain air emission control requirements also apply to Tank T-11, as indicated in Permit Condition IV.G.1. and Table IV-2.
- This module also contains Permit Conditions for the Hoppers H-1 and H-2, which are ancillary equipment to Tank Systems T-1, T-2, T-5 and T-6 and are used to transport or feed hazardous waste to these Tank Systems. These Hoppers are defined as "open valves or lines" under RCRA's air emissions requirements found at 40 CFR Part 264, Subpart BB, and as "individual drain systems" under the Clean Air Act's air emission control requirements for individual drain systems found at 40 CFR Part 61, Subpart FF.
- **IV.A.4.** Table IV-1 below provides descriptions of the hazardous waste tank systems that are discussed in this Module and that are subject to the permit conditions of this Module.

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TABLE IV-1 INFORMATION ABOUT HAZARDOUS WASTE TANK SYSTEMS

Tank/Ancillary Equipment No. & Description	Tank/Ancillary Equipment Materials Of Construction	Tank/Ancillary Equipment Dimensions	Tank/Ancillary Equipment Design Capacity (Gallons)	Tank/Ancillary Equipment Maximum Allowable Design Vapor Pressure (kPa)
T-1 spent carbon storage tank	300 Series Stainless Steel, Fixed Roof	16'-0" Straight Side 10'-0" Diameter 8'-0" 62° Bottom Cone	8,319 gal.	Atmospheric
T-2 spent carbon storage tank	300 Series Stainless Steel, Fixed Roof	16'-0" Straight Side 10'-0" Diameter 8'-0" 62° Bottom Cone	8,319 gal.	Atmospheric
T-5 spent carbon storage tank	300 Series Stainless Steel, Fixed Roof	16'-0" Straight Side 10'-0" Diameter 8'-0" 62° Bottom Cone	8,319 gal.	Atmospheric
T-6 spent carbon storage tank	300 Series Stainless Steel, Fixed Roof	16'-0" Straight Side 10'-0" Diameter 8'-0" 62° Bottom Cone	8,319 gal.	Atmospheric
T-18 RF-2 Feed Tank	300 Series Stainless Steel	7'-6" Straight Side 10'-4.5" Diameter 9'-4.75" 60° Bottom Cone	6,500 gal.	Atmospheric
H-1 Outdoor spent	Mild Steel	14' length x 8' width	5000 lb. capacity	Atmospheric

This draft permit has been created in accordance with 40 CFR § 124.6 as part of US EPA's proposed RCRA hazardous waste permit decision for the hazardous waste facility (EPA ID # AZD982441263) located on trust land of the Colorado River Indian Tribes at 2523 Mutahar Street, Parker, Arizona, 85344, and operated by Evoqua Water Technologies LLC.

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Tank/Ancillary Equipment No. & Description	Tank/Ancillary Equipment Materials Of Construction	Tank/Ancillary Equipment Dimensions	Tank/Ancillary Equipment Design Capacity (Gallons)	Tank/Ancillary Equipment Maximum Allowable Design Vapor Pressure
carbon unloading hopper		x 7' height		(kPa)
H-2 Indoor spent carbon unloading hopper	Mild Steel	4' length x 4' width x 4' height	5000 lb. capacity	Atmospheric

IV.B. GENERAL REQUIREMENTS FOR TANK SYSTEMS

- **IV.B.1.** Tank design capacities for the tanks and the hoppers are shown in Table IV-1. This design capacity for each tank or hopper shall not be exceeded.
- IV.B.2. Prior to the installation of any new tank systems, tank-like systems or components, the Permittees shall submit to the Director the information required in a Part B permit application for new tank systems or components in accordance with 40 CFR §§ 264.192, along with an accompanying request for a permit modification in accordance with Permit Condition I.G.7. (See 40 CFR §§ 264.192 and 270.42.)
- **IV.B.3.** Hoppers H-1 and H-2, described in Table IV-1, are considered ancillary equipment to Tanks T-1, T-2, T-5 and T-6 and must meet each of the requirements applicable to ancillary equipment that are set forth in 40 CFR Part 264, Subpart J, which is incorporated herein by this reference. (See 40 CFR § 264.190 *et seq.*.)
- **IV.B.4.** Pursuant to the Schedule of Compliance set forth in Permit Condition I.K., the Permittees must obtain and submit written assessments for Hoppers H-1 and H-2 that meet the requirements of 40 CFR § 264.192(a) as follows:

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- **IV.B.4.a.** Pursuant to the Schedule of Compliance set forth in Permit Condition I.K., the Permittees must obtain and submit written assessments for Hopper H-1 that meet the requirements of 40 CFR § 264.192(a) and that demonstrate compliance with 40 CFR § 264.192. The Permittees must maintain a copy of these assessments on file at the Facility in accordance with 40 CFR § 264.192(g). [See 40 CFR § 264.192 and Permit Condition I.K.]
- **IV.B.4.b.** Pursuant to the Schedule of Compliance set forth in Permit Condition I.K., the Permittees must obtain and submit written assessments for Hopper H-2 that meet the requirements of 40 CFR § 264.192(a) and that demonstrate compliance with 40 CFR § 264.192. The Permittees must maintain a copy of these assessments on file at the Facility in accordance with 40 CFR § 264.192(g). [See 40 CFR § 264.192 and Permit Condition I.K.]

IV.C. CONDITION OF TANK SYSTEMS

IV.C.1. The Permittees shall maintain hazardous waste tank systems in good condition (*e.g.*, no severe rusting, apparent structural defects, etc.). If a tank system holding hazardous waste is not in good condition or, if the tank system begins to leak, the Permittees shall repair the tank system or transfer the waste from such a tank system into one or more tanks systems or containers that are in good condition. [See 40 CFR § 264.171.]

IV.D. COMPATIBILITY OF WASTE WITH TANK SYSTEMS

IV.D.1. Hazardous wastes or treatment reagents must not be placed in a tank system if they could cause the tank, its ancillary equipment, or the tank's containment system to rupture, leak, corrode, or otherwise fail. [See 40 CFR § 264.194(a).]

IV.E. MANAGEMENT OF TANK SYSTEMS

- **IV.E.1.** The Permittees must use appropriate controls and practices to prevent spills and overflows from tank systems or containment systems. [See 40 CFR § 264.194(b).]
- **IV.E.2.** The Permittees must utilize appropriate spill prevention controls (*e.g.*, check valves, dry disconnect couplings), overfill prevention controls (*e.g.*, level sensing devices, high level alarms, automatic feed cutoff, or bypass to a standby tank), and maintenance of sufficient freeboard in uncovered tanks and H-1 to prevent overtopping by wind action or by precipitation. [See 40 CFR § 264.194(b).]

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IV.E.3. The Permittees shall ensure that the unloading and feeding of waste into H-1 and H-2 are done in a manner that prevents the migration of waste from these units. The Permittees may not use the units H-1 or H-2 for waste storage and are required to pump any waste fed into H-1 or H-2 into Tanks T-1, T-2, T-5 or T-6 as soon as practical, even if carbon regeneration operations at the Facility have ceased or been curtailed.

IV.F. CONTAINMENT SYSTEMS

- **IV.F.1.** The Permittees must maintain secondary containment in accordance with the requirements of 40 CFR § 264.193. [See 40 CFR § 264.193.]
- IV.F.2. The secondary containment must be designed or operated to contain 100 percent of the capacity of the largest tank within its boundary, and must be designed and operated to prevent run-on or infiltration of precipitation into the secondary containment system unless the collection system has sufficient excess capacity to contain run-on or infiltration. [See 40 CFR §§ 264.193(e)(1)(i), (ii), (iii) and (iv) and Permit Attachment Appendix IX.]
- IV.F.3. The Permittees shall maintain the secondary containment in a manner so as to prevent any migration of wastes or accumulated liquid out of the system to the soil, ground water, or surface water at any time during the use of the tank systems. The Permittees must ensure that the secondary containment is free from cracks or gaps by maintaining a sealant on any such areas that is compatible with the spent carbon. [See 40 CFR §§ 264.193(b)(1) and (e)(1)(iii).]
- IV.F.4. The Permittees must retain the containment volume of secondary containment within the concrete pad that serves as the secondary containment for Tanks T-1, T-2, T-5 and T-6 at or above the 9,847 gallons at all times. The maximum tank volume of Tanks T-1, T-2, T-5 and T-6 is 8,319 gallons and the calculated applicable rainfall volume for secondary containment for Tanks T-1, T-2, T-5 and T-6 is 1,528 gallons. The containment volume must meet the total required volume of 9,847 gallons. [See 40 CFR § 264.193(e) and Permit Attachment Appendix IX.]
- **IV.F.5.** The Permittees shall maintain the double walled tank T-18 in accordance with 40 CFR 264.193(e)(3). [See 40 CFR § 264.193(e)(3).]

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IV.F.6. Spent Carbon Unloading Hopper H-1

- IV.F.6.a. In accordance with the Compliance Schedule set forth in Permit Condition I.K., the Permittees shall submit to EPA for approval a work plan with a schedule for providing secondary containment for the spent carbon unloading Hopper H-1 in accordance with 40 CFR § 264.193. [See 40 CFR § 264.193.]
 - **IV.F.6.b.i.** Until such time as the secondary containment for Hopper H-1 is provided in accordance with Permit Condition IV.F.6.a., the Permittees must conduct a leak test or other integrity assessment to ensure the integrity of Hopper H-1 annually from the date of the leak test or other integrity assessment required in Permit Condition I.K. and maintain a record of the results of each such assessment in the operating record at the Facility and otherwise comply with the requirements of 40 CFR § 264.193(i), incorporated herein by this reference. [See 40 CFR § 264.193(i).]
 - **IV.F.6.b.ii.**Until such time as the secondary containment for Hopper H-1 is provided in accordance with Permit Condition IV.F.6.a., the Permittees must perform daily inspections of the spent carbon unloading Hopper H-1 in accordance with 40 CFR § 264.195(f). [See 40 CFR § 264.195(f).]
 - **IV.F.6.b.iii.** If the secondary containment for Hopper H-1 is not implemented within a year from the effective date of this Permit, as provided in accordance with Permit Conditions I.K.7. and IV.F.6.a., the Permittees shall be subject to the requirements of Permit Conditions I.K.9. and II.M.3., and 40 CFR § 264.197(c), incorporated herein by this reference. [See 40 CFR § 264.197(c).]
- **IV.F.7.** The Permittees shall maintain the secondary containment for the spent carbon unloading Hopper H-2 in the container storage warehouse in accordance with 40 CFR § 264.193(e)(1). The pad under H-2 serves as a liner external to the hopper, providing secondary containment. [See 40 CFR § 264.193(e)(1).]

IV.G. AIR EMISSION CONTROLS

IV.G.1. Tank systems T-1, T-2, T-5, T-6, T-11 and T-18 are subject to air emission control requirements pursuant to this Permit. Tanks T-1, T-2, T-5, T-6 and T-18 and hoppers H-1 and H-2 are equipped with closed vent systems leading to air pollution control devices. The Permittees must comply with the RCRA and CAA

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regulations that are identified in the column labeled "Air Emission Control Regulations Applicable to this Unit" in Table IV-2 and that relate to the emissions standards, monitoring records, reporting and management requirements for the correlating units, *i.e.*, tanks T-1, T-2, T-5, T-6, T-11 and T-18, and their associated ancillary equipment, (H-1 and H-2), and the carbon adsorbers WS-1, WS-2, and WS-3, and their associated closed vent systems (e.g. hoses/piping and connections). [See Permit Attachment Sections N and O, Permit Attachment Appendices XIX and XX, Permit Attachments Subpart BB Compliance Plan and Subpart FF Compliance Plan and 40 CFR Part 61 and §§ 264.1050 *et* seq., 264.1087, 264.1088, 264.1089, and 264.1090.]

IV.G.2.

- **IV.G.2.a.** If sampling and analysis or operator knowledge of the waste entering Tank T-11 demonstrates that the average annual Volatile Organic concentration of the waste entering the unit is greater than or equal to 500 parts per million by weight, the Permittees shall ensure that tank T-11 complies with the "Air Emission Control Regulations Applicable to this Unit" in Table IV-2.
- **IV.G.2.b.** For Hoppers H-1 and H-2, the Permittees must ensure that H-1 and H-2 are at all times in compliance with either 40 CFR Part 264, Subpart BB requirements for open ended valves or lines or with 40 CFR Part 61, Subpart FF requirements for individual drain systems, as set forth in the column labeled "Air Emission Control Regulations Applicable to this Unit" in Table IV-2. [See 40 CFR §§ 264.1050 *et seq.*, and §§ 61.340 *et seq.* See also Permit Condition I.K.10.]
- **IV.G.2.c.** For carbon adsorber WS-2 and the piping, connections, and any flow-inducing devices that transport gas or vapor from a piece or pieces of equipment to WS-2, the Permittees must ensure that WS-2, and any such piping, connections and devices, are at all times in compliance with either 40 CFR Part 264, Subpart BB requirements for closed-vent systems and control devices or with 40 CFR Part 61, Subpart FF requirements for closed vent systems and control devices, as set forth in the column labeled "Air Emission Control Regulations Applicable to this Unit" in Table IV-2. [See 40 CFR §§ 264.1050 et seq., and §§ 61.340 et seq. See also Permit Condition I.K.10.]
- **IV.G.3.** In accordance with Permit Attachment Section N and Permit Attachment Appendix XIX, the Permittees must comply with the requirements of 40 CFR Part

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264, Subpart BB. [See 40 CFR Part 264, Subpart BB. See also Permit Condition I.K.10.]

- IV.G.4. In accordance with Permit Attachment Section O and Permit Attachment Appendix XX, the Permittees must comply with the record-keeping and reporting requirements of 40 CFR §§ 264.1089(f)(1) and 264.1090(a) when operating the scrubber, recycler, boiler and cooling tower blow-down storage tank, T-11. [See Permit Attachment Section O, Permit Attachment Appendix XX, and 40 CFR §§ 264.1089(f)(1) and 264.1090(a).]
- **IV.G.5.** The Permittees shall maintain and operate the air pollution control equipment at the Facility in a manner consistent with good air pollution control practice for minimizing emissions. [See, *e.g.*, 40 CFR §264.31.]

<u>TABLE IV-2</u> <u>MANAGEMENT OF EACH TANK SYSTEM, HOPPERS</u> AND THE AIR POLLUTION CONTROL DEVICES

Tank or	Description	Air Emission Control Requirements
Unit No.		Applicable to this Unit
T-1	Spent Carbon Storage Tank. Tank T-1 vapors are controlled by a closed vent system leading to a carbon adsorber (WS-1).	40 CFR Part 61, Subparts A and FF and 40 CFR §264.1089(j).
T-2	Spent Carbon Storage Tank. Tank T-2 vapors are controlled by a closed vent system leading to a carbon adsorber (WS-1).	40 CFR Part 61, Subparts A and FF and 40 CFR §264.1089(j).
T-5	Spent Carbon Storage Tank. Tank T-5 vapors are controlled by a closed vent system leading to a carbon adsorber (WS-1).	40 CFR Part 61, Subparts A and FF and 40 CFR §264.1089(j).
T-6	Spent Carbon Storage Tank. Tank T-6 vapors are controlled by a closed vent system leading to carbon adsorber (WS-1).	40 CFR Part 61, Subparts A and FF and 40 CFR §264.1089(j).
T-11	Scrubber/ Recycle/	40 CFR §§ 264.1082(c)(1),

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Tank or	Description	Air Emission Control Requirements			
Unit No.		Applicable to this Unit			
	Boiler and Cooling Tower Blow-	264.1089(f)(1) and 264.1090(a).			
	Down Water Storage Tank	Tank T-11 is subject to monitoring and			
		record keeping requirements of 40 CFR			
		Part 264, Subpart CC. If sampling and			
		analysis or operator knowledge of the			
		waste entering Tank T-11 demonstrates			
		that the average annual Volatile Organic			
		concentration of the waste entering the			
		unit is greater than or equal to 500 parts			
		per million by weight, the Permittees			
		shall at such time ensure that tank T-11			
		meets the additional requirements of 40			
		CFR §§ 264.13(b)(8), 264.1082,			
		264.1084 and 264.1087.			
T-18	Hearth feed tank or spent carbon feed	40 CFR Part 61, Subparts A and FF and			
	tank. Tank T-18 vapors are controlled	40 CFR §264.1089(j).			
	by a closed vent system leading to a				
	carbon adsorber (WS-3).				
H-1	Outdoor spent carbon unloading	40 CFR §§ 61.01 through 61.19, 61.346			
	hopper (open ended line; individual	(or 40 CFR Part 264, Subpart BB), and			
	drain system). Hopper H-1 vapors are	Permit Conditions I.K.10., II.H.4. and			
	controlled by a closed vent system	IV.G.3.			
	leading to a carbon adsorber (WS-2).				
H-2	Indoor spent carbon unloading hopper	40 CFR §§ 61.01 through 61.19, 61.346			
	(open ended line; individual drain	and 264.1064(m) (or 40 CFR Part 264,			
	system). Hopper H-2 vapors are	Subpart BB), and Permit Conditions			
	controlled by a closed vent system	I.K.10., II.H.4. and IV.G.3.			
TT/C 4	leading to a carbon adsorber (WS-2).	40 CED 66 (1.01.4) 1 (1.10. (1.240)			
WS-1	Carbon Adsorber No.1 and	40 CFR §§ 61.01 through 61.19, 61.349,			
	associated Closed Vent System (e.g.	61.354(d), 264.1089(j), and Permit			
	connections and hoses/piping) for	Conditions II.H.4. and IV.G.3.			
	tanks T-1, T-2, T-5, and T-6. WS-1,				
	and the piping, connections, and any				
	flow-inducing devices that transport				
	gas or vapor from a piece or pieces of				
	equipment to WS-1, is an air pollution				
	control device.				

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Tank or	Description	Air Emission Control Requirements
Unit No.	_	Applicable to this Unit
WS-2	Carbon Adsorber No.2 and associated Closed Vent System (e.g. connections and hoses/piping) for hoppers H-1 and H-2. WS-2, and the piping, connections, and any flow-inducing devices that transport gas or vapor from a piece or pieces of equipment to WS-2, is an air pollution control device.	40 CFR §§ 61.01 through 61.19, 61.349, 61.354(d), and 264.1064(m) (or 40 CFR Part 264, Subpart BB, for closed vent systems and control devices) and Permit Conditions I.K.10., II.H.4. and IV.G.3.
WS-3	Carbon Adsorber No.3 and associated Closed Vent System (e.g. connections and hoses/piping) for tank T-18. WS-3, and the piping, connections, and any flow-inducing devices that transport gas or vapor from a piece or pieces of equipment to WS-3, is an air pollution control device.	40 CFR §§ 61.01 through 61.19, 61.349, 61.354(d), 264.1089(j), and Permit Conditions II.H.4. and IV.G.3
Closed	Hoses/piping and connections leading	40 CFR §§ 61.01 through 61.19, 61.349,
Vent	from tanks to adsorbers. The piping,	61.354(d), 264.1089(j), and Permit
Systems	connections, and any flow-inducing	Conditions II.H.4. and IV.G.3.
Connected	devices that transport gas or vapor	
to WS-1	from the hazardous waste tanks to air	
and WS-3	pollution control devices, such as	
	WS-1, and WS-3, are closed vent	
	systems.	
Closed	Hoses/piping and connections leading	40 CFR §§ 61.01 through 61.19, 61.349,
Vent	from hoppers to adsorbers. The	61.354(d), 264.1064(m), (or 40 CFR Part
Systems	piping, connections, and any flow-	264, Subpart BB, for closed vent
Connected	inducing devices that transport gas or	systems) and Permit Conditions I.K.10.,
to WS-2	vapor from the hoppers to an air pollution control device, such as WS-	II.H.4. and IV.G.3.
	2, are closed vent systems.	

IV.G.6. For hazardous waste managed and/or stored on site in any tank systems that are not equipped with air pollution control devices installed prior to December 6, 1996, the Permittees shall determine the average volatile organic concentration of the waste at the point of waste generation, in accordance with the procedures

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specified in 40 CFR § 264.1083(a). The average shall be determined over an annual timeframe, as specified in 40 CFR § 264.1083(a). In accordance with 40 CFR § 264.1082(c)(1), the Permittees shall review and update, as necessary, this determination at least once every 12 months following the date of the initial determination for the hazardous waste streams managed and/or stored in such containers. [See 40 CFR §§ 264.1082 and 264.1083.]

- **IV.G.7.** For any hazardous waste that has been treated at the Facility, the Permittees shall perform the applicable waste determinations for each treated hazardous waste placed in tanks that are exempted under the provisions of 40 CFR § 264.1082(c)(2)(i) through (c)(2)(vi) in accordance with the procedures specified in 40 CFR § 264.1083(b). [See 40 CFR § 264.1083.]
- IV.G.8. Certain hazardous wastes or volumes of hazardous wastes managed at the facility trigger air emission control requirements under either the RCRA air emission control provisions at 40 CFR Part 264, Subpart CC or the Clean Air Act air emission control provisions at 40 CFR Part 61, Subpart FF, or both. For wastes subject to the requirements of either RCRA Subpart CC or CAA Subpart FF or both that are not subject to one of the exemptions listed at 40 CFR § 264.1082(c), that are managed in tank systems at the Facility, in addition to the requirements in Permit Condition III.G.1, the Permittees shall:
 - IV.G.8.a.i. This Permit Condition IV.G.8.a.i. applies to any hazardous waste tank that meets all of the conditions specified in 40 CFR § 264.1084(b)(1)(i) through (iii), which is not equipped with a carbon canister meeting the requirements of 40 CFR § 61, Subpart FF. The Permittees must control air pollutant emissions from such tanks in accordance with the Tank Level 1 controls specified in 40 CFR § 264.1084(c) or the Tank Level 2 controls specified in 40 CFR § 264.1084(d). If Tank Level 1 or Tank Level 2 controls apply, the Permittees must perform inspections, recordkeeping and reporting required for tanks subject to Tank Level 1 or Tank Level 2 controls, as applicable. [See 40 CFR §§ 264.1084(b)(1), (c) and (d).]
 - **IV.G.8.a.ii.** This Permit Condition IV.G.8.a.ii. applies to any hazardous waste tank that does not meet all of the conditions specified in 40 CFR § 264.1084(b)(1)(i) through (iii), and which is not equipped with a carbon canister meeting the requirements of 40 CFR § 61, Subpart FF. The Permittees must control air pollutant emissions from such tanks in accordance with the Tank Level 2 controls specified in 40 CFR § 264.1084(d). If Tank Level 2 controls

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apply, the Permittees must perform inspections, recordkeeping and reporting required for tanks subject to Tank Level 2 controls. [See 40 CFR §§ 264.1084(b)(2), and (d).]

- **IV.G.8.a.iii.** This Permit Condition IV.G.8.a.iii. applies to any hazardous waste tank for which air pollution emissions are controlled by venting the tank to a control device, other than those tanks equipped with a carbon canister meeting the requirements of 40 CFR § 61, Subpart FF. The Permittees shall control air emissions from such tanks in accordance with the requirements set forth at 40 CFR § 264.1084(g)(1) through (g)(3). If the requirements of 40 CFR § 264.1084(g)(1) through (g)(3) apply, the Permittees must perform inspections, recordkeeping and reporting required for tanks subject to 40 CFR 264.1084(g). [See 40 CFR §§ 264.1084(g).]
- **IV.G.8.a.iv.** This Permit Condition IV.G.8.a.iv. applies to the transfer of hazardous waste to any hazardous waste tank where the average volatile organic concentration is above the standard set forth at 40 CFR 264.1082(c)(1) (*i.e.*, 500 ppmw) other than to a tank equipped with a carbon canister meeting the requirements of 40 CFR § 61, Subpart FF. The Permittees shall transfer hazardous waste to any such tank in accordance with the requirements of 40 CFR § 264.1084(j). [See 40 CFR § 264.1084(j).]
- **IV.G.8.b.** This Permit Condition IV.G.8.b. applies to any tank equipped with a carbon canister meeting the requirements of 40 CFR Part 61, Subpart FF. The Permittees shall operate and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to the carbon canister in accordance with the following requirements:
 - **IV.G.8.b.i.** The fixed-roof shall meet the requirements set forth at 40 CFR § 61.343(a)(1)(i).
 - **IV.G.8.b.ii.** The closed-vent system and control device (*i.e.*, carbon canister) shall be designed and operated in accordance with the requirements of 40 CFR § 61.349. [See 40 CFR Part 61, Subpart FF.]
- **IV.G.9.** The Permittees shall change-out the carbon in WS-1, WS-2 and WS-3, respectively, in accordance with the schedule set forth in the Permit Attachment Appendix XXIII, Section 4.5 and the engineering calculations in Appendix C thereto to ensure control of emissions from volatile organic compounds (VOCs)

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into ambient air.

IV.G.10. The Permittees shall comply with the record keeping requirements of 40 CFR §§ 264.1064(m) and 264.1089(j) for any tank or equipment equipped with and operating air emission controls in accordance with CAA requirements set forth in 40 CFR Parts 60, 61, or 63, which are deemed in compliance with 40 CFR Part 264 Subpart BB or Subpart CC, as appropriate. [See 40 CFR §§ 264.1064(m) and 264.1089(j). See also Permit Condition I.K.10.]

IV.H. INSPECTION SCHEDULES AND PROCEDURES

- IV.H.1. The Permittees shall inspect the tank systems, in accordance with the Inspection Schedule in Permit Attachment Section F and Permit Attachment Appendix XII. [See 40 CFR § 264.195, Permit Attachment Section F and Permit Attachment Appendix XII.]
- **IV.H.2.** The Permittees shall visually inspect the spent carbon storage tank systems, (T-1, T-2, T-5, T-6 and T-18), daily. This inspection shall include, at a minimum:
 - **IV.H.2.a.** A visual inspection of the above-ground portions of the tank systems to detect corrosion or releases of waste in accordance with 40 CFR § 264.195(c)(1);
 - **IV.H.2.b.** A visual inspection of the construction materials and the area immediately surrounding the externally accessible portion of each tank system, including the secondary containment systems to detect erosion or signs of releases of hazardous waste in accordance with 40 CFR § 264.195(c)(2);
 - **IV.H.2.c.** Ancillary equipment that is not provided with secondary containment, as described in 40 CFR § 264.193(f)(1) through (4), must be inspected at least once each operating day in accordance with 40 CFR § 264.195(f); and
 - **IV.H.2.d.** For ancillary equipment not contained or located over secondary containment, a leak test must be conducted annually in accordance with 40 CFR § 264.193(i). [See 40 CFR § 264.193(i).]
- **IV.H.3.** The Permittees shall conduct daily inspections of the overfill/spill control equipment (*e.g.*, waste-feed cutoff systems, bypass systems, and drainage

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systems) to ensure that this equipment is in good working order. [See 40 CFR § 264.195.]

- **IV.H.3.a.** The Permittees shall conduct daily visual inspections of the tank walls and pad for wetness, cracks, holes, or other evidence of malfunction. [See Permit Attachment Section F.]
- **IV.H.3.b.** The Permittees shall, on a daily basis, check for leaks around the valve areas, couplings, and threaded nipples, as applicable. [See Permit Attachment Section F.]
- **IV.H.3.c.** The Permittees shall, on a daily basis, check tank markings for weathering and proper identification of tank contents. [See Permit Attachment Section F.]
- **IV.H.3.d.** The Permittees shall, on a daily basis, check external tank walls for signs of corrosion and pitting. [See Permit Attachment Section F.]
- **IV.H.4.** At least once each operating day, the Permittees shall conduct reviews of the data gathered from monitoring and leak detection equipment (*e.g.*, pressure or temperature gauges, monitoring wells) to ensure that the tank systems are being operated according to their designs. [See 40 CFR § 264.195(b).]
- **IV.H.5.** The Permittees shall visually inspect daily the valve position and level monitoring systems for proper operation. [See Permit Attachment Section F.]
- **IV.H.6.** The Permittees shall perform inspections of each hazardous waste tank to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. [See 40 CFR § 264.1084.]
- **IV.H.7.** <u>Ultrasonic Thickness Testing</u>
 - **IV.H.7.a.** The Permittees shall conduct annual ultrasonic thickness testing at the bottom of the cylinder wall above the cone-cylinder intersection and at the previous locations of minimum shell thickness readings (as recommended in the tank assessment in the Permit Attachment Appendix IX) for each major component (top head, cylinder wall, bottom cone and support skirt) on each of tanks T-1, T-2, T-5, T-6 and T-18. [See Permit Attachment Section F and Permit Attachment Appendix IX.]

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- IV.H.7.b. In addition, the Permittees shall conduct comprehensive ultrasonic thickness testing every five (5) years for each major component (top head, cylinder wall, bottom cone, and support skirt) on each of the and tanks T-1, T-2, T-5, T-6 and T-18 as recommended in the tank assessment in the Permit Attachment Appendix IX. [See Permit Attachment Section F and Permit Attachment Appendix IX.]
- **IV.H.7.c.** The Permittees shall remove from service and repair or replace any tank with cylindrical wall thickness that is less than or equal to 0.157 inches. [See Permit Attachment Section F and Permit Attachment Appendix IX.]
- **IV.H.7.d.** The Permittees shall replace all carbon steel components and fittings of any hazardous waste tank system that are in direct contact with spent carbon and recycle water slurry with 300 series stainless steel components and fittings prior to performing the next set of comprehensive ultrasonic thickness test measurements. [See Permit Attachment Section F and Permit Attachment Appendix IX.]
- IV.H.8. The Permittees shall inspect the air emission control equipment in accordance with the following requirements and Permit Attachment Section F and Permit Attachment Appendix XII. The Permittees shall visually inspect the carbon adsorption systems (WS-1, WS-2, and WS-3) and their closed vent systems on a daily basis to ensure there are no leaks from these devices and that they are properly operated. The visual inspection shall include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections. [See Permit Attachment Section F and Permit Attachment Appendix XII.]
- **IV.H.9.** The Permittees shall maintain the paint coating on exterior surfaces of all tank system components that are carbon steel by repainting if visual observation indicates that 20% or greater of the component's paint coating is damaged. [See Permit Attachment Section F and Permit Attachment Appendix IX.]
- **IV.H.10.** If a tank system or component is found to be leaking or unfit for use as a result of the leak test or assessment, the Permittees shall comply with Permit Condition IV.C. of this Permit and notify the Director in accordance with Permit Condition IV.J. of this Permit. [See 40 CFR § 264.193(i)(5).]

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IV.I. RESPONSE TO LEAKS, SPILLS OR DEFECTS

- **IV.I.1.** In the event of: (1) a leak or a spill from a tank system, (2) a leak or spill from a secondary containment system, (3) a system becomes unfit for continued use due to defects or a state of disrepair, or (4) a defect in a carbon adsorber is detected, the Permittees shall remove the system from service immediately and complete the following actions:
 - **IV.I.1.a.** Immediately stop the flow of hazardous waste into the system and inspect the system to determine the cause of the release. [See 40 CFR § 264.196(a).]
 - **IV.I.1.b.** Remove waste and accumulated precipitation from the system within 24 hours of the detection of the leak to prevent further release and to allow inspection and repair of the system. [See 40 CFR § 264.196(b).]
 - If the Permittees find that it will be impossible to meet this time period, the Permittees shall, at the earliest practicable time, remove as much of the waste as is necessary to prevent further release of hazardous waste to the environment and to allow inspection and repair of the system to be performed and in as timely a manner as is possible to prevent harm to human health or the environment. In such event, the Permittees shall also provide prompt notification (*i.e.*, within 24 hours of detection of the leak) to the Director regarding any additional time that may be required to complete removal of waste and accumulated precipitation from the system. The Director may approve the additional time required or set another time frame to complete removal of the leaked material in their sole discretion.
 - **IV.I.1.b.ii.** If the collected material is a RCRA hazardous waste, it must be managed in accordance with all applicable requirements of this Permit. The Permittees shall note that if the collected material is discharged through a point source to U.S. waters or to a Publicly Owned Treatment Works (POTW), such discharge is subject to requirements of the Clean Water Act. If the collected material is released to the environment, it may be subject to additional reporting requirements pursuant to 40 CFR Part 302.
 - **IV.I.1.c.** Contain visible releases to the environment. The Permittees shall immediately

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conduct a visual inspection of all releases to the environment and based on that inspection:

- **IV.I.1.c.i.** Prevent further migration of the leak or spill to soils or surface water; and
- **IV.I.1.c.ii.** Remove and properly dispose of any visible contamination of the soil or surface water. [See 40 CFR § 264.196(c).]
- **IV.I.1.d.** Close the system in accordance with the Closure Plan, Permit Attachment I, unless the following actions are taken:
 - **IV.I.1.d.i.** For a release caused by a spill that has not damaged the integrity of the system, the Permittees shall remove the released waste and make any necessary repairs to the system before returning the system to service. [See 40 CFR § 264.196(e)(2).]
 - **IV.I.1.d.ii.** For a release caused by a leak from a tank system to a secondary containment system, the Permittees shall repair the tank system prior to returning it to service. [See 40 CFR § 264.196(e)(3).]
 - **IV.I.1.d.iii.** For a release to the environment caused by a leak from a component of a tank system that does not have secondary containment, the Permittees shall repair the tank system in accordance with 40 CFR § 264.196(e)(4) before returning it to service. [See 40 CFR § 264.196(e)(4).]
 - **IV.I.1.d.iv.** For a defect or other problem detected during equipment inspections, repairs must be performed within the time frames outlined in Table 1 of the Permit Attachment Appendix XXIII, Subpart FF Compliance Plan.
- **IV.I.1.e.** For all major repairs to eliminate leaks or restore the integrity of the tank systems, the Permittees must obtain a certification by an independent, qualified, registered Professional Engineer in accordance with 40 CFR § 270.11(d) and notify the Director that the repaired system is capable of handling hazardous wastes without release for the intended life of the system before returning the system to service. Examples of major repairs are: installation of an internal liner, repair of a ruptured tank, or repair or

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replacement of a secondary containment vault. [See 40 CFR § 264.196(f).]

IV.I.2. In the event a defect is detected during any of the inspections required under Permit Condition IV.H.8., the Permittees shall repair each defect detected in accordance with 40 CFR §§ 264.1084(k)(1) and (2). [See 40 CFR §§ 264.1084(k)(1) and (2).]

IV.J. RECORDKEEPING AND REPORTING

- **IV.J.1.** For any existing tank system that does not have secondary containment meeting the requirements of 40 CFR § 264.193, the Permittees must maintain and keep on file at the Facility a written assessment in accordance with 40 CFR § 264.191. [See 40 CFR § 264.191.]
- IV.J.2. Unless a leak or spill of hazardous waste is exempted from the reporting requirements in accordance with 40 CFR § 264.196(d)(2), the Permittees shall report to the Director, within 24 hours of detection, regarding any leak or spill of hazardous waste to the environment. [See 40 CFR §§ 264.196(d)(1) and (2).]
- **IV.J.3**. Within 30 days of detecting a release to the environment from a tank system or secondary containment system, the Permittees shall report the following information to the Director:
 - **IV.J.3.a.** Likely route of migration of the release;
 - **IV.J.3.b.** Characteristics of the surrounding soil (including soil composition, geology, hydrogeology, and climate);
 - **IV.J.3.c.** Results of any monitoring or sampling conducted in connection with the release, if available. (If sampling or monitoring data relating to the release are not available within 30 days, these data must be submitted to the Director as soon as they become available.);
 - **IV.J.3.d.** Proximity of down gradient drinking water, surface water, and populated areas; and
 - **IV.J.3.e.** Description of response actions taken or planned. [See 40 CFR § 264.196(d)(3).]

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- **IV.J.4.** If the Permittees have repaired a tank system in accordance with permit condition IV.I.1.e., the Permittees shall maintain the required Professional Engineer certification in the operating record at the Facility until closure of the Facility is completed. [See 40 CFR § 264.196(f).]
- **IV.J.5.** The Permittees shall maintain at the Facility a record of the most recent results of leak tests and integrity tests for each tank system or secondary containment system conducted in accordance with this Permit. [See 40 CFR §§ 264.193(i)(4).]
- **IV.J.6.** The Permittees shall document compliance with Permit Conditions IV.H.1. through IV.H.6 and IV.H.8. and place this documentation in the operating record for the Facility for at least three (3) years from the date such inspection or test occurs. The Permittees shall maintain records of the Ultrasonic Thickness testing for at least 5 years from the date such testing occurs. [See 40 CFR §§ 264.73 and 264.195(h).]
- **IV.J.7.** The Permittees shall maintain a copy of the Permit Attachment Subpart FF Compliance Plan in the Facility's operating record for the operating life of the facility.
- IV.J.8. In accordance with 40 CFR § 264.1064, the Permittees shall maintain documentation pertaining to WS-1, WS-2 and WS-3 as required by either 40 CFR § 61.355 or 40 CFR §§ 264.1060 and 264.1064, as elected in the [revised] Subpart BB Compliance Plan, Permit Attachment Appendix XIX, pursuant to Permit Condition I.K.10. [See 40 CFR § 61.355 and 40 CFR §§ 264.1060 and 264.1064. See also Permit Condition I.K.10.]

IV.K. SPECIAL TANK PROVISIONS FOR IGNITABLE OR REACTIVE WASTES

- **IV.K.1.** The Permittees shall not place ignitable waste in a tank or secondary containment system unless one of the following conditions is met:
 - **IV.K.1.i.** The waste is treated, rendered, or mixed before or immediately after placement in the tank system so that it meets the requirements of 40 CFR § 264.198(a)(1)(i) and (ii);
 - **IV.K.1.ii.** The waste is stored or treated in such a way that it is protected from any material or conditions that may cause the waste to ignite; or

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- **IV.K.1.iii.** The tank system is used solely for emergencies. [See 40 CFR § 264.198(a). See also Permit Condition II.H.1.]
- IV.K.2. If ignitable waste is stored or treated in a tank system at the Facility, the Permittees must comply with the requirements for the maintenance of protective distances between the waste management area and any public ways, streets, alleys, or an adjoining property line that can be built upon, as required in Tables 2-1 through 2-6 of the National Fire Protection Association's "Flammable and Combustible Liquids Code," (1977 or 1981). [See 40 CFR § 264.198(b). See also Permit Condition II.H.1.]

IV.L. SPECIAL TANK PROVISIONS FOR INCOMPATIBLE WASTES

- **IV.L.1.** The Permittees shall not place incompatible wastes, or incompatible wastes and materials, in the same tank system or the same secondary containment system, unless they are doing so in compliance with 40 CFR § 264.17(b) and Permit Condition II.H.1. [See 40 CFR §§ 264.17(b) and 264.199(a).]
- IV.L.2. The Permittees shall not place hazardous waste in a tank system that has not been decontaminated and that previously held an incompatible waste or material, unless they are doing so in compliance with 40 CFR § 264.17(b) and Permit Condition II.H.1. [See 40 CFR §§ 264.17(b) and 264.199(b).]

IV.M. CLOSURE AND POST-CLOSURE CARE

- **IV.M.1.** At closure of each tank system, the Permittees shall follow the procedures in the Closure Plan and in Permit Attachment Section I and Permit Attachment Appendix XV. [See 40 CFR § 264.197(a). See also Permit Attachment Section I and Permit Attachment Appendix XV.]
- **IV.M.2.** If the Permittees demonstrate that not all contaminated soils can be practically removed or decontaminated in accordance with the Closure Plan, then the Permittees shall close such tank system(s) and perform post-closure care following the contingent procedures in the Closure Plan (Permit Attachment Section I and Permit Attachment Appendix XV) and in Permit Condition II.N. [See 40 CFR § 264.197(b). See also Permit Attachment Section I and Permit Attachment Appendix XV.]
- **IV.M.3.** If the secondary containment for Hopper H-1 is not implemented within a year

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from the effective date of this Permit, the contingent closure plan and proof of financial responsibility requirements of 40 CFR § 264.197(c) shall be implemented in accordance with Permit Condition I.K.9. [See also Permit Condition IV.F.6.b.iii. and 40 CFR § 264.197(c).]

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MODULE V

THERMAL TREATMENT UNIT/CARBON REGENERATION FURNACE

V.A. APPLICABILITY

- V.A.1. This module contains Permit Conditions for the operating Carbon Regeneration Furnace (RF-2), which consists of a five hearth furnace and the Afterburner (AB-2), and is classified as a miscellaneous unit, as defined in 40 CFR § 260.10. RF-2 and AB-2 are subject to the requirements set forth at 40 CFR Part 264, Subpart X. The RF-2 unit is used to regenerate spent activated carbon via thermal treatment. Process flow diagrams and a description of the carbon reactivation process are included in Permit Attachment Appendix VI. [See 40 CFR §§ 260.10, 264.600 to 264.603, and 270.23.]
- V.A.2. This module also includes permit conditions for the Air Pollution Control Equipment (APCE) for RF-2, AB-2, ancillary equipment of RF-2 and AB-2, and the feed system from Tank T-18. The APCEs are the Quench (Gas Cooling)/Venturi Scrubber (SC-11), Caustic Packed Bed Scrubber (SC-12), Wet Electrostatic Precipitator (W-11), Induced Draft Fan, and Stack. The five hearth furnace (RF-2), AB-2, and all their associated components (ancillary equipment [e.g., piping, weigh belt] and the APCEs) are collectively referred to herein as the "RF-2." [See 40 CFR §§ 264.600 to 264.603, and 270.23.]
- **V.A.3.** RF-2 is subject to the conditions and requirements set forth in this Module. Based on the authority contained in the regulations at 40 CFR §§ 264.600 *et seq.*, additional requirements are included in this Module to ensure protection of human health and the environment. These additional requirements are also based on 40 CFR Part 264 Subpart O, (Incinerators) and 40 CFR Part 63, Subpart EEE (Hazardous Waste Combustor, Maximum Achievable Control Technology Standards). [See 40 CFR §§ 63.1200 *et seq.*, 260.10, 264.600 to 264.603, and 270.23.]

V.B. GENERAL REQUIREMENTS FOR RF-2

V.B.1. Waste Processing and Handling Requirements

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- **V.B.1.i.** The Permittees receive hazardous wastes, *i.e.*, spent activated carbon from different generators, for treatment in RF-2. The Permittees also generate spent activated carbon onsite that constitutes a hazardous waste. The Permittees shall abide by the requirements established in Permit Condition V.B.2. for all wastes permitted for treatment in RF-2.
- **V.B.1.ii.** The Permittees shall ensure that carbon loading operations are safe for field workers engaged in these operations.
- **V.B.1.iii.** The Permittees shall ensure that the residence time for the solid carbon in the RF-2 is a minimum of 38 minutes at a shaft speed of 1 rotation per minute (rpm).

V.B.2. Permitted Wastes for Treatment in RF-2

- **V.B.2.i.** The Permittees shall only treat in RF-2 spent carbon generated off-site containing hazardous waste identified in waste codes that are listed on Table II-2 in Module II of this permit.
- **V.B.2.ii.** The Permittees may also treat in RF-2 spent activated carbon generated onsite as a result of the Permittees' treatment activities. The sources of on-site generated spent activated carbon shall be limited to the adsorbers that are used for control of gaseous emissions from the hazardous waste storage tanks (Tanks T-1, T-2, T-5, and T-6). [See Permit Attachment Appendix IV.]

V.B.3. Prohibited Wastes for Treatment in RF-2

V.B.3. The Permittees shall not accept, store or treat in RF-2 any hazardous waste other than as set forth in Permit Condition II.H.

V.C. OPERATION OF RF-2

V.C.1. General Operating Conditions

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- V.C.1.i. The Permittees shall only feed wastes at or below the feed rates shown in Table V-1. The Permittees are not authorized to treat or feed in the RF-2 spent activated carbon that contains hazardous constituents in concentrations exceeding permissible feed limits. The applicable permissible feed limits are set forth in Permit Condition Table V-1. Periodic Performance Demonstration Tests, performed in accordance with Permit Condition I.K.1., shall also be used to demonstrate compliance with each of the parameters set forth in Table V-1, Performance Limits.
- **V.C.1.ii.** The Permittees are not authorized to treat or feed spent activated carbon that contains hazardous constituents in concentrations that would cause exceedances of permissible emission limits shown in Table V-1. In addition, for each of the parameters listed in Table V-1, the Permittees shall ensure that the permissible emission limit shown in Table V-1 is not exceeded. [See 40 CFR § 63.1209.]

Table V-1 - PERFORMANCE LIMITS

Parameter	Emission Limits from	How to Ensure Emission
	40 CFR § 63.1219	Limits are Met ¹
Low Volatile Metals ²	Emission Limits	Feed Rate Limit:
	$92 \mu\mathrm{g}^3/\mathrm{dscm}^4$	1.5 lbs/hr ⁵ (12 hour rolling
		average)
Semi Volatile Metals ⁶	Emission Limit:	Feed Rate Limit:
	230 μg/dscm	0.1 lbs/hr (12 hour rolling
		average)
Carbon Monoxide	Emission Limit: 100 ppmdv ⁷ as	CEMS ⁸ at the stack.
	corrected to 7% oxygen.	

¹ The Permittees must comply with 40 CFR § 63.1209 for monitoring for all Emission Limits below. See Permit Condition V.C.1.IX.

² Low volatile metal feed rate limits apply to arsenic, beryllium, and chromium, combined.

³ μg – micrograms.

⁴ dscm - dry standard cubic meter.

⁵ lbs/hr – pounds per hour.

⁶ Semi-volatile metal feed rate limits apply to lead and cadmium, combined.

⁷ ppmdv - parts per million on a dry volumetric basis.

⁸ CEMS – Continuous Emissions Monitoring System.

Parameter	Emission Limits from	How to Ensure Emission
	40 CFR § 63.1219	Limits are Met ¹
Total Hydrocarbons	Emission Limit:	Performance Demonstration
	10 ppmdv as corrected to 7%	Tests (PDT). 9
	oxygen.	
Chlorine/ Chloride	Emission Limits:	Feed Rate Limit:
	32 ppmdv	60 lbs/hr
		(12 hour rolling
		average).
Mercury ¹⁰	Emission Limit:	Feed Rate Limit:
	130 μg/dscm	1.8E-3 lbs/hr
		(12 hour rolling
		average).
Particulate Matter	Emission Limits:	PDT
	0.013 gr/dscf ¹¹ corrected to 7	
	percent oxygen.	
Dioxins and Furans	Emission Limit:	PDT
	0.40 ng TEQ ¹² /dscm, corrected	
	to 7 percent oxygen.	
Sulfur Oxides	Emission Limit:	Feed Rate Limit as set forth
	30.01 tpy	in revised WAP required
		pursuant to Permit Condition
		I.K.11. ¹³
Nitrogen Oxides	Emission Limit:	Monitoring of the Natural
	22.22 tpy	Gas usage and PDT.

⁹ The rate of emissions below the applicable emission limit will be demonstrated during the PDTs.

¹⁰ The mercury feed rate to be calculated per 40 CFR § 264.1209(1)(1)(i)

¹¹ gr/dscf - grains per dry standard cubic foot

¹² TEQ – Toxic Equivalency, which means the international method of expressing toxicity equivalents for dioxins and furans as defined in U.S. EPA, Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 Update, March 1989. ¹³ This limit will not be in effect until the WAP has been modified in accordance with Permit Condition I.K.11.

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- V.C.1.iii. Throughout operation, the Permittees shall conduct analysis in accordance with the Waste Analysis Plan, Permit Attachment C and Permit Attachment Appendix IV and Permit Condition II.C. to verify that waste fed to RF-2 is within the physical and chemical composition limits specified in this Permit. [See 40 CFR §§ 264.341(b) and 270.23.]
- **V.C.1.iv.** The Permittees are required to inspect, safely operate, and properly monitor RF-2 in accordance with the conditions of this Permit to protect human health and the environment during operation, maintenance, startup, shut-down and malfunction of RF-2.
- **V.C.1.v.** The Permittees shall maintain RF-2 in accordance with the design plans, design specifications, stack layout drawing, and maintenance procedures contained in Permit Attachment B, Permit Attachment Appendices VI and X.
- **V.C.1.vi.** The operating parameters are grouped into the following categories: Groups A1, A2, B and C; and are categorized as defined in EPA guidance document: Handbook: Guidance on Setting Permit Conditions and Reporting Trial Burn Results, (EPA/625/6-89/019), Table 2-1.
 - V.C.1.vi.a. Group A1 parameters shall be continuously monitored and recorded, and shall be interlocked with the automatic waste feed cutoff system. Group A1 parameter limits were established from test operating data, and are used to ensure that system operating conditions are equal to or are more rigorous than those demonstrated during the test.
 - V.C.1.vi.b. Group A2 parameters shall be continuously monitored and recorded, and shall be interlocked with the automatic waste feed cutoff system. Group A2 parameter limits have been established based on regulatory requirements rather than on the test operating conditions, e.g., the maximum stack CO concentration.
 - **V.C.1.vi.c.** Group B parameters shall be continuously monitored and recorded, but are not required to be interlocked with the

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automatic waste feed cutoff system. Operating records are required to ensure that established limits for these parameters are not exceeded. The Group B parameter limits were established based on the operation of the system during the performance test.

V.C.1.vi.d. Group C parameters shall be continuously monitored and recorded, but are not required to be interlocked with the automatic waste feed cutoff system. Group C parameter limits are based on manufacturer's recommendations, operational safety, and good operating practice considerations rather than on the test operating conditions, e.g., the minimum packed bed scrubber pressure differential.

V.C.1.vii. The following Table V-2 includes critical operating conditions. The term "AWFCO" in the comments column indicates that the operating parameter shall be interlocked with the automatic waste feed cutoff system. The Permittees shall comply with the Operating Limits in Table V-2.

Table V-2 - OPERATING LIMITS AND PARAMETERS

	Permit	
Control Parameters 14	Limit	Comments
GROUP A1 PARAMETERS		
Maximum spent carbon feed rate (lbs/hr)	3049	Block hour AWFCO
Minimum afterburner temperature (°F)	1760	Hourly rolling average AWFCO
Minimum hearth #5 temperature (°F)	1350	Hourly rolling average AWFCO
Minimum venturi scrubber pressure differential (in. w.c.)	18	Hourly rolling average AWFCO
Minimum quench/venturi scrubber total liquid flow rate (gpm)	75	Hourly rolling average AWFCO
Minimum packed bed scrubber pH	4.4	Hourly rolling average AWFCO

¹⁴ Groups A1, A2, B, and C Parameters are explained in detail in Permit Condition V.C.1.vi.

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	Permit	
Control Parameters ¹⁴	Limit	Comments
Minimum packed bed scrubber liquid flow rate	63	Hourly rolling average
(gpm)		AWFCO
Minimum wet scrubber blowdown flow rate (gpm)	58	Hourly rolling average AWFCO
Minimum WESP secondary voltage (kVDC)	22	Hourly rolling average AWFCO
Maximum stack gas flow rate (acfm)	9,550	Hourly rolling average AWFCO
GROUP A2 PARAMETERS		
Maximum stack gas carbon monoxide (ppmdv, @7% oxygen) ¹⁵	100	Hourly rolling average AWFCO
GROUP B PARAMETERS		
Allowable hazardous constituents	All except	Class 1 POHC demonstrated
	dioxin	to meet the 99.99%
	wastes and	Destruction Removal
	TSCA	Efficiency per Permit
	PCBs	Attachment Appendix V
Maximum total chlorine and chloride feed rate (lbs/hr)	60	12-hour rolling average
Maximum mercury feed rate (lbs/hr)	1.8E-3 ¹⁶	12-hour rolling average
Maximum semivolatile metal (Cd + Pb) feed rate (lbs/hr)	1.0E-01	12-hour rolling average
Maximum low volatility metal (As + Be + Cr) feed rate (lbs/hr)	1.5E+00	12-hour rolling average
GROUP C PARAMETERS		
Minimum packed bed scrubber pressure differential (in. w.c.)	0.1	Hourly rolling average

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As = Arsenic

AWFCO = Automatic Waste Feed Cutoff

Be = Beryllium

Cd = Cadmium

<sup>&</sup>lt;sup>15</sup> AWFCO interlock is not active during the daily continuous emission monitor CEM calibration period.

 $<sup>^{16}</sup>$  1.8E-3 = 1.8 x 10-3.

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Cr = Chromium

lbs/hr = pounds per hour

WESP = Wet electrostatic precipitator

Pb = Lead

POHC = Principal organic hazardous constituent

TSCA = Toxic Substances Control Act

PCBs = Polychlorinated Biphenyls

in. w.c. = inches of water column

kVDC = kilovolts Direct Current

gpm = gallons per minute

acfm = actual cubic feet per minute

ppmdv = parts per million on a dry volumetric basis in the stack gas

- **V.C.1.viii.** Waste shall not be fed to the RF-2 if any of the continuous monitoring instruments malfunction or otherwise fail to operate properly.
- **V.C.1.ix.** All monitoring must be conducted in accordance with the requirements of 40 CFR § 63.1209 applicable to incinerators. [See 40 CFR § 63.1209.]
- **V.C.1.x.** Failure to comply with the operating requirements in this Permit is failure to ensure compliance with the emission standards included in this Permit. [See 40 CFR § 63.1206(c)(1)(iii).]

## V.C.2. Start Up, Shutdown, and Malfunction Plan

- V.C.2.a. The Permittees shall implement the Start-up, Shutdown, and Malfunction Plan (SSMP) to minimize emissions of toxic compounds from startup, shutdown, and malfunction events. The Permittees' SSMP is found in the Application in Appendix XXII and is incorporated into this Permit by this reference as Permit Attachment Appendix XXII.
- **V.C.2.b.** The Permittees shall follow the requirements of the SSMP, whenever RF-2 is in non-compliance with the provisions of this Permit.
- **V.C.2.c.** The Permittees shall submit to the Director a request for a Permit Modification in accordance with Permit Condition I.G.7., with an accompanying revised SSMP whenever they determine that one or more changes to the SSMP are appropriate.

This draft permit has been created in accordance with 40 CFR § 124.6 as part of US EPA's proposed RCRA hazardous waste permit decision for the hazardous waste facility (EPA ID # AZD982441263) located on trust land of the Colorado River Indian Tribes at 2523 Mutahar Street, Parker, Arizona, 85344, and operated by Evoqua Water Technologies LLC

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**V.C.2.d.** The Permittees must maintain a copy of the SSMP in the operating record at the Facility for the operating life of RF-2.

# V.C.3. Monitoring Equipment

The Permittees shall maintain, calibrate, and operate monitoring equipment and record the data required by this Permit while processing hazardous waste.

## V.C.4. Regulatory Compliance Instrumentation

**V.C.4.i.** The Permittees shall operate RF-2 and calibrate the RF-2-related instrumentation listed in Table V-3 pursuant to the parameters – including the frequencies -- set forth in Table V-3. Quality assurance and quality control shall be done in accordance with 40 CFR Part 60 QA/QC requirements.

TABLE V-3 - REGULATORY COMPLIANCE INSTRUMENTATION

| Parameter                           | Identification Number of Sensor/ Transmitter <sup>17</sup> | Instru-<br>ment<br>Type | Units  | Range  | Operating<br>Point or<br>Range             | Calibration<br>Frequency | Averaging     | AWFCO<br>(Y/N) |
|-------------------------------------|------------------------------------------------------------|-------------------------|--------|--------|--------------------------------------------|--------------------------|---------------|----------------|
| Feed rate of spent activated carbon | WE/WT-427                                                  | Weigh<br>cell           | lbs/hr | 0-6000 | Less than or equal to 3049                 | Semi-<br>annually        | 1-hr<br>Block | Y              |
| Total feed rate of mercury          | Computer                                                   | Calcu-<br>lated         | lbs/hr | NA     | 0 – Less<br>than or<br>equal to<br>1.8E-03 | NA                       | 12-hr<br>RA   | N              |
| Total feed rate of SVM              | Computer                                                   | Calcu-<br>lated         | lbs/hr | NA     | Less than or equal to $0-1.0$              | NA                       | 12-hr<br>RA   | N              |

<sup>&</sup>lt;sup>17</sup> Instrument identification from P&IDs.

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| Parameter                                                       | Identification Number of Sensor/ Transmitter <sup>17</sup> | Instru-<br>ment<br>Type                                     | Units    | Range  | Operating<br>Point or<br>Range                          | Calibration<br>Frequency | Averaging   | AWFCO<br>(Y/N) |
|-----------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|----------|--------|---------------------------------------------------------|--------------------------|-------------|----------------|
| Total feed<br>rate of LVM                                       | Computer                                                   | Calcu-<br>lated                                             | lbs/hr   | NA     | Less than or equal to $0 - Less$ than or equal to $1.5$ | NA                       | 12-hr<br>RA | N              |
| Afterburner gas temperature                                     | TE-464A/B                                                  | Thermo-<br>couple                                           | °F       | 0-2400 | Greater than or equal to 1760                           | Semi-<br>annually        | 1-hr RA     | Y              |
| Venturi<br>scrubber<br>pressure<br>differential                 | PDIT-556                                                   | Pressure<br>sensor                                          | in. w.c. | 0-50   | Greater than or equal to 18                             | Annually                 | 1-hr RA     | Y              |
| Venturi / Quench scrubber recycle liquid flow rate (Total Flow) | FI-562<br>(Total of<br>FE/FIT-553,<br>554, & 555)          | Sum of<br>Magnetic<br>flow<br>meters<br>(Dynac<br>Function) | gpm      | 0-656  | Greater than<br>or equal to<br>75                       | Annually                 | 1-hr RA     | Y              |
| Packed bed<br>scrubber pH                                       | AE/AIT-590                                                 | pH probe                                                    | рН       | 0-14   | Greater than or equal to 4.4                            | Quarterly                | 1-hr RA     | Y              |
| Packed bed<br>scrubber<br>recycle<br>liquid flow<br>rate        | FE/FIT-552                                                 | Magnetic<br>flow<br>meter                                   | gpm      | 0-200  | Greater than 63                                         | Annually                 | 1-hr RA     | Y              |

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| Parameter                                          | Identification Number of Sensor/ Transmitter <sup>17</sup> | Instru-<br>ment<br>Type                | Units                          | Range                 | Operating<br>Point or<br>Range | Calibration<br>Frequency         | Averaging | AWFCO<br>(Y/N) |
|----------------------------------------------------|------------------------------------------------------------|----------------------------------------|--------------------------------|-----------------------|--------------------------------|----------------------------------|-----------|----------------|
| Packed bed<br>scrubber<br>pressure<br>differential | PDIT-560                                                   | Pressure<br>sensors                    | in. w.c.                       | 0-10                  | Greater than 0.1               | Annually                         | 1-hr RA   | N              |
| Scrubber<br>blowdown<br>flow rate                  | FE/FIT-605                                                 | Magnetic<br>flow<br>meter              | gpm                            | 0-691                 | Greater than 58                | Annually                         | 1-hr RA   | Y              |
| WESP<br>secondary<br>DC voltage                    | EI-558                                                     | Voltmeter                              | kV DC                          | 0-80                  | 14-22                          | NA                               | 1-hr RA   | Y              |
| Stack gas<br>flow rate                             | FE/FIT-700                                                 | Ultrasonic<br>meter                    | acfm                           | Not<br>avail-<br>able | Less than or equal to 9,550    | Semi-<br>annually                | 1-hr RA   | Y              |
| Stack gas<br>carbon<br>monoxide <sup>18</sup>      | AE-575                                                     | Non-<br>dispersive<br>infrared<br>CEMS | ppmdv<br>@7%<br>O <sub>2</sub> | 0-100<br>0-1000       | Less than<br>100               | Daily/<br>Quarterly/<br>Annually | 1-hr RA   | Y              |
| Stack gas<br>oxygen 19                             | AE-576                                                     | Para-<br>magnetic<br>CEMS              | vol%,<br>dry                   | 0-25                  | 7                              | Daily/<br>Quarterly/<br>Annually | None      | N              |
| Weigh belt                                         |                                                            |                                        |                                |                       |                                | Calibrated<br>Semi-<br>Annually  |           |                |

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RA = Rolling average as defined in 40 CFR § 63.1209(a)(6). AWFCO = Automatic Waste Feed Cut Off.

¹⁸ Continuous Emissions Monitoring System (CEMS) calibrations shall include daily zero and span check, quarterly cylinder gas audit, and annual performance specification test.

¹⁹ Continuous Emissions Monitoring System (CEMS) calibrations shall include daily zero and span check, quarterly cylinder gas audit, and annual performance specification test.

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SVM = Semi-Volatile Metals

LVM = Low-Volatile Metals

in. w.c. = inches of water column

kVDC = kilovolts Direct Current

gpm = gallons per minute

acfm = actual cubic feet per minute

ppmdv @ 7% O₂ = parts per million on a dry volumetric basis in the stack gas as corrected to 7% oxygen

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**V.C.4.ii.** The Permittees must keep the necessary parts for routine repairs of the continuous monitoring system (CMS) equipment, including the CEMS equipment, readily available.

**V.C.4.iii.** The Permittees shall conduct the CMS performance and test protocols, including all record keeping and reporting, set forth in 40 CFR § 63.8.

#### V.C.5. Automated Waste Feed Cutoff Requirements

- **V.C.5.i.** The Permittees shall operate RF-2 with a functioning automatic waste feed cutoff system (AWFCO) that immediately and automatically cuts off the hazardous waste feed to RF-2 in accordance with 40 CFR § 63.1206(c)(3). [See 40 CFR § 63.1206(c)(3).]
- **V.C.5.ii.** The Permittees shall automatically cut off the hazardous waste feed to RF-2 if any of the following occur:
  - **V.C.5.ii.a.** Operating limits for Groups A1 and A2 parameters listed in Table V-2 or emission limits listed in Table V-4 are not met.
  - **V.C.5.ii.b.** When the span value of any CMS detector, except a CEMS, is met or exceeded; [See 40 CFR § 63.1206(c)(3)(i)(B).]

[Note: Parameter CMSs are process instruments that continuously monitor and record parameter data from the operation of the carbon reactivation process. The instruments consist of weigh belts, flow meters, pressure transducers, thermocouples and other devices that collect process information on key regulatory parameters.]

**V.C.5.ii.c.** Upon malfunction of a CMS; [See 40 CFR § 63.1206(c)(3)(i)(C).] or

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- **V.C.5.ii.d.** When any component of the AWFCO system fails. [See 40 CFR § 63.1206(c)(3) (i)(D).]
- **V.C.5.iii.** During an AWFCO, the Permittees must continue to duct combustion gases to the air pollution control equipment while hazardous waste remains in RF-2 (*i.e.*, if the hazardous waste residence time has not transpired since the hazardous waste feed cutoff system was activated). After an AWFCO, the remainder of the system shall continue to operate until residence time has transpired to ensure all waste remaining in the system has been processed with the APCE still operational. [See 40 CFR § 63.1206(c)(3)(ii).]
- **V.C.5.iv.** In the event of an AWFCO, the Permittees shall implement the SSMP and operate RF-2 under the provisions of the SSMP. [See 40 CFR §§ 63.1206(c)(2) and (c)(3).]
- **V.C.5.v.** During malfunctions, the Permittees shall comply with the AWFCO requirements of the SSMP and 40 CFR § 63.1206(c)(3), except for sections 63.1206(c)(3)(v) and (vi). [See 40 CFR § 63.1206(c)(2)(v)(A)(1).]
  - V.C.5.v.a. If the Permittees fail to meet an emission standard listed in Table V-4 or a Group A-1 or Group A-2 parameter specified in Table V-2, the AWFCO system must immediately and automatically cut off the hazardous waste feed. If the malfunction itself prevents immediate and automatic cut off of the hazardous waste feed, however, the Permittees must cease feeding hazardous waste as quickly as possible. [See 40 CFR § 63.1206(c)(2)(v)(A)(1).]
    - **V.C.5.v.b.(1).** The AWFCO requirements continue to apply during a malfunction. If an exceedance of an emission standard listed in Table V-4 or a Group A-1 or Group A-2 parameter specified in Table V-2 occurs, the Permittees shall undertake the corrective measures prescribed in the SSMP. [See 40 CFR § 63.1206(c)(2)(v)(A)(2).]
    - **V.C.5.v.b.(2).** For the purposes of determining the duration of an exceedance as a result of a malfunction (including power outages), the exceedance will begin once an emission standard or operating limit is exceeded

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while spent carbon is in RF-2. The exceedance will end once the spent activated carbon has cleared RF-2 or once the emissions and operating parameters are reestablished within their respective permit limits, whichever occurs sooner. Thus one incident may constitute one exceedance, which may include multiple emissions or operating parameters not being met.

- **V.C.5.v.c.** For each set of 10 exceedances of an emission standard or operating requirement while hazardous waste remains in the combustion chamber (*i.e.*, when the hazardous waste residence time has not transpired since the hazardous waste feed was cutoff) during a 60-day block period, the Permittees must comply with the requirements of 40 CFR § 63.1206(c)(2)(v)(A)(3) as follows:
  - **V.C.5.v.c.(1).** Within 45 days of the 10<sup>th</sup> exceedance, the Permittees must complete an investigation of the cause of each exceedance and evaluation. The evaluation is to include approaches to minimize the frequency, duration, and severity of each exceedance, and revise the SSMP as warranted by the evaluation to minimize the frequency, duration, and severity of such exceedances. [See 40 CFR § 63.1206(c)(2)(v)(A)(3)(i).]
  - V.C.5.v.c.(2). The Permittees must record the results of the investigation and evaluation in the operating record, and include a summary of the investigation and evaluation, and any changes to the SSMP in an excess emissions report that meets the requirements of 40 CFR § 63.10(e)(3) but need only submitted to the Director for approval in accordance with Permit Condition V.C.5.v.c.(3) after each 10<sup>th</sup> exceedance as described in Permit Condition V.C.5.v.c.(1). [See 40 CFR § 63.1206(c)(2)(v)(A)(3)(ii).]
  - **V.C.5.v.c.(3).** The Permittees must submit to the Director for approval in accordance with Permit Condition I.G.5. an excess emissions report that otherwise meets the requirements of 40 CFR § 63.10(e)(3) within 60 days following each 10<sup>th</sup> exceedance as described in Permit Condition V.C.5.v.c.(1). [See 40 CFR § 63.1206(c)(2)(v)(A)(3)(ii).]

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#### V.C.5.v.d.

If, after any AWFCO, there is an exceedance of a parameter in Table V-2 required to be interlocked with the AWFCO system, or when an exceedance of a Group A-1 or Group A-2 parameter specified in Table V-2 occurs, irrespective of whether the exceedance occurred while hazardous waste remained in the combustion chamber (*i.e.*, whether the hazardous waste residence time has transpired since the hazardous waste feed cutoff system was activated), the Permittees must investigate the cause of the AWFCO, take appropriate corrective measures to minimize future AWFCOs, and record the findings and corrective measures in the Facility's operating record. [See 40 CFR§ 63.1206(c)(3)(v).]

**V.C.5.vi.** The Permittees shall not feed waste carbon during startups and shutdowns. [See 40 CFR § 63.1206(c)(2)(v)(B).]

### V.C.5.vii. Restarting Waste Feed

The Permittees must not start feeding waste until the operating parameters specified in Table V-2 and the CEMS have returned to within the operating limits. [See 40 CFR § 63.1206(c)(3)(iii).]

#### **V.C.5.viii.** Failure of an AWFCO

If the AWFCO system fails to automatically and immediately cut off the flow of hazardous waste upon exceedance of a parameter in Table V-2 required to be interlocked with the AWFCO system, or when an exceedance of a Group A-1 or Group A-2 parameter specified in Table V-2 occurs, the Permittees must cease feeding hazardous waste as quickly as possible. [See 40 CFR § 63.1206(c)(3)(iv).]

#### V.C.5.ix. <u>Testing AWFCO</u>

The Permittees must test the AWFCO system and associated alarms at least monthly to verify operability. The Permittees must document and record AWFCO operability test procedures and results in the Facility's

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operating record. [See 40 CFR §§ 63.1206(c)(3)(vii) and 264.347(c) and (d).]

### **V.C.6.** Burning of Natural Gas

- **V.C.6.i**. RF-2 (including all its APCE and ancillary equipment) shall be powered by natural gas only. Alternative fuel cannot be used unless this permit is modified. Any such modification request may require additional performance testing and/or an updated risk analysis.
- **V.C.6.ii.** The amount of natural gas burned in RF-2 (including all its APCE and ancillary equipment) shall be recorded monthly in millions of standard cubic feet (MMSCF) and such records shall be maintained in the operating record.
- V.C.6.iii. Each month, the Permittees shall calculate and record in the operating record the 12-month rolling sum in tons per year of nitrogen oxides (NOx) emissions from RF-2 (including all its APCE and ancillary equipment), based on: (1) the amount of natural gas burned in MMSCF; and (2) the emission factor in pounds per MMSCF, based on the most recent Performance Demonstration Test.

#### **v.d.** AIR POLLUTION CONTROL EQUIPMENT

**V.D.1.** The Permittees shall not exceed the Performance and Emission Limits specified in Table V-4.

#### TABLE V-4 - PERFORMANCE AND EMISSION LIMITS FOR RF-2

Parameter	Purpose	Limit <sup>20</sup>
Destruction and Removal Efficiency (DRE)	To limit organic emissions	99.99%

<sup>&</sup>lt;sup>20</sup> All values except DRE are corrected to 7% oxygen in the stack gas.

Parameter	Purpose	Limit <sup>20</sup>
Particulate Matter (PM)	To limit particulate matter emissions	0.013 gr/dscf <sup>21</sup>
HCl/Chlorine	To limit HCl/chlorine combined emissions	32 ppmdv <sup>22</sup>
$\mathrm{SO_2}^{23}$	To limit SO <sub>2</sub> emissions	30.01 tons per consecutive 12 month period
NO <sub>2</sub> <sup>24</sup>	To limit NO <sub>2</sub> emissions	22.22 tons per consecutive 12 month period
Mercury	To limit mercury emissions	$130 \mu g/dscm^{25}$
Semi volatile metals <sup>26</sup>	To limit Pb and Cd emissions	230 μg/dscm
Low volatile metals <sup>27</sup>	To limit As, Be and Cr emissions	92 μg/dscm
Dioxin and furans	To limit dioxin and furan emissions	0.4 ηg TEQ/dscm <sup>28 29</sup>
Carbon monoxide <sup>30</sup>	To ensure good combustion	100 ppmdv
Total hydrocarbons	To limit organic emissions	10 ppmdv

**V.D.2.** The Permittees shall continuously operate, and maintain the hearth, afterburner, Quench (Gas Cooling)/Venturi Scrubber (SC-11), Caustic Packed Bed Scrubber (SC-12), Wet Electrostatic Precipitator (W-11), Induced Draft Fan, and Stack.

<sup>21 &</sup>quot;gr/dscf" is grains per dry standard cubic foot of stack gas.22 "ppmdv" is parts per million on a dry volumetric basis in the stack gas.

<sup>&</sup>lt;sup>23</sup> Based on the Tribal New Source Rule registration by Evoqua dated Aug 2012.

<sup>&</sup>lt;sup>24</sup> Based on the Tribal New Source Rule registration by Evoqua dated Aug 2012.

<sup>&</sup>lt;sup>25</sup> "µg/dscm" is micrograms per dry standard cubic meter of stack gas.

<sup>&</sup>lt;sup>26</sup> Semi-volatile metals are lead and cadmium.

<sup>&</sup>lt;sup>27</sup> Low volatile metals are arsenic, beryllium and chromium.

<sup>&</sup>lt;sup>28</sup> "ngTEQ/dscm" is nanograms TEQ per dry standard cubic meter.

<sup>&</sup>lt;sup>29</sup> TEQ means the international method of expressing toxicity equivalents for dioxins and furans as defined in U.S. EPA, Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-pdioxins and -dibenzofurans (CDDs and CDFs) and 1989 Update, March 1989.

<sup>&</sup>lt;sup>30</sup> 100 ppm by volume on a dry gas basis using a one hour rolling average.

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- **V.D.3.** The Permittees shall perform any necessary operations and air pollution control equipment maintenance to minimize emissions so that emissions are at or below the emission limits specified in this Permit.
- **V.D.4.** The Permittees shall, to the extent practicable, maintain and operate equipment in a manner consistent with good air pollution control practice for minimizing emissions. [See 40 CFR § 61.12(c).]
- **V.D.5.** The Permittees shall maintain the APCE in accordance with the design plans and specifications contained in Permit Attachment Appendices VI and X.

#### **V.E.** FUGITIVE EMISSIONS CONTROLS

- **V.E.1.** The Permittees shall control fugitive emissions from the combustion zone in accordance with 40 CFR §§ 61.348(e), 63.1206(c)(5), and 264.345(d). [See 40 CFR §§ 61.348(e), 63.1206(c)(5), and 264.345(d).]
- **V.E.2.** The Permittees shall ensure that fugitive emissions from process units and ancillary components (tanks, furnace, APCEs, and piping) do not exceed 500 ppmv (parts per million by volume) of VOCs above background in accordance with the procedures spelled out in 40 CFR § 61.355(h). [See 40 CFR § 61.355(h), 63.1206(c)(5), and 40 CFR § 264.1082(c)(1).]

#### **V.F.** INSPECTION REQUIREMENTS

- V.F.1. The Permittees shall inspect RF-2 in accordance with the Inspection Schedule and Checklist, Permit Attachment Section F, Permit Attachment Appendix XII, and Permit Condition II.E.
- **V.F.2.** The Permittees shall thoroughly, visually inspect RF-2 at least daily, for leaks, spills, fugitive emissions, and signs of tampering. [See 40 CFR § 264.347(b).]
- **V.F.3.** The Permittees shall thoroughly, visually inspect the instrumentation for out-of-tolerance monitored and/or recorded operational data.

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**V.F.4.** Upon request of the Director, the Permittees shall perform sampling and analysis of the waste and exhaust emissions to verify that the operating requirements established in this Permit are being met.

#### V.G. RECORDKEEPING AND REPORTING

- **V.G.1.** The monitoring and inspection data required by this Module V must be recorded and the records must be placed in the operating record required by Permit Condition II.M.1.i. and maintained in the operating record for five years. [See 40 CFR §§ 63.10, 63.1211, and 264.347(d).]
- **V.G.2.** The Permittees shall record in the operating record for this Permit the date and time of all automatic waste feed shut-offs, including the triggering parameters, reason for the shut-off, and corrective actions taken. The Permitees shall also record all failures of the automatic waste feed shut-offs to function properly and corrective actions taken. [See 40 CFR §§ 63.10 and 63.1211.]
- **V.G.3.** The Permittees shall record in the operating record for this Permit the date and time of all shutdowns or malfunctions, the reason(s) for the shut-down or malfunction, and corrective actions taken. [See 40 CFR §§ 63.10 and 63.1211.]
- V.G.4. In addition to the excess emissions report(s) required by Permit Condition V.C.5.v.c., if, despite the requirement to comply with the SSMP, an action taken by the Permittees during a startup, shutdown, or malfunction (including an action taken to correct a malfunction) is not consistent with the procedures specified in the SSMP and there is an exceedance of any applicable emission limitation in the relevant emission standard, then the Permittees must record the actions taken for that event and must report such actions to the Director within 2 working days after commencing actions inconsistent with the plan, followed by a letter to the Director within 7 working days after the end of the event, in accordance with 40 CFR §63.10(d)(5). [See 40 CFR §8 63.6(e)(3)(iv) and 63.10(d)(5).]
- **V.**G.5. The Permittees shall maintain in the operating record for the Facility required by Permit Condition II.M.1. the site specific CMS quality control performance

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evaluation test plan procedures in accordance with 40 CFR § 63.8(d). [See 40 CFR § 63.8(d).]

#### **V.H.** CLOSURE

- **V.H.1.** At closure the owner or operator must remove all hazardous waste and hazardous waste residues (including, but not limited to, ash, scrubber waters, and scrubber sludges) from RF-2. [See 40 CFR § 264.351.]
- V.H.2. The Permittees shall follow the procedures in Permit Attachment Section I and in the RCRA Facility Closure Plan for the Closure of RF-2 in Permit Attachment Appendices XV and XVII.
- V.H.3. The Permittees shall follow the procedures in Permit Attachment Section I and in the Closure Plan for the Closure of RF-1 in Permit Attachment Appendices XVI and XVII. The Permittees shall initiate closure of RF-1 in accordance with the Closure Schedule contained in the RF-1 Closure Plan contained in Permit Attachment Appendix XVI and the Compliance Schedule set forth in Permit Condition I.K. [See 40 CFR § 264.112(d).]
- V.H.4. The Permittees shall submit a post-closure plan with a schedule to EPA for approval if, after implementation of either the Closure Plan for Closure of RF-1 or the Closure Plan for Closure of RF-2, soil contamination is present and the Permittees are unable to adequately remediate that contamination. Upon approval by EPA, the Permittees shall implement the Post-Closure Plan as approved.

#### V.I. ADDITIONAL INVESTIGATIONS

Upon request by the Director, sampling and analysis of the waste, soil and/or groundwater at or around the Facility, and exhaust emissions must be conducted to verify that the operating requirements established in this Permit achieve the performance standards set forth in this Permit. A report shall be submitted to the Director for approval in accordance with Permit Condition I.G.5. within the time frame specified in the Director's request. [See, e.g., 40 CFR § 264.347(a)(3).]

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### MODULE VI CORRECTIVE ACTION

#### VI.A. Standard Conditions

- VI.A.1. The Permittees must take corrective action as necessary to protect human health and the environment from all releases of hazardous waste and/or constituents from any Hazardous Waste Management Unit (HWMU), Solid Waste Management Unit (SWMU) and/or Area of Concern (AOC) at the Facility, regardless of the time at which waste was placed in such unit or area, in accordance with §3004(u) of RCRA, 42 USC Section 6924(u), 40 CFR §§ 264.90(a) and 264.101. [See RCRA Section 3004(u) and 40 CFR §§ 264.90(a) and 264.101. See also Permit Attachment Section J and the Final RCRA Facility Assessment (RFA), incorporated herein as Permit Attachment RFA. To the extent that there are any discrepancies between Section J and the RFA, the language in the RFA shall control.]
- VI.A.2. The Permittees must take corrective action beyond the facility property boundary where necessary to protect human health and the environment, in accordance with \$3004(v) of RCRA, 42 USC Section 6924(v), and 40 CFR \$264.101. [See 40 CFR \$264.101.]
- **VI.A.3.** Any noncompliance with approved plans, schedules or reports required in accordance with this Permit shall be deemed noncompliance with this Permit.
- **VI.A.4.** If the Director determines that further corrective action beyond the requirements of this Permit is warranted, then the Director may modify this Permit according to the permit modification processes under 40 CFR § 270.41. [See 40 CFR §§ 264.100(e)(2) and 270.41. See also Permit Condition I.B.1.]
- **VI.A.5.** All raw data and reports, including inspection reports, laboratory reports, drilling logs, geological and hydrogeological investigations, bench-scale or pilot-scale data, laboratory data and other supporting information gathered or generated during activities undertaken pursuant to this Permit, including any reissued permits, shall be provided at the request of the Director.
- **VI.A.6.** Failure to timely submit the information required in this Permit, or falsification of any submitted information, is grounds for termination of this permit in accordance with 40 CFR §270.43.

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- **VI.A.7.** All work performed pursuant to this Corrective Action Module shall be under the direction and supervision of qualified personnel. At least forty-five (45) days prior to initiating any work pursuant to this Module, the Permittees shall notify the Director in writing of the following:
  - **VI.A.7.a.** The names, titles, and qualifications of the personnel, including contractors, subcontractors, consultants and laboratories, to be used in carrying out such work; and
  - **VI.A.7.b.** The name, address, phone number, electronic mail address and qualifications of the Corrective Action Project Coordinator.
    - VI.A.7.b.i. The Permittees have the right to change their Corrective Action Project Coordinator. Notification of a change in the Permittees' Corrective Action Project Coordinator must be provided to EPA in writing at least ten (10) days prior to the change.
    - VI.A.7.b.ii. EPA may disapprove of Permittees' Corrective Action Project
      Coordinator (original or replacement) at any time based upon the person's
      qualifications and ability to effectively perform the role. The qualifications
      of the Permittees' Corrective Action Project Coordinator (original or
      replacement) shall be subject to EPA's review, for verification that such
      person meets minimum technical background and experience
      requirements. All persons under the direction and supervision of the
      Permittees' Corrective Action Project Coordinator must possess all
      necessary professional licenses required by federal law and any applicable
      state or tribal law. EPA's disapproval of the Permittees' Corrective
      Action Project Coordinator is subject to review in accordance with the
      Informal Dispute Resolution provisions set forth in Permit Condition I.L.
  - **VI.A.7.c.** In those circumstances where Permittees must take action in less than the forty-five (45) day period referenced in Permit Condition VI.A.7., the information required by Permit Conditions VI.A.7.a. and VI.A.7.b. must be provided to EPA as soon as practicable. (See, *e.g.*, Permit Condition VI.E.1.)

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- VI.A.8. Any activities performed pursuant to this Corrective Action Module shall be conducted in compliance with this Permit, and are subject to EPA approval as set forth herein. The Permittees should perform Corrective Action consistent with good scientific principles. For example, the Permittees should consider taking into account appropriate EPA guidance including, but not limited to, the following:
  - "RCRA Corrective Action Plan" (OSWER Directive 9902.3-2A, May 1994);
  - "Handbook of Groundwater Protection and Cleanup Policies for RCRA Corrective Action" (EPA, EPA530-R-04-030, April 2004);
  - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (EPA, SW-846), available at http://www.epa.gov/epawaste/hazard/testmethods/sw846/online/index.htm;
  - Advance Notice of Proposed Rulemaking, "Corrective Action for Releases from Solid Waste Management Units at Hazardous Waste management Facilities" (EPA, 61 FR 19432 dated May 1, 1996), available at http://www.epa.gov/docs/fedrgstr/EPA-WAST/1996/May/Day-01/pr-547.pdf;
  - "RCRA Public Participation Manual" (EPA, EPA/530/R-96/007, 1996), available at http://www.epa.gov/epawaste/hazard/tsd/permit/pubpart/manual.htm;
  - "A Systematic Approach for Evaluation of Capture Zones at Pump and Treat Systems, Final Project Report" (EPA, EPA/600/R-08/003, January 2008), available at http://www.epa.gov/ada/pbs/reports/600R08003.html; and
  - "RCRA Groundwater Monitoring Technical Enforcement Guidance Document" (OSWER Directive 9950.1, September 1986).

#### **VI.B.** Reporting Requirements

- **VI.B.1.** When requested by the Director, the Permittees shall submit to the Director for approval in accordance with Permit Condition I.G.5. signed and certified corrective action progress reports on a semi-annual basis in accordance with the deadlines specified in the Director's request. Such corrective action progress reports shall contain:
  - **VI.B.1.a.** A discussion and summary of all corrective action-related activities undertaken during the time period;
  - **VI.B.1.b.** Summaries of all problems or potential problems encountered during the reporting period and actions taken to rectify these problems;

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- **VI.B.1.c.** Summaries of all findings made during the time period including summaries of laboratory data; and
- **VI.B.1.d.** Projected work for the next reporting period.
- **VI.B.2.** The Permittees shall maintain copies of other corrective action reports (e.g. inspection reports); geological and hydrogeological investigations; records of groundwater monitoring wells, including boring logs, and associated groundwater surface elevations; and all laboratory data, including raw data, for the active life of the Facility, and shall make them available to the Director upon request.
- **VI.B.3.** The Director may require the Permittees to conduct new or more extensive assessments, investigations, or studies, as needed, based on information provided in these progress reports or other supporting information.
- **VI.C.** Results of the RCRA Facility Assessment (RFA)
  - **VI.C.1.** The results and recommendations of the RCRA Facility Assessment can be found in the Final Permit Attachment RFA dated September 2016.
  - **VI.C.2.** The HWMUs, SWMUs, and AOCs are identified in Tables VI-1, VI-2, and VI-3.
- **VI.D.** Newly-Identified, Newly-Discovered, or Newly-Created AOCs, SWMUs and/or HWMUs
  - VI.D.1.a. The Permittees shall notify the Director in writing of any newly-identified, newly-discovered, or newly created AOC(s), SWMU(s) and/or HWMU(s). This initial notice shall be provided no later than fifteen (15) calendar days after discovery of the newly-identified, newly-discovered, or newly-created AOC, SWMU and/or HWMU.
  - VI.D.1.b. No later than 60 days after identifying, discovering or creating any new AOC(s), SWMU(s), and/or HWMU(s), the Permittees shall initiate a permit modification in accordance with Permit Condition I.G.7. and 40 CFR § 270.42 to update Tables VI-1, VI-2, and/or VI-3 and Permit Attachment Section J, as appropriate, to add the new AOC(s), SWMU(s), and/or HWMU(s) to the table(s).

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- VI.D.2. Within ninety (90) days after the after identifying, discovering or creating any new AOC(s), SWMU(s), and/or HWMU(s), the Permittees shall submit an Assessment Report for any newly-identified, newly-discovered or newly created AOC, SWMU and/or HWMU to the Director for approval in accordance with Permit Condition I.G.5. At a minimum, the Report shall provide the following information for each newly-identified, newly-discovered, or newly-created AOC, SWMU and/or HWMU:
- **VI.D.2.a.** The location of each such AOC, SWMU and/or HWMU in relation to other AOCs, SWMUs, HWMUs, building numbers, or other descriptive landmarks;
- **VI.D.2.b.** The type and function of the AOC, SWMU and/or HWMU;
- **VI.D.2.c.** The general dimensions, capacities, and structural description of the AOC, SWMU and/or HWMU (supply all available drawings);
- **VI.D.2.d.** The period during which the AOC, SWMU and/or HWMU was operated;
- **VI.D.2.e.** Waste characterization information for all wastes that have been or are being managed at the AOC, SWMU and/or HWMU;
- VI.D.2.f. A description of any release (or suspected release) of hazardous waste and/or constituents originating from the AOC, SWMU, and/or HWMU including planned or unplanned releases to the air and any other media. Include information on the date of release, type of hazardous waste and/or constituents, quantity released, nature of the release, extent of release migration, and cause of release (e.g., overflow, broken pipe, tank leak). Also provide any available data which characterizes the nature and extent of environmental contamination, including the results of air, soil and/or groundwater sampling and analysis efforts. Also submit any existing monitoring information that shows that a release of hazardous waste and/or constituents has not occurred or is not occurring; and
- **VI.D.2.g.** Whether or not any further Permit Modification(s) to incorporate additional information about the newly-discovered AOC, SWMU and/or HWMU(s) into the Permit is appropriate. The Permittees shall submit a Permit Modification request in accordance with Permit Condition I.G.8. if the approved Assessment Report determines that such modification is warranted.

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**VI.D.3.** Based on the results of the approved Assessment Report, the Director will determine whether there is a need for further investigations at specific unit(s) or areas covered in the Assessment Report. If the Director determines that such investigations are needed, the Director will require the Permittees to prepare a RCRA Facility Investigation (RFI) Work Plan in accordance with Permit Condition VI.F.

#### VI.E. <u>Newly-Discovered Releases</u>

- VI.E.1. The Permittees shall notify the Director, in writing, of any newly-discovered spills or releases of hazardous waste. This notification shall be submitted in two parts as set forth in Permit Conditions VI.E.1.a. and VI.E.1.b. Releases that are less than or equal to a quantity of one (1) pound and immediately contained and cleaned up are not subject to this Permit Condition VI.E.1. The Permittees shall investigate and, if necessary, remediate the discovered spill(s) or release(s). Such spills or releases may be from newly-identified or newly-created AOCs, SWMUs and/or HWMUs, from AOCs, SWMUs and/or HWMUs at which the Director had previously determined that no further investigation was necessary, or from AOCs, SWMUs and/or HWMUs investigated as part of this Permit or otherwise identified in Tables VI-1, VI-2, or VI-3.
  - **VI.E.1.a.** First, within fifteen (15) calendar days of discovery of the release, the Permittees shall submit in writing an initial notification of the discovery. This notification shall alert the Director to the magnitude of the threat to human health and/or the environment.
  - **VI.E.1.b.** Second, within sixty (60) days of discovery of the release, the Permittees must submit a written report. The report shall discuss the Permittees' efforts to investigate and/or remediate the discovered release and shall specifically include:
    - the concentrations and estimated quantities of any hazardous waste and/or constituents released;
    - the known, or expected, pathway(s) through which the contamination is migrating (or may migrate), and the extent, rate, and direction of that migration;
    - the projected fate and transport of the release;

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- the likely exposure pathway(s) for potential receptors, and the consequences of exposure to these receptors; and
- an outline of proposed Interim Corrective Measures to control the release, as well as a schedule for implementing the Interim Corrective Measures.
   The schedule must be justified by a discussion of possible consequences arising from any delay in implementing Interim Corrective Measures.
- VI.E.2. Within sixty (60) days of discovery of a spill or release, the Permittees shall initiate a permit modification in accordance with Permit Condition I.G.7. and 40 CFR § 270.42 to update Tables VI-1, VI-2 and/or VI-3 and Permit Attachment Section J, as appropriate, to add the spill or release to the table(s). The Permittees shall include the hazardous waste constituents that were released and the actions taken to clean up or mitigate the spill or release in the revised Permit Attachment Section J.
- VI.E.3. Within ninety (90) days of discovery of a release, the Permittees shall submit to the Director for approval in accordance with Permit Condition I.G.5. a Report describing the Interim Corrective Measures activities taken to date and whether or not additional investigation or implementation of corrective measures are warranted. This Report shall include the reporting requirements specified in Permit Condition VI.B. If the approved Interim Corrective Measures Report concludes that additional investigation or corrective measures are required, the Permittees shall submit a request for a permit modification to investigate and perform additional Interim Corrective Measures in accordance with Permit Condition I.G.8.
- **VI.E.4.** If the approved Interim Corrective Measures Report concludes that there is a need for further investigations or implementation of corrective measures, the Director will require the Permittees to prepare a RCRA Facility Investigation (RFI) Work Plan in accordance with Permit Condition VI.F.

### VI.F. RCRA Facility Investigation (RFI) Work Plan

**VI.F.1.** If, under Permit Conditions VI.D.3. or VI.E.4., the Director determines that an RFI is necessary for any newly-discovered or newly-created AOC, SWMU or HWMU or for a newly discovered release, or to further investigate an existing AOC, SWMU, or HWMU, the Permittees shall submit an RFI Work Plan, within the time period specified by the Director, to the Director for approval in accordance with Permit Condition I.G.5.

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- VI.F.2. The RFI Work Plan must identify the AOCs, SWMUs, and/or HWMUs, releases of hazardous waste and/or constituents, and media of concern which require corrective action. The RFI Work Plan shall describe the objectives of the investigation and the overall technical and analytical approach to completing all actions necessary to characterize the nature, direction, rate, movement, and concentration of releases of hazardous waste and/or constituents from specific AOCs, SWMUs, HWMUs or groups of AOCs, SWMUs, or HWMUs and their actual or potential receptors. The RFI Work Plan shall detail all proposed activities and procedures to be conducted at the area and/or unit, the schedule for implementing and completing such investigations, an outline of the RFI Report required in Permit Condition VI.G.1., and the overall management of the RFI. The RFI Work Plan should be consistent with good scientific principles. For example, the Permittees should consider taking into account screening levels consistent with the EPA's health and ecological based guidance effective at the time of implementation, and EPA's current corrective action guidance, including RCRA Facility Investigation (RFI) Guidance, OSWER Directive 9502.00-6C, dated May 1989.
- **VI.F.3.** The RFI Work Plan shall discuss sampling and data collection quality assurance and data management procedures, including formats for documenting and tracking data and other results of investigations, and health and safety procedures for conducting the field work.
- **VI.F.4.** The Director may review for approval as part of the RFI Work Plan any plans, reports or other material developed pursuant to Permit Conditions VI.D. and/or VI.E.

#### VI.G. RCRA Facility Investigation (RFI) Final Report

- VI.G.1. The Permittees shall develop and submit an RFI Final Report if the Director determines that an RFI is necessary as described in VI.F.1. The Permittees should conduct the RCRA Facility Investigation and prepare the RFI Final Report consistent with good scientific principles. For example, the Permittees should consider taking into account appropriate EPA guidance including, but not limited to, EPA's RCRA Facility Investigation Guidance, OSWER Directive 9502.00-6C, dated May 1989.
- **VI.G.2.** Within the time period specified in the schedule included in the approved RFI Work Plan, the Permittees shall submit an RFI Final Report to the Director for approval in accordance with Permit Condition I.G.5.

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- . **VI.G.3.** The RFI Final Report shall describe the procedures, methods, and results of all facility investigations of AOCs, SWMUs and/or HWMUs and their releases, including information on the type and extent of contamination at the Facility, sources and migration pathways, and actual or potential receptors. The RFI Final Report shall present all information necessary to support further corrective action decisions at the area(s) and/or unit(s).
  - **VI.G.4.** The RFI Final Report shall also include the Permittees' recommendations, if any, regarding any appropriate modifications to the conditions of this Permit, based on the results of the RFI in accordance with Permit Condition I.G.8, and 40 CFR Part 270.
- VI.H. Interim Corrective Measures Implementation at the Direction of EPA
  - VI.H.1.If, at any time, the Director determines that a release or potential release of hazardous waste and/or constituents at the Facility poses or may present a threat to human health or the environment, the Director will notify the Permittees that they must submit to the Director, for approval in accordance with Permit Condition I.G.5., an Interim Corrective Measures Work Plan, for conducting Interim Corrective Measures designed to minimize the threat to human health and the environment. The Director will provide direction to the Permittees regarding the appropriate time frame for submittal of such Interim Corrective Measures Work Plan. Implementation by the Permittees of treatment or containment activities during "immediate response," as defined in 40 CFR § 264.1(g)(2), to a discharge of hazardous waste and/or constituents, or an imminent and substantial threat of a discharge of hazardous waste and/or constituents, or a discharge of material which, when discharged, becomes a hazardous waste, is not subject to this Permit. Actions taken to address the discharge after the immediate response is completed are subject to this Permit.
    - **VI.H.1.a.** The Interim Corrective Measures Work Plan shall include a schedule for implementation of Interim Corrective Measures and the submittal of an Interim Corrective Measures Report.
  - **VI.H.2.** Except as set forth in Permit Condition VI.H.5, the Director's decision to require the submittal of an Interim Corrective Measures Work Plan is subject to the dispute resolution procedures set forth in Permit Condition I.L. The following factors may be considered by the Director in determining the need for additional Interim Corrective Measures:

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- VI.H.2.a. Time required to develop and implement a final remedy;
- VI.H.2.b. Actual and potential exposure of human and environmental receptors;
- **VI.H.2.c.** Actual and potential contamination of drinking water supplies and sensitive ecosystems;
- **VI.H.2.d.** Potential for further degradation of the medium absent the additional Interim Corrective Measures;
- **VI.H.2.e.** Presence of hazardous waste in containers or tanks that may pose a threat of release;
- **VI.H.2.f.** Presence and concentration of hazardous waste and/or constituents in soils, ground water, surface water, or air;
- **VI.H.2.g.** Weather conditions that may affect the current levels of contamination or potential for exposure;
- VI.H.2.h. Risks of fire, explosion, or accident; and
- **VI.H.2.i.** Other situations that may pose a threat to human health or the environment.
- **VI.H.3.** Upon the Director's approval of the Interim Corrective Measures Work Plan, the Permittees shall implement the Interim Corrective Measures according to the approved schedule.
- VI.H.4. Within the time period set forth in the schedule in the approved Interim Corrective Measures Work Plan, the Permittees shall submit to the Director for approval in accordance with Permit Condition I.G.5. a Report describing the Interim Corrective Measures activities taken to date and whether or not additional investigation or implementation of corrective measures are warranted. This Report shall include the reporting requirements specified in Permit Condition VI.B. If the approved Interim Corrective Measures Report concludes that additional investigation or corrective measures are required, and/or that there is a need for further investigations or implementation of corrective measures, the Director will require the Permittees to prepare a RCRA Facility Investigation (RFI) Work Plan in accordance with Permit Condition VI.F.

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VI.H.5. If, at any time, the Director determines that a release or potential release of hazardous waste and/or constituents at the Facility poses or may present an imminent or emergency threat to human health or the environment, the Director will notify the Permittees that they must conduct Emergency Interim Corrective Measures as instructed by the Director. Such Emergency Interim Corrective Measures shall be limited to that necessary to address or resolve the urgency associated with and/or emergency nature of any such threat to human health or the environment. The Director's decision to require such Emergency Interim Corrective Measures may be subject to the informal dispute resolution procedures of Permit Condition I.L., but the Permittees shall implement such Emergency Interim Corrective Measures, as instructed by the Director, simultaneously during any such invocation of informal dispute resolution under this Permit.

#### **VI.I.** Corrective Measures Study

- VI.I.1. If the Director has reason to believe that an AOC, SWMU and/or HWMU has released concentrations of hazardous constituents in excess of the EPA's current health- and ecological-based levels, or if the Director determines that contaminants present at levels below the EPA's current health-based levels pose a threat to human health or the environment given site-specific exposure conditions, the Director may require a Corrective Measures Study (CMS) and, if so, will notify the Permittees in writing. This notice will identify the hazardous constituents(s) which have exceeded action levels as well as those which have been determined to present a potential threat to human health or the environment given site-specific exposure conditions.
- VI.I.2. No later than sixty (60) calendar days after the Permittees have received notification from the Director, under Permit Condition VI.I.1., of the need for a CMS, the Permittees shall submit to the Director for approval in accordance with Permit Condition I.G.5., a Work Plan, with a schedule, for conducting a CMS. Upon the Director's approval of the CMS Work Plan, the Permittees shall implement the CMS according to the approved schedule. The CMS should be consistent with the EPA's guidance.
- **VI.I.3.** The Permittees shall submit a CMS Final Report to the Director for approval in accordance with Permit Condition I.G.5. and according to the schedule approved by the Director pursuant to Permit Condition VI.I.2. The CMS Final Report shall summarize the results of the investigations for each remedy, and of any bench-scale

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or pilot tests conducted. The CMS Final Report must include an evaluation of each remedial alternative, and a proposal for corrective measures implementation. The CMS Final Report shall contain adequate information to support the Director in the remedy selection decision-making process, described in Permit Condition VI.J.

#### **VI.J.** Remedy Selection

If, based on the results contained in the RFI Final Report, CMS Final Report, or any further evaluations of additional remedies, the Director determines that it is appropriate to select a corrective action remedy for the facility, the Director will propose to select a remedy that will: (1) be protective of human health and the environment; (2) meet the concentration levels of hazardous constituents in each medium that the remedy must achieve to be protective of human health and the environment; (3) control the source(s) of release(s) so as to reduce or eliminate, to the maximum extent practicable, further releases that might pose a threat or potential threat to human health and the environment; and (4) meet all applicable waste management requirements.

#### VI.K. Permit Modification

Based on information the Permittees submit in the RFI Final Report, the CMS Final Report, or other information, the Permittees or the Director may initiate a modification to this Permit for selection and implementation of the remedy, pursuant to 40 CFR §§ 270.41 or 270.42, and/or to create or make changes to a Corrective Action Schedule of Compliance for this Permit. Any modification relating to selection and implementation of a remedy may include conditions that require submittal by the Permittees of corrective measures design, implementation, and monitoring plans.

#### **VI.L.** No Further Action

VI.L.1. Based on the results of any investigation, study, assessment, interim measure and/or corrective action and any other relevant information, the Permittees may submit an application to the Director for a permit modification in accordance with 40 CFR § 270.42(c) to terminate all or a portion of a Corrective Action Schedule of Compliance. This permit modification application must contain information demonstrating that there are no releases of hazardous wastes or hazardous constituents from HWMU(s), SWMU(s) and/or AOC(s) at the Facility that pose a threat to human health or the environment, as well as information required in 40 CFR § 270.42(c), which incorporates by reference 40 CFR §\$270.13 through 270.22,

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270.62, and 270.63. Relevant information to be included in the application shall include, at a minimum:

- Depth of Released Contamination into Soil.
- Impact on Groundwater or Surface Water
- Constituents Sampled
- Data Quality Objectives
- Sampling Method
- Laboratory Results of Analysis
- Data Quality
- Results of Cleanup Verification Sampling
- VI.L.2. If, based on review of the Permittees' request for a permit modification, any investigation, study, assessment, interim measure and/or corrective action and any other relevant information, including comments received during any relevant public comment period, the Director determines that releases or suspected releases which were investigated are either non-existent or do not pose a threat to either human health or the environment, the Director will grant the requested modification.
- VI.L.3. A determination of no further action shall not preclude the Director from requiring further investigations, studies, or remediation at a later date, if new information or subsequent analysis indicates a release or likelihood of a release from a HWMU, SWMU and/or AOC or that the Facility is likely to pose a threat to human health or the environment. In such a case, the Director will initiate a modification according to the procedures set forth in 40 CFR § 270.41, to rescind the determination made in accordance with this Permit Condition VI.L.

#### **VI.M.** Corrective Action Beyond the Facility Boundary

If the Director determines that further actions beyond those provided in a Corrective Action Schedule of Compliance, or changes to that which is stated herein, are warranted, the Director will create or modify such Schedule of Compliance and/or other Permit Condition(s) in

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accordance with the permit modification processes set forth in 40 CFR § 270.41. [See 40 CFR § 270.41.]

#### VI.N. Financial Assurance for Corrective Action

- VI.N.1. A proposal for establishing a financial assurance mechanism for either performance of any of the work described in a Corrective Action Schedule of Compliance or implementation of any other remedy in accordance with this Permit, including construction of such corrective action or remedy, shall be submitted to the Director for approval in accordance with Permit Condition I.G.5., simultaneously with the request for a permit modification required under Permit Condition VI.K. The proposal shall contain, at a minimum:
  - A cost estimate for construction, operation, maintenance, and monitoring of the selected corrective action or remedy for a period of 20 years including assumptions used to make the cost estimate;
  - A description of the financial assurance mechanism that will be used; and
  - A schedule for establishing the mechanism.
- VI.N.3. The mechanism by which financial assurance is secured -- for either performance of any of the work described in a Corrective Action Schedule of Compliance or implementation of any other remedy in accordance with this Permit -- may include surety bonds, insurance policies (issued by an independent commercial insurer), letters of credit, or any other mechanism acceptable to the Director as described in any permit modification undertaken in accordance with Permit Condition VI.K. The mechanism shall be established to allow the U.S. Environmental Protection Agency to direct the funds to ensure construction, operation, maintenance and/or monitoring occur as required by this Permit.

#### VI.O. Quality Assurance and Quality Control

**VI.O.1.** As part of any work plan(s) required by this Module, the Permittees shall include a Quality Assurance Project Plan ("QAPP"), for the Director's review and approval in accordance with Permit Condition I.G.5. The QAPP shall address quality assurance, quality control, and chain of custody procedures for any sampling, monitoring and analytical activities. The Permittees shall follow "EPA Requirements for Quality

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Assurance Project Plans (QA/R-5)" (EPA/240/B-01/003, March 2001 (Reissued May 2006)), "Guidance for Quality Assurance Project Plans (QA/G-5)" (EPA/240/R-02/009, December 2002), and "EPA Requirements for Quality Management Plans (QA/R-2)" (EPA/240/b-01/002, March 2001) as well as other applicable documents identified by the Director.

- **VI.O.2.** As part of any work plan(s), the Permittees shall include Data Quality Objectives for any data collection activity to ensure that data of known and appropriate quality are obtained and that data are sufficient to support their intended use as required by this Module.
- VI.O.3. The Permittees shall ensure that laboratories used by the Permittees for analysis perform such analysis according to the latest approved edition of "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (also known as SW-846) or other methods approved by EPA. If methods other than EPA methods are to be used, the Permittees shall specify all such protocols in the appropriate work plan(s). In accordance with the procedures set forth in Permit Condition I.G.5., the Director may reject any data that does not meet the requirements of the approved work plan(s) and EPA analytical methods and may require resampling and additional analysis.
- VI.O.4. The Permittees shall ensure that all laboratories employed for analyses participate in a quality assurance/quality control ("QA/QC") program equivalent to the program that EPA follows. The Permittees shall, on the Director's request, make arrangements for EPA to conduct a performance and QA/QC audit of the laboratories chosen by the Permittees, whether before, during, or after sample analyses. Upon the Director's request, the Permittees shall have the laboratories perform analyses of samples provided by EPA to demonstrate laboratory QA/QC and performance. If the audit reveals deficiencies in a laboratory's performance or QA/QC, the Permittees shall submit a plan to address the deficiencies and the Director may require resampling and additional analysis. Requests by the Director in accordance with this Permit Condition VI.O.4. are subject to the informal dispute resolution provisions of Permit Condition I.L.
- **VI.O.5.** The Director may require the Permittees to change laboratories for reasons including, but not limited to: QA/QC, performance, conflict of interest, or confidential agency audit information. In the event the Director requires a laboratory change, the Permittees shall propose two alternative laboratories within thirty (30)

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calendar days. Once the Director approves of the laboratory change, the Permittees shall ensure that laboratory service shall be made available within fifteen (15) calendar days. The Director's requirement(s) and approval(s) pursuant to this Permit Condition VI.O.5. are subject to the informal dispute resolution provisions of Permit Condition I.L.

No.	HWMU Type/Designation	Location	General Dimensions and Structural Description	Date Unit was First Operated	Identification of Wastes Managed in Unit	Releases from Unit
1	Spent carbon reactivation furnace - RF-1 and Associated Equipment (Dewater screw)	South of RF-2	Furnace shell – carbon steel; internal firebrick lining and block insulation; hearths and furnace roof constructed with firebrick; furnace roof is comprised of firebrick backed with block insulation and castable insulation; bottom hearth is insulated with block insulation and castable insulation and castable insulation	August 1992; Shut down in 1996	Spent activated carbon. See Part B Application for list of applicable waste codes	None

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No.	HWMU Type/Designation	Location	General Dimensions and Structural Description	Date Unit was First Operated	Identification of Wastes Managed in Unit	Releases from Unit
2	Spent carbon reactivation furnace RF-2 and Associated Equipment (Dewater Screw, Weigh Belt)	East of warehouse	Furnace shell – carbon steel; internally lined with firebrick and block insulation; hearths and furnace roof constructed with firebrick; furnace roof is comprised of firebrick backed with block insulation and castable insulation; bottom hearth is insulated with block insulation and castable insulation; Continuously seal welded internally to assure an airtight assembly.  Dewatering screw length 17 ft; diameter 8 in.	July 1996 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None

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No.	HWMU Type/Designation	Location	General Dimensions and Structural Description	Date Unit was First Operated	Identification of Wastes Managed in Unit	Releases from Unit
3	3 RF–1 Air pollution control	equipment				
	Afterburner	RF-1 structure	Refractory lined steel	1992 to 1996	Spent activated carbon. See Part B Application for list of applicable waste codes	None
	Venturi scrubber	RF-1 structure	Hastelloy C	1992 to 1996	Spent activated carbon. See Part B Application for list of applicable waste codes	None
	Packed bed scrubber	RF-1 structure	Fiberglass	1992 to 1996	Spent activated carbon. See Part B Application for list of applicable waste codes	None
	Emissions stack	RF-1 structure	Mild steel	1992 to 1996	Spent activated carbon. See Part B Application for list of applicable waste codes	None
4	RF–2 Air pollution control eq	uipment	ı		I	

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No.	HWMU Type/Designation	Location	General Dimensions and Structural Description	Date Unit was First Operated	Identification of Wastes Managed in Unit	Releases from Unit
	Afterburner	RF-2 structure	Refractory lined steel cylinder chamber	1996 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
	Venturi scrubber	RF-2 structure	Hastelloy C	1996 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
	Packed bed scrubber	RF-2 structure	Fiberglass	1996 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
	Wet electrostatic precipitator	RF-2 structure	Fiberglass/AL6XN	1996 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
	Induced draft fan	RF-2 structure	300-series SS	1996 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None

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No.	HWMU Type/Designation	Location	General Dimensions and Structural Description	Date Unit was First Operated	Identification of Wastes Managed in Unit	Releases from Unit
	Emissions stack	RF-2 structure	Fiberglass surrounded by a mild steel shell	1996 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
5	Spent carbon unloading hopper H-1	North end of facility on containment	5000 lb capacity; mild steel	1996 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
6	Spent carbon unloading hopper H-2	Inside warehouse facing east wall	500 lb capacity; mild steel	August 1992 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
7	Hopper air pollution control equipment piping and baghouse	North end of facility on containment	Ducting, baghouse and fan are mild steel	1992 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
8	Spent carbon slurry and recycle water transfer system	Inside warehouse on containment	4" pipes hopper to tank; 3" pipes T-tank to furnace feed tank; 300- series SS	1992 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None

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No.	HWMU Type/Designation	Location	General Dimensions and Structural Description	Date Unit was First Operated	Identification of Wastes Managed in Unit	Releases from Unit
9	Spent carbon storage warehouse	Inside warehouse	80 ft by 80 ft concrete/ metal	1992 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
10	Spent carbon slurry storage tank, T–1	East of warehouse within containment	8319 gal design capacity	Used tank (1956); 1992 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
11	Spent carbon slurry storage tank, T–2	East of warehouse within containment	8319 gal design capacity	Used tank (1956); 1992 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
12	Spent carbon slurry storage tank, T–5	East of warehouse within containment	8319 gal design capacity	Used tank (1956); 1992 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
13	Spent carbon slurry storage tank, T–6	East of warehouse within containment	8319 gal design capacity	Used tank (1956); 1992 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None

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No.	HWMU Type/Designation	Location	General Dimensions and Structural Description	Date Unit was First Operated	Identification of Wastes Managed in Unit	Releases from Unit
14	Furnace Feed System Tank T-8 and Ancillary Equipment	RF-1 Structure	905 gal 300 series SS	August 1992 to 1996	Spent activated carbon. See Part B Application for list of applicable waste codes	None
15	T-18 and Ancillary Equipment	RF-2 structure	6500 gal 300- series SS	July 1996 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
16	Wastewater conveyance piping to wastewater treatment tank	East of RF-2 structure	3" PVC piping	August 1992	Spent activated carbon. See Part B Application for list of applicable waste codes	None
17	Spent carbon storage warehouse barrel washer	Next to H-2 in warehouse	2 ft by 3 ft 300 series stainless steel	1992 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
18	Carbon adsorber - PV1000	North of Containment Pad for Storage Tanks	1000 lb carbon capacity; mild steel.	August 1992	Spent activated carbon. See Part B Application for list of applicable waste codes	None

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No.	HWMU Type/Designation	Location	General Dimensions and Structural Description	Date Unit was First Operated	Identification of Wastes Managed in Unit	Releases from Unit
19	Carbon adsorber WS-1	Beside spent carbon storage tank	2 x 2000 lb carbon capacity. Mild steel	1992 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
20	Carbon adsorber WS-2	Beside H-1	5000 lb carbon capacity Fiberglass	1992 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
21	Carbon adsorber WS-3	Beside RF–2	1000 lb carbon capacity Mild steel	1996 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	See Section J.2 of the Part B Application
22	Slurry transfer inclined plate settler tank	Adjacent to the venturi scrubber	Mild steel	1992 to 1994	Spent activated carbon. See Part B Application for list of applicable waste codes	See Section J.2 of the Part B Application
23	Scrubber recycle tank T-17	Beside RF-1	Mild steel	1992 to 1996	Spent activated carbon. See Part B Application for list of applicable waste codes	None

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No.	HWMU Type/Designation	Location	General Dimensions and Structural Description	Date Unit was First Operated	Identification of Wastes Managed in Unit	Releases from Unit
24	Filter press	Next to scrubber system for RF-1	Mild steel with polypropylene plates	1992 to 1994	Spent activated carbon. See Part B Application for list of applicable waste codes	None
25	New Facility Discharge Piping System	New piping bypasses Lift Station to POTW	6" PVC	February 1996	Spent activated carbon. See Part B Application for list of applicable waste codes	None

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### TABLE VI-2 - SOLID WASTE MANAGEMENT UNIT IDENTIFICATION

No.	SWMU Type/Designation	Location	General Dimensions and Structural Description	Date Unit was First Operated	Identification of Wastes Managed in Unit	Releases from Unit
1	Bermed containment area	East of Warehouse	Approx 180' x 55'; concrete	August 1992	Spent activated carbon. See Part A Application for list of applicable waste codes	None
2	Sump by H-1	South of H-1	3'-4" square; concrete	July 1996	Spent activated carbon. See Part A Application for list of applicable waste codes	None
3	Sump by storage tank, T-9	East of warehouse in between T-9 and RF-2	3'-4" square sump; U- drain 30' long x 16"wide; concrete	August 1992 to present	Spent activated carbon. See Part A Application for list of applicable waste codes	None
4	Recycled motive water storage tank, T–9	East of warehouse on containment	10,500 gal 316 series stainless steel	1996 to present	Spent activated carbon. See Part A Application for list of applicable waste codes	None
5	Rainwater and motive water storage tank, T–12	East of warehouse on containment	25,080 gal Mild steel	1992. Removed from service in 2002.	Spent activated carbon. See Part A Application for list of applicable waste codes	None

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#### TABLE VI-2 - SOLID WASTE MANAGEMENT UNIT IDENTIFICATION

No.	SWMU Type/Designation	Location	General Dimensions and Structural Description	Date Unit was First Operated	Identification of Wastes Managed in Unit	Releases from Unit
6	Wastewater storage tank, T–11 System	East of the warehouse and south of RF -2	10' Dia x 20' H; Approx 12,000 gal fiberglass	August 1992 to present	Spent activated carbon. See Part A Application for list of applicable waste codes	None
7	Sump by cooling screw under Venturi scrubber tank	East of warehouse beside RF-2	3'-4" square; concrete	July 1996 to present	Spent activated carbon. See Part A Application for list of applicable waste codes	None
8	RF–2 scrubber water equalization tank, T-19	Under RF-2 Structure	Approx. 1000 gal Fiberglass	July 1996 to present	Spent activated carbon. See Part A Application for list of applicable waste codes	None
9	Hazardous waste debris bin	North of warehouse on asphalt pavement	20 - 40 cubic yards Mild steel	August 1992 to present	Spent activated carbon. See Part A Application for list of applicable waste codes	None
10	Spent carbon storage warehouse grated trenches and sump	Warehouse in containment area	Trench 3 ft, 4 in square sump U-drain 50 ft long, 16 in wide; cross drain sections 40 ft long 16 in wide Concrete	1992 to present	Spent activated carbon. See Part A Application for list of applicable waste codes	None

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#### TABLE VI-2 - SOLID WASTE MANAGEMENT UNIT IDENTIFICATION

No.	SWMU Type/Designation  Hopper concrete pad	Location  Outside H-1	General Dimensions and Structural Description  Approx 60' x 44';	Date Unit was First Operated	Identification of Wastes Managed in Unit	Releases from Unit
		structure	concrete		carbon. See Part A Application for list of applicable waste codes	
12	WWTP	Inside warehouse	Fiberglass, mild steel modular water treatment system. Separate containment.	October 2003 to present	Spent activated carbon. See Part A Application for list of applicable waste codes	None
13	Wastewater lift station and piping system (old)	At the end of access road to plant. Old piping from Tank T-11 to the Lift Station	Approx. height 15 ft; outside diameter 5 ft Lift Station: mild steel/concrete/fiberglass Old piping system PVC.	1992 to 1996	Spent activated carbon. See Part A Application for list of applicable waste codes	None
14	Spent carbon unloading and transfer area asphalt pad	North area of facility	Approx. 44 ft by 80 ft	August 1996 to present	Spent activated carbon. See Part A Application for list of applicable waste codes	None
15	Satellite Accumulation Area	North side of warehouse	≤ 55 gallons (metal or plastic)	August 1992 to present	Various Debris	None
16	Satellite Accumulation Area	South side of drum containment	≤ 55 gallons (metal or plastic)	August 1992 to present	Various Debris	None
17	Satellite Accumulation Area	East of Control Room	≤ 55 gallons (metal or plastic)	August 1992 to present	Various Debris	None

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#### TABLE VI-2 - SOLID WASTE MANAGEMENT UNIT IDENTIFICATION

No.	SWMU Type/Designation	Location	General Dimensions and Structural Description	Date Unit was First Operated	Identification of Wastes Managed in Unit	Releases from Unit
18	Satellite Accumulation Area	Laboratory in Admin Building	≤ 55 gallons (metal or plastic)	August 1996 to present	Laboratory Debris and laboratory Testing	None
19	Satellite Accumulation Area	Underneath Spent Carbon Baghouse	≤ 55 gallons (metal or plastic)	August 1992 to present	Spent Carbon Dust from Baghouse	

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#### <u>TABLE VI-3 - AREAS OF CONCERN (AOC) IDENTIFICATION TABLE,</u> NEW UNIT NAME

No.	Description of AOC	Location	Management Requirements at
110.	Description of AGC	Location	Closure
1	Spent carbon unloading and transfer area.	AOC 1 is entirely contained within SWMU14.	Sampling. See Closure Plan Tank Area and Unloading Area Sample Locations 5 & 7.
2	Tank area concrete containment pad	AOC 2 is entirely contained within SWMU 1.	Sampling. See Closure Plan Tank Area and Unloading Area Sample Location 3.
3	Receiving area/pad	AOC 3 is entirely contained within SWMU14.	Sampling. See Closure Plan Tank Area and Unloading Area Sample Location 8.
4	Hopper H-1 loading/unloading area	See HWMU 5 for more detail on this unit	Sampling. See Closure Plan Tank Area and Unloading Area Sample Locations 4 & 5.
5	Hopper H-2 loading/unloading area	See HWMU 6 for more detail on this unit	Sampling. See Closure Plan Container Area Sample Locations 1 & 2.
6	Spent carbon storage warehouse	See HWMU 9 for more detail on this unit	Sampling. See Closure Plan Container Area Sample Locations 1, 2, & 3.
7	Furnace feed systems	See HWMUs 14 and 15 for more details on these units	Sampling. See Closure Plan RF-1 and RF-2 Process Area Sample Locations 1 & 2
8	Recycled motive water tank T-9	See SWMU 4 for more details on this unit	Sampling. See Closure Plan Tank Area and Unloading Area Sample Location 6.
9	Rainwater, Dewatering Screw, and Motive Water Storage Tank T-12	See SWMU 5 for more details on this unit	Sampling. See Closure Plan Tank Area and Unloading Area Sample Location 2.

This draft permit has been created in accordance with 40 CFR § 124.6 as part of US EPA's proposed RCRA hazardous waste permit decision for the hazardous waste facility (EPA ID # AZD982441263) located on trust land of the Colorado River Indian Tribes at 2523 Mutahar Street, Parker, Arizona, 85344, and operated by Evoqua Water Technologies LLC.

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# <u>TABLE VI-3 - AREAS OF CONCERN (AOC) IDENTIFICATION TABLE, NEW UNIT NAME</u>

No.	Description of AOC	Location	Management Requirements at Closure
10	Spent carbon storage warehouse barrel washer	See HWMU 17 for more details on this unit	Sampling. See Closure Plan Container Area Sample Locations 1, 2, & 3.
11	Bermed concrete pad in process area	AOC 2 is entirely contained within SWMU 1. See SWMU 1 for more detail on this unit	Sampling. See Closure Plan RF-1 and RF-2 Process Area Sample Locations 1, 2, & 3.
12	Sump by unloading hopper H-1	See SWMU 2 for more details on this unit	Sampling. See Closure Plan Tank Area and Unloading Area Sample Location 4.
13	Sump by storage tank T-9	See SWMU 3 for more details on this unit	Sampling. See Closure Plan Tank Area and Unloading Area Sample Location 6.
14	Spent carbon storage tanks and carbon adsorbers	Please see HWMUs 10, 11, 12, & 13 and HWMUs 19, 20, & 21 for more details on these units	Sampling. See Closure Plan Tank Area and Unloading Area Sample Locations 1, 2, & 3.

# APPENDIX B CHECKLISTS

Checklists for the applicable regulatory provisions from the following regulations are included in this Appendix B to the Statement of Basis. These checklists cover regulations referenced in the draft permit from the following Parts of Title 40 of the Code of Federal Regulations (40 CFR): Parts 61, 63, 124, 264, and 270.

The checklists do not repeat the regulations verbatim. They are merely excerpts, designed to assist the public in understanding the basis for specific, proposed permit conditions in the draft permit.

40 CFR Part 264 includes the Resource Conservation and Recovery Act (RCRA) regulations applicable to permitted treatment, storage and disposal facilities (TSDs) and these include the basic requirements for TSD facilities and the units in which hazardous waste is managed at such facilities.

40 CFR Part 270 includes the regulations applicable to RCRA permits generally. 40 CFR Part 124 includes the regulations generally applicable to all EPA permits, including those permits issued under the authority of RCRA.

The carbon regeneration furnace at the Evoqua Water Technologies, LLC facility in Parker, AZ is considered a "miscellaneous unit" as defined at 40 CFR §260.10. As such, the proposed permit terms and provisions of the draft permit include those requirements of Part 264, Subparts I through O and Subparts AA through CC, Part 270, and Part 63, Subpart EEE, that are appropriate for this particular type of miscellaneous unit. In addition, some of the requirements under Part 264, Subparts AA through CC are inapplicable where units or equipment are equipped with and operating air emission controls in accordance with the requirements of an applicable Clean Air Act (CAA) regulation codified under 40 CFR Parts 60, 61, or 63.

As a result, checklists for 40 CFR Part 61, primarily for Subpart FF (National Emission Standard for Benzene Waste Operations), and Part 63, primarily for Subpart EEE (National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors) are included in this Appendix to help guide the public in understanding how specific requirements from Part 61 and Part 63 were included in the draft permit.

The draft permit also includes references to regulatory requirements from other parts of Title 40 of the Code of Federal Regulations that are not reflected in these checklists. For example, draft Permit Condition II.A.2. references 40 CFR Part 262, and draft Permit Condition II.A.3. references 40 CFR Part 268. For the full text of all regulatory requirements, whether or not they are referenced in a checklist here, the public is advised to review the regulatory language, which may be found online at <a href="http://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title40/40tab\_02.tpl">http://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title40/40tab\_02.tpl</a>.

40 CFR Section	Requirement	Permit
	•	Condition(s)
Part 61		IV.G.1.
Subpart A	GENERAL PROVISIONS	Table IV-2
61.01	(a) The following list presents the substances that, pursuant to section 112 of the Act, have been designated as hazardous air pollutants. The Federal Register citations and dates refer to the publication in which the listing decision was originally published.  ***  Benzene (42 FR 29332; June 8, 1977)  ***  [The full text of this regulation is not included in this checklist for the sake of brevity.]	
61.12	enceknist for the suice of brevity.]	(c) -V.D.4.
01.12	Compliance with standards and maintenance requirements.	(c) – v.D.4.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
	(c) The owner or operator of each stationary source shall maintain and operate the source, including associated equipment for air pollution control, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operating and maintenance procedures, and inspection of the source.	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
Subpart FF	National Emission Standard For Benzene Waste Operations	IV.G.2.b. IV.G.2.c. Table IV-2 IV.G.8. IV.G.8.a.i. IV.G.8.a.ii. IV.G.8.a.iv. IV.G.8.b.ii.
61.343	Standards: Tanks.  (a) Except as provided in paragraph (b) of this section and in § 61.351, the owner or operator must meet the standards	(a)(1)(i) - IV.G.8.b.i.

	in paragraph (a)(1) or (2) of this section for each tank in which the waste stream is placed in accordance with § 61.342 (c)(1)(ii). The standards in this section apply to the treatment and storage of the waste stream in a tank, including dewatering.  (1) The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.  (i) The fixed-roof shall meet the following requirements:	
	[The full text of this regulation is not included in this	
	checklist for the sake of brevity.]	
61.346	Standards: Individual drain systems.  (a) Except as provided in paragraph (b) of this section, the owner or operator shall meet the following standards for each individual drain system in which waste is placed in accordance with § 61.342(c)(1)(ii) of this subpart:  (1) The owner or operator shall install, operate, and maintain on each drain system opening a cover and closed-vent system that routes all organic vapors vented from the drain system to a control device.  (i) The cover shall meet the following requirements:  [The full text of this regulation is not included in this checklist for the sake of brevity.]	TABLE IV-2
61.348	Standards: Treatment processes.	(e) - V.E.1.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]  (e) Except as specified in paragraph (e)(3) of this section, if the treatment process or wastewater treatment system unit has any openings (e.g., access doors, hatches, etc.), all such openings shall be sealed (e.g., gasketed, latched, etc.) and kept closed at all times when waste is being treated, except during inspection and maintenance.  (1) Each seal, access door, and all other openings shall  [The full text of this regulation is not included in this checklist for the sake of brevity.]	
61.349	Standards: Closed-vent systems and control devices.	TABLE IV-2
	(a) For each closed-vent system and control device used to comply with standards in accordance with §§ 61.343 through 61.348 of this subpart, the owner or operator shall properly design, install, operate, and maintain the closed-	IV.G.8.b.ii.

	vent system and control device in accordance with the following requirements:	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
61.355	<b>Test methods, procedures, and compliance provisions.</b> (a) An owner or operator shall determine the total annual benzene quantity from facility waste by the following procedure:	IV.J.8.  (h) V.E.2. and Permit Attachment
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	Appendix XXIII (Subpart FF Compliance
	(c) For the purposes of the calculation required by §§ 61.355(a) of this subpart, an owner or operator shall determine the flow-weighted annual average benzene concentration in a manner that meets the requirements given in paragraph (c)(1) of this section using either of the methods given in paragraphs (c)(2) and (c)(3) of this section	Plan) at Section 3.7.3.and Table 1.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
	(h) An owner or operator shall test equipment for compliance with no detectable emissions as required in §§ 61.343 through 61.347, and § 61.349 of this subpart in accordance with the following requirements:	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
61.357	Reporting requirements.  (a) Each owner or operator of a chemical plant, petroleum refinery, coke by-product recovery plant, and any facility managing wastes from these industries shall  [The full text of this regulation is not included in this checklist for the sake of brevity.]	II.M.2.

40 CFR Section	Requirement	Permit Condition(s)
PART 63— National Emission Standards For Hazardous Air		
Pollutants For Source Categories		
Subpart A – General		
63.6	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
	(3) Startup, shutdown, and malfunction plan.  [The full text of this regulation is not included in this	
	checklist for the sake of brevity.]  (iii) When actions taken by the owner or operator during a startup or shutdown (and the startup or shutdown causes the source to exceed any applicable emission limitation in the relevant emission standards), or malfunction (including actions taken to correct a malfunction) are consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, the owner or operator must keep records for that event which demonstrate that the	
	procedures specified in the plan were followed. These records  [The full text of this regulation is not included in this	
	checklist for the sake of brevity.]  (iv) If an action taken by the owner or operator during a startup, shutdown, or malfunction (including an action taken to correct a malfunction) is not consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, and the source exceeds any applicable emission limitation in the relevant emission standard, then the owner or operator must record the actions taken for that event and must report such actions within 2 working days after commencing actions inconsistent with the plan, followed by a letter within 7 working days after the end of the event, in accordance with §63.10(d)(5) (unless the owner or operator makes alternative reporting arrangements, in advance, with the Administrator).	(e)(3)(iv) – V.G.4.
63.7	[The full text of this regulation is not included in this checklist for the sake of brevity.]  Performance testing requirements.	I.K.1.c.

	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
63.8	Monitoring requirements.	I.K.1.c. V.C.4.iii.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
63.8(c)(3)	All CMS shall be installed, operational, and the data verified as specified in the relevant standard either prior to or in conjunction with conducting performance tests under §63.7. Verification of operational status shall, at a minimum, include completion of the manufacturer's written specifications or recommendations for installation, operation, and calibration o ref the system.	II.M.1.c.
63.8(d)	(d) <i>Quality control program</i> . (1) The results of the quality control program required in this paragraph will be considered by the Administrator when he/she determines the validity of monitoring data.	(d) – I.K.1.b. II.M.1.d. (d)(1) – V.G.5.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
63.9(e)	Notification of performance test. The owner or operator of an affected source shall notify the Administrator in writing of his or her intention to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin to allow the Administrator to review and approve the site-specific test plan required under §63.7(c), if requested by the Administrator, and to have an observer present during the test.	I.K.1.c.
63.9(f)	Notification of opacity and visible emission observations. The owner or operator of an affected source shall notify the Administrator in writing of the anticipated date for conducting the opacity or visible emission observations specified in §63.6(h)(5), if such observations are required for the source by a relevant standard. The notification shall be submitted with the notification of the performance test date, as specified in paragraph (e) of this section, or if no performance test is required or visibility or other conditions prevent the opacity or visible emission observations from being conducted concurrently with the initial performance test required under §63.7, the owner or operator shall deliver or postmark the notification not less than 30 days before the opacity or visible emission observations are scheduled to take place.	I.K.1.c.
63.9(g)	(g) Additional notification requirements for sources with continuous monitoring systems. The owner or operator of an affected source required to use a CMS by a relevant	I.K.1.b. I.K.1.c.

		•
	standard shall furnish the Administrator written notification as follows:	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
63.9(h)(2)	(2)(i) Before a title V permit has been issued to the owner or operator of an affected source, and each time a notification of compliance status is required under this part, the owner or operator of such source shall submit to the Administrator a notification of compliance status, signed by the responsible official who shall certify its accuracy, attesting to whether the source has complied with the relevant standard. The notification shall list—	(h)(2) - I.K.3.c.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
63.9(j)	Change in information already provided. Any change in the information already provided under this section shall be provided to the Administrator in writing within 15 calendar days after the change.	I.K.1.c.
63.10	Recordkeeping and reporting requirements.	V.G.1. V.G.2.
	(a) Applicability and general information. (1) The applicability of this section is set out in §63.1(a)(4).	V.G.3.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
63.10(d)	[The full text of this regulation is not included in this checklist for the sake of brevity.]	(d)(5) – V.G.4.
	(5)(i) Periodic startup, shutdown, and malfunction reports. If actions taken by an owner or operator during a startup or shutdown (and the startup or shutdown causes the source to exceed any applicable emission limitation in the relevant emission standards), or malfunction of an affected source (including actions taken to correct a malfunction) are consistent with the procedures specified in the source's startup, shutdown, and malfunction plan (see §63.6(e)(3)), the owner or operator shall state such information in a startup, shutdown, and malfunction report. Actions taken to minimize emissions during such startups, shutdowns, and malfunctions shall be summarized in the report and may be done in checklist form; if actions taken are the same for each event, only one checklist is necessary. Such a report shall also include	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	

63.10(e)	(3) Excess emissions and continuous monitoring system performance report and summary report. (i) Excess emissions and parameter monitoring exceedances are defined in relevant standards. The owner or operator of an affected source required to install a CMS by a relevant standard shall submit an excess emissions and continuous monitoring system performance report and/or a summary report to the Administrator semiannually, except when—  [The full text of this regulation is not included in this checklist for the sake of brevity.]	(e)(3) - V.C.5.v.c.(2). V.C.5.v.c.(3).
Subpart EEE — National Emission Standards For Hazardous Air Pollutants From Hazardous Waste Combustors		V.A.3.
General		
63.1200	Who is subject to these regulations?  [The full text of this regulation is not included in this checklist for the sake of brevity.]	
Monitoring and Compliance Provisions		
63.1206	[The full text of this regulation is not included in this checklist for the sake of brevity.]  (b) Compliance with standards-  [The full text of this regulation is not included in this checklist for the sake of brevity.]  (5) Changes in design, operation, or maintenance—(i) Changes that may adversely affect compliance. If you plan to change (as defined in paragraph (b)(5)(iii) of this section) the design, operation, or maintenance practices of the source in a manner that may adversely affect compliance with any emission standard that is not monitored with a CEMS:  (A) Notification. You must notify the Administrator at least 60 days prior to the change, unless you document	(b)(5) – I.E.10., I.G.4.

- circumstances that dictate that such prior notice is not reasonably feasible. The notification must include:
- (1) A description of the changes and which emission standards may be affected; and
- (2) A comprehensive performance test schedule and test plan under the requirements of §63.1207(f) that will document compliance with the affected emission standard(s);
- (B) Performance test. You must conduct a comprehensive performance test under the requirements of §§63.1207(f)(1) and (g)(1) to document compliance with the affected emission standard(s) and establish operating parameter limits as required under §63.1209, and submit to the Administrator a Notification of Compliance under §§63.1207(j) and 63.1210(d); and
- (C) Restriction on waste burning. (1) Except as provided by paragraph (b)(5)(i)(C)(2) of this section, after the change and prior to submitting the notification of compliance, you must not burn hazardous waste for more than a total of 720 hours (renewable at the discretion of the Administrator) and only for the purposes of pretesting or comprehensive performance testing. Pretesting is defined at §63.1207(h)(2)(i) and (ii).
- (2) You may petition the Administrator to obtain written approval to burn hazardous waste in the interim prior to submitting a Notification of Compliance for purposes other than testing or pretesting. You must specify operating requirements, including limits on operating parameters, that you determine will ensure compliance with the emission standards of this subpart based on available information. The Administrator will review, modify as necessary, and approve if warranted the interim operating requirements.
- (ii) Changes that will not affect compliance. If you determine that a change will not adversely affect compliance with the emission standards or operating requirements, you must document the change in the operating record upon making such change. You must revise as necessary the performance test plan, Documentation of Compliance, Notification of Compliance, and start-up, shutdown, and malfunction plan to reflect these changes.

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(iii) Definition of "change." For purposes of paragraph	
(b)(5) of this section, "change" means any change in	
design, operation, or maintenance practices that were	
documented in the comprehensive performance test plan,	
Notification of Compliance, or startup, shutdown, and	
malfunction plan.	
[The full text of this regulation is not included in this	
checklist for the sake of brevity.]	
(c) Operating requirements. —(1) General	(c)(1)(iii) – V.C.1.x.
[The full text of this regulation is not included in this	
checklist for the sake of brevity.]	(c)(2) - V.C.5.iv.
(iii) Failure to comply with the operating requirements is	(c)(2)(v)(A)(1) -
failure to ensure compliance with the emission standards	V.C.5.v.
of this subpart	V.C.5.v.a
The full text of this regulation is not included in this	(c)(2)(v)(A)(2) -
checklist for the sake of brevity.]	V.C.5.v.b.(1).
(2) Startup, shutdown, and malfunction plan.	(c)(2)(v)(A)(3) -
	V.C.5.v.c.
[The full text of this regulation is not included in this	(c)(2)(v)(A)(3)(i) -
checklist for the sake of brevity.]	V.C.4.v.c.(1).
(v) Operating under the startup, shutdown, and	(c)(2)(v)(A)(3)(ii)
malfunction plan—(A) Compliance with AWFCO	-V.C.4.v.c.(2).
requirements during malfunctions. (1) During	V.C.4.v.c.(2).
malfunctions, the automatic waste feed cutoff	V.C.4.V.C.(3).
requirements of §63.1206(c)(3) continue to apply, except	
for paragraphs (c)(3)(v) and (c)(3)(vi) of this section. If	
you exceed a part 63, subpart EEE, of this chapter	
emission standard monitored by a CEMS or COMs or	
operating limit specified under §63.1209, the automatic	
waste feed cutoff system must immediately and	
automatically cutoff the hazardous waste feed, except as	
provided by paragraph (c)(3)(viii) of this section. If the	
malfunction itself prevents immediate and automatic	
cutoff of the hazardous waste feed, however, you must	
cease feeding hazardous waste as quickly as possible.	
cease recuing nazardous waste as quickly as possible.	
(2) Although the automatic waste feed cutoff	
requirements continue to apply during a malfunction, an	
exceedance of an emission standard monitored by a	
CEMS or COMS or operating limit specified under	
§63.1209 is not a violation of this subpart if you take the	

corrective measures prescribed in the startup, shutdown, and malfunction plan.	
(3) Excessive exceedances during malfunctions. For each set of 10 exceedances of an emission standard or operating requirement while hazardous waste remains in the combustion chamber (i.e., when the hazardous waste residence time has not transpired since the hazardous waste feed was cutoff) during a 60-day block period, you must:	
(i) Within 45 days of the 10th exceedance, complete an investigation of the cause of each exceedance and evaluation of approaches to minimize the frequency, duration, and severity of each exceedance, and revise the startup, shutdown, and malfunction plan as warranted by the evaluation to minimize the frequency, duration, and severity of each exceedance; and	
(ii) Record the results of the investigation and evaluation in the operating record, and include a summary of the investigation and evaluation, and any changes to the startup, shutdown, and malfunction plan, in the excess emissions report required under §63.10(e)(3).	
(B) Compliance with AWFCO requirements when burning hazardous waste during startup and shutdown. (1) If you feed hazardous waste during startup or shutdown, you must include waste feed restrictions (e.g., type and quantity), and other appropriate operating conditions and limits in the startup, shutdown, and malfunction plan	(c)(2)(v)(B) - V.C.5.vi.
[The full text of this regulation is not included in this checklist for the sake of brevity.]	
(c)(3) Automatic waste feed cutoff (AWFCO)—(i) General. Upon the compliance date, you must operate the hazardous waste combustor with a functioning system that immediately and automatically cuts off the	(c)(3) - V.C.5.i. V.C.5.iv. V.C.5.v.
hazardous waste feed, except as provided by paragraph (c)(3)(viii) of this section:	(c)(3)(i)(B) – V.C.5.ii.b.
[The full text of this regulation is not included in this checklist for the sake of brevity.]	(c)(3)(i)(C) – V.C.5.ii.c.
	(c)(3)(i)(D) – V.C.5.ii.d.
	(c)(3)(ii) – V.C.5.iii.

		(c)(3)(iii) – V.C.5.vii.
		(c)(3)(iv) – V.C.5.viii.
		(c)(3)(v) – V.C.5.v.d.
		(c)(3)(vii) – V.C.5.ix.
	(c)(5) Combustion system leaks. (i) Combustion system leaks of hazardous air pollutants must be controlled by:	(c)(5) –V.E.1. V.E.2.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	(c)(5)(ii) – I.K.1.b. and I.K.1.c.
	(c)(6) Operator training and certification.	(c)(6) - I.K.13.
	(i) You must establish training programs for all categories of personnel whose activities may reasonably be expected to directly affect emissions of hazardous air pollutants from the source.	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
63.1207	What are the performance testing requirements?	I.K.1.b.
	(a) <i>General</i> . The provisions of §63.7 apply, except as noted below.	(b)(1) - I.K.1.c.
		(d)(3) - I.K.2.
	(b) Types of performance tests—(1) Comprehensive performance test. You must conduct comprehensive performance tests to demonstrate compliance with the	(e)(2) - I.K.1.f.
	emission standards provided by this subpart, establish	(j) – I.E.10., I.G.4.
	limits for the operating parameters provided by §63.1209, and demonstrate compliance with the performance specifications for continuous monitoring systems	(l)(1)(i) and (ii) – I.K.4.b.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	(l)(1)(ii)(A) or (C) - I.K.4.c.
	(d) Frequency of testing. Except as otherwise specified in	(1)(2)(i) - I.K.4.b.
	paragraph (d)(4) of this section, you must conduct testing periodically as prescribed in paragraphs (d)(1) through (d)(3) of this section. The date of commencement of the initial comprehensive performance test is the basis for	(l)(2)(ii) and (iii) – I.K.4.b., I.K.4.c.
	establishing the deadline to commence the initial confirmatory performance test and the next comprehensive performance test. You may conduct	

	(a) [Reserved]	
63.1208	What are the test methods?	I.K.1.b.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
	you conduct the test prior to your compliance date	
	apply to the initial comprehensive performance test if	
	(l) Failure of performance test—(1) Comprehensive performance test. The provisions of this paragraph do not	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
	required under §63.1211(c).	
	limits specified in the Documentation of Compliance	
	you must comply with all operating requirements specified in the Notification of Compliance in lieu of the	
	(ii) Upon postmark of the Notification of Compliance,	
	identifying operating parameter limits under §63.1209.	
	documenting compliance with the emission standards and continuous monitoring system requirements, and	
	must postmark a Notification of Compliance	
	(j)(4) and (j)(5) of this section, within 90 days of completion of a comprehensive performance test, you	
	performance test. (i) Except as provided by paragraphs	
	(j) Notification of compliance—(1) Comprehensive	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
	CMS performance evaluation plan.	
	(e) Notification of performance test and CMS performance evaluation, and approval of test plan and	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
	conduct testing as follows	
	performance test. Unless the Administrator grants a time extension under paragraph (i) of this section, you must	
	date of commencement of the previous comprehensive	
	and comprehensive performance testing is based on the	
	performance testing at any time prior to the required date.  The deadline for commencing subsequent confirmatory	

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	(b) <i>Test methods</i> . You must use the following test methods to determine compliance with the emissions standards of this subpart:	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
63.1209	What are the monitoring requirements?  (a) Continuous emissions monitoring systems (CEMS) and continuous opacity monitoring systems (COMS). (1)(i) You must use either a carbon monoxide or hydrocarbon CEMS to demonstrate and monitor compliance with the carbon monoxide and hydrocarbon standard under this subpart. You must also use an oxygen CEMS to continuously correct the carbon monoxide or hydrocarbon level to 7 percent oxygen.	V.C.1.ii. Table V-2 V.C.1.ix. (a)(6) – Table V-3.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]  (6) Calculation of rolling averages.	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
	(b) Other continuous monitoring systems (CMS).  [The full text of this regulation is not included in this checklist for the sake of brevity.]	(b)(2) – II.M.1.c.
	(2) Except as specified in paragraphs (b)(2)(i) and (ii) of this section, you must install and operate continuous monitoring systems other than CEMS in conformance with §63.8(c)(3) that requires you, at a minimum, to comply with the manufacturer's written specifications or recommendations for installation, operation, and calibration of the system	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
	(l) Mercury. You must comply with the mercury emission standard by establishing and complying with the following operating parameter limits. You must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications.	(l)(1)(i) – Table V-1
	(1) Feedrate of mercury. (i) For incinerators and solid fuel boilers, when complying with the mercury emission standards under §§63.1203, 63.1216 and 63.1219, you	

Notification, Reporting and Recordkeeping	must establish a 12-hour rolling average limit for the total feedrate of mercury in all feedstreams as the average of the test run averages.  [The full text of this regulation is not included in this checklist for the sake of brevity.]	
63.1210	(a) Summary of requirements. (1) You must submit the following notifications to the Administrator  [The full text of this regulation is not included in this checklist for the sake of brevity.]	I.G.4. (d) - I.E.10.
	(d) Notification of compliance. (1) The Notification of Compliance status requirements of §63.9(h) apply, except that:  (i) The notification is a Notification of Compliance,	
63.1211	rather than compliance status  [The full text of this regulation is not included in this checklist for the sake of brevity.]  What are the recordkeeping and reporting	II.M.1.b.
	requirements?  (a) Summary of reporting requirements. You must submit the following reports to the Administrator:  [The full text of this regulation is not included in this	II.M.2. V.G.1. V.G.2.
Replacement Emissions	checklist for the sake of brevity.]	V.G.3.
Standards and Operating Limits for Incinerators, Cement Kilns, and Lightweight Aggregate Kilns		
63.1219	What are the replacement standards for hazardous waste incinerators?	See, generally, Table V-1 in Module V.

(a) <i>Emission limits for existing sources</i> . You must not discharge or cause combustion gases to be emitted into the atmosphere that contain:	I.K.1.c.
[The full text of this regulation is not included in this checklist for the sake of brevity.]	

40 CFR Section	Requirement	Permit Condition(s)
Part 124		
Subpart A	General Program Requirements	
124.16	Stays of contested permit conditions.  (a) Stays. (1) If a request for review of a RCRA permit under § 124.19 of this part is filed, the effect of the contested permit conditions shall be stayed and shall not be subject to judicial review pending final agency action. Uncontested permit conditions shall be stayed only until the date specified in paragraph (a)(2)(i) of this section  [The full text of this regulation is not	I.C.
	included in this checklist for the sake of brevity.]	
124.20	Computation of Time.  (a) Any time period scheduled to begin on the occurrence of an act or event shall begin on the day after the act or event.  (b) Any time period scheduled to begin before the occurrence of an act or event shall be computed so that the period ends on the day before the act or event.  (c) If the final day of any time period falls on a weekend or legal holiday, the time period shall be extended to the next working day  [The full text of this regulation is not included in this checklist for the sake of brevity.]	I.G.3.
Subpart B	Specific Procedures Applicable to RCRA Permits	
124.33	(a) Applicability. The requirements of this section apply to all applications seeking RCRA permits for hazardous waste management units over which EPA has permit issuance authority. For the purposes of this section only, "hazardous waste management units over which EPA has permit issuance authority" refers to hazardous waste management units for which the State where the units are located has not been authorized to issue RCRA permits pursuant to 40 CFR part 271.	I.J.1. I.K.12.

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(b) The Director may assess the need, on a case-by-case basis, for an information repository. When assessing the need for an information repository, the Director shall consider a variety of factors, including: the level of public interest; the type of facility;	
the presence of an existing repository; and the proximity to the nearest copy of the administrative record. If the Director determines, at any time after submittal of a permit application, that there is a need for a repository, then the Director shall notify the facility that it must establish and maintain	
an information repository. (See 40 CFR 270.30(m) for similar provisions relating to the information repository during the life of a permit)	
[The full text of this regulation is not included in this checklist for the sake of brevity.]	
(e) The Director shall specify requirements for informing the public about the information repository. At a minimum, the Director shall require the facility to provide a written notice about the information repository to all individuals on the facility mailing list.	I.J.3.
(f) The facility owner/operator shall be responsible for maintaining and updating the repository with appropriate information throughout a time period specified by the Director. The Director may close the repository at his or her discretion, based on the factors in paragraph (b) of this section.	I.J.2.

40 CFR Section	Requirement	Permit Condition(s)
Part 264	STANDARDS FOR OWNERS AND	
	OPERATORS OF HAZARDOUS WASTE	
	TREATMENT, STORAGE, AND DISPOSAL FACILITIES	
	FACILITIES	
Subpart B	General Facility Standards	
264.1	(a) The purpose of this part is to establish	(g)(2) – VI.H.1.
	minimum national standards which define the	(8)( )
	acceptable management of hazardous waste.	
	(b) The standards in this part apply to owners	
	and operators of all facilities which treat, store,	
	or dispose of hazardous waste, except as	
	specifically provided otherwise in this part or part 261 of this chapter	
	part 201 of this chapter	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
	(g) The requirements of this part do not	
	apply to:	
	ETTL - C-11 44 - C41 in manufaction in making lands d	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
	in this checklist for the sake of brevity.]	
	(2) The owner or operator of a facility	
	managing recyclable materials described in	
	§261.6 (a)(2), (3), and (4) of this chapter	
	(except to the extent they are referred to in part	
	279 or subparts C, F, G, or H of part 266 of	
	this chapter)	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
264.10	Applicability.	I.
	(a) The regulations in this subpart apply to	
	owners and operators of all hazardous waste	
	facilities, except as provided in § 264.1 and in	
	paragraph (b) of this section.	
	(b) Section 264.18(b) applies only to facilities	
	subject to regulation under subparts I through O and subpart X of this part.	
264.11	Identification number.	I.
20 <del>1</del> ,11	Every facility owner or operator must apply to	1.
	EPA for an EPA identification number in	
	accordance with the EPA notification	
	procedures (45 FR 12746).	
264.12(a)	Required notices.	(1): II.B.1.

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	(1) The owner or operator of a facility that has	
	arranged to receive hazardous waste from a	
	foreign source must notify the Regional	
	Administrator in writing at least four weeks in	
	advance of the date the waste is expected to	
	arrive at the facility. Notice of subsequent	
	shipments of the same waste from the same	
	foreign source is not required	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
264.12(b)	The owner or operator of a facility that	II.B.2.
	receives hazardous waste from an off-site	
	source (except where the owner or operator is	
	also the generator) must inform the generator	
	in writing that he has the appropriate permit(s)	
	for, and will accept, the waste the generator is	
	shipping. The owner or operator must keep a	
	copy of this written notice as part of the	
	operating record.	
264.12(c)	Before transferring ownership or operation of a	I.E.12.
	facility during its operating life, or of a	
	disposal facility during the post-closure care	
	period, the owner or operator must notify the	
	new owner or operator in writing of the	
	requirements of this part and part 270 of this	
	chapter.	
	[Comment: An owner's or operator's failure to	
	notify the new owner or operator of the	
	requirements of this part in no way relieves the	
	new owner or operator of his obligation to	
	comply with all applicable requirements.]	
264.13	General waste analysis.	II.C.1.
		II.C.4.
	(a)(1) Before an owner or operator treats,	III.A.
	stores, or disposes of any hazardous wastes, or	
	nonhazardous wastes if applicable under	(b)(8) – Table IV-2.
	§264.113(d), he must obtain a detailed	
	chemical and physical analysis of a	
	representative sample of the wastes. At a	
	minimum, the analysis must contain all the	
	information which must be known to treat,	
	store, or dispose of the waste in accordance	
	with this part and part 268 of this chapter.	
	(2) The analysis may include data developed	
	under part 261 of this chapter, and existing	
	published or documented data on the hazardous	

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	waste or on hazardous waste generated from	
	similar processes	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
264.14	Security	II.D.1.
264.14(a)	(a) The owner or operator must prevent the	II.D.2.
	unknowing entry, and minimize the possibility	
	for the unauthorized entry, of persons or	
	livestock onto the active portion of his facility,	
	unless he can demonstrate to the Regional	
	Administrator that:	
	(1) Physical contact with the waste, structures, or equipment within the active portion of the	
	facility will not injure unknowing or	
	unauthorized persons or livestock which may	
	enter the active portion of a facility; and	
	(2) Disturbance of the waste or equipment, by	
	the unknowing or unauthorized entry of	
	persons or livestock onto the active portion of a	
	facility, will not cause a violation of the	
	requirements of this part	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
264.14(c)	Unless the owner or operator has made a	II.D.3.
	successful demonstration under paragraphs (a)	
	(1) and (2) of this section, a sign with the	
	legend, "Danger—Unauthorized Personnel	
	Keep Out", must be posted at each entrance to the active portion of a facility, and at other	
	locations, in sufficient numbers to be seen from	
	any approach to this active portion. The legend	
	must be written in English and in any other	
	language predominant in the area surrounding	
	the facility (e.g., facilities in counties bordering	
	the Canadian province of Quebec must post	
	signs in French; facilities in counties bordering	
	Mexico must post signs in Spanish), and must	
	be legible from a distance of at least 25 feet	
	[TTh - C-11 4 4 - C41 ] 1 4 ]	
	[The full text of this regulation is not included in this checklist for the sale of browits.]	
264.15	in this checklist for the sake of brevity.]	II.E.1.
204.13	General inspection requirements.	II.E.1. II.F.1.
264.15(a)	(a) The owner or operator must inspect his	II.E.2.
20 1.15(u)	facility for malfunctions and deterioration,	
	operator errors, and discharges which may be	
	causing—or may lead to—(1) release of	
	hazardous waste constituents to the	

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	environment or (2) a threat to human health.	
	The owner or operator must conduct these	
	inspections often enough to identify problems	
	in time to correct them before they harm	
	human health or the environment.	
264.15(b)	(1) The owner or operator must develop and	II.E.3.
	follow a written schedule for inspecting	
	monitoring equipment, safety and emergency	
	equipment, security devices, and operating and	
	structural equipment (such as dikes and sump	
	pumps) that are important to preventing,	
	detecting, or responding to environmental or	
	human health hazards.	
	(2) He must keep this schedule at the facility.	
	(3) The schedule must identify the types of	
	problems (e.g., malfunctions or deterioration)	
	which are to be looked for during the	
	inspection (e.g., inoperative sump pump,	
	leaking fitting, eroding dike, etc.).	
	(4) The frequency of inspection may vary for	
	the items on the schedule. However, the	
	frequency should be based on the rate of	
	deterioration of the equipment and the	
	probability of an environmental or human	
	health incident if the deterioration,	
	malfunction, or operator error goes undetected	
	between inspections. Areas subject to spills,	
	such as loading and unloading areas, must be	
	inspected daily when in use, except for	
	Performance Track member facilities, that	
	must inspect at least once each month, upon	
	approval by the Director, as described in	
	paragraph (b)(5) of this section. At a minimum,	
	the inspection schedule must include the items	
	and frequencies called for in §§264.174,	
	264.193, 264.195, 264.226, 264.254, 264.278,	
	264.303, 264.347, 264.602, 264.1033,	
	264.1052, 264.1053, 264.1058, and 264.1083	
	through 264.1089 of this part, where applicable	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
264.15(c)	The owner or operator must remedy any	II.E.4.
	deterioration or malfunction of equipment or	III.F.2.d.
	structures which the inspection reveals on a	
	schedule which ensures that the problem does	
	not lead to an environmental or human health	
	hazard. Where a hazard is imminent or has	
	mazara. Where a mazara is illiminion of mas	1

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	already occurred, remedial action must be	
264 15(1)	taken immediately.	H.D. C
264.15(d)	The owner or operator must record inspections	II.E.5.
	in an inspection log or summary. He must keep	
	these records for at least three years from the date of inspection. At a minimum, these	
	records must include the date and time of the	
	inspection, the name of the inspector, a	
	notation of the observations made, and the date	
	and nature of any repairs or other remedial	
	actions.	
264.16	Personnel Training	I.K.13.
		II.G.1.
264.16(a)	(1) Facility personnel must successfully	
	complete a program of classroom instruction or	
	on-the-job training that teaches them to perform their duties in a way that ensures the	
	facility's compliance with the requirements of	
	this part. The owner or operator must ensure	
	that this program includes all the elements	
	described in the document required under	
	paragraph (d)(3) of this section	
	[The full text of this regulation is not included	
264.16(1)	in this checklist for the sake of brevity.]	н с 2
264.16(d)	The owner or operator must maintain the following documents and records at the facility	II.G.2.
	- Toffowing documents and records at the facility	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
264.16(e)	Training records on current personnel must be	II.G.2.
	kept until closure of the facility; training	
	records on former employees must be kept for	
	at least three years from the date the employee	
	last worked at the facility. Personnel training	
	records may accompany personnel transferred within the same company.	
264.17	General requirements for ignitable, reactive, or	II.H.2.
201.17	incompatible wastes.	III.J.3.
	(a) The owner or operator must take	
	precautions to prevent accidental ignition or	(b) – III.K.1.
	reaction of ignitable or reactive waste. This	IV.L.1.
	waste must be separated and protected from	IV.L.2.
	sources of ignition or reaction including but	
	not limited to: open flames, smoking, cutting	(c) – III.I.6.
	and welding, hot surfaces, frictional heat,	
	sparks (static, electrical, or mechanical),	
	spontaneous ignition (e.g., from heat-	

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	producing chemical reactions), and radiant	, ,
	heat. While ignitable or reactive waste is being	
	handled, the owner or operator must confine	
	smoking and open flame to specially	
	designated locations. "No Smoking" signs	
	must be conspicuously placed wherever there	
	is a hazard from ignitable or reactive waste	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
264.18	Location standards.	(b) - II.I.
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
	(b) Floodplains. (1) A facility located in a 100-	
	year floodplain must be designed, constructed,	
	operated, and maintained to prevent washout or	
	any hazardous waste by a 100-year flood,	
	<i>unless</i> the owner or operator can demonstrate	
	to the Regional Administrator's satisfaction	
	that –	
	The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
	•	
Subpart C	Preparedness and Prevention	
264.31	Design and operation of facility.	II.A.1.
	Facilities must be designed, constructed,	IV.G.5.
	maintained, and operated to minimize the	
	possibility of a fire, explosion, or any	
	unplanned sudden or non-sudden release of hazardous waste or hazardous waste	
	constituents to air, soil, or surface water which	
	could threaten human health or the	
	environment.	
264.32	Required equipment.	II.J.1.
	All facilities must be equipped with the	
	following, <i>unless</i> it can be demonstrated to the	
	Regional Administrator that none of the	
	hazards posed by waste handled at the facility	
	could require a particular kind of equipment	
	specified below:	
	(a) An internal communications or alarm	
	system capable of providing immediate	
	emergency instruction (voice or signal) to facility personnel;	
	(b) A device, such as a telephone (immediately	
	available at the scene of operations) or a hand-	
	avanable at the seeme of operations) of a natio-	l

40 CFR Section	Requirement	Permit Condition(s)
	held two-way radio, capable of summoning	
	emergency assistance from local police	
	departments, fire departments, or State or local	
	emergency response teams;	
	(c) Portable fire extinguishers, fire control	
	equipment (including special extinguishing	
	equipment, such as that using foam, inert gas,	
	or dry chemicals), spill control equipment, and	
	decontamination equipment; and	
	(d) Water at adequate volume and pressure to	
	supply water hose streams, or foam producing	
	equipment, or automatic sprinklers, or water	
	spray systems.	
264.33	Testing and maintenance of equipment.	II.J.2.
	All facility communications or alarm systems,	
	fire protection equipment, spill control	
	equipment, and decontamination equipment,	
	where required, must be tested and maintained	
	as necessary to assure its proper operation in	
	time of emergency.	
264.34	Access to communications or alarm system.	II.J.3.
	(a) Whenever hazardous waste is being poured,	
	mixed, spread, or otherwise handled, all	
	personnel involved in the operation must have	
	immediate access to an internal alarm or	
	emergency communication device, either	
	directly or through visual or voice contact with	
	another employee, <i>unless</i> the Regional	
	Administrator has ruled that such a device is	
	not required under § 264.32	
	[The full text of this regulation is not included	
264.25	in this checklist for the sake of brevity.]	11 1 4
264.35	Required aisle space.	II.J.4.
	The owner or operator must maintain aisle	III.E.3.a.
	space to allow the unobstructed movement of	
	personnel, fire protection equipment, spill	
	control equipment, and decontamination	
	equipment to any area of facility operation in	
	an emergency, <i>unless</i> it can be demonstrated to	
	the Regional Administrator that aisle space is	
264.27	not needed for any of these purposes.	П 1 5
264.37	Arrangements with local authorities.	II.J.5.
	(a) The owner or operator must attempt to	
	make the following arrangements, as	
	appropriate for the type of waste handled at his	
	facility and the potential need for the services	
	of these organizations:	

40 CFR Section	Requirement	Permit Condition(s)
	(1) Arrangements to familiarize police, fire	
	departments, and emergency response teams	
	with the layout of the facility, properties of	
	hazardous waste handled at the facility and	
	associated hazards, places where facility personnel would normally be working,	
	entrances to and roads inside the facility, and	
	possible evacuation routes;	
	(2) Where more than one police and fire	
	department might respond to an emergency,	
	agreements designating primary emergency	
	authority to a specific police and a specific fire	
	department, and agreements with any others to	
	provide support to the primary emergency	
	authority;	
	(3) Agreements with State emergency response	
	teams, emergency response contractors, and equipment suppliers; and	
	(4) Arrangements to familiarize local hospitals	
	with the properties of hazardous waste handled	
	at the facility and the types of injuries or	
	illnesses which could result from fires,	
	explosions, or releases at the facility	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
Subpart D	Contingency Plan and Emergency Procedures	
264.50	The regulations in this subpart apply to owners	II.K.1.
	and operators of all hazardous waste facilities,	
	except as §264.1 provides otherwise.	
264.51	Purpose and implementation of contingency	II.K.1.
	plan.	
	(a) Each owner or operator must have a	
	contingency plan for his facility. The	
	contingency plan must be designed to minimize hazards to human health or the	
	environment from fires, explosions, or any	
	unplanned sudden or non-sudden release of	
	hazardous waste or hazardous waste	
	constituents to air, soil, or surface water.	
	[The full text of this regulation is not included	
264.52	in this checklist for the sake of brevity.]	и и 1
264.52	Content of contingency plan.	II.K.1.
	(a) The contingency plan must describe the	(d) - II.K.4.
	actions facility personnel must take to comply with §§ 264.51 and 264.56 in response to fires,	
	explosions, or any unplanned sudden or non-	
	expressions, or any unprainted sudden or non-	

40 CFR Section	Requirement	Permit Condition(s)
	sudden release of hazardous waste or	
	hazardous waste constituents to air, soil, or	
	surface water at the facility	
	,	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
	(d) The plan must list names, addresses, and	
	phone numbers (office and home) of all	
	persons qualified to act as emergency	
	coordinator (see § 264.55), and this list must be	
	kept up to date. Where more than one person is	
	listed, one must be named as primary	
	emergency coordinator and others must be	
	listed in the order in which they will assume	
	responsibility as alternates	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
264.53	Copies of contingency plan.	II.K.1.
201.33	A copy of the contingency plan and all	II.K.2.
	revisions to the plan must be:	11,11,2.
	(a) Maintained at the facility; and	
	(b) Submitted to all local police departments,	
	fire departments, hospitals, and State and local	
	emergency response teams that may be called	
	upon to provide emergency services.	
	[ Comment: The contingency plan must be	
	submitted to the Regional Administrator with	
	Part B of the permit application under part 270,	
	of this chapter and, after modification or	
	approval, will become a condition of any	
	permit issued.]	
264.54	Amendment of contingency plan.	II.K.1.
	The contingency plan must be reviewed, and	II.K.3.
	immediately amended, if necessary, whenever:	11.14.5.
	(a) The facility permit is revised;	
	(b) The plan fails in an emergency;	
	(c) The facility changes—in its design,	
	construction, operation, maintenance, or other	
	circumstances—in a way that materially	
	increases the potential for fires, explosions, or	
	releases of hazardous waste or hazardous waste	
	constituents, or changes the response necessary	
	in an emergency;	
	(d) The list of emergency coordinators	
	changes; or	
	(e) The list of emergency equipment changes.	
264.55	Emergency coordinator.	II.K.1.
201.00	Lines Boney Cool annucol.	11,12,1,

40 CFR Section	Requirement	Permit Condition(s)
40 CFR Section	At all times, there must be at least one employee either on the facility premises or on call (i.e., available to respond to an emergency by reaching the facility within a short period of time) with the responsibility for coordinating all emergency response measures. This emergency coordinator must be thoroughly familiar with all aspects of the facility's contingency plan, all operations and activities at the facility, the location and characteristics of waste handled, the location of all records within the facility, and the facility layout. In addition, this person must have the authority to commit the resources needed to carry out the contingency plan.  [Comment: The emergency coordinator's responsibilities are more fully spelled out in § 264.56. Applicable responsibilities for the emergency coordinator vary, depending on factors such as type and variety of waste(s) handled by the facility, and type and	Permit Condition(s) II.K.4.
264.56	complexity of the facility.]  Emergency procedures.  (a) Whenever there is an imminent or actual emergency situation, the emergency coordinator (or his designee when the emergency coordinator is on call) must immediately:  (1) Activate internal facility alarms or communication systems, where applicable, to notify all facility personnel; and  (2) Notify appropriate State or local agencies with designated response roles if their help is needed  [The full text of this regulation is not included in this checklist for the sake of brevity.]	II.K.1.
Subpart E	Manifest System, Recordkeeping, and	
264.70	Reporting  [The full text of this regulation is not included in this checklist for the sake of brevity.] (b) The revised Manifest form and procedures in 40 CFR 260.10, 261.7, 264.70, 264.71. 264.72, and 264.76, shall not apply until September 5, 2006. The Manifest form and procedures in 40 CFR 260.10, 261.7,	II.L.1.

40 CFR Section	Requirement	Permit Condition(s)
	in the 40 CFR, parts 260 to 265, edition revised as of July 1, 2004, shall be applicable until September 5, 2006.	
264.71	(a)(1) If a facility receives hazardous waste accompanied by a manifest, the owner, operator or his/her agent must sign and date the manifest as indicated in paragraph (a)(2) of this section to certify that the hazardous waste covered by the manifest was received, that the hazardous waste was received except as noted in the discrepancy space of the manifest, or that the hazardous waste was rejected as noted in the manifest discrepancy space.  (2) If a facility receives a hazardous waste shipment accompanied by a manifest, the owner, operator or his agent must —  [The full text of this regulation is not included in this checklist for the sake of brevity.]  (f) Legal equivalence to paper manifests. Electronic manifests that are obtained, completed, and transmitted in accordance with § 262.20(a)(3) of this chapter, and used in	II.L.1. II.L.1.c.
	accordance with this section in lieu of the paper manifest form are the legal equivalent of paper manifest forms bearing handwritten signatures, and satisfy for all purposes any requirement in these regulations to obtain, complete, sign, provide, use, or retain a manifest  [The full text of this regulation is not included in this checklist for the sake of brevity.]	
264.72	Manifest discrepancies.  (a) Manifest discrepancies are:  (1) Significant differences (as defined by paragraph (b) of this section) between the quantity or type of hazardous waste designated on the manifest or shipping paper, and the quantity and type of hazardous waste a facility actually receives;  (2) Rejected wastes, which may be a full or partial shipment of hazardous waste that the TSDF cannot accept; or  (3) Container residues, which are residues that exceed the quantity limits for "empty" containers set forth in 40 CFR 261.7(b)	II.L. II.L.1.a.

40 CFR Section	Requirement	Permit Condition(s)
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
264.73	Operating record.	II.B.2.
	(a) The owner or operator must keep a written	II.M.1.i.a.
	operating record at his facility.	II.M.1.i.b.
	(b) The following information must be	IV.J.6.
	recorded, as it becomes available, and	
	maintained in the operating record for three	
	years unless noted as follows –	(b)(9) – I.E.9.b. II.A.6.
	[The full text of this regulation is not included	11.71.0.
	in this checklist for the sake of brevity.]	
264.74	Availability, retention, and disposition of	(a) - I.I.2.
201.71	records.	(u) 1.1.2.
	(a) All records, including plans, required under	(b) - I.E.9.b.
	this part must be furnished upon request, and	(b) 1.E.5.0.
	made available at all reasonable times for	
	inspection, by any officer, employee, or	
	representative of EPA who is duly designated	
	by the Administrator.	
	(b) The retention period for all records	
	required under this part is extended	
	automatically during the course of any	
	unresolved enforcement action regarding the	
	facility or as requested by the Administrator	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
264.75	Biennial report.	II.M.3.
	The owner or operator must prepare and	
	submit a single copy of a biennial report to the	
	Regional Administrator by March 1 of each	
	even numbered year. The biennial report must	
	be submitted on EPA form 8700-13B. The	
	report must cover facility activities during the	
	previous calendar year and must include –	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
264.76	Unmanifested waste report.	II.L.
	(a) If a facility accepts for treatment, storage,	II.L.1.b.
	or disposal any hazardous waste from an off-	
	site source without an accompanying manifest,	
	or without an accompanying shipping paper as	
	described by § 263.20(e) of this chapter, and if	
	the waste is not excluded from the manifest	
	requirement by this chapter, then the owner or	
	operator must prepare and submit a letter to the	
	Regional Administrator within 15 days after	

40 CFR Section	Requirement	Permit Condition(s)
	receiving the waste. The unmanifested waste report must contain the following information –	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
264.77	Additional reports.  In addition to submitting the biennial reports and unmanifested waste reports described in §§ 264.75 and 264.76, the owner or operator must also report to the Regional Administrator:  (a) Releases, fires, and explosions as specified in § 264.56(j);  (b) Facility closures specified in § 264.115; and  (c) As otherwise required by subparts F, K through N, AA, BB, and CC of this part.	II.M.2.
Subpart F	Releases from Solid Waste Management Units	
264.90	Applicability.  (a)(1) Except as provided in paragraph (b) of this section, the regulations in this subpart apply to owners or operators of facilities that treat, store or dispose of hazardous waste. The owner or operator must satisfy the requirements identified in paragraph (a)(2) of this section for all wastes (or constituents thereof) contained in solid waste management units at the facility, regardless of the time at which waste was placed in such units.  (2) All solid waste management units must comply with the requirements in § 264.101  [The full text of this regulation is not included in this checklist for the sake of brevity.]  (d) Regulations in this subpart may apply to miscellaneous units when necessary to comply with §§ 264.601 through 264.603.  [The full text of this regulation is not included in this checklist for the sake of brevity.]	(a) - VI.A.1.
264.100	Corrective action program.  An owner or operator required to establish a corrective action program under this subpart must, at a minimum, discharge the following responsibilities:	(e)(2) - VI.A.4

40 CFR Section	Requirement	Permit Condition(s)
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
	(e) In addition to the other requirements of this	
	section, the owner or operator must conduct a	
	corrective action program to remove or treat in	
	place any hazardous constituents under §264.93 that exceed concentration limits under	
	\$264.94 in groundwater:	
	g201.51 in groundwater	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
	(2) Beyond the facility boundary, where	
	necessary to protect human health and the	
	environment, unless the owner or operator	
	demonstrates to the satisfaction of the Regional	
	Administrator that, despite the owner's or	
	operator's best efforts, the owner or operator	
	was unable to obtain the necessary permission to undertake such action. The owner/operator	
	is not relieved of all responsibility to clean up a	
	release that has migrated beyond the facility	
	boundary where off-site access is denied. On-	
	site measures to address such releases will be	
	determined on a case-by-case basis	
	[The full text of this regulation is not included	
264 101	in this checklist for the sake of brevity.]	X77 A 1
264.101	Corrective action for solid waste management units.	VI.A.1. VI.A.2.
	(a) The owner or operator of a facility seeking	V1.A.2.
	a permit for the treatment, storage or disposal	
	of hazardous waste must institute corrective	
	action as necessary to protect human health	
	and the environment for all releases of	
	hazardous waste or constituents from any solid	
	waste management unit at the facility,	
	regardless of the time at which waste was	
	placed in such unit	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
	encounter for the same of orevity.	
Subpart G	Closure and Post Closure	II.N.1.a.
Support	Closure und i ost Closure	II.N.1.b.
		II.N.2.
264.110	Applicability.	

40 CFR Section	Requirement	Permit Condition(s)
	Except as § 264.1 provides otherwise: (a) Sections 264.111 through 264.115 (which concern closure) apply to the owners and operators of all hazardous waste management facilities; and	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
264.111	Closure performance standard. The owner or operator must close the facility in a manner that: (a) Minimizes the need for further maintenance; and (b) Controls, minimizes or eliminates, to the extent necessary to protect human health and the environment, post-closure escape of hazardous waste, hazardous constituents, leachate, contaminated run-off, or hazardous waste decomposition products to the ground or surface waters or to the atmosphere; and (c) Complies with the closure requirements of this part, including, but not limited to, the requirements of §§ 264.178, 264.197, 264.228, 264.258, 264.280, 264.310, 264.351, 264.601 through 264.603, and 264.1102.	III.B.4.
264.112	Closure plan; amendment of plan. (a) Written plan. (1) The owner or operator of a hazardous waste management facility must have a written closure plan. In addition, certain surface impoundments and waste piles  [The full text of this regulation is not included in this checklist for the sake of brevity.]	II.N.3.a. (c)(2) - II.N.3.b. (d) - II.N.4. V.H.3.
	operator must submit a written notification of or request for a permit modification to authorize a change in operating plans, facility design, or the approved closure plan in accordance with the applicable procedures in parts 124 and 270. The written notification or request must include a copy of the amended closure plan for review or approval by the Regional Administrator	
	in this checklist for the sake of brevity.]	

40 CFR Section	Requirement	Permit Condition(s)
	(d) Notification of partial closure and final	
	closure. (1)	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
264.113	Closure; time allowed for closure.	II.N.5.
	(a) Within 90 days after receiving the final	
	volume of hazardous wastes, or the final	
	volume of non-hazardous wastes if the owner	
	or operator complies with all applicable	
	requirements in paragraphs (d) and (e) of this	
	section, at a hazardous waste management unit	
	or facility, the owner or operator must treat,	
	remove from the unit or facility, or dispose of	
	on-site, all hazardous wastes in accordance	
	with the approved closure plan. The Regional	
	Administrator may approve a longer period if	
	the owner or operator	
	[The full text of this regulation is not included	
264444	in this checklist for the sake of brevity.]	TANK C
264.114	Disposal or decontamination of equipment,	II.N.6.
	structures and soils.	
	During the partial and final closure periods, all	
	contaminated equipment, structures and soils	
	must be properly disposed of or	
	decontaminated unless otherwise specified in	
	§§ 264.197, 264.228, 264.258, 264.280 or	
	§ 264.310. By removing any hazardous wastes	
	or hazardous constituents during partial and	
	final closure, the owner or operator may	
	become a generator of hazardous waste and	
	must handle that waste in accordance with all	
	applicable requirements of part 262 of this	
264 115	chapter.	HN 7
264.115	Certification of closure.	II.N.7.
	Within 60 days of completion of closure of each hazardous waste surface impoundment,	
	1	
	waste pile, land treatment, and landfill unit, and within 60 days of the completion of final	
	closure, the owner or operator must submit to	
	the Regional Administrator, by registered mail,	
	a certification that the hazardous waste	
	management unit or facility, as applicable, has	
	been closed in accordance with the	
	specifications in the approved closure plan.	
	The certification must be signed by the owner	
	or operator and by a qualified Professional	
	Engineer. Documentation supporting the	
	Professional Engineer's certification must be	
	1 Totessional Engineer's certification must be	1

40 CFR Section	Requirement	Permit Condition(s)
	furnished to the Regional Administrator upon	
	request until he releases the owner or operator	
	from the financial assurance requirements for	
	closure under §264.143(i).	
264.117	Post-closure care and use of property.	II.O.
	(a)(1) Post-closure care for each hazardous	
	waste management unit subject to the	
	requirements of §§ 264.117 through 264.120	
	must begin after completion of closure of the	
	unit and continue for 30 years after that date	
	and must consist of at least the following:	
	[The full text of this recordation is not included	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
264.118		II.O.
204.110	Post-closure plan; amendment of plan. (a) Written Plan. The owner or operator of a	11.0.
	hazardous waste disposal unit must have a	
	written post-closure plan	
	written post crosure plan	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
264.119	Post-closure notices.	II.O.
	(a) No later than 60 days after certification of	
	closure of each hazardous waste disposal unit.	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
264.120	Certification of completion of post-closure	II.O.
	care.	
	No later than 60 days after completion of the	
	established post-closure care period for each	
	hazardous waste disposal unit	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
	in this electrist for the sake of elevity.]	
Subpart H	Financial Requirements	
264.142	Cost estimate for closure.	II.P.1.
	(a) The owner or operator must have a detailed	II.P.5.
	written estimate, in current dollars, of the cost	
	of closing the facility in accordance with	(b) - II.P.2.a.
	FTTI 0 II	II.P.2.b.
	[The full text of this regulation is not included	(c) - II.P.3.
	in this checklist for the sake of brevity.]	(d) - II.P.4.
	(b) During the active life of the facility the	
	(b) During the active life of the facility, the	
	owner or operator must adjust the closure cost	

40 CFR Section	Requirement	Permit Condition(s)
	estimate for inflation within 60 days prior to the anniversary date of the establishment of the financial instrument(s) used to comply with § 264.143. For owners and operators using the financial test or corporate guarantee, the closure cost estimate must be updated for inflation within 30 days after the close of the firm's fiscal year and before submission of updated information to the Regional Administrator as specified in § 264.143(f)(3). The adjustment may be made by	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
	(c) During the active life of the facility, the owner or operator must revise the closure cost estimate no later than 30 days after the Regional Administrator has approved the request to modify the closure plan, if the change in the closure plan increases the cost of closure. The revised closure cost estimate must be adjusted for inflation as specified in § 264.142(b).  (d) The owner or operator must keep the following at the facility during the operating life of the facility: The latest closure cost estimate prepared in accordance with § 264.142 (a) and (c) and, when this estimate has been adjusted in accordance with § 264.142(b), the latest adjusted closure cost estimate.	
264.143	Financial assurance for closure. An owner or operator of each facility must establish financial assurance for closure of the facility. He must choose from the options as specified in paragraphs (a) through (f) of this section	II.P.5. II.Q.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
264.144	Cost estimate for post-closure care.  (a) The owner or operator of a disposal surface impoundment, disposal miscellaneous unit, land treatment unit, or landfill unit, or of a surface impoundment or waste pile required under §§264.228 and 264.258 to prepare a contingent closure and post-closure plan, must	II.P.1.

40 CFR Section	Requirement	Permit Condition(s)
	have a detailed written estimate, in current	
	dollars, of the annual cost of post-closure	
	monitoring and maintenance of the facility in	
	accordance with the applicable post-closure	
	regulations in §§264.117 through 264.120,	
	264.228, 264.258, 264.280, 264.310, and	
	264.603	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
264.147	Liability requirements.	(a) - II.R.
	(a) Coverage for sudden accidental	
	occurrences. An owner or operator of a	
	hazardous waste treatment, storage, or disposal	
	facility, or a group of such facilities, must	
	demonstrate financial responsibility for bodily	
	injury and property damage to third parties	
	caused by sudden accidental occurrences	
	arising from operations of the facility or group	
	of facilities	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
264.148	Incapacity of owners or operators, guarantors,	II.S.
201.110	or financial institutions.	11.0.
	(a) An owner or operator must notify the	
	Regional Administrator by certified mail of the	
	commencement of a voluntary or involuntary	
	proceeding under Title 11 (Bankruptcy), U.S.	
	Code	
	[The full text of this regulation is not included	
264.151	in this checklist for the sake of brevity.]	ПО
264.151	Wording of the instruments.	II.Q.
	• • •	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
Subpart I	Use and Management of Containers	III.B.3.
264 170	Applicability	III D 1
264.170	Applicability.	III.B.1.
	The regulations in this subpart apply to owners	
	and operators of all hazardous waste facilities	
	that store containers of hazardous waste,	
	except as § 264.1 provides otherwise.	
	[ Comment: Under § 261.7 and § 261.33(c), if a hazardous waste is emptied from a container	
	the residue remaining in the container is not	
	the residue remaining in the container is not	<u> </u>

40 CFR Section	Requirement	Permit Condition(s)
	considered a hazardous waste if the container	
	is "empty" as defined in § 261.7. In that event,	
	management of the container is exempt from	
	the requirements of this subpart.]	
264.171	Condition of containers.	II.E.4.
	If a container holding hazardous waste is not in	III.C.
	good condition (e.g., severe rusting, apparent	III.F.2.d.
	structural defects) or if it begins to leak, the	III.H.1. IV.C.1.
	owner or operator must transfer the hazardous waste from this container to a container that is	1V.C.1.
	in good condition or manage the waste in some	
	other way that complies with the requirements	
	of this part.	
264.172	Compatibility of waste with containers.	III.D.1.
201.172	The owner or operator must use a container	III.D.2.
	made of or lined with materials which will not	III.D.4.
	react with, and are otherwise compatible with,	
	the hazardous waste to be stored, so that the	
	ability of the container to contain the waste is	
	not impaired.	
264.173	Management of containers.	III.E.3.c.
	(a) A container holding hazardous waste must	
	always be closed during storage, except when	(a) - III.E.1.
	it is necessary to add or remove waste.	
	(b) A container holding hazardous waste must	(b) - III.E.2.
	not be opened, handled, or stored in a manner	III.E.3.b.
	which may rupture the container or cause it to leak.	
	[ Comment: Reuse of containers in	
	transportation is governed by U.S. Department	
	of Transportation regulations including those	
	set forth in 49 CFR 173.28.]	
264.174	Inspections.	III.H.3.
	At least weekly, the owner or operator must	
	inspect areas where containers are stored,	
	except for Performance Track member	
	facilities,	
	[The full text of this regulation is not included	
264.175	in this checklist for the sake of brevity.]	W 1.5
264.175	Containment.	III.I.5.a.
	(a) Container storage areas must have a	III.K.4.
	containment system that is designed and	(b) III F 1
	operated in accordance with paragraph (b) of this section, except as otherwise provided by	(b) III.F.1. III.F.2.c.
	paragraph (c) of this section.	111.1 .2.0.
	(b) A containment system must be designed	(b)(3) - III.B.2.
	and operated as follows:	(b)(5) - III.F.2.a.
		(-)(-)
	i	l .

40 CFR Section	Requirement	Permit Condition(s)
	[The full text of this regulation is not included	(c) - III.F.1.
	in this checklist for the sake of brevity.]	III.I.5.b.
264.176	Special requirements for ignitable or reactive	III.D.4.
	waste.	III.I.3.
	Containers holding ignitable or reactive waste	III.J.1.
	must be located at least 15 meters (50 feet)	III.J.2.
	from the facility's property line.	
	[ Comment: See § 264.17(a) for additional	
264 177	requirements.]	III D. 4
264.177	Special requirements for incompatible wastes.	III.D.4.
	(a) Incompatible wastes, or incompatible	III.I.4.
	wastes and materials (see appendix V for	(a) III I 2
	examples), must not be placed in the same container, unless § 264.17(b) is complied with.	(a) – III.J.2. III.K.1.
	container, unless § 204.17(0) is complied with.	111.K.1.
		(c) – III.K.3.
	[The full text of this regulation is not included	(c) III.K.3.
	in this checklist for the sake of brevity.]	
264.178	Closure.	III.B.4.
20 7 0	At closure, all hazardous waste and hazardous	III.L.1.
	waste residues must be removed from the	III.L.2.
	containment system. Remaining containers,	
	liners, bases, and soil containing or	
	contaminated with hazardous waste or	
	hazardous waste residues must be	
	decontaminated or removed.	
	[Comment: At closure, as throughout the	
	operating period, unless the owner or operator	
	can demonstrate in accordance with § 261.3(d)	
	of this chapter that the solid waste removed	
	from the containment system is not a	
	hazardous waste, the owner or operator	
	becomes a generator of hazardous waste and	
	must manage it in accordance with all	
	applicable requirements of parts 262 through	
264.179	266 of this chapter].  Air emission standards.	III.G.1.
204.179	The owner or operator shall manage all	111.0.1.
	hazardous waste placed in a container in	
	accordance with the applicable requirements of	
	subparts AA, BB, and CC of this part.	
	buoparto 111, 52, and 00 of time part.	
Subpart J	Tank Systems	IV.B.3.
264.191	Assessment of existing tank system's integrity.	I.K.8.a.
201,171	1.55055mont of existing tank system's integrity.	I.K.8.b.
	(a) For each existing tank system that does not	IV.A.1.
	have secondary containment meeting the	IV.J.1.
	requirements of §264.193, the owner or	27.0.1.
	requirements of \$201.175, the owner of	1

40 CFR Section	Requirement	Permit Condition(s)
	operator must determine that the tank system is	, ,
	not leaking or is unfit for use. Except as	
	provided in paragraph (c) of this section, the	
	owner or operator must obtain and keep on file	
	at the facility a written assessment reviewed	
	and certified by a qualified Professional	
	Engineer, in accordance with §270.11(d) of	
	this chapter, that attests to the tank system's integrity by January 12, 1988	
	integrity by January 12, 1988	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
264.192	Design and installation of new tank systems or	IV.A.1.
	components.	IV.B.2.
	(a) Owners or operators of new tank systems or	IV.B.4.a.
	components must obtain and submit to the	IV.B.4.b.
	Regional Administrator, at time of submittal of	
	part B information, a written assessment,	(a) – IV.B.4.
	reviewed and certified by a qualified	
	Professional Engineer, in accordance with	
	§ 270.11(d) of this chapter, attesting that the	
	tank system has sufficient structural integrity	
	and is acceptable for the storing and treating of	
	hazardous waste. The assessment must show	
	•	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
264.193	Containment and detection of releases.	I.K.7.
	(a) In order to prevent the release of hazardous	IV.F.1.
	waste or hazardous constituents to the	IV.F.6.a.
	environment, secondary containment that	
	meets the requirements of this section must be	(b)(1) - IV.F.3.
	provided (except as provided in paragraphs (f)	
	and (g) of this section):	(e) - IV.F.4.
	[The full text of this regulation is not included	(e)(1) - IV.F.7.
	in this checklist for the sake of brevity.]	
		(e)(1)(i), (ii), (iii) and (iv) - IV.F.2.
		(e)(1)(iii) – IV.F.3.
		(e)(3) - IV.F.5.
		(i) - I.K.8.a.
		I.K.8.b.
		IV.F.6.b.i.
		IV.H.2.d.

40 CFR Section	Requirement	Permit Condition(s)
		(i)(4) – IV.J.5.
		(i)(5) – IV.H.10.
264.194	General operating requirements.  (a) Hazardous wastes or treatment reagents must not be placed in a tank system if they could cause the tank, its ancillary equipment, or the containment system to rupture, leak, corrode, or otherwise fail.  (b) The owner or operator must use appropriate controls and practices to prevent spills and overflows from tank or containment systems. These include at a minimum:  [The full text of this regulation is not included]	(a) - IV.D.1. (b) - IV.E.1. IV.E.2.
264.195	Inspections.  (a) The owner or operator must develop and follow a schedule and procedure for inspecting overfill controls.  (b) The owner or operator must inspect at least once each operating day data gathered from monitoring and leak detection equipment (e.g., pressure or temperature gauges, monitoring wells) to ensure that the tank system is being operated according to its design  [The full text of this regulation is not included in this checklist for the sake of brevity.]	IV.H.3. (b) - IV.H.4. (c)(1) - IV.H.2.a. (c)(2) - IV.H.2.b. (f) - IV.F.6.b.ii. (f)(1)-(4) - IV.H.2.c. (h) - IV.J.6.
264.196	Response to leaks or spills and disposition of leaking or unfit-for-use tank systems.  A tank system or secondary containment system from which there has been a leak or spill, or which is unfit for use, must be removed from service immediately, and the owner or operator must satisfy the following requirements:  (a) Cessation of use; prevent flow or addition of wastes  [The full text of this regulation is not included in this checklist for the sake of brevity.]	(a) - IV.I.1.a. (b) - IV.I.1.b. (c) - IV.I.1.c.ii. (d)(1) - IV.J.2. (d)(2) - IV.J.2. (d)(3) - IV.J.3.e. (e)(2) - IV.I.1.d.i. (e)(3) - IV.I.1.d.ii.

40 CFR Section	Requirement	Permit Condition(s)
		(e)(4) – IV.I.1.d.iii.
		(O IV.I.1
		(f) – IV.I.1.e. IV.J.4.
264.197	Closure and post-closure care.	(a) - IV.M.1.
	(a) At closure of a tank system, the owner or	(b) - IV.M.2.
	operator must remove or decontaminate all	(c) - I.K.9.
	waste residues, contaminated containment	IV.F.6.b.iii.
	system components (liners, etc.), contaminated	IV.M.3.
	soils, and structures and equipment contaminated with waste, and manage them as	(c)(3) - II.P.1.
	hazardous waste, unless § 261.3(d) of this	(C)(S) = 11.1.1.
	chapter applies. The closure plan, closure	(c)(5) - II.P.1.
	activities, cost estimates for closure, and	
	financial responsibility for tank systems must	
	meet all of the requirements specified in	
	subparts G and H of this part. (b) If the owner or operator demonstrates that	
	not all contaminated soils can be practicably	
	removed or decontaminated as required in	
	paragraph (a) of this section, then	
	[The full text of this regulation is not included	
264.198	in this checklist for the sake of brevity.]  Special requirements for ignitable or reactive	(a) - IV.K.1.iii.
204.170	wastes.	(a) - 1 v .IX.1.III.
	(a) Ignitable or reactive waste must not be	(a)(1)(i) & (ii) –
	placed in tank systems, unless:	IV.K.1.i.
	(1) The waste is treated, rendered, or mixed	(1) HV IV 2
	before or immediately after placement in the tank system so that:	(b) - IV.K.2.
	talik system so tilat	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
264.199	Special requirements for incompatible wastes.	(a) - IV.L.1.
	(a) Incompatible wastes, or incompatible	(b) - IV.L.2.
	wastes and materials, must not be placed in the same tank system, unless § 264.17(b) is	
	complied with.	
	(b) Hazardous waste must not be placed in a	
	tank system that has not been decontaminated	
	and that previously held an incompatible waste	
	or material, unless § 264.17(b) is complied with.	
264.228	The full text of this regulation is not included	(c)(2) - II.P.1.
201.220	in this checklist for the sake of brevity.]	(2)(2) 11.1.1.
	2 22 24	
	-::	
	(c)	

40 CFR Section	Requirement	Permit Condition(s)
	[The full text of this regulation is not included in this checklist for the sake of brevity.] (2) The cost estimates calculated under	
	§§264.142 and 264.144 for closure and post- closure care of an impoundment subject to this	
	paragraph must include the cost of complying with the contingent closure plan and the contingent post-closure plan, but are not required to include the cost of expected closure under paragraph (a)(1) of this section	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
264.258	[The full text of this regulation is not included in this checklist for the sake of brevity.]	II.P.1.
	(c)	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
	(2) The cost estimates calculated under §§264.142 and 264.144 for closure and post-closure care of a pile subject to this paragraph must include the cost of complying with the contingent closure plan and the contingent post-closure plan, but are not required to include the cost of expected closure under paragraph (a) of this section	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
Subpart O 264.341	Incinerators Waste analysis.	V.A.3. (b) - V.C.1.iii.
204.341	waste analysis.	(b) - V.C.1.III.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
	(b) Throughout normal operation the owner or operator must conduct sufficient waste analysis to verify that waste feed to the incinerator is within the physical and chemical composition limits specified in his permit (under § 264.345(b)).	

40 CFR Section	Requirement	Permit Condition(s)
264.344	Hazardous waste incinerator permits.	(a)(1) - I.K.1.b.
	(a) The owner or operator of a hazardous waste incinerator may burn only wastes specified in his permit and only under operating conditions specified for those wastes under §264.345, except:	
	(1) In approved trial burns under §270.62 of this chapter	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
264.345	Operating requirements.	(d) – V.E.1.
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
	<ul><li>(d) Fugitive emissions from the combustion zone must be controlled by:</li><li>(1) Keeping the combustion zone totally sealed</li></ul>	
	against fugitive emissions; or (2) Maintaining a combustion zone pressure lower than atmospheric pressure; or (3) An alternate means of control demonstrated (with part B of the permit application) to provide fugitive emissions control equivalent to maintenance of combustion zone pressure lower than atmospheric pressure	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
264.347	Monitoring and inspections.  (a) The owner or operator must conduct, as a minimum, the following monitoring while	(a)(3) – V.I. (b) – V.F.2.
	incinerating hazardous waste: (1) Combustion temperature, waste feed rate, and the indicator of combustion gas velocity	(c) – V.C.5.ix.
	specified in the facility permit must be monitored on a continuous basis.  (2) CO must be monitored on a continuous basis at a point in the incinerator downstream of the combustion zone and prior to release to the atmosphere.	(d) – V.C.5.ix. V.G.1
	(3) Upon request by the Regional Administrator, sampling and analysis of the waste and exhaust emissions must be	

40 CFR Section	Requirement	Permit Condition(s)
	conducted to verify that the operating	
	requirements established in the permit achieve	
	the performance standards of §264.343.	
	(b) The incinerator and associated equipment	
	(pumps, valves, conveyors, pipes, etc.) must be	
	subjected to thorough visual inspection, at least	
	daily, for leaks, spills, fugitive emissions, and	
	signs of tampering.	
	(c) The emergency waste feed cutoff system	
	and associated alarms must be tested at least	
	weekly to verify operability, unless the	
	applicant demonstrates to the Regional	
	Administrator that weekly inspections will	
	unduly restrict or upset operations and that less	
	frequent inspection will be adequate. At a	
	minimum, operational testing must be	
	conducted at least monthly.	
	(d) This monitoring and inspection data must	
	be recorded and the records must be placed in	
	the operating record required by § 264.73 of	
	this part and maintained in the operating record	
	for five years.	
264.351	Closure.	V.H.1.
	At closure the owner or operator must remove	
	all hazardous waste and hazardous waste	
	residues (including, but not limited to, ash,	
	scrubber waters, and scrubber sludges) from	
	the incinerator site	
	[The comment accompanying this regulation is	
	not included in this checklist for the sake of	
	brevity.]	
Subpart X	Miscellaneous Units	XX 4 4
264.600	Applicability.	V.A.1.
	The requirements in this subpart apply to	V.A.2.
	owners and operators of facilities that treat,	V.A.3.
	store, or dispose of hazardous waste in	
	miscellaneous units, except as § 264.1	
264.601	provide[s] otherwise.	37 A 1
264.601	Environmental performance standards.	V.A.1.
	A miscellaneous unit must be located,	V.A.2.
	designed, constructed, operated, maintained,	V.A.3.
	and closed in a manner that will ensure	
	protection of human health and the	
	environment. Permits for miscellaneous units	
	are to contain such terms and provisions as	
	necessary to protect human health and the	
	environment, including, but not limited to, as	

40 CFR Section	Requirement	Permit Condition(s)
	appropriate, design and operating	, ,
	requirements, detection and monitoring	
	requirements, and requirements for responses	
	to releases of hazardous waste or hazardous	
	constituents from the unit. Permit terms and	
	provisions must include those requirements of	
	subparts I through O and subparts AA through	
	CC of this part, part 270, part 63 subpart EEE,	
	and part 146 of this chapter that are appropriate	
	for the miscellaneous unit being permitted.	
	Protection of human health and the	
	environment includes, but is not limited to:	
	(a) Prevention of any releases that may have	
	adverse effects on human health or the	
	environment due to migration of waste	
	constituents in the ground water or subsurface	
	environment, considering:	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
	, ,	
	(b) Prevention of any releases that may have	
	adverse effects on human health or the	
	environment due to migration of waste	
	constituents in surface water, or wetlands or on	
	the soil surface considering:	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
	(c) Prevention of any release that may have	
	adverse effects on human health or the	
	environment due to migration of waste	
	constituents in the air, considering:	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
264.602	Monitoring, analysis, inspection, response,	V.A.1.
	reporting, and corrective action.	V.A.2.
	Monitoring, testing, analytical data,	V.A.3.
	inspections, response, and reporting procedures	
	and frequencies must ensure compliance with	
	§§ 264.601, 264.15, 264.33, 264.75, 264.76,	
	264.77, and 264.101 as well as meet any	
	additional requirements needed to protect	
	human health and the environment as specified	
	in the permit.	
264.603	Post-closure care.	V.A.1.
		V.A.2.

40 CFR Section	Requirement	Permit Condition(s)
	A miscellaneous unit that is a disposal unit	V.A.3.
	must be maintained in a manner that complies	
	with § 264.601 during the post-closure care	
	period. In addition, if a treatment or storage	
	unit has contaminated soils or ground water that cannot be completely removed or	
	decontaminated during closure, then that unit	
	must also meet the requirements of § 264.601	
	during post-closure care. The post-closure plan	
	under § 264.118 must specify the procedures	
	that will be used to satisfy this requirement.	
Subpart AA	Air Emissions Standards for Process Vents	
264.1031	[The full text of this regulation is not included	II.M.4.
	in this checklist for the sake of brevity.]	
	Equipment means each valve, pump,	
	compressor, pressure relief device, sampling	
	connection system, open-ended valve or line,	
	or flange or other connector, and any control	
	devices or systems required by this subpart	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
Subpart BB	Air Emissions Standards for Equipment Leaks.	I.K.10.a.
Suopart BB	7 III Dinissions Standards for Equipment Leaks.	II.H.4.
		IV.G.1.
		IV.G.2.b.
		IV.G.2.c.
		IV.G.3.
264.1050	[The full text of this regulation is not included	Table IV-2. III.G.6.
204.1030	[The full text of this regulation is not included in this checklist for the sake of brevity.]	111.0.6.
	(b) Except as provided in §264.1064(k), this	
	subpart applies to equipment that contains or	
	contacts hazardous wastes with organic	
	concentrations of at least 10 percent by weight	
	that are managed in one of the following:	
	[The full text of this regulation is not included	
264 1060	in this checklist for the sake of brevity.]	W. I.O.
264.1060	Standards: Closed-vent systems and control	IV.J.8.
	devices.	
	(a) Owners and operators of closed-vent systems and control devices subject to this	
	subpart shall comply with the provisions of	
	§ 264.1033 of this part.	
1	, · · <b>l</b>	

40 CFR Section	Requirement	Permit Condition(s)
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
264.1063	Test methods and procedures.  (a) Each owner or operator subject to the provisions of this subpart shall comply with the test methods and procedures requirements provided in this section.  [The full text of this regulation is not included in this checklist for the sake of brevity.]  (d) In accordance with the waste analysis plan required by § 264.13(b), an owner or operator of a facility must determine, for each piece of equipment, whether the equipment contains or contacts a hazardous waste with organic concentration that equals or exceeds 10 percent by weight using the following:  [The full text of this regulation is not included in this checklist for the sake of brevity.]  (f) When an owner or operator and the Regional Administrator do not agree on whether a piece of equipment contains or contacts a hazardous waste with organic concentrations at least 10 percent by weight, the procedures in paragraph (d)(1) or (d)(2) of this section can be used to resolve the dispute.	II.C.8.  (d) – I.K.10.b. I.K.10.c. III.G.6.  (d)(1) – I.K.10.e.  (d)(2) – I.K.10.e.  (f) II.H.4.
264.1064	in this checklist for the sake of brevity.]  Recordkeeping requirements.  (a)(1) Each owner or operator subject to the provisions of this subpart shall comply with the recordkeeping requirements of this section  [The full text of this regulation is not included in this checklist for the sake of brevity.]  (k) The following information shall be recorded in a log that is kept in the facility operating record for use in determining exemptions as provided in the applicability section of this subpart and other specific subparts:	II.M.1.b. II.M.4. IV.J.8.  (k) – III.G.6.  (m) - I.K.10.d. IV.G.10. Table IV-2.

40 CFR Section	Requirement	Permit Condition(s)
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
	(m) The owner or operator of a facility with equipment that is subject to this subpart and to regulations at 40 CFR part 60, part 61, or part 63 may elect to determine compliance with this subpart either by documentation pursuant to § 264.1064 of this subpart, or by documentation of compliance with the regulations at 40 CFR part 60, part 61, or part 63 pursuant to the relevant provisions of the regulations at 40 part 60, part 61, or part 63. The documentation of compliance under regulations at 40 CFR part 60, part 61, or part 63 shall be kept with or made readily available with the facility operating record.	
264.1065	Reporting requirements.  (a) A semiannual report shall be submitted by owners and operators subject to the requirements of this subpart to the Regional Administrator by dates specified by the Regional Administrator. The report shall include the following information:	II.M.4.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
Subpart CC	Air Emissions Standards for Tanks, Surface Impoundments and Containers	III.G.1. IV.G.8. Table IV-2.
264.1080	[The full text of this regulation is not included in this checklist for the sake of brevity.]  (b) The requirements of this subpart do not apply to the following waste management units at the facility:  [The full text of this regulation is not included in this checklist for the sake of brevity.]  (7) A hazardous waste management unit that the owner or operator certifies is equipped with and operating air emission controls in accordance with the requirements of an applicable Clean Air Act regulation codified under 40 CFR part 60, part 61, or part 63. For the purpose of complying with this paragraph, a tank for which the air emission control	(b)(7) – IV.G.6.

40 CFR Section	Requirement	Permit Condition(s)
	includes an enclosure, as opposed to a cover,	
	must be in compliance with the enclosure and	
	control device requirements of §264.1084(i), except as provided in §264.1082(c)(5)	
	except as provided in \$204.1002(c)(3)	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
264.1082	Standards: General.	III.G.3.
	[The full text of this regulation is not included	IV.G.6. Table IV-2.
	in this checklist for the sake of brevity.]	1 aute 1 v - 2.
	(b) The owner or operator shall control air	(c) – III.G.2.
	pollutant emissions from each hazardous waste	IV.G.8.
	management unit in accordance with standards	
	specified in §§ 264.1084 through 264.1087 of	(c)(1) - IV.G.6.
	this subpart, as applicable to the hazardous waste management unit, except as provided for	IV.G.8.a.iv. Table IV-2.
	in paragraph (c) of this section.	V.E.2.
	The first of the second of	,,_,_,
	(c) A tank, surface impoundment, or container	(c)(2) - III.G.4.
	is exempt from standards specified in	( ) (2) ( ) ( )
	§ 264.1084 through § 264.1087 of this subpart,	(c)(2)(i)-(vi) -
	as applicable, provided that the waste management unit is one of the following:	IV.G.7.
	management unit is one of the following.	(d) – II.C.9.
	(1) A tank, surface impoundment, or container	
	for which all hazardous waste entering the unit	
	has an average VO concentration at the point	
	of waste origination of less than 500 parts per	
	million by weight (ppmw)  [The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
	and suite of oretray.	
	(2) A tank, surface impoundment, or container	
	for which the organic content of all the	
	hazardous waste entering the waste	
	management unit has been reduced by an organic destruction or removal process that	
	achieves any one of the following conditions:	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
	(d) The Regional Administrator may at any	
	time perform or request that the owner or	
	operator perform a waste determination for a	
	hazardous waste managed in a tank, surface	
	impoundment, or container exempted from	

40 CFR Section	Requirement	Permit Condition(s)
	using air emission controls under the	
	provisions of this section as follows:	
	[The full text of this regulation is not included	
264 1002	in this checklist for the sake of brevity.]	HI C 2
264.1083	Waste determination procedures.	III.G.3.
	(a) Waste determination procedure to determine average volatile organic (VO)	III.G.4. IV.G.6.
	concentration of a hazardous waste at the point	1V.G.0.
	of waste origination.	(a) - III.G.2.
	or waste origination.	IV.G.6.
	[The full text of this regulation is not included	17.0.0.
	in this checklist for the sake of brevity.]	(b) - IV.G.7.
	,	(*)
	(b) Waste determination procedures for treated	
	hazardous waste	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
264.1084	Standards: Tanks.	IV.H.6.
	(a) The provisions of this section apply to the	Table IV-2.
	control of air pollutant emissions from tanks	(b)(1)(i) (iii)
	for which §264.1082(b) of this subpart references the use of this section for such air	(b)(1)(i) – (iii) – IV.G.8.a.i.
	emission control.	IV.G.8.a.ii.
	(b) The owner or operator shall control air	1 v . O . O . a . 11 .
	pollutant emissions from each tank subject to	(b)(2) – IV.G.8.a.ii.
	this section in accordance with the following	(-)(-)
	requirements as applicable:	(c) – IV.G.8.a.i.
	(1) For a tank that manages hazardous waste	
	that meets all of the conditions specified in	(d) - IV.G.8.a.i.
	paragraphs (b)(1)(i) through (b)(1)(iii) of this	IV.G.8.a.ii.
	section, the owner or operator shall	( ) WIGO
		(g) - IV.G.8.a.iii.
	[The full text of this regulation is not included	(i) IV C 9 o iv
	in this checklist for the sake of brevity.]	(j) - IV.G.8.a.iv.
	(2) For a tank that manages hazardous waste	(k) - IV.I.2.
	that does not meet all of the conditions	(K) 1 V.1.2.
	specified in paragraphs (b)(1)(i) through	
	(b)(1)(iii) of this section, the owner or operator	
	shall	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	
	(c) Owners and operators controlling air	
	pollutant emissions from a tank using Tank	
	Level 1 controls shall meet the requirements	

40 CFR Section	Requirement	Permit Condition(s)
	specified in paragraphs (c)(1) through (c)(4) of this section:	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
	(d) Owners and operators controlling air pollutant emissions from a tank using Tank Level 2 controls shall use one of the following tanks:	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
	(g) The owner or operator who controls air pollutant emissions from a tank by venting the tank to a control device shall meet the requirements specified in paragraphs (g)(1) through (g)(3) of this section.	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
	(j) The owner or operator shall transfer hazardous waste to a tank subject to this section in accordance with the following requirements:	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
	(k) The owner or operator shall repair each defect detected during an inspection performed in accordance with the requirements of paragraph (c)(4), (e)(3), (f)(3), or (g)(3) of this section as follows:	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
264.1086	Standards: Containers.  (a) The provisions of this section apply to the control of air pollutant emissions from containers for which §264.1082(b) of this subpart references the use of this section for such air emission control.	III.I.1. (b) - III.G.5.b. III.G.5.c. III.G.5.d.
	(b) General requirements. (1) The owner or operator shall control air pollutant emissions from each container subject to this section in accordance with the following requirements, as	(c) - III.G.5.b. (c)(4) – III.H.5.a.iii.

Requirement	Permit Condition(s)
applicable to the container, except when the special provisions for waste stabilization	(c)(4)(iii) – III.H.5.a.ii.
processes specified in paragraph (b)(2) of this section apply to the container	(d) - III.G.5.c.
[The full text of this regulation is not included in this checklist for the sake of brevity.]	(d)(4) – III.H.5.b.
	(e) - III.G.5.d.
container using Container Level 1 controls is one of the following:	(e)(4) – III.H.5.c.
[The full text of this regulation is not included in this checklist for the sake of brevity.]	
(d) Container Level 2 standards. (1) A container using Container Level 2 controls is one of the following:	
[The full text of this regulation is not included in this checklist for the sake of brevity.]	
(e) Container Level 3 standards. (1) A container using Container Level 3 controls is one of the following:	
[The full text of this regulation is not included in this checklist for the sake of brevity.]	
Standards: Closed-vent systems and control devices.  (a) This section applies to each closed-vent system and control device installed and operated by the owner or operator to control air emissions in accordance with standards of this subpart	IV.G.1. Table IV-2.
[The full text of this regulation is not included in this checklist for the sake of brevity.]	
Inspection and monitoring requirements.  (a) The owner or operator shall inspect and monitor air emission control equipment used to comply with this subpart in accordance with the applicable requirements specified in § 264.1084 through § 264.1087 of this subpart.  (b) The owner or operator shall develop and implement a written plan and schedule to perform the inspections and monitoring required by paragraph (a) of this section. The	III.H.4. IV.G.1.
	special provisions for waste stabilization processes specified in paragraph (b)(2) of this section apply to the container  [The full text of this regulation is not included in this checklist for the sake of brevity.]  (c) Container Level 1 standards. (1) A container using Container Level 1 controls is one of the following:  [The full text of this regulation is not included in this checklist for the sake of brevity.]  (d) Container Level 2 standards. (1) A container using Container Level 2 controls is one of the following:  [The full text of this regulation is not included in this checklist for the sake of brevity.]  (e) Container Level 3 standards. (1) A container using Container Level 3 controls is one of the following:  [The full text of this regulation is not included in this checklist for the sake of brevity.]  Standards: Closed-vent systems and control devices.  (a) This section applies to each closed-vent system and control device installed and operated by the owner or operator to control air emissions in accordance with standards of this subpart  [The full text of this regulation is not included in this checklist for the sake of brevity.]  Inspection and monitoring requirements.  (a) The owner or operator shall inspect and monitor air emission control equipment used to comply with this subpart in accordance with the applicable requirements specified in § 264.1084 through § 264.1087 of this subpart. (b) The owner or operator shall develop and implement a written plan and schedule to

40 CFR Section	Requirement	Permit Condition(s)
	and schedule into the facility inspection plan	
	required under 40 CFR 264.15.	
264.1089	Recordkeeping requirements.	II.M.2.
	(a) Each owner or operator of a facility subject	III.I.1.
	to requirements of this subpart shall record and	IV.G.1.
	maintain the information specified in	
	paragraphs (b) through (j) of this section, as	(f)(1) - IV.G.4.
	applicable to the facility	Table IV-2.
	[The full text of this regulation is not included	(j) - IV.G.10.
	in this checklist for the sake of brevity.]	Table IV-2.
264.1090	Reporting requirements.	II.M.2.
	(a) Each owner or operator managing	III.I.2.
	hazardous waste in a tank, surface	IV.G.1.
	impoundment, or container exempted from	
	using air emission controls under the	(a) - IV.G.4.
	provisions of § 264.1082(c) of this subpart	Table IV-2.
	shall report to the Regional Administrator each	
	occurrence when hazardous waste is placed in	
	the waste management unit in noncompliance	
	with the conditions specified in § 264.1082	
	(c)(1) or $(c)(2)$ of this subpart, as applicable	
	[The full text of this regulation is not included	
	in this checklist for the sake of brevity.]	

40 CFR Section	Requirement	Permit Condition(s)
Part 270		VI.G.4.
Subpart A		
270.1	Purpose and scope of these regulations.  (a) Coverage. (1) These permit regulations establish provisions for the Hazardous Waste Permit Program under Subtitle C of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act of 1976, as amended (RCRA), (Pub. L. 94-580, as amended by Pub. L. 95-609 and by Pub. L. 96-482; 42 U.S.C. 6091 et seq.). They apply to EPA and to approved States to the extent provided in part 271  [The full text of this regulation is not included in this checklist for the sake of brevity.]	(c) - I.A.1 II.A.2. II.A.5.
	(c) Scope of the RCRA permit requirement. RCRA requires a permit for the "treatment," "storage," and "disposal" of any "hazardous waste" as identified or listed in 40 CFR part 261.   [The full text of this regulation is not included in this checklist for the sake of brevity.]	
270.3	Considerations under Federal law.  The following is a list of Federal laws that may apply to the issuance of permits under these rules. When any of these laws is applicable, its procedures must be followed. When the applicable law requires consideration or adoption of particular permit conditions or requires the denial of a permit, those requirements also must be followed.  (a) The Wild and Scenic Rivers Act. 16 U.S.C. 1273 et seq. Section 7 of the Act prohibits the Regional Administrator from assisting by license or otherwise the construction of any water resources project that would have a direct, adverse effect on the values for which a national wild and scenic river was established.  (b) The National Historic Preservation Act of 1966. 16 U.S.C. 470 et seq. Section 106 of the Act and implementing regulations (36 CFR part 800) require the Regional Administrator, before issuing a license, to adopt measures when feasible to mitigate potential adverse effects of the licensed activity and properties listed or eligible for listing in the National Register of Historic Places. The Act's requirements are to be implemented in cooperation with State Historic Preservation Officers and upon notice to, and	(a) EPA's analysis of the Wild and Scenic Rivers Act is described in Section 5.4.3. of this Statement of Basis.  (b) EPA's National Historic Preservation Act (NHPA) Determination is described in Section 5.4.1. of this Statement of Basis, and included at Appendix C, hereto.

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40 CFR Section	Requirement	Permit	
		Condition(s)	
	when appropriate, in consultation with the Advisory Council	(c) EPA's	
	on Historic Preservation.	Endangered	
	(c) The Endangered Species Act. 16 U.S.C. 1531 et seq.	Species Act	
	Section 7 of the Act and implementing regulations (50 CFR	(ESA)	
	part 402) require the Regional Administrator to ensure, in	Determination is	
	consultation with the Secretary of the Interior or Commerce,	described in	
	that any action authorized by EPA is not likely to jeopardize	Section 5.4.2. of	
	the continued existence of any endangered or threatened	this Statement of	
	species or adversely affect its critical habitat.	Basis, and	
	(d) The Coastal Zone Management Act. 16 U.S.C. 1451 et	included at	
	seq. Section 307(c) of the Act and implementing regulations	Appendix D.	
	(15 CFR part 930) prohibit EPA from issuing a permit for an	rippenam B.	
	activity affecting land or water use in the coastal zone until	(d) EPA's	
	the applicant certifies that the proposed activity complies	analysis of the	
	with the State Coastal Zone Management program, and the	Coastal Zone	
	State or its designated agency concurs with the certification	Management Act	
	(or the Secretary of Commerce overrides the State's	is described in	
	nonconcurrence).	Section 5.4.4. of	
	· · · · · · · · · · · · · · · · · · ·	this Statement of	
	(e) The Fish and Wildlife Coordination Act. 16 U.S.C. 661 et		
	seq. requires that the Regional Administrator, before issuing	Basis.	
	a permit proposing or authorizing the impoundment (with	( ) ED 4 2	
	certain exemptions), diversion, or other control or	(e) EPA's	
	modification of any body of water, consult with the	analysis of the	
	appropriate State agency exercising jurisdiction over wildlife	Fish and Wildlife	
	resources to conserve those resources	Coordination Act	
		is described in	
	[The full text of this regulation is not included in this	Section 5.4.5. of	
	checklist for the sake of brevity.]	this Statement of	
		Basis.	
270.4	Effect of a permit.	I.A.1.	
	(a)(1) Compliance with a RCRA permit during its term		
	constitutes compliance, for purposes of enforcement, with	(a)(1) - I.A.8.	
	subtitle C of RCRA except for those requirements not		
	included in the permit which:	(a)(1)(i)-(iv) –	
	(i) Become effective by statute;	I.A.4.	
	(ii) Are promulgated under part 268 of this chapter	II.A.2.	
	restricting the placement of hazardous wastes in or on the	II.A.5.	
	land;		
	(iii)		
	[The full text of this regulation is not included in this		
	checklist for the sake of brevity.]		
	should be the same of orevery.		
	or		
	(iv) Are promulgated under subparts AA, BB, or CC of part		
	265 of this chapter limiting air emissions		
	200 of this chapter minting an emissions		
		1	

40 CFR Section	Requirement	Permit
40 CFK Section		Condition(s)
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	(a)(2) - I.B.1.
	(2) A permit may be modified, revoked and reissued, or terminated during its term for cause as set forth in §§ 270.41 and 270.43, or the permit may be modified upon the request of the permittee as set forth in § 270.42.	
		(b) - I.A.2.
	(b) The issuance of a permit does not convey any property rights of any sort, or any exclusive privilege.	(a) IA2
	(c) The issuance of a permit does not authorize any injury to persons or property or invasion of other private rights, or any infringement of State or local law or regulations.	(c) - I.A.3.
270.10	General application requirements.	I.E.3.
	(a) Applying for a permit. Below is information on how to obtain a permit and where to find requirements for specific permits	(h) - I.E.2.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
	(h) Reapplying for a permit. If you have an effective permit and you want to reapply for a new one, you have two options:	
	(1) You may submit a new application at least 180 days before the expiration date of the effective permit, unless the Director allows a later date; or	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
270.10(i)	Recordkeeping. Applicants shall keep records of all data used to complete permit applications and any supplemental information submitted under §§ 270.10(d), 270.13, 270.14 through 270.21 for a period of at least 3 years from the date the application is signed.	II.M.5. Date application signed: April 8, 2016.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
270.11	Signatories to permit applications and reports. (a) Applications	I.F.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	(d) – I.K.8.a. I.K.8.b. IV.I.1.e.

40 CFR Section	Requirement	Permit
	(b) Reports. All reports required by permits and other information requested by the Director shall be signed by a person described in paragraph (a) of this section, or by a duly authorized representative of that person. A person is a duly authorized representative only if	Condition(s)
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
	(d)(1) Any person signing a document under paragraph (a) or (b) of this section must make the following certification	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
270.12	Confidentiality of Information	I.H.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
270.13	Contents of part A of the permit application.	I.E.3. VI.L.1.
	Part A of the RCRA application shall include the following information	VI.L.I.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
270.14	Contents of part B: General requirements.	I.E.3.
	(a) Part B of the permit application consists of the general information requirements of this section, and the specific information requirements in §§0.14 through 270.29 applicable to the facility	VI.L.1.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
270.15	Specific part B information requirements for containers.	VI.L.1.
	Except as otherwise provided in §264.170, owners or operators of facilities that store containers of hazardous waste must provide the following additional information	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
270.16	Specific part B information requirements for tank systems.	VI.L.1.
	Except as otherwise provided in §264.190, owners and operators of facilities that use tanks to store or treat	

40 CFR Section	Requirement	Permit Condition(s)
	hazardous waste must provide the following additional information	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
270.17	Specific part B information requirements for surface impoundments.	VI.L.1.
	Except as otherwise provided in §264.1, owners and operators of facilities that store, treat or dispose of hazardous waste in surface impoundments must provide the following additional information	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
270.18	Specific part B information requirements for waste piles.	VI.L.1.
	Except as otherwise provided in §264.1, owners and operators of facilities that store or treat hazardous waste in waste piles must provide the following additional information	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
270.19	Except as \$264.340 of this Chapter and \$270.19(e) provide otherwise, owners and operators of facilities that incinerate hazardous waste must fulfill the requirements of paragraphs (a), (b), or (c) of this section  [The full text of this regulation is not included in this	VI.L.1.
270.20	checklist for the sake of brevity.]  Specific part B information requirements for land treatment facilities.	VI.L.1.
	Except as otherwise provided in §264.1, owners and operators of facilities that use land treatment to dispose of hazardous waste must provide the following additional information	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
270.21	Specific part B information requirements for landfills.  Except as otherwise provided in §264.1, owners and operators of facilities that dispose of hazardous waste in	VI.L.1.

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40 CFR Section	Requirement	Permit
		Condition(s)
	landfills must provide the following additional information	
	[The full text of this regulation is not included in this	
	checklist for the sake of brevity.]	
270.22	Specific part B information requirements for boilers and	VI.L.1.
	industrial furnaces burning hazardous waste.	
	When an owner or operator of a cement kiln, lightweight	
	aggregate kiln, solid fuel boiler, liquid fuel boiler, or	
	hydrochloric acid production furnace becomes subject to	
	RCRA permit requirements after October 12, 2005, or when	
	an owner or operator of an existing cement kiln, lightweight	
	aggregate kiln, solid fuel boiler, liquid fuel boiler, or	
	hydrochloric acid production furnace demonstrates	
	compliance with the air emission standards and limitations in	
	part 63, subpart EEE, of this chapter (i.e., by conducting a	
	comprehensive performance test and submitting a	
	Notification of Compliance under §§63.1207(j) and	
	63.1210(d) of this chapter documenting compliance with all	
	. ,	
	applicable requirements of part 63, subpart EEE, of this	
	chapter), the requirements of this section do not apply. The	
	requirements of this section do apply, however, if the	
	Director determines certain provisions are necessary to	
	ensure compliance with §§266.102(e)(1) and	
	266.102(e)(2)(iii) of this chapter if you elect to comply with	
	§270.235(a)(1)(i) to minimize emissions of toxic compounds	
	from startup, shutdown, and malfunction events; or if you are	
	an area source and elect to comply with the §\$266.105,	
	266.106, and 266.107 standards and associated requirements	
	for particulate matter, hydrogen chloride and chlorine gas,	
	and non-mercury metals; or the Director determines certain	
	provisions apply, on a case-by-case basis, for purposes of	
	information collection in accordance with §§270.10(k),	
	270.10(l), 270.32(b)(2), and 270.32(b)(3)	
	[The full text of this regulation is not included in this	
	checklist for the sake of brevity.]	
270.23	Specific part B information requirements for miscellaneous	V.A.1.
	units.	V.A.2.
		V.A.3.
	Except as otherwise provided in §264.600, owners and	V.C.1.iii.
	operators of facilities that treat, store, or dispose of	
	hazardous waste in miscellaneous units must provide the	
	following additional information	
	TOHOWING AUGITIONAL INTOLLIATION	
	[The full text of this regulation is not included in this	
	[The full text of this regulation is not included in this	
	checklist for the sake of brevity.]	

40 CFR Section	Requirement	Permit Condition(s)
Subpart C	PERMIT CONDITIONS	
270.30(a)	Duty to comply. The permittee must comply with all conditions of this permit, except that the permittee need not comply with the conditions of this permit to the extent and for the duration such noncompliance is authorized in an emergency permit. (See § 270.61). Any permit noncompliance, except under the terms of an emergency permit, constitutes a violation of the appropriate Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.	I.E.1.
270.30(b)	Duty to reapply. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit.	I.B.2. I.E.2.
270.30(c)	Need to halt or reduce activity not a defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.	I.E.4.
270.30(d)	In the event of noncompliance with the permit, the permittee shall take all reasonable steps to minimize releases to the environment, and shall carry out such measures as are reasonable to prevent significant adverse impacts on human health or the environment.	I.E.5.
270.30(e)	Proper operation and maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.	I.E.6.
270.30(f)	Permit actions. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.	I.B.1.
270.30(g)	Property rights. The permit does not convey any property rights of any sort, or any exclusive privilege.	I.A.2.

40 CFR Section	Requirement	Permit Condition(s)
270.30(h)	Duty to provide information. The permittee shall furnish to the Director, within a reasonable time, any relevant information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.	I.E.7.
270.30(i)	Inspection and entry. The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law to:  (1) Enter at reasonable times upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;  (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;  (3) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and  (4) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by RCRA, any substances or parameters at any location.	I.E.8.
270.30(j)	Monitoring and records. (1) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.  (2) The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, the certification required by § 264.73(b)(9) of this chapter, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report, certification, or application. This period may be extended by request of the Director at any time. The permittee shall maintain records from all ground-water monitoring wells and associated ground-water surface elevations, for the active life of the facility, and for disposal facilities for the post-closure care period as well.  (3) Records for monitoring information shall include  [The full text of this regulation is not included in this	(j)(1) I.E.9.a. (j)(2) I.E.9.b. (j)(3) I.E.9.c.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	

40 CFR Section	Requirement	Permit Condition(s)
270.30(k)	Signatory requirements. All applications, reports, or information submitted to the Director shall be signed and certified (See § 270.11.)	I.F.
270.30(1)	Reporting requirements—(1) Planned changes. The permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility.  (2) Anticipated noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. For a new facility, the permittee may not treat, store, or dispose of hazardous waste; and for a facility being modified, the permittee may not treat, store, or dispose of hazardous waste; and for a facility being modified, the permittee may not treat, store, or dispose of hazardous waste in the modified portion of the facility except as provided in § 270.42, until:  (i) The permittee has submitted to the Director by certified mail or hand delivery a letter signed by the permittee and a registered professional engineer stating that the facility has been constructed or modified in compliance with the permit; and  (ii)(A) The Director has inspected the modified or newly constructed facility and finds it is in compliance with the conditions of the permit; or  (B) Within 15 days of the date of submission of the letter in paragraph (1)(2)(i) of this section, the permittee has not received notice from the Director of his or her intent to inspect, prior inspection is waived and the permittee may commence treatment, storage, or disposal of hazardous waste.  (3) Transfers. This permit is not transferable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under RCRA. (See § 270.40)  (4) Monitoring reports. Monitoring results shall be reported at the intervals specified elsewhere in this permit.  (5) Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedul	(l)(1) I.E.10. (l)(2) I.E.11. (l)(3) I.E.12. (l)(5) I.E.14. (l)(6)(i) I.E.13.a. (l)(6)(iii) I.E.13.b. (l)(6)(iii) I.E.13.c. (l)(7) II.L.1., II.L.1.a. (l)(8) II.L.1., II.L.1.b. (l)(9) II.M.3. (l)(10) I.E.15. (l)(11) I.E.16.

40 CFR Section	Requirement	Permit
40 CFR Section	Requirement	Condition(s)
	(A) Information concerning release of any hazardous waste	Condition(s)
	that may cause an endangerment to public drinking water	
	supplies.	
	(B) Any information of a release or discharge of hazardous	
	waste or of a fire or explosion from the HWM facility, which	
	could threaten the environment or human health outside the	
	facility.	
	(ii) The description of the occurrence and its cause shall	
	include:	
	(A) Name, address, and telephone number of the owner or	
	operator;	
	(B) Name, address, and telephone number of the facility;	
	(C) Date, time, and type of incident;	
	(D) Name and quantity of material(s) involved;	
	(E) The extent of injuries, if any;	
	(F) An assessment of actual or potential hazards to the	
	environment and human health outside the facility, where	
	this is applicable; and	
	(G) Estimated quantity and disposition of recovered material	
	that resulted from the incident.	
	(iii) A written submission shall also be provided within 5	
	days of the time the permittee becomes aware of the	
	circumstances. The written submission shall contain a	
	description of the noncompliance and its cause; the period of	
	noncompliance including exact dates and times, and if the	
	noncompliance has not been corrected, the anticipated time it	
	is expected to continue; and steps taken or planned to reduce,	
	eliminate, and prevent reoccurrence of the noncompliance.	
	The Director may waive the five day written notice	
	requirement in favor of a written report within fifteen days.	
	(7) Manifest discrepancy report: If a significant discrepancy	
	in a manifest is discovered, the permittee must attempt to	
	reconcile the discrepancy. If not resolved within fifteen days,	
	the permittee must submit a letter report, including a copy of	
	the manifest, to the Director. (See 40 CFR 264.72.)	
	(8) <i>Unmanifested waste report</i> : This report must be	
	submitted to the Director within 15 days of receipt of	
	unmanifested waste. (See 40 CFR 264.76.)	
	(9) Biennial report: A biennial report must be submitted	
	covering facility activities during odd numbered calendar	
	years. (See 40 CFR 264.75.)	
	(10) Other noncompliance. The permittee shall report all	
	instances of noncompliance not reported under paragraphs	
	(1)(4), (5), and (6) of this section, at the time monitoring	
	reports are submitted. The reports shall contain the	
	information listed in paragraph (1)(6) of this section.	
	(11) Other information. Where the permittee becomes aware	
	that it failed to submit any relevant facts in a permit	

40 CFR Section	Requirement	Permit Condition(s)
	application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information.	Condition(c)
270.30(m)	Information repository. The Director may require the permittee to establish and maintain an information repository at any time, based on the factors set forth in 40 CFR 124.33(b). The information repository will be governed by the provisions in 40 CFR 124.33(c) through (f).	I.J.1. I.J.2. I.J.3. I.K.12.
270.31	Requirements for recording and reporting of monitoring results.  All permits shall specify:  (a) Requirements concerning the proper use, maintenance, and installation, when appropriate, of monitoring equipment or methods (including biological monitoring methods when appropriate);  (b) Required monitoring including type, intervals, and frequency sufficient to yield data which are representative of the monitored activity including, when appropriate, continuous monitoring;  (c) Applicable reporting requirements based upon the impact of the regulated activity and as specified in parts 264, 266 and 267. Reporting shall be no less frequent than specified in the above regulations.	II.M See, also, Modules III through VI for more detail.
270.32	Establishing permit conditions.  [The full text of this regulation is not included in this checklist for the sake of brevity.]  (c) For a State issued permit, an applicable requirement is a State statutory or regulatory requirement which takes effect prior to final administrative disposition of a permit. For a permit issued by EPA, an applicable requirement is a statutory or regulatory requirement (including any interim final regulation) which takes effect prior to the issuance of the permit. Section 124.14 (reopening of comment period) provides a means for reopening EPA permit proceedings at the discretion of the Director where new requirements become effective during the permitting process and are of sufficient magnitude to make additional proceedings desirable. For State and EPA administered programs, an applicable requirement is also any requirement which takes effect prior to the modification or revocation and reissuance of a permit, to the extent allowed in §270.41	I.A.8.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	

40 CFR Section	Requirement	Permit Condition(s)
270.33(a)	The permit may, when appropriate, specify a schedule of compliance leading to compliance with the Act and regulations.	I.K.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
Culturant D	Changes to Downits	
Subpart D 270.40	Changes to Permits Transfer of permits.	I.E.12.
270.40	Transfer of permits.	1.E.12.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
270.41	Modification or revocation and reissuance of permits	I.B.1. VI.A.4.
	[The full text of this regulation is not included in this	VI.K.
	checklist for the sake of brevity.]	VI.L.3.
270.42		VI.M.
270.42	Permit modification at the request of the permittee.	I.B.1. I.E.10.
	(a) Class 1 modifications. (1) Except as provided in	I.G.6.a.
	paragraph (a)(2) of this section, the permittee may put into	I.G.6.b.
	effect Class 1 modifications listed in appendix I of this	I.G.6.c.
	section under the following conditions	I.G.7.a.
	devices where the remaining constitutions in a	I.K.5.c.
	[The full text of this regulation is not included in this	II.A.4.
	checklist for the sake of brevity.]	II.K.3.b.
		II.N.3.b
	(b) Class 2 modifications. (1) For Class 2 modifications,	II.N.3.c.
	listed in appendix I of this section, the permittee must submit	II.N.5.
	a modification request to the Director that	IV.B.2.
		VI.E.2.
	[The full text of this regulation is not included in this	VI.K.
	checklist for the sake of brevity.]	(c) – VI.L.1.
	(c) Class 3 modifications. (1) For Class 3 modifications listed in appendix I of this section, the permittee must submit	(d) – I.G.7.b.
	a modification request to the Director that	Appendix I – I.G.7.a.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
	(d) Other modifications. (1) In the case of modifications not explicitly listed in appendix I of this section, the permittee may submit a Class 3 modification request to the Agency, or he or she may request a determination by the Director that the modification should be reviewed and approved as a Class 1 or Class 2 modification. If the permittee requests that the	

40.000.0		I
40 CFR Section	Requirement	Permit
		Condition(s)
	modification be classified as a Class 1 or 2 modification, he	
	or she must provide the Agency with the necessary	
	information to support the requested classification.	
	(2) The Director shall make the determination described in	
	paragraph (d)(1) of this section as promptly as practicable. In	
	determining the appropriate class for a specific modification,	
	the Director shall consider the similarity of the modification	
	to other modifications codified in appendix I and the	
	following criteria	
	[The full text of this regulation is not included in this	
	checklist for the sake of brevity.]	
	Appendix I to §270.42—Classification of Permit	
	Modification	
	[The full text of this regulation is not included in this	
	checklist for the sake of brevity.]	
270.43	Termination of permits.	I.B.1.
	•	VI.A.6.
	[The full text of this regulation is not included in this	
	checklist for the sake of brevity.]	
Subpart E	<b>Expiration and Continuation of Permits</b>	
270.50	Duration of permits.	I.E.3.
_,	(a) RCRA permits shall be effective for a fixed term not to	1.2.0.
	exceed 10 years.	
	(b) Except as provided in § 270.51, the term of a permit shall	
	not be extended by modification beyond the maximum	
	duration specified in this section.	
	(c) The Director may issue any permit for a duration that is	
	less than the full allowable term under this section	
	[The full text of this regulation is not included in this	
	checklist for the sake of brevity.]	
270.51	Continuation of expiring permits.	I.E.3.
	(a) EPA permits. When EPA is the permit-issuing authority,	
	the conditions of an expired permit continue in force under 5	
	U.S.C. 558(c) until the effective date of a new permit (see	
	§ 124.15) if:	
	(1) The permittee has submitted a timely application under	
	§ 270.14 and the applicable sections in §§ 270.15 through	
	270.29 which is a complete (under § 270.10(c)) application	
	for a new permit; and	
	(2) The Regional Administrator through no fault of the	
	permittee, does not issue a new permit with an effective date	
	permittee, does not issue a new permit with an effective date	

# $\frac{\text{CHECKLIST FOR CARBON REGENERATION FACILITY, PARKER, AZ}}{\underline{\text{PERMIT}}}$

40 CFR Section	Requirement	Permit Condition(s)
	under § 124.15 on or before the expiration date of the previous permit (for example, when issuance is impracticable due to time or resource constraints)	Condition(s)
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	
Subpart F	SPECIAL FORMS OF PERMITS	
270.62	Hazardous waste incinerator permits.	I.K.1.b. VI.L.1.
	When an owner or operator of a hazardous waste incineration unit becomes subject to RCRA permit	
	requirements after October 12, 2005, or when an owner or operator of an existing hazardous waste incineration unit demonstrates compliance with the air emission standards and limitations in part 63, subpart EEE, of this chapter (i.e., by conducting a comprehensive performance test and submitting a Notification of Compliance under §§63.1207(j) and 63.1210(d) of this chapter documenting compliance with all applicable requirements of part 63, subpart EEE, of this chapter), the requirements of this section do not apply, except those provisions the Director determines are necessary to ensure compliance with §§264.345(a) and 264.345(c) of this chapter if you elect to comply with §270.235(a)(1)(i) to minimize emissions of toxic compounds from startup, shutdown, and malfunction events.  Nevertheless, the Director may apply the provisions of this section, on a case-by-case basis, for purposes of information collection in accordance with §§270.10(k), 270.10(l), 270.32(b)(2), and 270.32(b)(3).	(b)(2) – I.K.1.c.
	(a) For the purposes of determining operational readiness following completion of physical construction, the Director must establish permit conditions, including but not limited to allowable waste feeds and operating conditions, in the permit to a new hazardous waste incinerator. These permit conditions will be effective for the minimum time required to bring the incinerator to a point of operational readiness to conduct a trial burn, not to exceed 720 hours operating time for treatment of hazardous waste. The Director may extend the duration of this operational period once, for up to 720 additional hours, at the request of the applicant when good cause is shown. The permit may be modified to reflect the extension according to §270.42 of this chapter	
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	

# $\frac{\text{CHECKLIST FOR CARBON REGENERATION FACILITY, PARKER, AZ}}{\underline{\text{PERMIT}}}$

		1
40 CFR Section	Requirement	Permit Condition(s)
	<ul> <li>(b) For the purposes of determining feasibility of compliance with the performance standards of §264.343 of this chapter and of determining adequate operating conditions under §264.345 of this chapter, the Director must establish conditions in the permit for a new hazardous waste incinerator to be effective during the trial burn.</li> <li>(1) Applicants must propose a trial burn plan, prepared under paragraph (b)(2) of this section with a part B of the permit application.</li> <li>(2) The trial burn plan must include the following information</li> <li>[The full text of this regulation is not included in this checklist for the sake of brevity.]</li> </ul>	
270.63	Permits for land treatment demonstrations using field test or laboratory analyses.  (a) For the purpose of allowing an owner or operator to meet the treatment demonstration requirements of §264.272 of this chapter, the Director may issue a treatment demonstration permit. The permit must contain only those requirements necessary to meet the standards in §264.272(c). The permit may be issued either as a treatment or disposal permit covering only the field test or laboratory analyses, or as a two-phase facility permit covering the field tests, or laboratory analyses, and design, construction operation and maintenance of the land treatment unit	VI.L.1.
	[The full text of this regulation is not included in this checklist for the sake of brevity.]	

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# U.S. Environmental Protection Agency Resource Conservation & Recovery Act Draft Permit EPA RCRA I.D. Number: AZD982441263

BENEFICIAL COLORADO RIVER INDIAN OPERATOR: EVOQUA WATER TECHNOLOGIES,

LANDOWNER: TRIBES LLC

26600 Mohave Road 2523 Mutahar Street Parker, Arizona 85344 Parker, Arizona 85344

Pursuant to the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act (RCRA) of 1976, 42 USC Sections 6901 <u>et seq.</u>, and the Hazardous and Solid Waste Amendments (HSWA) of 1984, P.L. 98-616 (collectively, hereafter, "RCRA"), and regulations promulgated thereunder by the U.S. Environmental Protection Agency (EPA) (codified and to be codified in Title 40 of the Code of Federal Regulations), this Permit is issued to Evoqua Water Technologies, LLC and the Colorado River Indian Tribes (collectively, hereafter, the "Permittees"), for the facility located at 2523 Mutahar Street, Parker, Arizona 85344 with the EPA RCRA ID # AZD982441263.

This Permit, with all its attachments, constitutes the full RCRA Permit for this Facility. The Permittees, pursuant to this Permit, are required to investigate any releases of hazardous waste or hazardous constituents at the Facility, regardless of the time at which waste was placed in a unit. The Permittees are required to take appropriate corrective action for any such releases.

The Permittees must comply with all the terms and conditions of this Permit. This Permit consists of the conditions contained herein (including those in any appendices) and the applicable regulations contained in 40 CFR Parts 61, 63, 124, and 260 through 270, as specified in this Permit, and the statutory requirements of RCRA. Nothing in this Permit shall preclude the Regional Administrator from reviewing and modifying the Permit at any time during its term in accordance with 40 CFR § 270.41.

This Permit is based on the premise that information and reports submitted by the Permittees prior to issuance of this Permit are complete and accurate, unless otherwise indicated in this Permit. Any inaccuracies found in this information or information submitted as required by this Permit may be grounds for termination or modification of this Permit in accordance with 40 CFR §§ 270.41, 270.42, or 270.43 and/or potential enforcement. The Permittees must inform the EPA of any deviation from or changes in the information in the application which would affect the Permittees' ability to comply with the applicable regulations or Permit conditions.

This Permit is effective \_\_\_\_\_\_, and shall remain in effect for ten (10) years until \_\_\_\_\_\_, unless revoked and reissued, or terminated under 40 CFR §§ 270.41 and/or 270.43 or continued in accordance with 40 CFR § 270.51(a). All obligations for performance of the conditions of this Permit are in effect until deemed complete by the Director of the Land Division for the U.S. Environmental Protection Agency, Region 9 (the "Director").

DRAFT RCRA PERMIT Evoqua Water Technologies LLC Colorado River Indian Tribes EPA ID# AZD982441263 Introduction/Table of Contents, Page 2 September 2016

If any conditions of this Permit are appealed in accordance with 40 CFR § 124.19, the effective date of the conditions determined to be stayed in accordance with 40 CFR § 124.16 shall be determined by <u>final agency action</u> as specified under 40 CFR § 124.19.

Date Issued Jeff Scott Director Land Division

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#### MODULE I - GENERAL PERMIT CONDITIONS

#### I. <u>INTRODUCTION</u>

This document, consisting of Modules I through VI and the Permit Attachments, Permit Exhibits, and any other documents incorporated herein, constitutes a hazardous waste permit under Subtitle C of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act of 1976, as amended, (RCRA), and the applicable regulations at Title 40 of the Code of Federal Regulations (40 CFR) Parts 260 through 270 for hazardous waste storage and treatment at a carbon regeneration facility (EPA ID Number - AZD982441263) (Permit) located on the Colorado River Indian Tribes (CRIT) Reservation near Parker, Arizona. At the Evoqua Water Technologies LLC Facility (defined below), spent carbon is treated in a regeneration furnace to purify it and make it suitable as a commercial product. [See 40 CFR §§ 264.10 and 264.11.]

### I.A. EFFECT OF PERMIT

- I.A.1. The Permittees Evoqua Water Technologies LLC and CRIT are allowed to store and treat hazardous waste in accordance with the conditions of this Permit. Any storage or treatment of hazardous waste at the Facility not authorized in this Permit is prohibited. Pursuant to 40 CFR §270.4, compliance with this Permit generally constitutes compliance, for purposes of enforcement with RCRA, with some exceptions (42 U.S.C. §§6901 et seq.). [See also Permit Conditions II.A.2. and II.A.5. and 40 CFR Part 262, §§270.1(c), and 270.4.]
- I.A.2. Issuance of this Permit does not convey any property rights of any sort or any exclusive privilege. [See 40 CFR §§270.4(b) and 270.30(g).]
- I.A.3. Issuance of this Permit does not authorize any injury to persons or property, any invasion of other private rights, or any infringement of Tribal, state or local law or regulations. [See 40 CFR §270.4(c).]
- I.A.4. Compliance with the terms of this Permit does not constitute a defense to any order issued or any action brought under Sections 3008(h), 3013, or

DRAFT RCRA PERMIT Evoqua Water Technologies LLC Colorado River Indian Tribes EPA ID # AZD982441263 MODULE I, Page 2 September 2016

7003 of RCRA, Sections 104, 106(a) or 107 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) (42 U.S.C. §§9601 et seq.), or any other law providing for protection of public health or the environment. In addition, compliance with the terms of this Permit does not constitute a defense to any order issued or any action brought under Sections 3008(a), solely with respect to those requirements set forth at 40 CFR § 270.4(a)(1)(i)-(iv).

- I.A.5. This Permit supersedes any and all requirements included in the attachments, sections, and appendices of the permit application. However, to the extent that any attachments, sections or appendices of the permit application are incorporated into and made a part of this Permit, and to the extent that any such attachments, sections or appendices contradict or conflict with the requirements of the Permit set forth in Modules I through VI, inclusive, the conditions set forth in Modules I through VI shall control. In addition, references to RCRA's interim status requirements (40 CFR Part 265) contained in such attachments, sections or appendices are superseded by the standards applicable to RCRA permitted facilities (40 CFR Part 264), as appropriate, upon the effective date of this Permit.
- I.A.6. Unless set forth specifically otherwise herein, requirements of this Permit apply to both the tribal trust landowner and the operator of the Facility, who are referred to herein collectively as the "Permittees." However, compliance with such requirements of this Permit by either the Tribe, as beneficial landowner, or the operator is regarded as sufficient for both. [See 45 Federal Register (FR) 33295/col. 3, (May 19, 1980).]
- I.A.7. Where citations to regulatory authority are included at the end of a permit condition -- for example "[See 40 CFR §264.XXX.]" -- such references are solely to assist those reading the Permit with identifying the source of the requirement to which the citation applies. Such citations do not, in and of themselves, incorporate the regulatory requirement into the permit condition. However, where regulations are referenced in the body of a permit condition for example "Pursuant to 40 CFR § 264.XXX" or "In accordance with 40 CFR § 264.XXX," the requirements of the regulation so cited are incorporated into the permit condition.

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I.A.8. For the purposes of this Permit, any reference to a regulatory requirement (including any interim final regulation) shall refer to the version of such regulatory requirement which is in effect at the time of issuance of the permit. With some exceptions as set forth in 40 CFR § 270.4(a)(1), where regulatory authorities affecting conditions of this Permit are issued, revised or amended after the issuance of this Permit, such new, revised or amended provisions shall only be applicable to the operations of the Facility after a permit modification incorporates such requirements or after a renewal of the Permit, incorporating or referencing such new, revised or amended regulations, is issued. [See 40 CFR 270.32(c) and 40 CFR § 270.4(a)(1).]

#### I.B. PERMIT ACTIONS

- I.B.1. This Permit may be modified, revoked and reissued, or terminated for cause, in accordance with 40 CFR §§ 270.41, 270.42, and 270.43. The filing of a request for a permit modification, revocation and reissuance, or termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittees, does not stay the applicability or enforceability of any permit condition. [See 40 CFR §§ 270.4(a)(2), 270.30(f), 270.41, 270.42, and 270.43.]
- I.B.2. This Permit may be renewed in accordance with 40 CFR § 270.30(b) and Permit Condition I.E.2. Review of any application for a Permit renewal shall consider improvements in the state of control and measurement technology, as well as changes in applicable regulations. [See 40 CFR § 270.30(b), RCRA Section 3005(c)(3).]

#### I.C. SEVERABILITY

The provisions of this Permit are severable, and if any provision of this Permit, or the application of any provision of this Permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this Permit shall not be affected thereby. [See 40 CFR §124.16.]

#### I.D. DEFINITIONS

For purposes of this Permit, terms used herein shall have the same meaning as

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those in 40 CFR Parts 61, 63, 124, 260, 264, 266, 268, and 270, as appropriate, unless this Permit specifically provides otherwise. Where terms are not defined in the regulations or this Permit, the meaning associated with such terms shall be defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term.

AOC means Area of Concern.

<u>CEMS</u> means continuous emissions monitoring system.

<u>CERCLA</u> means the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, (42 U.S.C. §§9601 et seq.,) as amended.

<u>CFR</u> means Code of Federal Regulations, latest edition.

<u>CMS</u> means continuous monitoring system.

<u>CRIT</u> or <u>Tribe</u> means the beneficial landowner of the land on which the Facility is located, the Colorado River Indian Tribes.

<u>Day</u> or <u>days</u> means a calendar day or days, even if the word "calendar" is absent, unless otherwise specified.

<u>Director</u> means the Director of the EPA Region 9 Land Division, or his or her designee or authorized representative.

<u>Enforcement Director</u> means the Director of the EPA Region 9 Enforcement Division, or his or her designee or authorized representative.

<u>EPA</u> means the United States Environmental Protection Agency.

<u>Facility</u> means the carbon regeneration facility located at 2523 Mutahar Street, Parker, Arizona, 85344, on land of the Colorado River Indian Tribes and all contiguous land, and structures, other appurtenances, and improvements on the land, used for treating or storing, of spent carbon as allowed by this Permit.

Facility mailing list means the most recent version of the interested parties mailing

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list provided by the EPA Region 9 Land Division to the Permittee(s).

HWMU means Hazardous Waste Management Unit.

Method 21 means Method 21 from Appendix A-7 of 40 CFR Part 60.

PDT means Performance Demonstration Test.

<u>Permit Attachment(s)</u>, <u>Permit Attachment Section(s)</u> and <u>Permit Attachment Appendix or Appendices</u> mean the attachments, sections and appendices to this Permit, which were transmitted to EPA by the Permittees in their Part B Permit Application dated April 2016.

<u>Permittee, Permittees</u> or <u>Permit Applicants</u> means either Evoqua Water Technologies, LLC, the operator of the Facility, or the Colorado River Indian Tribes, the beneficial landowner of the tribal land on which the Facility is located, or both.

<u>Product</u> means the carbon that has been thermally treated and regenerated at the Facility.

<u>RCRA</u> means the Solid Waste Disposal Act as amended by the Resource Conservation and Recovery Act of 1976 and the Hazardous and Solid Waste Amendments of 1984, as amended, 42 U.S.C. §§ 6901 <u>et seq</u>.

<u>Site</u> means the land where the Facility is physically located down to and including the groundwater zone.

**SWMU** means Solid Waste Management Unit.

#### I.E. DUTIES AND REQUIREMENTS

## I.E.1. <u>Duty to Comply</u>

The Permittees shall comply with all conditions of this Permit, except to the extent and for the duration such noncompliance is authorized by an emergency permit. Any Permit noncompliance, other than noncompliance

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authorized by an emergency permit, constitutes a violation of RCRA and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. [See 40 CFR §270.30(a).]

# I.E.2. <u>Duty to Reapply</u>

If the Permittees wish to continue an activity allowed by this Permit after the expiration date of this Permit, the Permittees shall submit a complete application for a new permit at least 180 days prior to the Permit's expiration. [See 40 CFR §§270.10(h) and 270.30(b).]

## I.E.3. <u>Permit Expiration</u>

This Permit shall be effective for a fixed term not to exceed ten years. This Permit and all conditions herein will remain in effect and enforceable beyond the Permit's expiration date, if the Permittees have submitted a timely, complete application and, through no fault of the Permittees, the Director has not issued a new permit. [See 40 CFR §§270.10, 270.13, 270.14, 270.50, and 270.51.]

#### I.E.4. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the Permittees in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit. [See 40 CFR §270.30(c).]

#### I.E.5. Duty to Mitigate

In the event of noncompliance with this Permit, the Permittees shall take all reasonable steps to minimize releases to the environment and shall carry out such measures, as are reasonable, to prevent significant adverse impacts on human health or the environment. [See 40 CFR §270.30(d).]

### I.E.6. Proper Operation and Maintenance

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The Permittees shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances), which are installed or used by the Permittees to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance/quality control procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Permit. [See 40 CFR §270.30(e).]

## I.E.7. <u>Duty to Provide Information</u>

The Permittees shall furnish to the Director or the Enforcement Director, as appropriate, within a reasonable time, any relevant information which the Director or the Enforcement Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Permit, or to determine compliance with this Permit. The Permittees shall also furnish to the Director or the Enforcement Director, as appropriate, upon request, copies of records required to be kept by this Permit. [See 40 CFR §270.30(h).]

#### I.E.8. Inspection and Entry

The Permittees shall allow the Director or the Enforcement Director, as appropriate, or an authorized representative, upon presenting credentials and other documents, as may be required by law, to:

- I.E.8.a. Enter during business hours or at a reasonable time upon the Facility and/or either Permittees' premises where a regulated activity is located or conducted, or where records must be kept under the conditions of this Permit;
- I.E.8.b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;

This draft permit has been created in accordance with 40 CFR § 124.6 as part of US EPA's proposed RCRA hazardous waste permit decision for the hazardous waste facility (EPA ID # AZD982441263) located on trust land of the Colorado River Indian Tribes at 2523 Mutahar Street, Parker, Arizona, 85344, and operated by Evoqua Water Technologies LLC.

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- I.E.8.c. Inspect at reasonable times any equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and
- I.E.8.d. Sample or monitor, at reasonable times, for the purposes of assuring Permit compliance or as otherwise authorized by RCRA, any substances or parameters at any location at the Facility. [See 40 CFR §270.30(i).]

## I.E.9. <u>Monitoring and Records</u>

- I.E.9.a. Samples and measurements taken by the Permittees for the purpose of monitoring shall be representative of the monitored activity. The method used to obtain a representative sample of the waste must be the appropriate method from Appendix I of 40 CFR Part 261 or an equivalent method approved by the Director. Laboratory analytic methods must be those specified in <a href="Test Methods for Evaluating Solid Waste: Physical/Chemical Methods SW-846">Test Methods for Evaluating Solid Waste: Physical/Chemical Methods SW-846</a>, <a href="Standard Methods of Wastewater Analysis">Standard Methods of Wastewater Analysis</a>, or an equivalent method, as specified in the Waste Analysis Plan (See Permit Condition II.C, Permit Attachment Section C and Permit Attachment Appendix IV). [See 40 CFR §270.30(j)(1).]
- I.E.9.b. The Permittees shall retain records of all monitoring information (including all calibration and maintenance records and all digital and original strip chart recordings for continuous monitoring instrumentation), copies of all reports and records required by this Permit, the certification required by 40 CFR § 264.73(b)(9) and Permit Condition II.A.6., and records of all data used to complete the application for this Permit for a period of at least 3 years from the date of the sample, measurement, report, record, certification, or application. These periods may be extended by request of the Director at any time and are automatically extended during the course of any unresolved enforcement action

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regarding this Facility. The Permittees shall maintain records for all ground-water monitoring wells and associated ground-water surface elevations for the active life of the Facility. This provision does not apply to any records required to be maintained in accordance with Permit Condition V.G, which shall instead be subject to that requirement. [See 40 CFR §§ 264.73(b)(9), 264.74(b) and 270.30(j)(2). See also Permit Condition V.G.]

### I.E.9.c. Records of monitoring information shall specify:

I.E.9.c.i.	The dates, exact place, and time of sampling
	or measurements;

I.E.9.c.ii. The individual(s) who performed the sampling or measurements;

I.E.9.c.iii. The date(s) analyses were performed;

I.E.9.c.iv. The individual(s) who performed the analyses;

I.E.9.c.v. The analytical technique(s) or method(s) used; and

I.E.9.c.vi. The results of such analyses. [See 40 CFR §270.30(j)(3).]

#### I.E.10. Reporting Planned Changes

The Permittees shall give notice to the Director, as soon as possible, of any planned physical alterations or additions to the Facility. If any planned "changes" (as defined at 40 CFR § 63.1206(b)(5)(iii)), to the design, operation, or maintenance practices of the source may adversely affect compliance with any emission standard that is not monitored with a CEMS, the Permittees shall follow the procedures set forth at 40 CFR § 63.1206(b)(5)(i) for notification, performance testing and restrictions on

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waste burning, or otherwise shall comply with the requirements of 40 CFR § 63.1206(b)(5)(ii). Any notice provided under this section shall include any necessary request for a permit modification pursuant to Permit Condition I.G.7. and 40 CFR § 270.42. [See 40 CFR §§ 63.1206(b)(5), 63.1207(j), 63.1210(d), 270.30(l)(1) and 270.42.]

## I.E.11. Reporting Anticipated Noncompliance

The Permittees shall give advance notice to the Director of any planned changes in the Facility or activity which may result in noncompliance with Permit requirements. [See 40 CFR §270.30(l)(2).]

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### I.E.12. <u>Transfer of Permits</u>

This Permit is not transferable to any person, except after notice to the Director. The Director may require modification or revocation and reissuance of the Permit to change the name of a Permittee and incorporate such other requirements as may be necessary in accordance with 40 CFR §270.40. Before transferring ownership or operation of the Facility, the Permittees shall notify the new owner or operator in writing of the requirements of 40 CFR Parts 264 and 270 and this Permit. [See 40 CFR §\$264.12(c), 270.30(l)(3) and 270.40.]

### I.E.13. Twenty-Four Hour Reporting

- I.E.13.a. The Permittees shall report to the Director any noncompliance which may endanger human health or the environment. Any such information shall be reported orally within 24 hours from the time whichever Permittee first becomes aware of the circumstances. The report shall include the following:
  - I.E.13.a.i. Information concerning release of any hazardous waste that may cause an endangerment to public drinking water supplies; and
  - I.E.13.a.ii. Any information of a release or discharge of hazardous waste, or of a fire or explosion from the Facility which could threaten the environment or human health inside or outside the Facility. [See 40 CFR §270.30(1)(6)(i).];
- I.E.13.b. The description of the noncompliance and its cause shall include:
  - I.E.13.b.i. Names, addresses, and telephone numbers of the Permittees;

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I.E.13.b.ii. Name, address, and telephone number of the Facility;

I.E.13.b.iii. Date, time, and type of incident;

I.E.13.b.iv. Name and quantity of materials involved;

I.E.13.b.v. The extent of injuries, if any;

I.E.13.b.vi. An assessment of actual or potential hazards to the environment and/or human health outside the Facility, where this is applicable; and

I.E.13.b.vii. Estimated quantity and disposition of recovered material that resulted from the incident. [See 40 CFR §270.30(1)(6)(ii).]

I.E.13.c. A written submission shall also be provided within five days of the time that whichever Permittee first becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period(s) of noncompliance (including exact dates and times); whether the noncompliance has been corrected, and, if not, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The Director may waive the five-day written notice requirement in favor of a written report within 15 days. [See 40 CFR §270.30(1)(6)(iii).]

## I.E.14. Compliance Schedule Reporting

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 14 days following each schedule date. [See 40 CFR §270.30(l)(5).]

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# I.E.15. Other Noncompliance

The Permittees shall report all other instances of noncompliance not otherwise required to be reported in Permit Conditions I.E.10 through I.E.14, at the time monitoring reports are submitted. The reports of noncompliance shall contain the information listed in Permit Condition I.E.13. [See 40 CFR §270.30(I)(10).]

#### I.E.16. Other Information

Whenever either Permittee becomes aware that either Permittee failed to submit any relevant facts, or submitted incorrect information, in a Permit application or in any report to the Director, the Permittees shall promptly submit such facts or information. [See 40 CFR § 270.30(1)(11).]

#### I.F. SIGNATORY REQUIREMENT

All applications, reports, or information submitted to or requested by the Director, the Enforcement Director, or a designee or authorized representative of the Director or the Enforcement Director, shall be signed and certified in accordance with 40 CFR §§ 270.11 and 270.30(k). [See 40 CFR §§ 270.11 and 270.30(k).]

## I.G. REPORTS, NOTIFICATIONS, AND DELIVERABLES

I.G.1. All reports, correspondence, notices or other deliverables required by this Permit, or required to be submitted to EPA or the Regional Administrator under regulatory provisions cited in this Permit, shall be delivered by U.S. Postal Service or private courier service to:

Director, Land Division US Environmental Protection Agency, Region IX 75 Hawthorne St. (LND-1) San Francisco, CA 94105

I.G.2. All deliverables submitted pursuant to this Permit shall be printed on recycled paper and shall be copied double-sided, whenever practicable. Additionally, all deliverables submitted pursuant to this Permit shall also be submitted in electronic format (*e.g.*,

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CD ROM, flash drive). Permittees may submit such deliverables by electronic mail where the Permittees and the Director have agreed in writing as to the appropriate email address for such electronic mail submissions.

- I.G.3. For the computation of time periods set forth in this Permit, the Permittees shall conduct the following:
  - I.G.3.a. Any time period scheduled to begin on the occurrence of an act or event shall begin on the day after the act or event.
  - I.G.3.b. Any time period scheduled to begin before the occurrence of an act or event shall be computed so that the period ends on the day before the act or event.
  - I.G.3.c. If the final day of any time period falls on a weekend or legal holiday, the time period shall be extended to the next working day. [See, *e.g.*, 40 CFR § 124.20.]
- I.G.4. Where this permit references or incorporates any standard from 40 CFR Part 63 for which a notice or notification is required to be submitted to EPA, including any notice or notification required under 40 CFR §§ 63.1206(b)(5), 63.1207(j) or 63.1210, the Permittees shall submit such notice or notification with reference to the specific provision of this Permit requiring the notice or notification. [See 40 CFR §§ 63.1206(b)(5), 63.1207(j) and 63.1210.]
- I.G.5. <u>Deliverables Submitted for the Director's Review and Approval</u>
  - I.G.5.a. Deliverables that are explicitly required by this Permit to be submitted to the Director for review and approval must be post-marked by the due date specified in this Permit or by the specific schedules developed pursuant to the requirements of this Permit that apply to such deliverables. The Director shall review and respond to the deliverable in accordance with Permit Condition I.G.5.b.
  - I.G.5.b. Subject to the provisions of I.G.5.c., after review of any deliverable that is required to be approved by the Director pursuant to this Permit, the Director will either:

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- (i) approve, in whole or in part, the submission;
- (ii) approve the submission on specified conditions;
- (iii) modify the submission to cure the deficiencies;
- (iv) disapprove, in whole or in part, the submission, directing that Permittee modify the submission; or
- (v) any combination of the above.
- I.G.5.c. The Director will not modify a deliverable under Permit Condition I.G.5.b. without first providing the Permittees at least one notice of deficiency and an opportunity to cure within ten (10) days, except:
  - (i) where the Director determines that to do so would cause serious disruption to the work required by this Permit or could present an unacceptable risk to human health or the environment; or
  - (ii) where the Director has disapproved previous submission(s) due to material defects and the Director determines that the deficiencies in the submission under consideration indicate a bad faith lack of effort to submit an acceptable deliverable.
- I.G.5.d. Upon approval of any deliverable pursuant to this Permit, including approval on conditions or modification by the Director, the Permittees shall maintain a copy of the approved deliverable in the Operating Record and proceed to take any action required by and in accordance with the approved deliverable.
- I.G.5.e. <u>Resubmission of Deliverable:</u> Upon receipt of a notice of disapproval, in whole or in part, pursuant to this Permit Condition I.G.5., the Permittees shall, within twenty-one (21) days or such longer time as specified by the Director in such notice, correct the deficiencies and resubmit the deliverable for approval.
- I.G.5.f. Notwithstanding the receipt of a notice of disapproval pursuant to this Permit Condition I.G.5., the Permittees shall proceed, at the direction of the Director, to take any action required by any non-deficient portion of the submission. Implementation of any non-deficient portion of a submission shall not relieve the Permittees of the obligation to address any deficient portion of the submission.

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- I.G.5.g. In the event that a resubmitted deliverable, or portion thereof, is disapproved by the Director, the Director may again require the Permittees to correct the deficiencies, in accordance with this Permit Condition I.G.5.
- I.G.5.h. If upon resubmission, a deliverable is disapproved or modified by the Director due to a material defect, the Permittees shall be deemed to have failed to submit such deliverable in a timely or adequate manner.
- I.G.5.i. The disapproval or modification of a deliverable by the Director pursuant to this Permit Condition I.G.5. is subject to the informal dispute resolution procedures set forth in Permit Condition I.L.

# I.G.6. <u>Modifications to Previously Approved Deliverables</u>

- I.G.6.a. If at any time during the life of this Permit, the Permittees identify a need for a modification of any previously approved deliverable required by this Permit or of any deadline required by this Permit, the Permittees shall submit a memorandum documenting the need for the modification to the Director. Where appropriate, such memorandum shall be accompanied by a request for a Permit Modification pursuant to 40 CFR § 270.42. [See 40 CFR § 270.42.]
- I.G.6.b. Where a Permit Modification is not requested by the Permittees, the Director will determine if the requested modification to the previously approved deliverable or to the deadline is warranted as soon as practicable after receipt of any memorandum submitted pursuant to Permit Condition I.G.6.a. and so inform the Permittees in writing that the proposed modification to the deliverable or deadline has been approved, modified or disapproved as provided in Permit Condition I.G.5.b. and subject to Permit Condition I.G.5.c. Where the memorandum is accompanied by a request for a Permit Modification under 40 CFR § 270.42, RCRA's permit modification procedures shall apply. [See 40 CFR § 270.42.]
- I.G.6.c. Requests for extensions of the due dates for deliverables may be granted by the Director in accordance with either the procedures in Permit Condition I.G.6.a. of this Permit or RCRA's permit modification processes. [See 40 CFR § 270.42.]

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## I.G.7. <u>Deliverables that Require a Permit Modification</u>

- I.G.7.a. Deliverables that are explicitly required by this Permit to be submitted with an accompanying request for a permit modification in accordance with this Permit Condition I.G.7., must specify the class of permit modification for which the request is being submitted in accordance with 40 CFR § 270.42 and Appendix 1 to that section. Or, if the request is for a permit modification not explicitly identified in Appendix 1 to 40 CFR § 270.42, the Permittees may submit a Class 3 modification request to the Director, or may request a determination by the Director that the modification should be reviewed and approved as a Class 1 with no prior Director approval, Class 1 with prior Director approval, or Class 2 modification. [See 40 CFR § 270.42 and Appendix 1 to 40 CFR § 270.42.]
- I.G.7.b. For any permit modification not explicitly identified in Appendix 1 to 40 CFR § 270.42, if the Permittees request that the modification be classified as a Class 1 with no prior Director approval, Class 1 with prior Director approval, or Class 2 modification, the request must include the necessary information to support the requested classification in accordance with 40 CFR §270.42. [See 40 CFR § 270.42(d).]
- I.G.7.c. The Director's determination that the modification should or should not be treated as a Class 1 with no prior Director approval, Class 1 with prior Director approval, or Class 2 modification shall be subject to the Informal Dispute Resolution provisions of Permit Condition I.L., but any other decisions made by the Director as part of the permit modification process shall only be reviewable in accordance with 40 CFR Part 124. [See 40 CFR Part 124.]

## I.G.8. Deliverables That May Trigger a Permit Modification

Where a report or other deliverable required by this Permit includes a recommendation that the Permit be modified, and the report or other deliverable is subject to approval by the Director under Permit Condition I.G.5., the request for the permit modification should only be submitted after the report or other deliverable recommending the modification has been approved by the Director.

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## I.H. <u>CONFIDENTIAL INFORMATION</u>

In accordance with 40 CFR §270.12, either Permittee may claim any information required to be submitted by this Permit as confidential. If no claim is made at the time of submission, the information may be made available to the public without further notice. [See 40 CFR Part 2, Subpart B, and § 270.12.]

#### I.I. DOCUMENTS TO BE MAINTAINED AT THE FACILITY

- I.I.1. The Permittees shall maintain at the Facility, until closure is completed and certified by an independent, registered professional engineer, the following documents and all amendments, revisions, and modifications to these documents:
  - 1. Waste Analysis Plan, as required by 40 CFR §264.13 and this Permit;
  - 2. Inspection schedules, as required by 40 CFR §264.15(b)(2) and this Permit;
  - 3. Personnel training documents and records, as required by 40 CFR §264.16(d) and this Permit;
  - 4. Contingency Plan, as required by 40 CFR §264.53(a) and this Permit;
  - 5. Operating record, as required by 40 CFR §264.73 and this Permit;
  - 6. Closure Plan, as required by 40 CFR §264.112(a) and this Permit;
  - 7. Annually-adjusted cost estimates for Facility closure, as required by 40 CFR §264.142(d) and this Permit;
  - 8. The Startup Shutdown and Malfunction Plan (SSMP), as required by this Permit;
  - 9. The Subpart FF Compliance Plan; and
  - 10. All other documents required to be maintained for the life of the Facility in accordance with the requirements of this Permit.
- I.I.2. All records, including plans, required under this Permit must be furnished upon request, and made available at all reasonable times for inspection by any officer, employee, or representative of EPA who is duly designated by the Director. [See 40 CFR § 264.74(a).]

#### I.J. INFORMATION REPOSITORY

I.J.1. The Permittees must establish and maintain an information repository that meets the requirements of 40 CFR § 124.33 and includes the records identified in Permit Exhibit

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- I. [See 40 CFR §§124.33 and 270.30(m).]
- I.J.2. The Permittees must update the information repository with appropriate information at least every five (5) years throughout the life of this Permit. [See 40 CFR §§ 124.33(f) and 270.30(m).]
- I.J.3 Permittees shall send notice of the location of the information repository to all persons on the facility's mailing list. [See 40 CFR §§ 124.33(e) and 270.30(m).]

#### I.K. COMPLIANCE SCHEDULE

- I.K.1. <u>Performance Demonstration Test.</u> The Permittees shall perform periodic trial burns or "Performance Demonstration Tests" in accordance with the following requirements. (The Performance Demonstration Test is a combination of the Comprehensive Performance Tests and traditional RCRA "Trial Burn" to address site specific risk assessments. Unless otherwise specified, references in this Permit to 40 CFR Part 63 testing and related requirements applicable to incinerators should be interpreted as applicable to the operating reactivation furnace (RF-2) and its associated equipment.)
  - I.K.1.a. The Permittees shall submit a Performance Demonstration Test (PDT) Work Plan meeting the requirements of Permit Condition I.K.1.c. to the Director for approval in accordance with Permit Condition I.G.5. within 120 days after the final Permit is made effective.
  - I.K.1.b. As for future PDTs, the Permittees shall conduct testing periodically in accordance with this Permit Condition I.K. and 40 CFR §§ 63.1207 and 63.1208. The date of commencement of each PDT is the basis for establishing the deadline to commence the subsequent PDT. The Permittees shall submit PDT Work Plans to the Director for approval *at least one year before the start date of each subsequent PDT*. The Permittees shall commence testing no later than 61 months after the date of commencing the previous PDT. Except as provided in Permit Condition I.K.1.c., the Permittees may conduct performance testing at any time prior to the required date. [See 40 CFR Part 60 and §§ 63.8(d) and (e), 63.9(g), 63.1206(c)(5)(ii), 63.1207, 63.1208, 264.344(a)(1) and 270.62.]
  - I.K.1.c. The Permittees shall submit PDT Work Plans to the Director for approval in accordance with Permit Condition I.G.5. PDT Work Plans must include a

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proposed schedule for performance of the PDT. The Permittees shall not undertake the performance of the PDT less than 60 days after the public notice required under Permit Condition I.K.1.f. Nor shall the Permittees undertake the performance of the PDT prior to the time the PDT Work Plan is approved by the Director. The PDT Work Plans shall be done in accordance with and must include the information listed at 40 CFR §§ 63.7, 63.8, 63.9(e), (f), (g) and (j), 63.1206(c)(5)(ii), 63.1207(b)(1), 63.1219 and 270.62(b)(2). The information provided in these regulatory provisions that are applicable to incinerators must be included in the PDT Work Plans, and address each performance parameter and emission limit set forth in Table V-4 of this permit. [See 40 CFR §§ 63.7, 63.8, 63.9(e), (f), (g) and (j), 63.1206(c)(5)(ii), 63.1207(b)(1), 63.1219, and 270.62(b)(2).]

- I.K.1.d. The portions of the PDT Work Plans addressing provisions for testing for SOx and NOx emissions during the PDT, shall reference EPA Test Method 6 for SOx (as SO2) and EPA Test Method 7 for NOx as provided in Appendix A of 40 CFR Part 60. [See Appendix A of 40 CFR Part 60.]
- I.K.1.e. Where appropriate, the Permittees shall incorporate into PDT Work Plans appropriate methods and/or performance specifications, as set forth in specifically applicable requirements and/or in the Appendices in 40 CFR Part 60. [See 40 CFR Part 60.]
- I.K.1.f. The Permittees shall make the PDT Work Plans available to the public for review no later than 60 calendar days before initiation of the test. The Permittees must also provide a public notice to all persons on the facility's mailing list announcing the availability of the PDT Work Plan and the location where the PDT Work Plan is available for review. The PDT Work Plans must be accessible to the public for 60 calendar days, beginning on the date of the public notice. The location must be unrestricted and provide access to the public during reasonable hours and provide a means for the public to obtain copies. The notification must, at a minimum, include the information identified at 40 CFR § 63.1207(e)(2). [See 40 CFR § 63.1207(e).]
- I.K.2. The Permittees shall complete performance testing *within 60 days* after the date of commencement of each of the PDTs in accordance with the approved PDT Work Plans. [See 40 CFR § 63.1207(d)(3).]

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- I.K.3. The Permittees shall submit to the Director for review and approval, in accordance with Permit Condition I.G.5., a PDT Report regarding the performance of the PDT *within 90 days* of the completion of each PDT.
  - I.K.3.a. The PDT Reports shall also include the results of the required CMS and CEMS Performance Tests, and the analysis of the parameters evaluated in accordance with Permit Condition I.K.1.
  - I.K.3.b. The PDT Reports shall also include the Permittees' recommendations, if any, regarding any appropriate modifications to permit conditions based on the results of one or more PDTs in accordance with Permit Condition I.G.8. and 40 CFR Part 270.
  - I.K.3.c. The PDT Reports shall also include the CMS and CEMS Performance Test results, and any other information that is required in notifications of compliance status and certifications for incinerators under 40 CFR § 63.9(h)(2).
- I.K.4. PDT Reports must include an assessment as to whether the operating parameters and emission limits set forth in Module V are being met with specific reference to the Group A1, Group A2, Group B and Group C parameters set forth in Module V of this Permit at Table V-2 Operating Limits and Parameters.
  - I.K.4.a. If a PDT Report concludes that such parameters or limits are not being met, the Permittees must comply with the AWFCO requirements of the SSMP and otherwise comply with Permit Condition V.C.5.v., as appropriate for the particular parameter or limit not being met.
  - I.K.4.b. When a PDT Report concludes that such operating parameters or emission limits are not being met, the Permittees shall cease processing hazardous waste except in accordance with the provisions of 40 CFR §§ 63.1207(l)(1)(i) and (ii) and 63.1207(l)(2)(i),(ii) and (iii), as appropriate. [See 40 CFR § 63.1207(l).]
  - I.K.4.c. Where 40 CFR §§ 63.1207(l)(1)(ii)(A) or (C), and/or 63.1207(l)(2)(ii) and (iii) require the submittal of a revised Notification of Compliance, the Permittees shall submit Supplemental PDT Report(s) to the Director for review and approval in accordance with Permit Condition I.G.5. within 90 days of any subsequent test(s). [See 40 CFR § 63.1207(l).]

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#### I.K.5. <u>Human Health and Ecological Risk Assessment</u>

- I.K.5.a. Within 90 days after the approval of a PDT Report, the Permittees shall submit a Human Health and Ecological Risk Assessment Work Plan to the Director for review and approval in accordance with Permit Condition I.G.5. The Work Plan should be consistent with good scientific principles. For example, the Permittees should consider EPA's current risk assessment guidance for combustion facilities and proposing the use of the latest air dispersion modeling software. The Risk Assessment Work Plans must include a proposed schedule for performance and completion of the Human Health and Ecological Risk Assessment.
- I.K.5.b. In accordance with the schedule set forth in the approved Human Health and Ecological Risk Assessment Work Plan, the Permittees shall submit a Draft Human Health and Ecological Risk Assessment to the Director for approval in accordance with Permit Condition I.G.5.
- I.K.5.c. Where an approved Human Health and Ecological Risk Assessment includes a recommendation for a modification of this Permit, the Permittees shall submit a request for such modification in accordance with Permit Condition I.G.8. and 40 CFR § 270.42. [See 40 CFR § 270.42.]
- I.K.6. RF-1 Closure. Within 90 days after the final permit is effective, the Permittees shall submit to EPA a closure activity notification designating the start date for the implementation of the schedule as specified in Section 9.0 of the Permit Attachment Appendix XVI. This closure activity notification, which will trigger the closure and dismantling of the non-operational reactivation furnace (RF-1) in accordance with the schedule set forth in Section 8.0 of the Permit Attachment Appendix XVI, shall include a start date that allows for completion of RF-1's closure no later than one (1) year from the effective date of this Permit. [See Sections 8.0 and 9.0 in Permit Attachment Appendix XVI.]
- I.K.7. Hopper H-1 Containment. The Permittees shall submit a work plan for implementation of the requirements for the secondary containment for Hopper H-1 (H-1 Work Plan) to the Director for approval in accordance with Permit Condition I.G.5. within 90 days after the final Permit is effective. The H-1 Work Plan shall include a schedule for implementation of the requirements for the secondary containment for Hopper H-1 and otherwise conform

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to the requirements of Permit Condition IV.F.6. This schedule shall provide for completion of implementation of the requirements for the secondary containment for Hopper H-1 no later than one (1) year from the effective date of this Permit. [See 40 CFR § 264.193.]

## I.K.8. <u>Integrity Assessment/Leak Test</u>

- I.K.8.a. The Permittees shall have the integrity of Hopper H-1 assessed by a professional engineer *within 60 days after the final Permit is effective* in accordance with 40 CFR § 264.191. This assessment must include a leak test, as described in 40 CFR § 264.191, or other integrity examination that is certified by a qualified Professional Engineer in accordance with 40 CFR § 270.11(d), that addresses cracks, leaks, corrosion, and erosion. [See 40 CFR §§ 264.191, 264.193(i), and 270.11(d).]
- I.K.8.b. Until such time as the secondary containment for Hopper H-1 is implemented in accordance with Permit Conditions I.K.7, and IV.F.6.a., the Permittees must conduct a leak test, (or other integrity examination that meets the requirements of 40 CFR § 264.191), in accordance with 40 CFR § 264.193(i) and Permit Condition IV.F.6.b. to ensure the integrity of Hopper H-1. [See 40 CFR §§ 264.191, 264.193(i), and 270.11(d).]
- I.K.9. If the secondary containment for Hopper H-1 is not implemented within a year from the effective date of this Permit, as provided in accordance with Permit Conditions I.K.7., the Permittees shall submit to the Director a contingent closure plan and proof of financial responsibility meeting the requirements of 40 CFR § 264.197(c), incorporated herein by this reference. [See also Permit Conditions IV.F.6.b.iii. and IV.M.3., and 40 CFR § 264.197(c).]

#### I.K.10. 40 CFR Part 264, Subpart BB Compliance

I.K.10.a. The Permittees shall submit to the Director a request for a Permit Modification in accordance with Permit Condition I.G.7., with an accompanying revised Permit Attachment Section N and Subpart BB Compliance Plan (Permit Attachment Appendix XIX) within *120 days after the final permit is effective*. The revised Permit Attachment Section N and Subpart BB Compliance Plan shall identify the equipment subject to 40 CFR Part 264, Subpart BB at the facility and, for each piece of equipment so identified, whether the Permittees elect to determine compliance with this Permit either by documentation pursuant to 40 CFR Part 264,

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Subpart BB, or by documentation of compliance with the regulations at 40 CFR Part 60, Part 61, or Part 63, pursuant to the relevant provisions of the regulations at 40 CFR Parts 60, 61, 63 and 264. [See 40 CFR Part 264, Subpart BB.]

- I.K.10.b. The revised Subpart BB compliance plan shall identify each piece of equipment that contains or contacts a hazardous waste with organic concentration that equals or exceeds 10% by weight using one of the methods described in 40 CFR § 264.1063(d). [See 40 CFR § 264.1063(d).]
- I.K.10.c. If revisions to Permit Attachment Section N and the Subpart BB Compliance Plan also necessitate any changes to the Waste Analysis Plan in order to comply with 40 CFR § 264.1063(d), the Permittees shall include a revised Waste Analysis Plan (WAP) with the Permit Modification request. [See 40 CFR § 264.1063(d).]
- I.K.10.d. The documentation of compliance elected by the Permittees in accordance with 40 CFR § 264.1064(m) shall be included in the facility operating record in accordance with Permit Condition II.M.1.ii. [See 40 CFR § 264.1064(m).]
- I.K.10.e. If the Permittees and EPA do not agree on whether a piece of equipment contains or contacts a hazardous waste with organic concentrations at least 10 percent by weight, the procedures in 40 CFR § 264.1063(d)(1) or (d)(2) shall be used to resolve the disagreement. [40 CFR § 264.1063(d)(1) or (d)(2) and Permit Attachment Appendix XIX.]
- I.K.11. Waste Carbon Feed Monitoring for Sulfur. The Permittees shall submit to the Director a request for a Permit Modification in accordance with Permit Condition I.G.7., with an accompanying revised Permit Attachment Section C, if necessary, and a revised Permit Attachment Appendix IV (Waste Analysis Plan) within 60 days after the final Permit is effective.
  - I.K.11. a. The revised Waste Analysis Plan shall include sampling for sulfur at the waste carbon feed every 6 hours to be composited and sent to the lab for analysis every 14 days.
  - I.K.11.b. The revised Waste Analysis Plan shall include a feed limit for sulfur oxides with reference to the limit expressed in Table V-1 of Module V of this Permit.

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- I.K.11.c. Once the revised Waste Analysis Plan is incorporated into the Permit, the Permittees are not authorized to feed in the RF-2 spent activated carbon that contains sulfur in concentrations exceeding permissible feed limits set forth in the revised Waste Analysis Plan in accordance with Module V, Table V-1.
- I.K.12. <u>Information Repository</u>. *Within 120 days of the effective date of this Permit*, the Permittees must establish an information repository that meets the requirements of 40 CFR § 124.33 and includes the records identified in Permit Exhibit I. *Within 150 days of the effective date of this Permit*, the Permittees shall send notice of the location of the information repository to all persons on the facility's mailing list. [See 40 CFR §§ 124.33, 270.30(m), Permit Condition I.J. and Permit Exhibit I.]
- I.K.13. <u>Training Outline</u>. *Within 120 days of the effective date of this Permit*, the Permittees shall submit to the Director a request for a Permit Modification in accordance with Permit Condition I.G.7., with an accompanying revised and updated Permit Attachment Section H (Personnel Training Program) and Permit Attachment Appendix XIV (Training Syllabus Outline and Training Summary) that, in addition to addressing the requirements of 40 CFR § 264.16, specifically address the requirements of 40 CFR § 63.1206(c)(6). [See 40 CFR § 63.1206(c)(6) and 264.16.]

#### I.L. INFORMAL DISPUTE RESOLUTION (IDR)

- I.L.1. Where the informal dispute resolution procedures of this Permit Condition I.L. are expressly identified as applicable, the following procedures shall apply:
  - I.L.1.a. The Permittee(s) may invoke the dispute resolution procedures by sending an Informal Dispute Resolution ("IDR") Notice to the Director in writing in accordance with Permit Conditions I.G.1. and I.G.2. Within the first fourteen (14) days after receipt of any such Notice, (the "informal dispute resolution period"), the Permittee(s) and the EPA staff person(s) responsible for the matter under dispute (the "permitting staff") will attempt to resolve any disputes informally. If requested by either of the Permittees, a meeting should be held between the permitting staff and the Permittee(s) and/or their representative(s) to discuss the matter. Unless otherwise agreed to by the permitting staff, the meeting will be held at the EPA Region 9's office in San Francisco, California, or by video or teleconference.

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- I.L.1.b. If agreement is not reached between the permitting staff and the Permittee(s) within the fourteen (14) day informal dispute resolution period, and the Permittee(s) wish to continue the IDR process, the Permittee(s) must submit written arguments and evidence to the Director. The written arguments and evidence shall be submitted to the Director within thirty (30) days of the end of the informal dispute resolution period (*i.e.*, within 44 days after EPA's receipt of the IDR Notice) at the address identified in Permit Condition I.G.1.
- I.L.1.c. If written arguments and evidence are submitted by the Permittee(s) to the Director, the Director will resolve the dispute within a reasonably prompt time period. The Director's resolution of the dispute shall include a written response to the evidence and arguments submitted by the Permittee(s). The Permittee(s) shall comply with the Director's decision regardless of whether the Permittee(s) agree with the decision. The Director's resolution of the dispute is not subject to administrative or judicial appeal.
- I.L.2. Unless otherwise agreed to by the Director, invocation of IDR by the Permittee(s) shall not extend, postpone, or affect in any way any obligation of the Permittee(s) under this Permit not directly in dispute.

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#### MODULE II - GENERAL FACILITY CONDITIONS

#### II. GENERAL FACILITY DESCRIPTION

Spent carbon is trucked to the Facility in several kinds of containers (e.g., drums, vessels, supersacks, roll-off bins, etc.) or in tanker trucks. The spent carbon typically contains benzene or other volatile organic compounds (VOCs). The spent carbon is either introduced to the carbon regeneration system at the Facility upon receipt via one of two hoppers (H-1 or H-2) or it is moved to the Container Storage Area to be put in the hoppers later. The spent carbon is transferred from the hoppers to one of four Spent Carbon Storage Tanks (T-1, T-2, T-5, or T-6). During the transfer, water is added to the spent carbon, creating a slurry, to help in pumping the spent carbon from the hoppers to the storage tanks. From the storage tanks, the spent carbon is transferred in slurry form to the furnace Feed Tank (T-18). The spent carbon in its slurry form then gets sent from T-18 through a dewatering screw where the carbon slurry gets dewatered. The dewatered carbon then gets on the weigh belt where it is weighted and sampled, before it is fed to the operating Carbon Regeneration Furnace (RF-2).. The regenerated carbon is cooled in a cooling screw and is then sent to the product storage area for commercial packaging. Wastewater is processed through the waste water treatment system and is discharged to the local publically owned treatment works pursuant to a Clean Water Act discharge permit.

#### II.A. DESIGN AND OPERATION OF FACILITY

- II.A.1. The Permittees shall maintain and operate the Facility to minimize the possibility of a fire, explosion, or any unplanned, sudden or non-sudden release of hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment. [See 40 CFR § 264.31.]
- II.A.2. Except for those requirements set forth in 40 CFR §§270.4(a)(1)(i) (iv), the Permittees are prohibited from any storage or treatment activity not specifically described in this Permit except insofar as the Permittees' hazardous waste generation, accumulation or less than 90 day storage activities are governed by 40 CFR Part 262. [See 40 CFR Part 262 and §§ 270.1(c) and 270.4(a)(1)(i) (iv).]

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- II.A.3. The Permittees shall not store on land or land dispose of any hazardous waste on or at the Facility, whether temporarily or permanently. The Permittees shall comply with all applicable land disposal restriction requirements, including the prohibition on storage of restricted waste for over a year. [See 40 CFR Part 268].
- II.A.4. Any Permittee-initiated modifications to the units designated in this Permit shall first be the subject of a Permit Modification request in accordance with Permit Condition I.G.7. and the permit modification procedures of 40 CFR § 270.42. [See 40 CFR § 270.42.]
- II.A.5. The Permittees may store hazardous waste generated on-site in accordance with the provisions of 40 CFR Part 262. Any hazardous waste generated on-site that is to be treated on-site, or disposed of or transported off-site must be stored, handled, treated, transported and otherwise managed in accordance with the regulations applicable to hazardous waste generators at 40 CFR Part 262 and any other applicable requirements, such as 40 CFR Part 265 Subpart BB or requirements listed under 40 CFR §§ 270.4(a)(1)(i)-(iv), or this Permit. [See 40 CFR Part 262, 40 CFR Part 265, Subpart BB and §§ 270.1(c) and 270.4(a)(1)(i)-(iv).]
- II.A.6. No less often than annually, the Permittees must certify, in accordance with 40 CFR § 264.73(b)(9), that there is a program in place to reduce the volume and toxicity of hazardous waste that is generated on-site to the degree economically practicable and that the proposed method of treatment, storage or disposal is that practicable method currently available to the Permittees which minimizes the present and future threat to human health and the environment. A copy of the certification must be maintained in the operating record in accordance with Permit Conditions I.E.9.b and II.M.1. [See 40 CFR § 264.73(b)(9) and Permit Conditions I.E.9.b., and II.M.1.]

#### II.B. REQUIRED NOTICES

II.B.1. If the Permittees expect to receive hazardous waste from a foreign source, the Permittees shall notify the Regional Administrator in writing at the address below

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at least four weeks in advance of the date the waste is expected to arrive at the facility. Notice of subsequent shipments of the same waste from the same foreign source in the same calendar year is not required. [See 40 CFR § 264.12(a)(1).]

Regional Administrator US EPA, Region 9 Mail Code: ORA-1 75 Hawthorne St. San Francisco, CA 94105

II.B.2. When the Permittees are to receive hazardous waste from an off-site source (except where either Permittee is also the generator), they must inform the generator in writing that they have the appropriate hazardous waste Permit, and will accept the waste the generator is shipping. The Permittees must keep a copy of this written notice as part of the Facility's operating record in accordance with 40 CFR § 264.73. [See 40 CFR §§ 264.12(b) and 264.73.]

# II.C. GENERAL WASTE ANALYSIS

- II.C.1. The Permittees shall follow the waste analysis procedures in accordance with 40 CFR § 264.13, Permit Attachment Section C, and the Waste Analysis Plan, Permit Attachment Appendix IV. [See 40 CFR §264.13.]
- II.C.2. The Permittees shall review the analysis of each waste stream provided by the generator as part of their quality assurance program in accordance with the frequencies set forth in the Waste Analysis Plan, Permit Attachment Appendix IV.
- II.C.3. If an on-site lab is used, then the Permittees shall maintain proper functional instruments, use approved sampling and analytical methods, verify the validity of sampling and analytical procedures, and perform correct calculations.
- II.C.4. If the Permittees use a contract or other off-site laboratory to perform analyses, then the Permittees shall inform the laboratory in writing that it must operate under the waste analysis conditions set forth in this Permit. Any failure of the

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laboratory to operate under the waste analysis conditions set forth in this Permit shall constitute a violation of the Permit by the Permittees. [See 40 CFR §264.13 and the Waste Analysis Plan, Permit Attachment Appendix IV.]

- II.C.5. The Director, the Enforcement Director, or either's designee reserve the right to audit the on-site laboratory or the off-site laboratory utilized by the Permittees at any time.
- II.C.6. The Director, the Enforcement Director, or either's designee reserve the right to sample the waste steam at the weigh belt to ensure compliance with this Permit.
- II.C.7. The Permittees shall review the Waste Analysis Plan at least every two calendar years to determine if it is in compliance with current RCRA regulations and otherwise meets the needs of the Facility in accordance with Section 7.0 of the Waste Analysis Plan, Permit Attachment Appendix IV, incorporated herein by this reference. [See Section 7.0 of the Waste Analysis Plan, Permit Attachment Appendix IV.]
- II.C.8. The Permittees shall comply with the test methods and procedural requirements described in 40 CFR § 264.1063 in accordance with the RCRA Subpart BB standards, where applicable, Permit Attachment Section N and Permit Attachment Appendix XIX, incorporated herein by this reference. [See 40 CFR § 264.1063, Permit Attachment Section N and Permit Attachment Appendix XIX. See also Permit Condition I.K.10.]
- II.C.9. At the request of the Director, the Permittees shall perform a waste determination for a hazardous waste managed in any tank or container exempted from using air emission controls under the provisions of 40 CFR § 264.1082. [See 40 CFR § 264.1082(d).]

### II.D. SECURITY

II.D.1. The Permittees shall comply with the security provisions of 40 CFR §264.14. The treatment process and operating areas of the Facility are surrounded by a fence as depicted on the Reactivation Facility Site Plan (D14789-08) contained

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in Permit Attachment Appendix III. This Reactivation Facility Site Plan also shows gates for the Facility. All gates and building entrances must be locked or monitored when open. Additional access control requirements for the Facility are contained in Permit Attachment Section F (Procedures to Prevent Hazards), incorporated herein by this reference. [See 40 CFR § 264.14.]

- II.D.2. The Permittees shall prevent, and minimize the possibility for, livestock and unauthorized people from entering the Facility. [See 40 CFR § 264.14(a).]
- II.D.3. The Permittees shall post and maintain a sign at each entrance to the Facility, and at other prominent locations, in sufficient numbers to be seen from any approach to the Facility. The sign shall bear the legend "Danger Unauthorized Personnel Keep Out". The legend shall be in English and in Spanish and must be legible from a distance of at least 25 feet. The Permittees may use existing signs with a legend other than "Danger--Unauthorized Personnel Keep Out" if the legend on the sign indicates that only authorized personnel are allowed to enter the Facility, and that entry onto the Facility can be dangerous. [See 40 CFR § 264.14(c).]

# II.E. GENERAL INSPECTION REQUIREMENTS

- II.E.1. The Permittees shall follow the inspection schedule as per Permit Attachment Section F and Permit Attachment Appendix XII and shall comply with the requirements of 40 CFR § 264.15. [See 40 CFR § 264.15.]
- II.E.2. The Permittees shall inspect the facility for malfunctions and deterioration, operator errors, and discharges that may be causing, or may lead to any release of hazardous waste constituents to the environment or any threat to human health. The Permittees shall conduct these inspections often enough to identify problems in time to correct them before they result in harm to human health or the environment. [See 40 CFR § 264.15(a).]
- II.E.3. The inspection should include at a minimum, monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment (such as dikes and sump pumps) that are important to preventing, detecting, or responding to environmental or human health hazards. Areas subject to spills,

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such as loading and unloading areas, shall be inspected daily when in use. [See 40 CFR 264.15(b). See also Table V-3 in Module V.]

- II.E.4. The Permittees shall remedy any deterioration or malfunction discovered by an inspection in accordance with 40 CFR §§ 264.15(c) and 264.171. [See 40 CFR §§ 264.15(c) and 264.171.]
- II.E.5. The Permittees shall record all inspections. The Permittees shall keep these records for at least three years from the date of inspection. At a minimum, the Permittees must include the date and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial actions. [See 40 CFR § 264.15(d).]

# II.F. MAINTENANCE AND OPERATION

- II.F.1. The Permittees shall maintain, calibrate, and operate the Facility in accordance with this Permit and Table V-3 in Module V. [See 40 CFR § 264.15 and Table V-3 in Module V.]
- II.F.2. The Permittees shall maintain the SWMUs, HWMUs, and AOCs and their equipment in good operating condition.

### II.G. PERSONNEL TRAINING

- II.G.1. The Permittees shall conduct personnel training in accordance with 40 CFR § 264.16, and in accordance with Permit Attachment Section H and Permit Attachment Appendix XIV, both of which are incorporated herein by this reference. [See 40 CFR § 264.16.]
- II.G.2. The Permittees shall maintain training documents and records in accordance with 40 CFR §§ 264.16(d) and (e). [See 40 CFR §§ 264.16(d) and (e).]

# II.H. SPECIAL PROVISIONS FOR CERTAIN WASTES

II.H.1. The Permittees are prohibited from storing or treating hazardous waste that is not

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identified in Table II-2.

# TABLE II-2 - PERMITTED HAZARDOUS WASTE

# Description of permitted hazardous waste D001, D004, D005, D006, D007, D008, D009, D010, D011, D012, D013, D014, D015, D016, D017, D018, D019, D020, D021, D022, D023, D024, D025, D026, D027, D028, D029, D030, D031, D032, D033, D034, D035, D036, D037, D038, D039, D040, D041, D042, D043. F001, F002, F003, F004, F005, F006, F012, F019, F025, F035, F037, F038, F039 (except for F039 that contains dioxin or furans). K001, K002, K003, K004, K005, K006, K007, K008, K009, K010, K014, K015, K016, K017, K018, K019, K020, K022, K023, K024, K025, K026, K029, K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041, K042, K046, K048, K049, K050, K051, K052, K061, K064, K065, K066, K071, K073, K083, K084, K085, K086, K087, K088, K090, K091, K093, K094, K095, K096, K097, K098, K100, K101, K102, K103, K104, K105, K106, K112, K113, K114, K115, K116, K117, K118, K125, K126. P001, P002, P003, P004, P005, P007, P008, P010, P011, P012, P013, P014, P015, P016, P017, P018, P020, P021, P022 (rust), P023, P024, P026, P027, P028, P029, P030, P031, P033, P034, P036, P037, P038, P039, P040, P041, P042, P043, P044, P045, P046, P047, P048, P049, P050, P051, P054, P056, P057, P058, P059, P060, P062, P063, P064, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P077, P078, P082, P084, P085, P087, P088, P089, P092, P093, P094, P095, P096, P097, P098, P099, P101, P102, P103, P104, P105, P108, P109, P110, P113, P114, P115, P116, P118, P119, P120, P121, P123. U001, U002, U003, U004, U005, U007, U008, U009, U010, U011, U012, U014, U015, U016, U017, U018, U019, U022, U024, U025, U026, U027, U028, U029, U030, U031, U032, U034, U035, U036, U037, U038, U039, U041, U042, U043, U044, U045, U046, U047, U048, U049, U050, U051, U052, U053, U055, U056, U057, U058, U059, U060, U061, U062, U063, U064, U066, U067, U068, U069, U070, U071, U072, U073, U074, U075, U076, U077, U078, U079, U080, U081, U082, U083, U084, U085, U086, U087,

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U088, U089, U090, U091, U092, U093, U094, U095, U097, U098, U099, U101, U102, U103, U105, U106, U107, U108, U109, U110, U111, U112, U113, U114, U115, U116, U117, U118, U119, U120, U121, U122, U124, U125, U126, U127, U128, U129, U130, U131, U132, U135, U136, U137, U138, U140, U141, U142, U143, U144, U145, U146, U147, U148, U149, U150, U151, U152, U153, U154, U155, U156, U157, U158, U159, U161, U162, U163, U164, U165, U166, U167, U168, U169, U170, U171, U172, U173, U174, U176, U177, U178, U179, U180, U181, U182, U183, U184, U185, U186, U187, U188, U190, U191, U192, U193, U194, U196, U197, U200, U201, U202, U203, U204, U206, U207, U208, U209, U210, U211, U213, U214, U215, U216, U217, U218, U219, U220, U221, U222, U225, U226, U227, U228, U235, U236, U237, U238, U239, U240, U243, U244, U246, U247, U248, U249, U328, U353, U359.
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- II.H.2. The Permittees shall follow the procedures for handling ignitable and incompatible waste and otherwise comply with the requirements of 40 CFR § 264.17. The Permittees shall follow the procedures for handling ignitable wastes set forth in Permit Attachment Section C, incorporated herein by this reference. [See 40 CFR § 264.17 and Permit Attachment Section C, at C.2.4.]
- II.H.3. Waste received from off-site may only be stored at the Facility if it is to be regenerated through thermal treatment in RF-2.
- II.H.4. The Permittees shall comply with the requirements for Air Emission Standards for Equipment Leaks (40 CFR Part 264, Subpart BB) in accordance with Permit Application Appendix XIX and Permit Attachment Section N, incorporated herein by this reference. [See 40 CFR § 264.1050 *et seq.*, including 40 CFR § 264.1063(f), and Permit Condition I.K.10.]
- II.H.5. The Permittees shall not accept, store, consolidate or treat any of the following:
  - II.H.5.a. Radioactive or nuclear wastes regulated by the U.S. Department of Energy and U.S. Nuclear Regulatory Commission including any spent carbon contaminated with such material;
  - II.H.5.b. Wastes associated with dioxins and/or furans (*e.g.* F020, F021, F022, F023, F026, F027, F028, F032, K043, K099, K156, K158, K174, K178, P127, and/or P189)

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including any spent carbon contaminated with such material;

- II.H.5.c. Leachate from the disposal of more than one restricted waste (F039) including any spent carbon contaminated with such material if it contains wastes associated with dioxins and/or furans (*e.g.* F020, F021, F022, F023, F026, F027, F028, F032, K043, K099, K156, K158, K174, K178, P127, and/or P189), [See definition of "Dioxins and furans" in 40 CFR 260.10.];
- II.H.5.d. Wastes regulated under the Toxic Substances Control Act (TSCA) that contain levels of polychlorinated biphenyls (PCBs) equal to or greater than 50 mg/Kg (ppm), or where the source of the PCBs is equal to or greater than 50 ppm including any spent carbon contaminated with such material;
- II.H.5.e. Medical or infectious wastes including any spent carbon contaminated with such material; or
- II.H.5.f. RCRA mixed waste (radioactive and hazardous waste) including any spent carbon contaminated with such material.
- II.H.5.g. Corrosive (D002) or reactive waste (D003) including spent carbon containing corrosive or reactive waste.
- II.H.5.h. Benzedine-contaminated waste (U021) including spent carbon containing benzedine.

# II.I. LOCATION STANDARDS

The Facility is not within a 100-year floodplain. In the event of a flood, the Permittees shall remove all hazardous waste, before flood waters can reach the Facility, to a location where the wastes will not be vulnerable to the flood waters. [See 40 CFR § 264.18(b), Permit Attachment Section B and Permit Attachment Appendix II.]

# II.J. PREPAREDNESS AND PREVENTION

#### II.J.1. Required Equipment

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At a minimum, the Permittees shall maintain the following at the Facility:

- An internal communications or alarm system at or near areas of the Facility where hazardous waste is stored, treated or otherwise managed that is or are capable of providing immediate emergency instruction (voice or signal) to facility personnel;
- A device, such as a telephone (immediately available at the scene of operations) or a hand-held two-way radio, capable of summoning emergency assistance from local police departments, fire departments, or State or local emergency response teams;
- Portable fire extinguishers, fire control equipment (including special extinguishing equipment, such as that using foam, inert gas, or dry chemicals), spill control equipment, and decontamination equipment; and
- Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems. [See 40 CFR § 264.32.]

### II.J.2. Testing And Maintenance Of Emergency Equipment

The Permittees shall test and maintain all the communications and alarm systems, fire protection equipment, spill control equipment, and decontamination equipment, as necessary, to assure its proper operation in time of emergency. Specific testing and maintenance procedures are included in the inspection schedule in Permit Attachment Section F and in Permit Attachment Appendix XII. [See 40 CFR § 264.33.]

# II.J.3. Access To Communications Or Alarm System

Whenever hazardous waste is being poured, mixed, spread, or otherwise handled, the Permittees shall ensure that all personnel involved in the operation have immediate access to an internal alarm or emergency communication device, either directly or through visual or voice contact with another employee. If there is ever just one employee on the premises while the Facility is operating, the Permittees shall ensure that he or she has immediate access to a device, such as a telephone (immediately available at the scene

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of operation) or a hand-held two-way radio, capable of summoning external emergency assistance. [See 40 CFR § 264.34.]

# II.J.4. Required Aisle Space

The Permittees shall maintain adequate aisle space at the Facility in accordance with Permit Attachment Section D, Permit Attachment Appendix III, and Permit Attachment Appendix VII. At a minimum, the Permittees shall maintain aisle space to allow the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of facility operation in an emergency and for the purposes of conducting inspections. [See 40 CFR § 264.35.]

# II.J.5. Arrangements with Local Authorities

The Permittees shall maintain arrangements with the appropriate state, local, and Colorado River Indian Tribes (CRIT) authorities in accordance with 40 CFR § 264.37. The Permittees shall periodically update the arrangements, at least every five years from the effective date of this Permit. If state, local, or CRIT officials refuse to renew the preparedness and prevention arrangements with the Permittees, the Permittees must get this refusal in writing and document this refusal and maintain such documentation in the Facility's operating record until closure is completed and certified. The Permittees shall also notify the Director of the Waste Management Division of this refusal by the local authority(ies). [See 40 CFR §§ 264.37, Permit Attachment Section G and Permit Appendix XIII.]

# II.K. CONTINGENCY PLAN

# II.K.1. <u>Implementation of Plan</u>

The Permittees shall comply with the requirements of 40 CFR §§264.50 through 264.56. The Permittees must immediately carry out the provisions of the Contingency Plan, Permit Attachment Section G and Permit Attachment Appendix XIII, whenever there is a fire, explosion, or release of hazardous waste or constituents which could threaten human health or the environment. [See 40 CFR §§ 264.50 through 264.56.]

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# II.K.2. Copies of Plan

The Permittees shall maintain a copy of the Contingency Plan at the Facility, including all revisions to the plan and must submit a copy (and a copy of all revisions) to all local police departments, fire departments, hospitals, and state and local emergency response teams that may be called upon to provide emergency services. The Contingency Plan, Permit Attachment Section G and Permit Attachment Appendix XIII is hereby incorporated into this Permit by this reference. [See 40 CFR § 264.53.]

# II.K.3. Amendments to Plan

- II.K.3.a. The Permittees shall review and immediately amend, if necessary, the Contingency Plan, whenever:
  - II.K.3.a.i. The facility permit is revised;
  - II.K.3.a.ii. The plan fails in an emergency;
  - II.K.3.a.iii. The facility changes—in its design, construction, operation, maintenance, or other circumstances—in a way that materially increases the potential for fires, explosions, or releases of hazardous waste or hazardous waste constituents, or changes the response necessary in an emergency;
  - II.K.3.a.iv. The list of emergency coordinators changes; or
  - II.K.3.a.v. The list of emergency equipment changes. [See 40 CFR § 264.54.]
- II.K.3.b. The Permittees shall submit to the Director a request for a Permit Modification in accordance with Permit Condition I.G.7., with the accompanying amended Contingency Plan. [See 40 CFR § 270.42.]

# II.K.4. Emergency Coordinator

The Permittees shall ensure that a trained emergency coordinator is available at all times at the Facility or on call in case of an emergency, in accordance with 40 CFR § 264.55.

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[See 40 CFR §§ 264.52(d) and 264.55.]

# II.L. MANIFEST SYSTEM

- II.L.1. The Permittees shall comply with the manifest requirements of 40 CFR §\$264.70, 264.71, 264.72, and 264.76. [See 40 CFR §\$ 264.70, 264.71, 264.72, and 264.76. See also § 270.30(1)(7) and (8).]
  - II.L.1.a. If a significant discrepancy in a manifest is discovered, the Permittees must attempt to reconcile the discrepancy. If not resolved within fifteen days, the Permittees must submit a letter report, including a copy of the manifest, to the Director. [See 40 CFR §§264.72 and 270.30(1)(7).]
  - II.L.1.b. An unmanifested waste report must be submitted to the Director within 15 days of receipt of unmanifested waste. [See 40 CFR §§264.76 and 270.30(l)(8).]
  - II.L.1.c. Pursuant to 40 CFR § 264.71, electronic manifests that are obtained, completed, and transmitted in accordance with §262.20(a)(3) and used in accordance with 40 CFR § 264.71 in lieu of the paper manifest form are the legal equivalent of paper manifest forms bearing handwritten signatures, and satisfy for all purposes any requirement to obtain, complete, sign, provide, use, or retain a manifest. [See 40 CFR §§ 262.20(a)(3) and 264.71.]

### II.M. RECORDKEEPING AND REPORTING

In addition to the recordkeeping and reporting requirements specified elsewhere in this Permit, the Permittees shall do the following:

# II.M.1. Operating Record

II.M.1.a. The Permittees shall maintain a written operating record at the facility in accordance with 40 CFR § 264.73. [See 40 CFR § 264.73.]

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- II.M.1.b. The Permittees shall record and maintain, in the operating record for this Permit, all monitoring, inspection, and other data compiled under the requirements of this Permit in accordance with 40 CFR §§ 63.1211, 264.73 and 264.1064. The Permittees shall also maintain the test burn reports, data, and calculations in the operating record. [See Permit Condition I.K. and 40 CFR §§ 63.1211, 264.73 and 264.1064.]
- II.M.1.c. The Permittees shall maintain, in the operating record for this Permit, the manuals listed in the Operating and Maintenance Manuals Maintained on Site Table identified in Permit Attachment Appendix XXI. Whenever the list of manuals needs to be revised, the Permittees shall submit a request for a Permit Modification in accordance with Permit Condition I.G.7. along with the accompanying revised Table. [See 40 CFR §§ 63.8(c)(3) and 63.1209(b)(2).]
- II.M.1.d. The Permittees shall maintain, in the operating record for this Permit, the site specific CMS quality control performance evaluation test plan procedures in accordance with 40 CFR § 63.8(d). [See 40 CFR § 63.8(d).]

# II.M.2. Reporting Requirements

The Permittees shall comply with the reporting requirements of 40 CFR §§ 61.357, 63.1211, 264.77, 264.1089 and 264.1090, as appropriate. To the extent that the cited regulatory requirements call for overlapping reporting of information, the Permittees may merge the information into one or more reports and need not provide duplicative information. [See 40 CFR §§ 61.357, 63.1211, 264.77, 264.1089 and 264.1090.]

# II.M.3. Biennial Report

The Permittees shall comply with the biennial reporting requirements of 40 CFR §264.75. [See 40 CFR §§ 264.75 and 270.30(l)(9).]

### II.M.4. Subpart BB Recordkeeping and Reporting

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In accordance with 40 CFR § 264.1064(m), if any "equipment" at the facility, as defined at 40 CFR § 264.1031, contains or contacts hazardous waste with an organic concentration of at least 10 percent by weight for 300 hours or more per calendar year and is subject to regulations at 40 CFR Part 60, Part 61, or part 63 and the Permittees elect to determine compliance with 40 CFR Part 264, Subpart BB by documentation of compliance with the regulations at 40 CFR Part 60, Part 61, or Part 63 pursuant to the relevant provisions of the regulations at 40 Part 60, Part 61, or Part 63, the documentation of compliance under the regulations at 40 CFR Part 60, Part 61, or Part 63 shall be kept with or made readily available with the facility operating record. Otherwise, the Permittees shall comply with the recordkeeping and reporting requirements described in 40 CFR §§ 264.1064 and 264.1065 in accordance with the RCRA Subpart BB standards, Permit Attachment Section N and Permit Attachment Appendix XIX, incorporated herein by this reference. [See 40 CFR §§ 264.1031, 264.1064 and 264.1065, Permit Attachment Section N and Permit Attachment Appendix XIX. See also Permit Condition I.K.10.]

# II.M.5. Application Recordkeeping

Except as provided in Permit Condition I.J., the Permittees shall comply with the recordkeeping requirements described in 40 CFR § 270.10(i). [See 40 CFR § 270.10(i).]

#### II.N. GENERAL CLOSURE REQUIREMENTS

### II.N.1. Performance Standard

II.N.1.a. The Permittees shall close the Facility in accordance with Permit Conditions III.L., IV.M., and V.H., and 40 CFR Part 264, Subpart G, (40 CFR §§264.110 et seq.), Permit Attachment Section I, and Permit Attachment Appendices XV and XVII, each of which is incorporated herein by this reference. [See 40 CFR Part 264, Subpart G, (40 CFR §§264.110 et seq.), the RCRA Facility Closure Plan, Permit Attachment Section I, and Permit Attachment Appendices XV and

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XVII.]

II.N.1.b. The Permittees shall close RF-1 in accordance with Permit Conditions I.K, and V.H., and 40 CFR Part 264, Subpart G, (40 CFR §\$264.110 et seq.), RF-1 Closure Plan, Permit Attachment Section I, and Permit Attachment Appendices XVI and XVII, each of which is incorporated herein by this reference. [See 40 CFR Part 264, Subpart G, (40 CFR §\$264.110 et seq.), RF-1 Closure Plan, Permit Attachment Section I, and Permit Attachment Appendices XVI and XVII.]

# II.N.2. Closure Plan Review

The Director reserves the right to review the closure plans at any time to ensure both contain all the requirements to meet the closure requirements of 40 CFR Part 264, Subpart G, (40 CFR §§264.110 *et seq.*). This review may include any unusual activities, notices of violation, and inspection reports. [See 40 CFR Part 264, Subpart G.]

# II.N.3. Amendment to Closure Plans

- II.N.3.a. The Permittees shall amend either or both the RCRA Facility Closure Plan and the RF-1 Closure Plan, in accordance with 40 CFR §264.112(c), whenever necessary. [See 40 CFR § 264.112.]
- II.N.3.b. If the Director determines at any time that either or both closure plans require modification, the Permittees shall modify either or both closure plans as appropriate to incorporate findings identified by the Director's review in accordance with 40 CFR §§264.112(c)(4) and 270.42. [See 40 CFR §§ 264.112 and 270.42.]
- II.N.3.c. If, prior to the time the notice of closure required by Permit Condition II.N.4. is submitted, the Permittees determine that an amendment to the Closure Plan is appropriate, the Permittees shall submit to the Director a request for a Permit Modification in accordance with Permit Condition I.G.7., with an accompanying revised closure plan at least

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180 days before initiation of closure activities in accordance with 40 CFR § 270.42. [See 40 CFR § 270.42.]

# II.N.4. Notification of Closure

In addition to the Notice of Closure of RF-1 required by Permit Condition I.K., the Permittees shall notify the Director in writing at least 60 days prior to the date on which they expect to begin closure of any additional part of the Facility or to begin final closure of the Facility. [See 40 CFR § 264.112(d).]

# II.N.5. Time Allowed For Closure

Within 90 days after receiving the final volume of hazardous waste, the Permittees shall treat, remove from the unit or Facility, or dispose of on-site all hazardous waste and shall complete closure activities, in accordance with 40 CFR § 264.113 and the schedules specified in the Closure Plans, Permit Attachment Section I and Appendices XV and XVI. [See 40 CFR §§ 264.113 and 270.42.]

# II.N.6. Disposal or Decontamination of Equipment, Structures, and Soils

The Permittees shall decontaminate and dispose of all contaminated equipment from the Facility, support structures, and soils in accordance with 40 CFR § 264.114 and the Closure Plans, Permit Attachment Section I, and Permit Attachment Appendices XV and XVI. [See 40 CFR § 264.114.]

# II.N.7. Certification of Closure

The Permittees shall certify that the Facility has been closed in accordance with 40 CFR § 264.115 and the specifications in the Closure Plans, Permit Attachment Section I, and Permit Attachment Appendices XV and XVI. [See 40 CFR § 264.115.]

### II.O. GENERAL POST-CLOSURE REQUIREMENTS

If waste is left in place (e.g. equipment, platforms, SWMUs), the Permittees shall submit

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a post-closure permit application in accordance with the requirements of 40 CFR Part 264, Subpart G. [See 40 CFR §§ 264.117 through 264.120.]

# II.P. COST ESTIMATE FOR FACILITY CLOSURE

II.P.1. The Permittees' most recent closure cost estimates, for facility-wide closure and RF-1 closure, respectively, are specified in Attachment 4 to the Closure Plan, Permit Attachment Section I, and Permit Attachment Appendix XV and Attachment 4 to the RF-1 Closure Plan, Permit Attachment Section I and Permit Attachment Appendix XVI, which are each incorporated herein by this reference. [See 40 CFR §§ 264.142, 264.144, 264.197(c)(3) and (5), 264.228(c)(2), and 264.258(c)(2).]

### II.P.2.

- II.P.2.a. The Permittees must adjust the closure cost estimate for inflation within 60 days prior to each annual anniversary date of the establishment of the financial instrument(s) used to comply with 40 CFR § 264.143. [40 CFR § 264.142(b).]
- II.P.2.b. If at any time during the operation of the Facility, the Permittees use a financial test or corporate guarantee to meet the financial responsibility requirements in accordance with 40 CFR §264.143(f), the Permittees must adjust the closure cost estimate for inflation within 30 days after the close of owner or operator's fiscal year, as appropriate, and before submission of updated information to the Director in accordance with 40 CFR § 264.142(b). [See 40 CFR § 264.142(b).]
- II.P.3. The Permittees must revise either or both closure cost estimates whenever there is a change in either or both of the Facility's Closure Plans in accordance with 40 CFR § 264.142(c). [See 40 CFR § 264.142(c).]
- II.P.4. The Permittees must keep the latest closure cost estimates (for RF-1 and the Facility-wide closure) at the Facility in accordance with 40 CFR § 264.142(d). [See 40 CFR § 264.142(d).]

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II.P.5. New, updated or revised financial assurance instruments and updated cost estimates must be submitted to the Director in accordance with 40 CFR §§ 264.142 and 264.143. [40 CFR §§ 264.142 and 264.143.]

# II.Q. FINANCIAL ASSURANCE FOR FACILITY CLOSURE

The Permittees shall demonstrate continuous compliance with the requirements of 40 CFR § 264.143 by providing documentation of financial assurance, as required by and in accordance with 40 CFR § 264.151, in at least the amount of the cost estimates required by Permit Condition II.P. Requests for changes in financial assurance mechanisms demonstrating compliance with this Permit Condition II.Q. shall be submitted to the Director for review and approval in accordance with Permit Condition I.G.5. before being implemented. [See 40 CFR §§ 264.143 and 264.151.]

# II.R. LIABILITY REQUIREMENTS

The Permittees shall demonstrate continuous compliance with the requirement of 40 CFR § 264.147(a) to have and maintain liability coverage for sudden and accidental occurrences in the amount of at least \$1 million per occurrence, with an annual aggregate of at least \$2 million, exclusive of legal defense costs. [See 40 CFR § 264.147(a).]

# II.S. <u>INCAPACITY OF OWNERS OR OPERATORS, GUARANTORS, OR FINANCIAL</u> INSTITUTIONS

The Permittees shall comply with 40 CFR § 264.148, whenever applicable. [See 40 CFR § 264.148.]

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# **MODULE III - CONTAINERS**

# III.A. APPLICABILITY

This Module provides requirements for any containers used to store or treat hazardous waste at the Facility, including those received from off-site sources. Waste analysis requirements are contained in Module II, in Permit Condition II.C., in Permit Attachment Section C, and in Permit Attachment Appendix IV, the Waste Analysis Plan. [See 40 CFR § 264.13.]

# III.B. GENERAL REQUIREMENTS FOR CONTAINERS

- III.B.1. The Permittees shall not manage, store, treat, and/or consolidate hazardous waste in containers other than in the designated container storage areas listed in Table III-1 below. [See 40 CFR § 264.170.]
- III.B.2. The Permittees must maintain the Spent Carbon Container Storage Area containment capacity of at least 10,000 gallons. [See 40 CFR § 264.175(b)(3).]
- III.B.3. The Permittees shall not manage, store, and/or consolidate containers of hazardous wastes in excess of the maximum capacities for each individual container storage area identified in Table III-1.

# TABLE III-1 CONTAINER STORAGE AREAS, SATELLITE ACCUMULATION AREAS, AND DESIGN CAPACITIES

Description	Location*	Capacity
Spent Carbon Container	Warehouse	100,000 gallons
Storage		
Satellite accumulation	North side of container	55 gallons
area	storage area	
Satellite accumulation	South side of container	55 gallons
area	storage area	
Satellite accumulation	East of control room	55 gallons or less
area		

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Description	Location*	Capacity
Satellite accumulation	Facility on-site	55 gallons or less
area	screening laboratory	
Container storage area for	South east of H-1	40 cubic yards or
waste generated on-site	hopper	less per bin

<sup>\*</sup> Note: Locations may vary due to facility needs. Permit Attachment Appendix III contains diagrams and maps with unit locations

- III.B.3. The Permittees must manage all containers used to store or otherwise manage hazardous waste at the Facility in accordance with 40 CFR Part 264, Subpart I. [See 40 CFR Part 264, Subpart I.]
- III.B.4. Closure requirements for containers used to store or otherwise manage hazardous waste are included in Module II, in Permit Condition II.N, in this Module III, in Permit Condition III.L., Permit Attachment Section I and Permit Attachment Appendices XV and XVI. [See 40 CFR §§ 264.111 and 264.178.]

# III.C. CONDITION OF CONTAINERS

The Permittees shall maintain containers in good condition (*e.g.*, no severe rusting, apparent structural defects, etc.). If a container holding hazardous waste is not in good condition or, if the container begins to leak, the Permittees shall repair the container or place it into another suitable container or transfer the waste from such a container into a container that is in good condition. [See 40 CFR § 264.171.]

### III.D. COMPATIBILITY OF WASTE WITH CONTAINER

- III.D.1. The Permittees must use containers that are made of or lined with materials that will not react with, and are otherwise compatible with, the hazardous wastes to be stored, so that the ability of the containers to contain the waste is not impaired. [See 40 CFR § 264.172.]
- III.D.2. For all containers within a singular secondary containment system, the Permittees shall ensure that the containers are compatible with all wastes within that containment system. [See 40 CFR § 264.172.]

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- III.D.3. The Permittees shall assure compliance with Permit Condition III.D.1. by utilization of the procedures (*e.g.*, testing of waste and containers) and equipment specified in the Waste Analysis Plan, Permit Attachment Section C and Permit Attachment Appendix IV.
- III.D.4. The Permittees shall conduct pre-acceptance characterization of waste, as specified in the Waste Analysis Plan, Permit Attachment Section C and Permit Attachment Appendix IV, and ensure proper precautions are taken so as to prevent accidental ignition or reaction of ignitable or incompatible wastes. [See 40 CFR §§ 264.172, 264.176 and 264.177.]

### III.E. MANAGEMENT OF CONTAINERS

- III.E.1. The Permittees shall always keep all containers holding hazardous waste closed during storage, except when it is necessary to add or remove waste. [See 40 CFR § 264.173(a).]
- III.E.2. The Permittees shall never open, handle, or store a container holding hazardous waste in a manner that may rupture the container or cause the container to leak. [See 40 CFR § 264.173(b).]

# III.E.3. Storage Configuration

- III.E.3.a. The Permittees shall maintain adequate aisle space between rows of containers to allow for the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of the facility. [See 40 CFR § 264.35.]
- III.E.3.b. A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak. [See 40 CFR § 264.173(b).]
- III.E.3.c. The Permittees shall not exceed the maximum volumes of waste for each category of containers listed in Table III-2. [See 40 CFR § 264.173.]

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# TABLE III-2 LIST OF CONTAINER TYPES AND VOLUMES

Container Type	Volume (ft³)	Volume (US Gallons)
VSC/ASC 200/Drums	7.9	59
VSC/ASC 400	17.5	131
VSC/ASC 1000	44.9	336
VSC/ASC 2000	82.0	614
VSC 3000	164	1228
PV1000	44.9	336
PV2000	82.0	614
"Supersack"	Up to 67	Up to 500

# III.F. CONTAINMENT SYSTEMS

III.F.1. The Permittees shall provide secondary containment for all hazardous waste containers in accordance with 40 CFR § 264.175(b) except that storage areas that store containers holding only wastes that do not contain free liquids need not have such a containment system so long as the storage area meets the requirements of 40 CFR § 264.175(c). [See 40 CFR §§ 264.175(b) and (c).]

### III.F.2.

- III.F.2.a. The Permittees shall remove all accumulated liquid, including spilled and/or leaked wastes and all accumulated precipitation or run-on from the sump or collection area in a timely manner to prevent overflow of the collection system. [See 40 CFR § 264.175(b)(5).]
- III.F.2.b. At a minimum, removal of liquid shall occur within 24 hours of the initial accumulation of liquid, or sooner, based on inspection of the containment area. [See Permit Attachment Section F and Permit Appendix XII.]

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- III.F.2.c. If the collected material from a secondary containment system is a hazardous waste, it must be managed as a hazardous waste in accordance with all applicable requirements of this Permit and RCRA. [See 40 CFR § 264.175(b).]
- III.F.2.d. The Permittees shall address any spills or leaks from the pad and, if applicable, containment system in accordance with 40 CFR §\$264.15(c) and 264.171. [See 40 CFR §264.15(c) and 264.171.]

# III.G. AIR EMISSION CONTROLS FOR CONTAINERS

- III.G.1. The Permittees shall store and manage hazardous waste in containers in accordance with the requirements specified in 40 CFR Part 264, Subpart CC, Permit Attachment Section O and Permit Attachment Appendix XX. [See 40 CFR §264.179, and Part 264, Subpart CC.]
- III.G.2. For containers exempted under 264.1082(c), the Permittees shall determine the average volatile organic concentration of the waste at the point of waste generation, in accordance with the procedures specified in 40 CFR § 264.1083(a). The average volatile organic concentration shall be determined over an annual timeframe, as specified in 40 CFR § 264.1083(a). [See 40 CFR §§ 264.1082(c) and 264.1083(a).]
- III.G.3. In accordance with 40 CFR § 264.1082(c)(1), for containers exempted under 264.1082(c)(1), the Permittees shall review and update, as necessary, the determination of average volatile organic concentration of the waste at the point of waste generation at least once every 12 months following the date of the initial determination for the hazardous waste streams managed and/or stored in such containers. [See 40 CFR §§ 264.1082 and 264.1083.]
- III.G.4. For any hazardous waste that has been treated at the Facility, the Permittees shall perform the applicable waste determinations for each treated hazardous waste placed in containers exempted under the provisions of 40 CFR § 264.1082(c)(2)(i) through (c)(2)(vi) in accordance with the procedures specified in 40 CFR § 264.1082(c)(2) and 264.1083(b). [See 40 CFR § 264.1082(c)(2) and 264.1083.]

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- III.G.5. Certain hazardous wastes or volumes of hazardous wastes managed at the facility trigger air emission control requirements under the RCRA air emission control provisions at 40 CFR Part 264, Subpart CC (referred to as "CC"). For wastes subject to the requirements of RCRA CC that are not subject to one of the exemptions listed at 40 CFR § 264.1082(c), that are received in containers at the facility, in addition to any other applicable provisions in this Module, the Permittees shall:
  - III.G.5.a. Visually observe container condition and record the material (carbon size) and how full the container is by percentage as per Permit Attachment Appendix IV, Appendix B Tally Sheet;
  - III.G.5.b. This Permit Condition III.G.5.b. applies to: (1) any hazardous waste containers having a design capacity greater than 0.1 cubic meters and less than or equal to 0.46 cubic meters for which all hazardous waste in or entering the unit has an average volatile organic concentration at the point of waste origination of more than 500 parts per million by weight; and (2) any hazardous waste containers having a design capacity greater than 0.46 cubic meters that is not "in light material service" as that term is defined in 40 CFR § 265.1081, for which all hazardous waste in or entering the unit has an average volatile organic concentration at the point of waste origination of more than 500 parts per million by weight. These containers must comply with the "Container Level 1 standards" in accordance with 40 CFR Part 264, Subpart CC. [See 40 CFR § 264.1086(b) and (c).]
  - III.G.5.c. This Permit Condition III.G.5.c. applies to any hazardous waste containers having a design capacity greater than 0.46 cubic meters that is "in light material service" as that term is defined in 40 CFR § 265.1081, for which all hazardous waste in or entering the unit has an average volatile organic concentration at the point of waste origination of more than 500 parts per million by weight. These containers must comply with the "Container Level 2 standards" in accordance with 40 CFR Part 264 Subpart CC. [See 40 CFR § 264.1086(b) and (d).]
  - III.G.5.d. This Permit Condition III.G.5.d. applies to any hazardous waste containers having a design capacity greater than 0.1 cubic meters that is used for

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treatment of a hazardous waste by a waste stabilization process, for which all hazardous waste in or entering the unit has an average volatile organic concentration at the point of waste origination of more than 500 parts per million by weight. These containers must comply with the "Container Level 3 standards" in accordance with 40 CFR Part 264 Subpart CC. [See 40 CFR § 264.1086(b) and (e).]

III.G.6.For containers that contain or contact hazardous wastes with organic concentrations of 10% by weight or less, the Permittees shall comply with 40 CFR §§ 264.1063 and 264.1064. [See 40 CFR §§ 264.1050(b), 264.1063(d), and 264.1064(k).]

# III. H. INSPECTION SCHEDULES AND PROCEDURES

- III.H.1. The Permittees shall, upon receipt of containers of hazardous waste, inspect the containers in accordance with Permit Attachment F and Permit Appendices IV and XII and shall also ensure the container is in good condition within the meaning of 40 CFR § 264.171. Pursuant to 40 C7FR § 264.171, if any container is determined to be not in good condition or if it begins to or has leaked, the Permittees must transfer the hazardous waste from the container to a container that is in good condition or manage the waste in some other way that complies with the provisions of this Permit. [See 40 CFR § 264.171.]
- III.H.2. The Permittees shall conduct daily inspections of the Spent Carbon Container Storage Area and the containers stored there in accordance with Permit Attachment F and Permit Appendix XII and shall maintain daily records of inspections at the facility.
- III.H.3. The Permittees shall, at a minimum, conduct weekly inspections of all areas where hazardous waste containers are stored or managed, in accordance with the provisions of and inspection schedule in Permit Attachment F and Permit Appendix XII, to detect leaking containers and deterioration of containers or the containment system, which may be caused by corrosion or other factors. [See 40 CFR § 264.174.]
- III.H.4. The Permittees' inspections shall include inspection and monitoring of any air emission control equipment used to comply with the provisions of Permit

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Condition III.G. in accordance with a written plan and schedule in accordance with 40 CFR § 264.1088.

## III.H.5.

- III.H.5.a. Prior to their receipt, identify any hazardous waste containers subject to the Container Level 1 Standards that will not or may not be emptied within 24 hours of their receipt at the Facility and conduct an inspection on or before receipt of such containers as follows:
  - III.H.5.a.i. Visually inspect the container, cover and closure devices to check for visible cracks, holes, gaps, or other open spaces into the interior of the container when the cover and closure devices are secured in the closed position;
  - III.H.5.a.ii. Repair defects, if detected, in accordance with the requirements, including time frames, of 40 CFR § 264.1086(c)(4)(iii);
  - III.H.5.a.iii. If a container used for managing hazardous waste remains at the facility for a period of 1 year or more, the owner or operator shall visually inspect the container and its cover and closure device(s) initially and thereafter, at least once every 12 months, to check for visible cracks, holes, gaps, or other open spaces into the interior of the container when the cover and closure devices are secured in the closed position. [See 40 CFR § 264.1086(c)(4).]
- III.H.5.b. Prior to their receipt, identify any hazardous waste containers subject to the Container Level 2 Standards that will not or may not be emptied within 24 hours of their receipt at the Facility and conduct an inspection on or before receipt of such containers in accordance with the requirements of 40 CFR § 264.1086(d)(4). [See 40 CFR § 264.1086(d)(4).]
- III.H.5.c. Prior to their receipt, identify any hazardous waste containers subject to the Container Level 3 Standards and inspect and monitor the closed vent systems and control devices on such containers in accordance with the

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requirements of 40 CFR § 264.1086(e)(4). [See 40 CFR § 264.1086(e)(4).]

# III.I. RECORD KEEPING AND REPORTING

- III.I.1. For hazardous waste containers subject to the requirements of RCRA CC, including those subject to one of the exemptions listed at 40 CFR § 264.1082(c), the Permittees shall comply with the recordkeeping requirements of 40 CFR §§ 264.1086 and 264.1089. [See 40 CFR §§ 264.1086 and 264.1089.]
- III.I.2. For hazardous waste containers subject to the requirements of RCRA CC, including those subject to one of the exemptions listed at 40 CFR § 264.1082(c), the Permittees shall comply with the reporting requirements of 40 CFR § 264.1090. [See 40 CFR § 264.1090.]
- III.I.3. The Permittees shall retain sketches, drawings, or data demonstrating compliance with Permit Condition III.J.1., (location of buffer zone [15 m or 50 ft] and containers holding ignitable or reactive wastes). [See 40 CFR §§ 264.176.]
- III.I.4. The Permittees shall retain sketches, drawings, or data demonstrating compliance with Permit Condition III.K.3., (location of incompatible wastes in relation to each other), where applicable. [See Permit Appendix IV (Waste Analysis Plan) and 40 CFR § 264.177.]
- III.I.5. The Permittees shall maintain at the Facility until closure is completed and certified by an independent, registered professional engineer, the following hazardous waste container-specific documents and information and all amendments, revisions, and modifications to these documents and information:
  - III.I.5.a. For storage areas that store hazardous waste containers having free liquids, a description of the containment system to demonstrate compliance with container storage area provisions of 40 CFR § 264.175. This description must show the following:
    - III.I.5.a.i. Basic design parameters, dimensions, and materials of construction;

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III.I.5.a.ii. How the design promotes drainage or how containers are kept from contact with standing liquids in the containment system;

III.I.5.a.iiii. Capacity of the containment system relative to the number and volume of hazardous waste containers to be stored;

III.I.5.a.iv. Provisions for preventing or managing run-on; and

III.I.5.a.v. How accumulated liquids can be analyzed and removed to prevent overflow.

III.I.5.b. For storage areas that store containers holding hazardous wastes that do not contain free liquids, a demonstration of compliance with 40 CFR 264.175(c), including:

III.I.5.b.i Test procedures and results or other documentation or information to show that the wastes do not contain free liquids; and

III.I.5.b.ii. A description of how the storage area is designed or operated to drain and remove liquids or how containers are kept from contact with standing liquids.

III.I.6. When management of ignitable or reactive waste or incompatible waste occurs at the Facility, the Permittees must document compliance with Permit Conditions III.J. and III.K. This documentation may be based on references to published scientific or engineering literature, data from trial tests (e.g., bench scale or pilot scale tests), waste analyses (as specified in the Waste Analysis Plan), or the results of the treatment of similar wastes by similar treatment processes and under similar operating conditions. [See Permit Appendix IV (Waste Analysis Plan) and 40 CFR § 264.17(c).]

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# III.J. SPECIAL CONTAINER PROVISIONS FOR IGNITABLE AND REACTIVE WASTES

- III.J.1. The Permittees shall not locate containers holding ignitable or reactive waste within 50 feet (15 meters) of the facility property line. The physical location of this 50-foot boundary shall be permanently marked and maintained while the facility is in operation. [See 40 CFR § 264.176.]
- III.J.2. The Permittees shall prevent accidental ignition or reaction of ignitable or reactive waste. The Permittees shall follow the procedures specified in the Waste Analysis Plan (Permit Appendix IV) regarding the identification of ignitable and reactive wastes. [40 CFR §§ 264.177(a) and 264.176.]
- III.J.3 The Permittees shall comply with the general requirements of 40 CFR § 264.17 for ignitable or reactive wastes managed or stored in containers at the Facility. [See 40 CFR § 264.17.]
- III.J.4. Containers of ignitable and reactive wastes shall be stacked no more than two containers high.

## III.K. SPECIAL CONTAINER PROVISIONS FOR INCOMPATIBLE WASTE

- III.K.1. The Permittees shall not place incompatible wastes, or incompatible wastes and materials, in the same container unless such placement is performed in accordance with the provisions of 40 CFR § 264.17(b). [See 40 CFR §§ 264.17(b) and 264.177(a).]
- III.K.2. The Permittees shall not place hazardous waste in an unwashed container that previously held an incompatible waste or material. [See 40 CFR § 264.177(b).]
- III.K.3. The Permittees shall separate containers of incompatible wastes as specified in the Waste Analysis Plan. Storage containers with incompatible wastes shall be separated from other material or be protected from other materials by means of a berm, dike, wall, or other device. [See 40 CFR § 264.177(c).]

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III.K.4. The Permittees shall ensure that the management of any incompatible wastes at the Facility will not result in any leak, corrosion, compromise or failure of any secondary containment required by this Permit. [See 40 CFR § 264.175.]

# III.L. CLOSURE

- III.L.1. At closure, all hazardous waste and hazardous waste residues must be removed from the containment system. Remaining containers, liners, bases and soil containing or contaminated with hazardous waste or hazardous waste residues must be decontaminated or removed. [See 40 CFR § 264.178.]
- III.L.2. At closure, the Permittees must manage any hazardous waste removed from the containment system in accordance with the requirements of this Permit. [See comment to 40 CFR § 264.178.]

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# MODULE IV - STORAGE IN TANKS

# **IV.A.** <u>APPLICABILITY</u>

- **IV.A.1.** All hazardous waste tank systems and tank-like systems managed at the Facility must comply with the design, installation, and other requirements for "new tank systems" at 40 CFR § 264.192, incorporated herein by this reference, as opposed to the requirements for "existing tank systems" at 40 CFR § 264.191. [See 40 CFR § 260.10, 264.191 and 264.192.]
- Except as otherwise specifically set forth in this Permit, the requirements of 40 CFR § 264, Subpart J, Subpart BB (Subpart BB), and Subpart CC (Subpart CC), and 40 CFR § 61, Subpart FF (Subpart FF) are applicable to the hazardous waste tanks systems (T-1, T-2, T-5, T-6, and T-18) that are used to store or otherwise manage hazardous waste at the Facility. Map of Tanks systems' locations can be found in the Permit Attachment Appendix III. Certain air emission control requirements also apply to Tank T-11, as indicated in Permit Condition IV.G.1. and Table IV-2.
- This module also contains Permit Conditions for the Hoppers H-1 and H-2, which are ancillary equipment to Tank Systems T-1, T-2, T-5 and T-6 and are used to transport or feed hazardous waste to these Tank Systems. These Hoppers are defined as "open valves or lines" under RCRA's air emissions requirements found at 40 CFR Part 264, Subpart BB, and as "individual drain systems" under the Clean Air Act's air emission control requirements for individual drain systems found at 40 CFR Part 61, Subpart FF.
- **IV.A.4.** Table IV-1 below provides descriptions of the hazardous waste tank systems that are discussed in this Module and that are subject to the permit conditions of this Module.

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# TABLE IV-1 INFORMATION ABOUT HAZARDOUS WASTE TANK SYSTEMS

Tank/Ancillary Equipment No. & Description	Tank/Ancillary Equipment Materials Of Construction	Tank/Ancillary Equipment Dimensions	Tank/Ancillary Equipment Design Capacity (Gallons)	Tank/Ancillary Equipment Maximum Allowable Design Vapor Pressure (kPa)
T-1 spent carbon storage tank	300 Series Stainless Steel, Fixed Roof	16'-0" Straight Side 10'-0" Diameter 8'-0" 62° Bottom Cone	8,319 gal.	Atmospheric
T-2 spent carbon storage tank	300 Series Stainless Steel, Fixed Roof	16'-0" Straight Side 10'-0" Diameter 8'-0" 62° Bottom Cone	8,319 gal.	Atmospheric
T-5 spent carbon storage tank	300 Series Stainless Steel, Fixed Roof	16'-0" Straight Side 10'-0" Diameter 8'-0" 62° Bottom Cone	8,319 gal.	Atmospheric
T-6 spent carbon storage tank	300 Series Stainless Steel, Fixed Roof	16'-0" Straight Side 10'-0" Diameter 8'-0" 62° Bottom Cone	8,319 gal.	Atmospheric
T-18 RF-2 Feed Tank	300 Series Stainless Steel	7'-6" Straight Side 10'-4.5" Diameter 9'-4.75" 60° Bottom Cone	6,500 gal.	Atmospheric
H-1 Outdoor spent	Mild Steel	14' length x 8' width	5000 lb. capacity	Atmospheric

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Tank/Ancillary Equipment No. & Description	Tank/Ancillary Equipment Materials Of Construction	Tank/Ancillary Equipment Dimensions	Tank/Ancillary Equipment Design Capacity (Gallons)	Tank/Ancillary Equipment Maximum Allowable Design Vapor Pressure
carbon unloading hopper		x 7' height		(kPa)
H-2 Indoor spent carbon unloading hopper	Mild Steel	4' length x 4' width x 4' height	5000 lb. capacity	Atmospheric

# IV.B. GENERAL REQUIREMENTS FOR TANK SYSTEMS

- **IV.B.1.** Tank design capacities for the tanks and the hoppers are shown in Table IV-1. This design capacity for each tank or hopper shall not be exceeded.
- IV.B.2. Prior to the installation of any new tank systems, tank-like systems or components, the Permittees shall submit to the Director the information required in a Part B permit application for new tank systems or components in accordance with 40 CFR §§ 264.192, along with an accompanying request for a permit modification in accordance with Permit Condition I.G.7. (See 40 CFR §§ 264.192 and 270.42.)
- **IV.B.3.** Hoppers H-1 and H-2, described in Table IV-1, are considered ancillary equipment to Tanks T-1, T-2, T-5 and T-6 and must meet each of the requirements applicable to ancillary equipment that are set forth in 40 CFR Part 264, Subpart J, which is incorporated herein by this reference. (See 40 CFR § 264.190 *et seq.*.)
- **IV.B.4.** Pursuant to the Schedule of Compliance set forth in Permit Condition I.K., the Permittees must obtain and submit written assessments for Hoppers H-1 and H-2 that meet the requirements of 40 CFR § 264.192(a) as follows:

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- **IV.B.4.a.** Pursuant to the Schedule of Compliance set forth in Permit Condition I.K., the Permittees must obtain and submit written assessments for Hopper H-1 that meet the requirements of 40 CFR § 264.192(a) and that demonstrate compliance with 40 CFR § 264.192. The Permittees must maintain a copy of these assessments on file at the Facility in accordance with 40 CFR § 264.192(g). [See 40 CFR § 264.192 and Permit Condition I.K.]
- **IV.B.4.b.** Pursuant to the Schedule of Compliance set forth in Permit Condition I.K., the Permittees must obtain and submit written assessments for Hopper H-2 that meet the requirements of 40 CFR § 264.192(a) and that demonstrate compliance with 40 CFR § 264.192. The Permittees must maintain a copy of these assessments on file at the Facility in accordance with 40 CFR § 264.192(g). [See 40 CFR § 264.192 and Permit Condition I.K.]

# IV.C. CONDITION OF TANK SYSTEMS

**IV.C.1.** The Permittees shall maintain hazardous waste tank systems in good condition (*e.g.*, no severe rusting, apparent structural defects, etc.). If a tank system holding hazardous waste is not in good condition or, if the tank system begins to leak, the Permittees shall repair the tank system or transfer the waste from such a tank system into one or more tanks systems or containers that are in good condition. [See 40 CFR § 264.171.]

### IV.D. COMPATIBILITY OF WASTE WITH TANK SYSTEMS

**IV.D.1.** Hazardous wastes or treatment reagents must not be placed in a tank system if they could cause the tank, its ancillary equipment, or the tank's containment system to rupture, leak, corrode, or otherwise fail. [See 40 CFR § 264.194(a).]

#### **IV.E.** MANAGEMENT OF TANK SYSTEMS

- **IV.E.1.** The Permittees must use appropriate controls and practices to prevent spills and overflows from tank systems or containment systems. [See 40 CFR § 264.194(b).]
- **IV.E.2.** The Permittees must utilize appropriate spill prevention controls (*e.g.*, check valves, dry disconnect couplings), overfill prevention controls (*e.g.*, level sensing devices, high level alarms, automatic feed cutoff, or bypass to a standby tank), and maintenance of sufficient freeboard in uncovered tanks and H-1 to prevent overtopping by wind action or by precipitation. [See 40 CFR § 264.194(b).]

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**IV.E.3.** The Permittees shall ensure that the unloading and feeding of waste into H-1 and H-2 are done in a manner that prevents the migration of waste from these units. The Permittees may not use the units H-1 or H-2 for waste storage and are required to pump any waste fed into H-1 or H-2 into Tanks T-1, T-2, T-5 or T-6 as soon as practical, even if carbon regeneration operations at the Facility have ceased or been curtailed.

# **IV.F.** CONTAINMENT SYSTEMS

- **IV.F.1.** The Permittees must maintain secondary containment in accordance with the requirements of 40 CFR § 264.193. [See 40 CFR § 264.193.]
- IV.F.2. The secondary containment must be designed or operated to contain 100 percent of the capacity of the largest tank within its boundary, and must be designed and operated to prevent run-on or infiltration of precipitation into the secondary containment system unless the collection system has sufficient excess capacity to contain run-on or infiltration. [See 40 CFR §§ 264.193(e)(1)(i), (ii), (iii) and (iv) and Permit Attachment Appendix IX.]
- IV.F.3. The Permittees shall maintain the secondary containment in a manner so as to prevent any migration of wastes or accumulated liquid out of the system to the soil, ground water, or surface water at any time during the use of the tank systems. The Permittees must ensure that the secondary containment is free from cracks or gaps by maintaining a sealant on any such areas that is compatible with the spent carbon. [See 40 CFR §§ 264.193(b)(1) and (e)(1)(iii).]
- IV.F.4. The Permittees must retain the containment volume of secondary containment within the concrete pad that serves as the secondary containment for Tanks T-1, T-2, T-5 and T-6 at or above the 9,847 gallons at all times. The maximum tank volume of Tanks T-1, T-2, T-5 and T-6 is 8,319 gallons and the calculated applicable rainfall volume for secondary containment for Tanks T-1, T-2, T-5 and T-6 is 1,528 gallons. The containment volume must meet the total required volume of 9,847 gallons. [See 40 CFR § 264.193(e) and Permit Attachment Appendix IX.]
- **IV.F.5.** The Permittees shall maintain the double walled tank T-18 in accordance with 40 CFR 264.193(e)(3). [See 40 CFR § 264.193(e)(3).]

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# **IV.F.6.** Spent Carbon Unloading Hopper H-1

- IV.F.6.a. In accordance with the Compliance Schedule set forth in Permit Condition I.K., the Permittees shall submit to EPA for approval a work plan with a schedule for providing secondary containment for the spent carbon unloading Hopper H-1 in accordance with 40 CFR § 264.193. [See 40 CFR § 264.193.]
  - **IV.F.6.b.i.** Until such time as the secondary containment for Hopper H-1 is provided in accordance with Permit Condition IV.F.6.a., the Permittees must conduct a leak test or other integrity assessment to ensure the integrity of Hopper H-1 annually from the date of the leak test or other integrity assessment required in Permit Condition I.K. and maintain a record of the results of each such assessment in the operating record at the Facility and otherwise comply with the requirements of 40 CFR § 264.193(i), incorporated herein by this reference. [See 40 CFR § 264.193(i).]
  - **IV.F.6.b.ii.**Until such time as the secondary containment for Hopper H-1 is provided in accordance with Permit Condition IV.F.6.a., the Permittees must perform daily inspections of the spent carbon unloading Hopper H-1 in accordance with 40 CFR § 264.195(f). [See 40 CFR § 264.195(f).]
  - **IV.F.6.b.iii.** If the secondary containment for Hopper H-1 is not implemented within a year from the effective date of this Permit, as provided in accordance with Permit Conditions I.K.7. and IV.F.6.a., the Permittees shall be subject to the requirements of Permit Conditions I.K.9. and II.M.3., and 40 CFR § 264.197(c), incorporated herein by this reference. [See 40 CFR § 264.197(c).]
- **IV.F.7.** The Permittees shall maintain the secondary containment for the spent carbon unloading Hopper H-2 in the container storage warehouse in accordance with 40 CFR § 264.193(e)(1). The pad under H-2 serves as a liner external to the hopper, providing secondary containment. [See 40 CFR § 264.193(e)(1).]

### **IV.G.** AIR EMISSION CONTROLS

**IV.G.1.** Tank systems T-1, T-2, T-5, T-6, T-11 and T-18 are subject to air emission control requirements pursuant to this Permit. Tanks T-1, T-2, T-5, T-6 and T-18 and hoppers H-1 and H-2 are equipped with closed vent systems leading to air pollution control devices. The Permittees must comply with the RCRA and CAA

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regulations that are identified in the column labeled "Air Emission Control Regulations Applicable to this Unit" in Table IV-2 and that relate to the emissions standards, monitoring records, reporting and management requirements for the correlating units, *i.e.*, tanks T-1, T-2, T-5, T-6, T-11 and T-18, and their associated ancillary equipment, (H-1 and H-2), and the carbon adsorbers WS-1, WS-2, and WS-3, and their associated closed vent systems (e.g. hoses/piping and connections). [See Permit Attachment Sections N and O, Permit Attachment Appendices XIX and XX, Permit Attachments Subpart BB Compliance Plan and Subpart FF Compliance Plan and 40 CFR Part 61 and §§ 264.1050 *et* seq., 264.1087, 264.1088, 264.1089, and 264.1090.]

#### IV.G.2.

- **IV.G.2.a.** If sampling and analysis or operator knowledge of the waste entering Tank T-11 demonstrates that the average annual Volatile Organic concentration of the waste entering the unit is greater than or equal to 500 parts per million by weight, the Permittees shall ensure that tank T-11 complies with the "Air Emission Control Regulations Applicable to this Unit" in Table IV-2.
- **IV.G.2.b.** For Hoppers H-1 and H-2, the Permittees must ensure that H-1 and H-2 are at all times in compliance with either 40 CFR Part 264, Subpart BB requirements for open ended valves or lines or with 40 CFR Part 61, Subpart FF requirements for individual drain systems, as set forth in the column labeled "Air Emission Control Regulations Applicable to this Unit" in Table IV-2. [See 40 CFR §§ 264.1050 *et seq.*, and §§ 61.340 *et seq.* See also Permit Condition I.K.10.]
- **IV.G.2.c.** For carbon adsorber WS-2 and the piping, connections, and any flow-inducing devices that transport gas or vapor from a piece or pieces of equipment to WS-2, the Permittees must ensure that WS-2, and any such piping, connections and devices, are at all times in compliance with either 40 CFR Part 264, Subpart BB requirements for closed-vent systems and control devices or with 40 CFR Part 61, Subpart FF requirements for closed vent systems and control devices, as set forth in the column labeled "Air Emission Control Regulations Applicable to this Unit" in Table IV-2. [See 40 CFR §§ 264.1050 *et seq.*, and §§ 61.340 *et seq.* See also Permit Condition I.K.10.]
- **IV.G.3.** In accordance with Permit Attachment Section N and Permit Attachment Appendix XIX, the Permittees must comply with the requirements of 40 CFR Part

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264, Subpart BB. [See 40 CFR Part 264, Subpart BB. See also Permit Condition I.K.10.]

- IV.G.4. In accordance with Permit Attachment Section O and Permit Attachment Appendix XX, the Permittees must comply with the record-keeping and reporting requirements of 40 CFR §§ 264.1089(f)(1) and 264.1090(a) when operating the scrubber, recycler, boiler and cooling tower blow-down storage tank, T-11. [See Permit Attachment Section O, Permit Attachment Appendix XX, and 40 CFR §§ 264.1089(f)(1) and 264.1090(a).]
- **IV.G.5.** The Permittees shall maintain and operate the air pollution control equipment at the Facility in a manner consistent with good air pollution control practice for minimizing emissions. [See, *e.g.*, 40 CFR §264.31.]

# TABLE IV-2 MANAGEMENT OF EACH TANK SYSTEM, HOPPERS AND THE AIR POLLUTION CONTROL DEVICES

Tank or	Description	Air Emission Control Requirements
Unit No.		Applicable to this Unit
T-1	Spent Carbon Storage Tank. Tank T-1 vapors are controlled by a closed vent system leading to a carbon adsorber (WS-1).	40 CFR Part 61, Subparts A and FF and 40 CFR §264.1089(j).
T-2	Spent Carbon Storage Tank. Tank T-2 vapors are controlled by a closed vent system leading to a carbon adsorber (WS-1).	40 CFR Part 61, Subparts A and FF and 40 CFR §264.1089(j).
T-5	Spent Carbon Storage Tank. Tank T-5 vapors are controlled by a closed vent system leading to a carbon adsorber (WS-1).	40 CFR Part 61, Subparts A and FF and 40 CFR §264.1089(j).
T-6	Spent Carbon Storage Tank. Tank T-6 vapors are controlled by a closed vent system leading to carbon adsorber (WS-1).	40 CFR Part 61, Subparts A and FF and 40 CFR §264.1089(j).
T-11	Scrubber/ Recycle/	40 CFR §§ 264.1082(c)(1),

This draft permit has been created in accordance with 40 CFR § 124.6 as part of US EPA's proposed RCRA hazardous waste permit decision for the hazardous waste facility (EPA ID # AZD982441263) located on trust land of the Colorado River Indian Tribes at 2523 Mutahar Street, Parker, Arizona, 85344, and operated by Evoqua Water Technologies LLC.

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Tank or	Description	Air Emission Control Requirements
Unit No.		Applicable to this Unit
	Boiler and Cooling Tower Blow-	264.1089(f)(1) and 264.1090(a).
	Down Water Storage Tank	Tank T-11 is subject to monitoring and
		record keeping requirements of 40 CFR
		Part 264, Subpart CC. If sampling and
		analysis or operator knowledge of the
		waste entering Tank T-11 demonstrates
		that the average annual Volatile Organic
		concentration of the waste entering the
		unit is greater than or equal to 500 parts
		per million by weight, the Permittees
		shall at such time ensure that tank T-11
		meets the additional requirements of 40
		CFR §§ 264.13(b)(8), 264.1082,
		264.1084 and 264.1087.
T-18	Hearth feed tank or spent carbon feed	40 CFR Part 61, Subparts A and FF and
	tank. Tank T-18 vapors are controlled	40 CFR §264.1089(j).
	by a closed vent system leading to a	
	carbon adsorber (WS-3).	
H-1	Outdoor spent carbon unloading	40 CFR §§ 61.01 through 61.19, 61.346
	hopper (open ended line; individual	(or 40 CFR Part 264, Subpart BB), and
	drain system). Hopper H-1 vapors are	Permit Conditions I.K.10., II.H.4. and
	controlled by a closed vent system	IV.G.3.
	leading to a carbon adsorber (WS-2).	
H-2	Indoor spent carbon unloading hopper	40 CFR §§ 61.01 through 61.19, 61.346
	(open ended line; individual drain	and 264.1064(m) (or 40 CFR Part 264,
	system). Hopper H-2 vapors are	Subpart BB), and Permit Conditions
	controlled by a closed vent system	I.K.10., II.H.4. and IV.G.3.
TT/C 4	leading to a carbon adsorber (WS-2).	40 CED 66 (1.01.4) 1 (1.10. (1.240)
WS-1	Carbon Adsorber No.1 and	40 CFR §§ 61.01 through 61.19, 61.349,
	associated Closed Vent System (e.g.	61.354(d), 264.1089(j), and Permit
	connections and hoses/piping) for	Conditions II.H.4. and IV.G.3.
	tanks T-1, T-2, T-5, and T-6. WS-1,	
	and the piping, connections, and any	
	flow-inducing devices that transport	
	gas or vapor from a piece or pieces of	
	equipment to WS-1, is an air pollution	
	control device.	

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Tank or	Description	Air Emission Control Requirements
Unit No.		Applicable to this Unit
WS-2	Carbon Adsorber No.2 and associated Closed Vent System (e.g. connections and hoses/piping) for hoppers H-1 and H-2. WS-2, and the piping, connections, and any flow-inducing devices that transport gas or vapor from a piece or pieces of equipment to WS-2, is an air pollution control	40 CFR §§ 61.01 through 61.19, 61.349, 61.354(d), and 264.1064(m) (or 40 CFR Part 264, Subpart BB, for closed vent systems and control devices) and Permit Conditions I.K.10., II.H.4. and IV.G.3.
	device.	
WS-3	Carbon Adsorber No.3 and associated Closed Vent System (e.g. connections and hoses/piping) for tank T-18. WS-3, and the piping, connections, and any flow-inducing devices that transport gas or vapor from a piece or pieces of equipment to WS-3, is an air pollution control device.	40 CFR §§ 61.01 through 61.19, 61.349, 61.354(d), 264.1089(j), and Permit Conditions II.H.4. and IV.G.3
Closed	Hoses/piping and connections leading	40 CFR §§ 61.01 through 61.19, 61.349,
Vent	from tanks to adsorbers. The piping,	61.354(d), 264.1089(j), and Permit
Systems	connections, and any flow-inducing	Conditions II.H.4. and IV.G.3.
Connected	devices that transport gas or vapor	
to WS-1 and WS-3	from the hazardous waste tanks to air pollution control devices, such as WS-1, and WS-3, are closed vent systems.	
Closed	Hoses/piping and connections leading	40 CFR §§ 61.01 through 61.19, 61.349,
Vent	from hoppers to adsorbers. The	61.354(d), 264.1064(m), (or 40 CFR Part
Systems	piping, connections, and any flow-	264, Subpart BB, for closed vent
Connected	inducing devices that transport gas or	systems) and Permit Conditions I.K.10.,
to WS-2	vapor from the hoppers to an air pollution control device, such as WS-2, are closed vent systems.	II.H.4. and IV.G.3.

**IV.G.6.** For hazardous waste managed and/or stored on site in any tank systems that are not equipped with air pollution control devices installed prior to December 6, 1996, the Permittees shall determine the average volatile organic concentration of the waste at the point of waste generation, in accordance with the procedures

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specified in 40 CFR § 264.1083(a). The average shall be determined over an annual timeframe, as specified in 40 CFR § 264.1083(a). In accordance with 40 CFR § 264.1082(c)(1), the Permittees shall review and update, as necessary, this determination at least once every 12 months following the date of the initial determination for the hazardous waste streams managed and/or stored in such containers. [See 40 CFR §§ 264.1082 and 264.1083.]

- **IV.G.7.** For any hazardous waste that has been treated at the Facility, the Permittees shall perform the applicable waste determinations for each treated hazardous waste placed in tanks that are exempted under the provisions of 40 CFR § 264.1082(c)(2)(i) through (c)(2)(vi) in accordance with the procedures specified in 40 CFR § 264.1083(b). [See 40 CFR § 264.1083.]
- IV.G.8. Certain hazardous wastes or volumes of hazardous wastes managed at the facility trigger air emission control requirements under either the RCRA air emission control provisions at 40 CFR Part 264, Subpart CC or the Clean Air Act air emission control provisions at 40 CFR Part 61, Subpart FF, or both. For wastes subject to the requirements of either RCRA Subpart CC or CAA Subpart FF or both that are not subject to one of the exemptions listed at 40 CFR § 264.1082(c), that are managed in tank systems at the Facility, in addition to the requirements in Permit Condition III.G.1, the Permittees shall:
  - IV.G.8.a.i. This Permit Condition IV.G.8.a.i. applies to any hazardous waste tank that meets all of the conditions specified in 40 CFR § 264.1084(b)(1)(i) through (iii), which is not equipped with a carbon canister meeting the requirements of 40 CFR § 61, Subpart FF. The Permittees must control air pollutant emissions from such tanks in accordance with the Tank Level 1 controls specified in 40 CFR § 264.1084(c) or the Tank Level 2 controls specified in 40 CFR § 264.1084(d). If Tank Level 1 or Tank Level 2 controls apply, the Permittees must perform inspections, recordkeeping and reporting required for tanks subject to Tank Level 1 or Tank Level 2 controls, as applicable. [See 40 CFR §§ 264.1084(b)(1), (c) and (d).]
  - **IV.G.8.a.ii.** This Permit Condition IV.G.8.a.ii. applies to any hazardous waste tank that does not meet all of the conditions specified in 40 CFR § 264.1084(b)(1)(i) through (iii), and which is not equipped with a carbon canister meeting the requirements of 40 CFR § 61, Subpart FF. The Permittees must control air pollutant emissions from such tanks in accordance with the Tank Level 2 controls specified in 40 CFR § 264.1084(d). If Tank Level 2 controls

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apply, the Permittees must perform inspections, recordkeeping and reporting required for tanks subject to Tank Level 2 controls. [See 40 CFR §§ 264.1084(b)(2), and (d).]

- **IV.G.8.a.iii.** This Permit Condition IV.G.8.a.iii. applies to any hazardous waste tank for which air pollution emissions are controlled by venting the tank to a control device, other than those tanks equipped with a carbon canister meeting the requirements of 40 CFR § 61, Subpart FF. The Permittees shall control air emissions from such tanks in accordance with the requirements set forth at 40 CFR § 264.1084(g)(1) through (g)(3). If the requirements of 40 CFR § 264.1084(g)(1) through (g)(3) apply, the Permittees must perform inspections, recordkeeping and reporting required for tanks subject to 40 CFR 264.1084(g). [See 40 CFR §§ 264.1084(g).]
- **IV.G.8.a.iv.** This Permit Condition IV.G.8.a.iv. applies to the transfer of hazardous waste to any hazardous waste tank where the average volatile organic concentration is above the standard set forth at 40 CFR 264.1082(c)(1) (*i.e.*, 500 ppmw) other than to a tank equipped with a carbon canister meeting the requirements of 40 CFR § 61, Subpart FF. The Permittees shall transfer hazardous waste to any such tank in accordance with the requirements of 40 CFR § 264.1084(j). [See 40 CFR § 264.1084(j).]
- **IV.G.8.b.** This Permit Condition IV.G.8.b. applies to any tank equipped with a carbon canister meeting the requirements of 40 CFR Part 61, Subpart FF. The Permittees shall operate and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to the carbon canister in accordance with the following requirements:
  - **IV.G.8.b.i.** The fixed-roof shall meet the requirements set forth at 40 CFR § 61.343(a)(1)(i).
  - **IV.G.8.b.ii.** The closed-vent system and control device (*i.e.*, carbon canister) shall be designed and operated in accordance with the requirements of 40 CFR § 61.349. [See 40 CFR Part 61, Subpart FF.]
- **IV.G.9.** The Permittees shall change-out the carbon in WS-1, WS-2 and WS-3, respectively, in accordance with the schedule set forth in the Permit Attachment Appendix XXIII, Section 4.5 and the engineering calculations in Appendix C thereto to ensure control of emissions from volatile organic compounds (VOCs)

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into ambient air.

**IV.G.10.** The Permittees shall comply with the record keeping requirements of 40 CFR §§ 264.1064(m) and 264.1089(j) for any tank or equipment equipped with and operating air emission controls in accordance with CAA requirements set forth in 40 CFR Parts 60, 61, or 63, which are deemed in compliance with 40 CFR Part 264 Subpart BB or Subpart CC, as appropriate. [See 40 CFR §§ 264.1064(m) and 264.1089(j). See also Permit Condition I.K.10.]

#### IV.H. INSPECTION SCHEDULES AND PROCEDURES

- IV.H.1. The Permittees shall inspect the tank systems, in accordance with the Inspection Schedule in Permit Attachment Section F and Permit Attachment Appendix XII. [See 40 CFR § 264.195, Permit Attachment Section F and Permit Attachment Appendix XII.]
- **IV.H.2.** The Permittees shall visually inspect the spent carbon storage tank systems, (T-1, T-2, T-5, T-6 and T-18), daily. This inspection shall include, at a minimum:
  - **IV.H.2.a.** A visual inspection of the above-ground portions of the tank systems to detect corrosion or releases of waste in accordance with 40 CFR § 264.195(c)(1);
  - **IV.H.2.b.** A visual inspection of the construction materials and the area immediately surrounding the externally accessible portion of each tank system, including the secondary containment systems to detect erosion or signs of releases of hazardous waste in accordance with 40 CFR § 264.195(c)(2);
  - **IV.H.2.c.** Ancillary equipment that is not provided with secondary containment, as described in 40 CFR § 264.193(f)(1) through (4), must be inspected at least once each operating day in accordance with 40 CFR § 264.195(f); and
  - **IV.H.2.d.** For ancillary equipment not contained or located over secondary containment, a leak test must be conducted annually in accordance with 40 CFR § 264.193(i). [See 40 CFR § 264.193(i).]
- **IV.H.3.** The Permittees shall conduct daily inspections of the overfill/spill control equipment (*e.g.*, waste-feed cutoff systems, bypass systems, and drainage

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systems) to ensure that this equipment is in good working order. [See 40 CFR § 264.195.]

- **IV.H.3.a.** The Permittees shall conduct daily visual inspections of the tank walls and pad for wetness, cracks, holes, or other evidence of malfunction. [See Permit Attachment Section F.]
- **IV.H.3.b.** The Permittees shall, on a daily basis, check for leaks around the valve areas, couplings, and threaded nipples, as applicable. [See Permit Attachment Section F.]
- **IV.H.3.c.** The Permittees shall, on a daily basis, check tank markings for weathering and proper identification of tank contents. [See Permit Attachment Section F.]
- **IV.H.3.d.** The Permittees shall, on a daily basis, check external tank walls for signs of corrosion and pitting. [See Permit Attachment Section F.]
- **IV.H.4.** At least once each operating day, the Permittees shall conduct reviews of the data gathered from monitoring and leak detection equipment (*e.g.*, pressure or temperature gauges, monitoring wells) to ensure that the tank systems are being operated according to their designs. [See 40 CFR § 264.195(b).]
- **IV.H.5.** The Permittees shall visually inspect daily the valve position and level monitoring systems for proper operation. [See Permit Attachment Section F.]
- **IV.H.6.** The Permittees shall perform inspections of each hazardous waste tank to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. [See 40 CFR § 264.1084.]
- **IV.H.7.** <u>Ultrasonic Thickness Testing</u>
  - **IV.H.7.a.** The Permittees shall conduct annual ultrasonic thickness testing at the bottom of the cylinder wall above the cone-cylinder intersection and at the previous locations of minimum shell thickness readings (as recommended in the tank assessment in the Permit Attachment Appendix IX) for each major component (top head, cylinder wall, bottom cone and support skirt) on each of tanks T-1, T-2, T-5, T-6 and T-18. [See Permit Attachment Section F and Permit Attachment Appendix IX.]

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- IV.H.7.b. In addition, the Permittees shall conduct comprehensive ultrasonic thickness testing every five (5) years for each major component (top head, cylinder wall, bottom cone, and support skirt) on each of the and tanks T-1, T-2, T-5, T-6 and T-18 as recommended in the tank assessment in the Permit Attachment Appendix IX. [See Permit Attachment Section F and Permit Attachment Appendix IX.]
- **IV.H.7.c.** The Permittees shall remove from service and repair or replace any tank with cylindrical wall thickness that is less than or equal to 0.157 inches. [See Permit Attachment Section F and Permit Attachment Appendix IX.]
- **IV.H.7.d.** The Permittees shall replace all carbon steel components and fittings of any hazardous waste tank system that are in direct contact with spent carbon and recycle water slurry with 300 series stainless steel components and fittings prior to performing the next set of comprehensive ultrasonic thickness test measurements. [See Permit Attachment Section F and Permit Attachment Appendix IX.]
- IV.H.8. The Permittees shall inspect the air emission control equipment in accordance with the following requirements and Permit Attachment Section F and Permit Attachment Appendix XII. The Permittees shall visually inspect the carbon adsorption systems (WS-1, WS-2, and WS-3) and their closed vent systems on a daily basis to ensure there are no leaks from these devices and that they are properly operated. The visual inspection shall include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections. [See Permit Attachment Section F and Permit Attachment Appendix XII.]
- **IV.H.9.** The Permittees shall maintain the paint coating on exterior surfaces of all tank system components that are carbon steel by repainting if visual observation indicates that 20% or greater of the component's paint coating is damaged. [See Permit Attachment Section F and Permit Attachment Appendix IX.]
- **IV.H.10.** If a tank system or component is found to be leaking or unfit for use as a result of the leak test or assessment, the Permittees shall comply with Permit Condition IV.C. of this Permit and notify the Director in accordance with Permit Condition IV.J. of this Permit. [See 40 CFR § 264.193(i)(5).]

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#### IV.I. RESPONSE TO LEAKS, SPILLS OR DEFECTS

- **IV.I.1.** In the event of: (1) a leak or a spill from a tank system, (2) a leak or spill from a secondary containment system, (3) a system becomes unfit for continued use due to defects or a state of disrepair, or (4) a defect in a carbon adsorber is detected, the Permittees shall remove the system from service immediately and complete the following actions:
  - **IV.I.1.a.** Immediately stop the flow of hazardous waste into the system and inspect the system to determine the cause of the release. [See 40 CFR § 264.196(a).]
  - **IV.I.1.b.** Remove waste and accumulated precipitation from the system within 24 hours of the detection of the leak to prevent further release and to allow inspection and repair of the system. [See 40 CFR § 264.196(b).]
    - **IV.I.1.b.i.** If the Permittees find that it will be impossible to meet this time period, the Permittees shall, at the earliest practicable time, remove as much of the waste as is necessary to prevent further release of hazardous waste to the environment and to allow inspection and repair of the system to be performed and in as timely a manner as is possible to prevent harm to human health or the environment. In such event, the Permittees shall also provide prompt notification (*i.e.*, within 24 hours of detection of the leak) to the Director regarding any additional time that may be required to complete removal of waste and accumulated precipitation from the system. The Director may approve the additional time required or set another time frame to complete removal of the leaked material in their sole discretion.
    - **IV.I.1.b.ii.** If the collected material is a RCRA hazardous waste, it must be managed in accordance with all applicable requirements of this Permit. The Permittees shall note that if the collected material is discharged through a point source to U.S. waters or to a Publicly Owned Treatment Works (POTW), such discharge is subject to requirements of the Clean Water Act. If the collected material is released to the environment, it may be subject to additional reporting requirements pursuant to 40 CFR Part 302.
  - **IV.I.1.c.** Contain visible releases to the environment. The Permittees shall immediately

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conduct a visual inspection of all releases to the environment and based on that inspection:

- **IV.I.1.c.i.** Prevent further migration of the leak or spill to soils or surface water; and
- **IV.I.1.c.ii.** Remove and properly dispose of any visible contamination of the soil or surface water. [See 40 CFR § 264.196(c).]
- **IV.I.1.d.** Close the system in accordance with the Closure Plan, Permit Attachment I, unless the following actions are taken:
  - **IV.I.1.d.i.** For a release caused by a spill that has not damaged the integrity of the system, the Permittees shall remove the released waste and make any necessary repairs to the system before returning the system to service. [See 40 CFR § 264.196(e)(2).]
  - **IV.I.1.d.ii.** For a release caused by a leak from a tank system to a secondary containment system, the Permittees shall repair the tank system prior to returning it to service. [See 40 CFR § 264.196(e)(3).]
  - **IV.I.1.d.iii.** For a release to the environment caused by a leak from a component of a tank system that does not have secondary containment, the Permittees shall repair the tank system in accordance with 40 CFR § 264.196(e)(4) before returning it to service. [See 40 CFR § 264.196(e)(4).]
  - **IV.I.1.d.iv.** For a defect or other problem detected during equipment inspections, repairs must be performed within the time frames outlined in Table 1 of the Permit Attachment Appendix XXIII, Subpart FF Compliance Plan.
- **IV.I.1.e.** For all major repairs to eliminate leaks or restore the integrity of the tank systems, the Permittees must obtain a certification by an independent, qualified, registered Professional Engineer in accordance with 40 CFR § 270.11(d) and notify the Director that the repaired system is capable of handling hazardous wastes without release for the intended life of the system before returning the system to service. Examples of major repairs are: installation of an internal liner, repair of a ruptured tank, or repair or

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replacement of a secondary containment vault. [See 40 CFR § 264.196(f).]

IV.I.2. In the event a defect is detected during any of the inspections required under Permit Condition IV.H.8., the Permittees shall repair each defect detected in accordance with 40 CFR §§ 264.1084(k)(1) and (2). [See 40 CFR §§ 264.1084(k)(1) and (2).]

#### IV.J. RECORDKEEPING AND REPORTING

- **IV.J.1.** For any existing tank system that does not have secondary containment meeting the requirements of 40 CFR § 264.193, the Permittees must maintain and keep on file at the Facility a written assessment in accordance with 40 CFR § 264.191. [See 40 CFR § 264.191.]
- IV.J.2. Unless a leak or spill of hazardous waste is exempted from the reporting requirements in accordance with 40 CFR § 264.196(d)(2), the Permittees shall report to the Director, within 24 hours of detection, regarding any leak or spill of hazardous waste to the environment. [See 40 CFR §§ 264.196(d)(1) and (2).]
- **IV.J.3**. Within 30 days of detecting a release to the environment from a tank system or secondary containment system, the Permittees shall report the following information to the Director:
  - **IV.J.3.a.** Likely route of migration of the release;
  - **IV.J.3.b.** Characteristics of the surrounding soil (including soil composition, geology, hydrogeology, and climate);
  - **IV.J.3.c.** Results of any monitoring or sampling conducted in connection with the release, if available. (If sampling or monitoring data relating to the release are not available within 30 days, these data must be submitted to the Director as soon as they become available.);
  - **IV.J.3.d.** Proximity of down gradient drinking water, surface water, and populated areas; and
  - **IV.J.3.e.** Description of response actions taken or planned. [See 40 CFR § 264.196(d)(3).]

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- **IV.J.4.** If the Permittees have repaired a tank system in accordance with permit condition IV.I.1.e., the Permittees shall maintain the required Professional Engineer certification in the operating record at the Facility until closure of the Facility is completed. [See 40 CFR § 264.196(f).]
- **IV.J.5.** The Permittees shall maintain at the Facility a record of the most recent results of leak tests and integrity tests for each tank system or secondary containment system conducted in accordance with this Permit. [See 40 CFR §§ 264.193(i)(4).]
- **IV.J.6.** The Permittees shall document compliance with Permit Conditions IV.H.1. through IV.H.6 and IV.H.8. and place this documentation in the operating record for the Facility for at least three (3) years from the date such inspection or test occurs. The Permittees shall maintain records of the Ultrasonic Thickness testing for at least 5 years from the date such testing occurs. [See 40 CFR §§ 264.73 and 264.195(h).]
- **IV.J.7.** The Permittees shall maintain a copy of the Permit Attachment Subpart FF Compliance Plan in the Facility's operating record for the operating life of the facility.
- IV.J.8. In accordance with 40 CFR § 264.1064, the Permittees shall maintain documentation pertaining to WS-1, WS-2 and WS-3 as required by either 40 CFR § 61.355 or 40 CFR §§ 264.1060 and 264.1064, as elected in the [revised] Subpart BB Compliance Plan, Permit Attachment Appendix XIX, pursuant to Permit Condition I.K.10. [See 40 CFR § 61.355 and 40 CFR §§ 264.1060 and 264.1064. See also Permit Condition I.K.10.]

#### IV.K. SPECIAL TANK PROVISIONS FOR IGNITABLE OR REACTIVE WASTES

- **IV.K.1.** The Permittees shall not place ignitable waste in a tank or secondary containment system unless one of the following conditions is met:
  - **IV.K.1.i.** The waste is treated, rendered, or mixed before or immediately after placement in the tank system so that it meets the requirements of 40 CFR § 264.198(a)(1)(i) and (ii);
  - **IV.K.1.ii.** The waste is stored or treated in such a way that it is protected from any material or conditions that may cause the waste to ignite; or

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- **IV.K.1.iii.** The tank system is used solely for emergencies. [See 40 CFR § 264.198(a). See also Permit Condition II.H.1.]
- IV.K.2. If ignitable waste is stored or treated in a tank system at the Facility, the Permittees must comply with the requirements for the maintenance of protective distances between the waste management area and any public ways, streets, alleys, or an adjoining property line that can be built upon, as required in Tables 2-1 through 2-6 of the National Fire Protection Association's "Flammable and Combustible Liquids Code," (1977 or 1981). [See 40 CFR § 264.198(b). See also Permit Condition II.H.1.]

#### IV.L. SPECIAL TANK PROVISIONS FOR INCOMPATIBLE WASTES

- **IV.L.1.** The Permittees shall not place incompatible wastes, or incompatible wastes and materials, in the same tank system or the same secondary containment system, unless they are doing so in compliance with 40 CFR § 264.17(b) and Permit Condition II.H.1. [See 40 CFR §§ 264.17(b) and 264.199(a).]
- IV.L.2. The Permittees shall not place hazardous waste in a tank system that has not been decontaminated and that previously held an incompatible waste or material, unless they are doing so in compliance with 40 CFR § 264.17(b) and Permit Condition II.H.1. [See 40 CFR §§ 264.17(b) and 264.199(b).]

#### IV.M. CLOSURE AND POST-CLOSURE CARE

- **IV.M.1.** At closure of each tank system, the Permittees shall follow the procedures in the Closure Plan and in Permit Attachment Section I and Permit Attachment Appendix XV. [See 40 CFR § 264.197(a). See also Permit Attachment Section I and Permit Attachment Appendix XV.]
- **IV.M.2.** If the Permittees demonstrate that not all contaminated soils can be practically removed or decontaminated in accordance with the Closure Plan, then the Permittees shall close such tank system(s) and perform post-closure care following the contingent procedures in the Closure Plan (Permit Attachment Section I and Permit Attachment Appendix XV) and in Permit Condition II.N. [See 40 CFR § 264.197(b). See also Permit Attachment Section I and Permit Attachment Appendix XV.]
- **IV.M.3.** If the secondary containment for Hopper H-1 is not implemented within a year

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from the effective date of this Permit, the contingent closure plan and proof of financial responsibility requirements of 40 CFR § 264.197(c) shall be implemented in accordance with Permit Condition I.K.9. [See also Permit Condition IV.F.6.b.iii. and 40 CFR § 264.197(c).]

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## MODULE V

## THERMAL TREATMENT UNIT/CARBON REGENERATION FURNACE

#### **V.A.** APPLICABILITY

- V.A.1. This module contains Permit Conditions for the operating Carbon Regeneration Furnace (RF-2), which consists of a five hearth furnace and the Afterburner (AB-2), and is classified as a miscellaneous unit, as defined in 40 CFR § 260.10. RF-2 and AB-2 are subject to the requirements set forth at 40 CFR Part 264, Subpart X. The RF-2 unit is used to regenerate spent activated carbon via thermal treatment. Process flow diagrams and a description of the carbon reactivation process are included in Permit Attachment Appendix VI. [See 40 CFR §§ 260.10, 264.600 to 264.603, and 270.23.]
- V.A.2. This module also includes permit conditions for the Air Pollution Control Equipment (APCE) for RF-2, AB-2, ancillary equipment of RF-2 and AB-2, and the feed system from Tank T-18. The APCEs are the Quench (Gas Cooling)/Venturi Scrubber (SC-11), Caustic Packed Bed Scrubber (SC-12), Wet Electrostatic Precipitator (W-11), Induced Draft Fan, and Stack. The five hearth furnace (RF-2), AB-2, and all their associated components (ancillary equipment [e.g., piping, weigh belt] and the APCEs) are collectively referred to herein as the "RF-2." [See 40 CFR §§ 264.600 to 264.603, and 270.23.]
- **V.A.3.** RF-2 is subject to the conditions and requirements set forth in this Module. Based on the authority contained in the regulations at 40 CFR §§ 264.600 *et seq.*, additional requirements are included in this Module to ensure protection of human health and the environment. These additional requirements are also based on 40 CFR Part 264 Subpart O, (Incinerators) and 40 CFR Part 63, Subpart EEE (Hazardous Waste Combustor, Maximum Achievable Control Technology Standards). [See 40 CFR §§ 63.1200 *et seq.*, 260.10, 264.600 to 264.603, and 270.23.]

#### **V.B.** GENERAL REQUIREMENTS FOR RF-2

**V.B.1.** Waste Processing and Handling Requirements

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- **V.B.1.i.** The Permittees receive hazardous wastes, *i.e.*, spent activated carbon from different generators, for treatment in RF-2. The Permittees also generate spent activated carbon onsite that constitutes a hazardous waste. The Permittees shall abide by the requirements established in Permit Condition V.B.2. for all wastes permitted for treatment in RF-2.
- **V.B.1.ii.** The Permittees shall ensure that carbon loading operations are safe for field workers engaged in these operations.
- **V.B.1.iii.** The Permittees shall ensure that the residence time for the solid carbon in the RF-2 is a minimum of 38 minutes at a shaft speed of 1 rotation per minute (rpm).

#### **V.B.2.** Permitted Wastes for Treatment in RF-2

- **V.B.2.i.** The Permittees shall only treat in RF-2 spent carbon generated off-site containing hazardous waste identified in waste codes that are listed on Table II-2 in Module II of this permit.
- **V.B.2.ii.** The Permittees may also treat in RF-2 spent activated carbon generated onsite as a result of the Permittees' treatment activities. The sources of on-site generated spent activated carbon shall be limited to the adsorbers that are used for control of gaseous emissions from the hazardous waste storage tanks (Tanks T-1, T-2, T-5, and T-6). [See Permit Attachment Appendix IV.]

#### **V.B.3.** Prohibited Wastes for Treatment in RF-2

**V.B.3.** The Permittees shall not accept, store or treat in RF-2 any hazardous waste other than as set forth in Permit Condition II.H.

#### **V.C.** OPERATION OF RF-2

## V.C.1. General Operating Conditions

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- V.C.1.i. The Permittees shall only feed wastes at or below the feed rates shown in Table V-1. The Permittees are not authorized to treat or feed in the RF-2 spent activated carbon that contains hazardous constituents in concentrations exceeding permissible feed limits. The applicable permissible feed limits are set forth in Permit Condition Table V-1. Periodic Performance Demonstration Tests, performed in accordance with Permit Condition I.K.1., shall also be used to demonstrate compliance with each of the parameters set forth in Table V-1, Performance Limits.
- **V.C.1.ii.** The Permittees are not authorized to treat or feed spent activated carbon that contains hazardous constituents in concentrations that would cause exceedances of permissible emission limits shown in Table V-1. In addition, for each of the parameters listed in Table V-1, the Permittees shall ensure that the permissible emission limit shown in Table V-1 is not exceeded. [See 40 CFR § 63.1209.]

Table V-1 - PERFORMANCE LIMITS

Parameter	<b>Emission Limits from</b>	How to Ensure Emission
	40 CFR § 63.1219	Limits are Met <sup>1</sup>
Low Volatile Metals <sup>2</sup>	Emission Limits	Feed Rate Limit:
	$92 \mu\mathrm{g}^3/\mathrm{dscm}^4$	1.5 lbs/hr <sup>5</sup> (12 hour rolling
		average)
Semi Volatile Metals <sup>6</sup>	Emission Limit:	Feed Rate Limit:
	230 μg/dscm	0.1 lbs/hr (12 hour rolling
		average)
Carbon Monoxide	Emission Limit: 100 ppmdv <sup>7</sup> as	CEMS <sup>8</sup> at the stack.
	corrected to 7% oxygen.	

<sup>&</sup>lt;sup>1</sup> The Permittees must comply with 40 CFR § 63.1209 for monitoring for all Emission Limits below. See Permit Condition V.C.1.IX.

<sup>&</sup>lt;sup>2</sup> Low volatile metal feed rate limits apply to arsenic, beryllium, and chromium, combined.

<sup>&</sup>lt;sup>3</sup> μg – micrograms.

<sup>&</sup>lt;sup>4</sup> dscm - dry standard cubic meter.

<sup>&</sup>lt;sup>5</sup> lbs/hr – pounds per hour.

<sup>&</sup>lt;sup>6</sup> Semi-volatile metal feed rate limits apply to lead and cadmium, combined.

<sup>&</sup>lt;sup>7</sup> ppmdv - parts per million on a dry volumetric basis.

<sup>&</sup>lt;sup>8</sup> CEMS – Continuous Emissions Monitoring System.

Parameter	<b>Emission Limits from</b>	How to Ensure Emission
	40 CFR § 63.1219	Limits are Met <sup>1</sup>
Total Hydrocarbons	Emission Limit:	Performance Demonstration
	10 ppmdv as corrected to 7%	Tests (PDT). 9
	oxygen.	
Chlorine/ Chloride	Emission Limits:	Feed Rate Limit:
	32 ppmdv	60 lbs/hr
		(12 hour rolling
		average).
Mercury <sup>10</sup>	Emission Limit:	Feed Rate Limit:
	130 μg/dscm	1.8E-3 lbs/hr
		(12 hour rolling
		average).
Particulate Matter	Emission Limits:	PDT
	0.013 gr/dscf <sup>11</sup> corrected to 7	
	percent oxygen.	
Dioxins and Furans	Emission Limit:	PDT
	0.40 ng TEQ <sup>12</sup> /dscm, corrected	
	to 7 percent oxygen.	
Sulfur Oxides	Emission Limit:	Feed Rate Limit as set forth
	30.01 tpy	in revised WAP required
		pursuant to Permit Condition
		I.K.11. <sup>13</sup>
Nitrogen Oxides	Emission Limit:	Monitoring of the Natural
	22.22 tpy	Gas usage and PDT.

<sup>&</sup>lt;sup>9</sup> The rate of emissions below the applicable emission limit will be demonstrated during the PDTs.

<sup>&</sup>lt;sup>10</sup> The mercury feed rate to be calculated per 40 CFR § 264.1209(1)(1)(i)

<sup>11</sup> gr/dscf - grains per dry standard cubic foot

<sup>&</sup>lt;sup>12</sup> TEQ – Toxic Equivalency, which means the international method of expressing toxicity equivalents for dioxins and furans as defined in U.S. EPA, Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 Update, March 1989. <sup>13</sup> This limit will not be in effect until the WAP has been modified in accordance with Permit Condition I.K.11.

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- V.C.1.iii. Throughout operation, the Permittees shall conduct analysis in accordance with the Waste Analysis Plan, Permit Attachment C and Permit Attachment Appendix IV and Permit Condition II.C. to verify that waste fed to RF-2 is within the physical and chemical composition limits specified in this Permit. [See 40 CFR §§ 264.341(b) and 270.23.]
- **V.C.1.iv.** The Permittees are required to inspect, safely operate, and properly monitor RF-2 in accordance with the conditions of this Permit to protect human health and the environment during operation, maintenance, startup, shut-down and malfunction of RF-2.
- **V.C.1.v.** The Permittees shall maintain RF-2 in accordance with the design plans, design specifications, stack layout drawing, and maintenance procedures contained in Permit Attachment B, Permit Attachment Appendices VI and X.
- **V.C.1.vi.** The operating parameters are grouped into the following categories: Groups A1, A2, B and C; and are categorized as defined in EPA guidance document: <a href="Handbook: Guidance on Setting Permit Conditions and Reporting Trial Burn Results">Handbook: Guidance on Setting Permit Conditions and Reporting Trial Burn Results</a>, (EPA/625/6-89/019), Table 2-1.
  - V.C.1.vi.a. Group A1 parameters shall be continuously monitored and recorded, and shall be interlocked with the automatic waste feed cutoff system. Group A1 parameter limits were established from test operating data, and are used to ensure that system operating conditions are equal to or are more rigorous than those demonstrated during the test.
  - V.C.1.vi.b. Group A2 parameters shall be continuously monitored and recorded, and shall be interlocked with the automatic waste feed cutoff system. Group A2 parameter limits have been established based on regulatory requirements rather than on the test operating conditions, e.g., the maximum stack CO concentration.
  - **V.C.1.vi.c.** Group B parameters shall be continuously monitored and recorded, but are not required to be interlocked with the

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automatic waste feed cutoff system. Operating records are required to ensure that established limits for these parameters are not exceeded. The Group B parameter limits were established based on the operation of the system during the performance test.

**V.C.1.vi.d.** Group C parameters shall be continuously monitored and recorded, but are not required to be interlocked with the automatic waste feed cutoff system. Group C parameter limits are based on manufacturer's recommendations, operational safety, and good operating practice considerations rather than on the test operating conditions, e.g., the minimum packed bed scrubber pressure differential.

**V.C.1.vii.** The following Table V-2 includes critical operating conditions. The term "AWFCO" in the comments column indicates that the operating parameter shall be interlocked with the automatic waste feed cutoff system. The Permittees shall comply with the Operating Limits in Table V-2.

Table V-2 - OPERATING LIMITS AND PARAMETERS

	Permit	
Control Parameters 14	Limit	Comments
GROUP A1 PARAMETERS		
Maximum spent carbon feed rate (lbs/hr)	3049	Block hour AWFCO
Minimum afterburner temperature (°F)	1760	Hourly rolling average AWFCO
Minimum hearth #5 temperature (°F)	1350	Hourly rolling average AWFCO
Minimum venturi scrubber pressure differential (in. w.c.)	18	Hourly rolling average AWFCO
Minimum quench/venturi scrubber total liquid flow rate (gpm)	75	Hourly rolling average AWFCO
Minimum packed bed scrubber pH	4.4	Hourly rolling average AWFCO

<sup>&</sup>lt;sup>14</sup> Groups A1, A2, B, and C Parameters are explained in detail in Permit Condition V.C.1.vi.

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	Permit	
Control Parameters <sup>14</sup>	Limit	Comments
Minimum packed bed scrubber liquid flow rate	63	Hourly rolling average
(gpm)		AWFCO
Minimum wet scrubber blowdown flow rate (gpm)	58	Hourly rolling average AWFCO
Minimum WESP secondary voltage (kVDC)	22	Hourly rolling average AWFCO
Maximum stack gas flow rate (acfm)	9,550	Hourly rolling average AWFCO
GROUP A2 PARAMETERS		
Maximum stack gas carbon monoxide (ppmdv, @7% oxygen) <sup>15</sup>	100	Hourly rolling average AWFCO
GROUP B PARAMETERS		
Allowable hazardous constituents	All except	Class 1 POHC demonstrated
	dioxin	to meet the 99.99%
	wastes and	Destruction Removal
	TSCA	Efficiency per Permit
	PCBs	Attachment Appendix V
Maximum total chlorine and chloride feed rate (lbs/hr)	60	12-hour rolling average
Maximum mercury feed rate (lbs/hr)	1.8E-3 <sup>16</sup>	12-hour rolling average
Maximum semivolatile metal (Cd + Pb) feed rate (lbs/hr)	1.0E-01	12-hour rolling average
Maximum low volatility metal (As + Be + Cr) feed rate (lbs/hr)	1.5E+00	12-hour rolling average
GROUP C PARAMETERS		
Minimum packed bed scrubber pressure differential (in. w.c.)	0.1	Hourly rolling average

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As = Arsenic

AWFCO = Automatic Waste Feed Cutoff

Be = Beryllium

Cd = Cadmium

¹⁵ AWFCO interlock is not active during the daily continuous emission monitor CEM calibration period.

 $^{^{16}}$ 1.8E-3 = 1.8 x 10-3.

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Cr = Chromium

lbs/hr = pounds per hour

WESP = Wet electrostatic precipitator

Pb = Lead

POHC = Principal organic hazardous constituent

TSCA = Toxic Substances Control Act

PCBs = Polychlorinated Biphenyls

in. w.c. = inches of water column

kVDC = kilovolts Direct Current

gpm = gallons per minute

acfm = actual cubic feet per minute

ppmdv = parts per million on a dry volumetric basis in the stack gas

- **V.C.1.viii.** Waste shall not be fed to the RF-2 if any of the continuous monitoring instruments malfunction or otherwise fail to operate properly.
- **V.C.1.ix.** All monitoring must be conducted in accordance with the requirements of 40 CFR § 63.1209 applicable to incinerators. [See 40 CFR § 63.1209.]
- **V.C.1.x.** Failure to comply with the operating requirements in this Permit is failure to ensure compliance with the emission standards included in this Permit. [See 40 CFR § 63.1206(c)(1)(iii).]

V.C.2. Start Up, Shutdown, and Malfunction Plan

- V.C.2.a. The Permittees shall implement the Start-up, Shutdown, and Malfunction Plan (SSMP) to minimize emissions of toxic compounds from startup, shutdown, and malfunction events. The Permittees' SSMP is found in the Application in Appendix XXII and is incorporated into this Permit by this reference as Permit Attachment Appendix XXII.
- **V.C.2.b.** The Permittees shall follow the requirements of the SSMP, whenever RF-2 is in non-compliance with the provisions of this Permit.
- **V.C.2.c.** The Permittees shall submit to the Director a request for a Permit Modification in accordance with Permit Condition I.G.7., with an accompanying revised SSMP whenever they determine that one or more changes to the SSMP are appropriate.

This draft permit has been created in accordance with 40 CFR § 124.6 as part of US EPA's proposed RCRA hazardous waste permit decision for the hazardous waste facility (EPA ID # AZD982441263) located on trust land of the Colorado River Indian Tribes at 2523 Mutahar Street, Parker, Arizona, 85344, and operated by Evoqua Water Technologies LLC

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V.C.2.d. The Permittees must maintain a copy of the SSMP in the operating record at the Facility for the operating life of RF-2.

V.C.3. Monitoring Equipment

The Permittees shall maintain, calibrate, and operate monitoring equipment and record the data required by this Permit while processing hazardous waste.

V.C.4. Regulatory Compliance Instrumentation

V.C.4.i. The Permittees shall operate RF-2 and calibrate the RF-2-related instrumentation listed in Table V-3 pursuant to the parameters – including the frequencies -- set forth in Table V-3. Quality assurance and quality control shall be done in accordance with 40 CFR Part 60 QA/QC requirements.

TABLE V-3 - REGULATORY COMPLIANCE INSTRUMENTATION

| Parameter | Identification Number of Sensor/ Transmitter ¹⁷ | Instru-
ment
Type | Units | Range | Operating
Point or
Range | Calibration
Frequency | Averaging | AWFCO
(Y/N) |
|-------------------------------------|--|-------------------------|--------|--------|--|--------------------------|---------------|----------------|
| Feed rate of spent activated carbon | WE/WT-427 | Weigh
cell | lbs/hr | 0-6000 | Less than or equal to 3049 | Semi-
annually | 1-hr
Block | Y |
| Total feed rate of mercury | Computer | Calcu-
lated | lbs/hr | NA | 0 – Less
than or
equal to
1.8E-03 | NA | 12-hr
RA | N |
| Total feed rate of SVM | Computer | Calcu-
lated | lbs/hr | NA | Less than or equal to $0-1.0$ | NA | 12-hr
RA | N |

¹⁷ Instrument identification from P&IDs.

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| Parameter | Identification Number of Sensor/ Transmitter ¹⁷ | Instru-
ment
Type | Units | Range | Operating
Point or
Range | Calibration
Frequency | Averaging | AWFCO
(Y/N) |
|---|--|---|----------|--------|---|--------------------------|-------------|----------------|
| Total feed
rate of LVM | Computer | Calcu-
lated | lbs/hr | NA | Less than or equal to $0 - Less$ than or equal to 1.5 | NA | 12-hr
RA | N |
| Afterburner gas temperature | TE-464A/B | Thermo-
couple | °F | 0-2400 | Greater than or equal to 1760 | Semi-
annually | 1-hr RA | Y |
| Venturi
scrubber
pressure
differential | PDIT-556 | Pressure
sensor | in. w.c. | 0-50 | Greater than or equal to 18 | Annually | 1-hr RA | Y |
| Venturi / Quench scrubber recycle liquid flow rate (Total Flow) | FI-562
(Total of
FE/FIT-553,
554, & 555) | Sum of
Magnetic
flow
meters
(Dynac
Function) | gpm | 0-656 | Greater than
or equal to
75 | Annually | 1-hr RA | Y |
| Packed bed
scrubber pH | AE/AIT-590 | pH probe | рН | 0-14 | Greater than or equal to 4.4 | Quarterly | 1-hr RA | Y |
| Packed bed
scrubber
recycle
liquid flow
rate | FE/FIT-552 | Magnetic
flow
meter | gpm | 0-200 | Greater than 63 | Annually | 1-hr RA | Y |

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| Parameter | Identification Number of Sensor/ Transmitter ¹⁷ | Instru-
ment
Type | Units | Range | Operating
Point or
Range | Calibration
Frequency | Averaging | AWFCO
(Y/N) |
|--|--|--|--------------------------------|-----------------------|--------------------------------|----------------------------------|-----------|----------------|
| Packed bed
scrubber
pressure
differential | PDIT-560 | Pressure sensors | in. w.c. | 0-10 | Greater than 0.1 | Annually | 1-hr RA | N |
| Scrubber
blowdown
flow rate | FE/FIT-605 | Magnetic
flow
meter | gpm | 0-691 | Greater than 58 | Annually | 1-hr RA | Y |
| WESP
secondary
DC voltage | EI-558 | Voltmeter | kV DC | 0-80 | 14-22 | NA | 1-hr RA | Y |
| Stack gas
flow rate | FE/FIT-700 | Ultrasonic
meter | acfm | Not
avail-
able | Less than or equal to 9,550 | Semi-
annually | 1-hr RA | Y |
| Stack gas
carbon
monoxide ¹⁸ | AE-575 | Non-
dispersive
infrared
CEMS | ppmdv
@7%
O ₂ | 0-100
0-1000 | Less than
100 | Daily/
Quarterly/
Annually | 1-hr RA | Y |
| Stack gas
oxygen 19 | AE-576 | Para-
magnetic
CEMS | vol%,
dry | 0-25 | 7 | Daily/
Quarterly/
Annually | None | N |
| Weigh belt | | | | | | Calibrated
Semi-
Annually | | |

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RA = Rolling average as defined in 40 CFR § 63.1209(a)(6). AWFCO = Automatic Waste Feed Cut Off.

<sup>&</sup>lt;sup>18</sup> Continuous Emissions Monitoring System (CEMS) calibrations shall include daily zero and span check, quarterly cylinder gas audit, and annual performance specification test.

<sup>&</sup>lt;sup>19</sup> Continuous Emissions Monitoring System (CEMS) calibrations shall include daily zero and span check, quarterly cylinder gas audit, and annual performance specification test.

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SVM = Semi-Volatile Metals

LVM = Low-Volatile Metals

in. w.c. = inches of water column

kVDC = kilovolts Direct Current

gpm = gallons per minute

acfm = actual cubic feet per minute

ppmdv @ 7% O<sub>2</sub> = parts per million on a dry volumetric basis in the stack gas as corrected to 7% oxygen

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V.C.4.ii. The Permittees must keep the necessary parts for routine repairs of the continuous monitoring system (CMS) equipment, including the CEMS equipment, readily available.

V.C.4.iii. The Permittees shall conduct the CMS performance and test protocols, including all record keeping and reporting, set forth in 40 CFR § 63.8.

V.C.5. Automated Waste Feed Cutoff Requirements

- **V.C.5.i.** The Permittees shall operate RF-2 with a functioning automatic waste feed cutoff system (AWFCO) that immediately and automatically cuts off the hazardous waste feed to RF-2 in accordance with 40 CFR § 63.1206(c)(3). [See 40 CFR § 63.1206(c)(3).]
- **V.C.5.ii.** The Permittees shall automatically cut off the hazardous waste feed to RF-2 if any of the following occur:
 - **V.C.5.ii.a.** Operating limits for Groups A1 and A2 parameters listed in Table V-2 or emission limits listed in Table V-4 are not met.
 - **V.C.5.ii.b.** When the span value of any CMS detector, except a CEMS, is met or exceeded; [See 40 CFR § 63.1206(c)(3)(i)(B).]

[Note: Parameter CMSs are process instruments that continuously monitor and record parameter data from the operation of the carbon reactivation process. The instruments consist of weigh belts, flow meters, pressure transducers, thermocouples and other devices that collect process information on key regulatory parameters.]

V.C.5.ii.c. Upon malfunction of a CMS; [See 40 CFR § 63.1206(c)(3)(i)(C).] or

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- **V.C.5.ii.d.** When any component of the AWFCO system fails. [See 40 CFR § 63.1206(c)(3) (i)(D).]
- **V.C.5.iii.** During an AWFCO, the Permittees must continue to duct combustion gases to the air pollution control equipment while hazardous waste remains in RF-2 (*i.e.*, if the hazardous waste residence time has not transpired since the hazardous waste feed cutoff system was activated). After an AWFCO, the remainder of the system shall continue to operate until residence time has transpired to ensure all waste remaining in the system has been processed with the APCE still operational. [See 40 CFR § 63.1206(c)(3)(ii).]
- **V.C.5.iv.** In the event of an AWFCO, the Permittees shall implement the SSMP and operate RF-2 under the provisions of the SSMP. [See 40 CFR §§ 63.1206(c)(2) and (c)(3).]
- **V.C.5.v.** During malfunctions, the Permittees shall comply with the AWFCO requirements of the SSMP and 40 CFR § 63.1206(c)(3), except for sections 63.1206(c)(3)(v) and (vi). [See 40 CFR § 63.1206(c)(2)(v)(A)(1).]
 - V.C.5.v.a. If the Permittees fail to meet an emission standard listed in Table V-4 or a Group A-1 or Group A-2 parameter specified in Table V-2, the AWFCO system must immediately and automatically cut off the hazardous waste feed. If the malfunction itself prevents immediate and automatic cut off of the hazardous waste feed, however, the Permittees must cease feeding hazardous waste as quickly as possible. [See 40 CFR § 63.1206(c)(2)(v)(A)(1).]
 - **V.C.5.v.b.(1).** The AWFCO requirements continue to apply during a malfunction. If an exceedance of an emission standard listed in Table V-4 or a Group A-1 or Group A-2 parameter specified in Table V-2 occurs, the Permittees shall undertake the corrective measures prescribed in the SSMP. [See 40 CFR § 63.1206(c)(2)(v)(A)(2).]
 - **V.C.5.v.b.(2).** For the purposes of determining the duration of an exceedance as a result of a malfunction (including power outages), the exceedance will begin once an emission standard or operating limit is exceeded

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while spent carbon is in RF-2. The exceedance will end once the spent activated carbon has cleared RF-2 or once the emissions and operating parameters are reestablished within their respective permit limits, whichever occurs sooner. Thus one incident may constitute one exceedance, which may include multiple emissions or operating parameters not being met.

- **V.C.5.v.c.** For each set of 10 exceedances of an emission standard or operating requirement while hazardous waste remains in the combustion chamber (*i.e.*, when the hazardous waste residence time has not transpired since the hazardous waste feed was cutoff) during a 60-day block period, the Permittees must comply with the requirements of 40 CFR § 63.1206(c)(2)(v)(A)(3) as follows:
 - **V.C.5.v.c.(1).** Within 45 days of the 10th exceedance, the Permittees must complete an investigation of the cause of each exceedance and evaluation. The evaluation is to include approaches to minimize the frequency, duration, and severity of each exceedance, and revise the SSMP as warranted by the evaluation to minimize the frequency, duration, and severity of such exceedances. [See 40 CFR § 63.1206(c)(2)(v)(A)(3)(i).]
 - V.C.5.v.c.(2). The Permittees must record the results of the investigation and evaluation in the operating record, and include a summary of the investigation and evaluation, and any changes to the SSMP in an excess emissions report that meets the requirements of 40 CFR § 63.10(e)(3) but need only submitted to the Director for approval in accordance with Permit Condition V.C.5.v.c.(3) after each 10th exceedance as described in Permit Condition V.C.5.v.c.(1). [See 40 CFR § 63.1206(c)(2)(v)(A)(3)(ii).]
 - **V.C.5.v.c.(3).** The Permittees must submit to the Director for approval in accordance with Permit Condition I.G.5. an excess emissions report that otherwise meets the requirements of 40 CFR § 63.10(e)(3) within 60 days following each 10th exceedance as described in Permit Condition V.C.5.v.c.(1). [See 40 CFR § 63.1206(c)(2)(v)(A)(3)(ii).]

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V.C.5.v.d.

If, after any AWFCO, there is an exceedance of a parameter in Table V-2 required to be interlocked with the AWFCO system, or when an exceedance of a Group A-1 or Group A-2 parameter specified in Table V-2 occurs, irrespective of whether the exceedance occurred while hazardous waste remained in the combustion chamber (*i.e.*, whether the hazardous waste residence time has transpired since the hazardous waste feed cutoff system was activated), the Permittees must investigate the cause of the AWFCO, take appropriate corrective measures to minimize future AWFCOs, and record the findings and corrective measures in the Facility's operating record. [See 40 CFR§ 63.1206(c)(3)(v).]

V.C.5.vi. The Permittees shall not feed waste carbon during startups and shutdowns. [See 40 CFR § 63.1206(c)(2)(v)(B).]

V.C.5.vii. Restarting Waste Feed

The Permittees must not start feeding waste until the operating parameters specified in Table V-2 and the CEMS have returned to within the operating limits. [See 40 CFR § 63.1206(c)(3)(iii).]

V.C.5.viii. Failure of an AWFCO

If the AWFCO system fails to automatically and immediately cut off the flow of hazardous waste upon exceedance of a parameter in Table V-2 required to be interlocked with the AWFCO system, or when an exceedance of a Group A-1 or Group A-2 parameter specified in Table V-2 occurs, the Permittees must cease feeding hazardous waste as quickly as possible. [See 40 CFR § 63.1206(c)(3)(iv).]

V.C.5.ix. <u>Testing AWFCO</u>

The Permittees must test the AWFCO system and associated alarms at least monthly to verify operability. The Permittees must document and record AWFCO operability test procedures and results in the Facility's

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operating record. [See 40 CFR §§ 63.1206(c)(3)(vii) and 264.347(c) and (d).]

V.C.6. Burning of Natural Gas

- **V.C.6.i**. RF-2 (including all its APCE and ancillary equipment) shall be powered by natural gas only. Alternative fuel cannot be used unless this permit is modified. Any such modification request may require additional performance testing and/or an updated risk analysis.
- **V.C.6.ii.** The amount of natural gas burned in RF-2 (including all its APCE and ancillary equipment) shall be recorded monthly in millions of standard cubic feet (MMSCF) and such records shall be maintained in the operating record.
- V.C.6.iii. Each month, the Permittees shall calculate and record in the operating record the 12-month rolling sum in tons per year of nitrogen oxides (NOx) emissions from RF-2 (including all its APCE and ancillary equipment), based on: (1) the amount of natural gas burned in MMSCF; and (2) the emission factor in pounds per MMSCF, based on the most recent Performance Demonstration Test.

v.d. AIR POLLUTION CONTROL EQUIPMENT

V.D.1. The Permittees shall not exceed the Performance and Emission Limits specified in Table V-4.

TABLE V-4 - PERFORMANCE AND EMISSION LIMITS FOR RF-2

| Parameter | Purpose | Limit ²⁰ |
|--|----------------------------|---------------------|
| Destruction and
Removal Efficiency
(DRE) | To limit organic emissions | 99.99% |

²⁰ All values except DRE are corrected to 7% oxygen in the stack gas.

| Parameter | Purpose | Limit ²⁰ |
|------------------------------------|--|--|
| Particulate Matter (PM) | To limit particulate matter emissions | 0.013 gr/dscf ²¹ |
| HCl/Chlorine | To limit HCl/chlorine combined emissions | 32 ppmdv ²² |
| $\mathrm{SO_2}^{23}$ | To limit SO ₂ emissions | 30.01 tons per consecutive 12 month period |
| NO ₂ ²⁴ | To limit NO ₂ emissions | 22.22 tons per consecutive 12 month period |
| Mercury | To limit mercury emissions | $130 \mu g/dscm^{25}$ |
| Semi volatile metals ²⁶ | To limit Pb and Cd emissions | 230 μg/dscm |
| Low volatile metals ²⁷ | To limit As, Be and Cr
emissions | 92 μg/dscm |
| Dioxin and furans | To limit dioxin and furan emissions | 0.4 ηg TEQ/dscm ^{28 29} |
| Carbon monoxide ³⁰ | To ensure good combustion | 100 ppmdv |
| Total hydrocarbons | To limit organic emissions | 10 ppmdv |

V.D.2. The Permittees shall continuously operate, and maintain the hearth, afterburner, Quench (Gas Cooling)/Venturi Scrubber (SC-11), Caustic Packed Bed Scrubber (SC-12), Wet Electrostatic Precipitator (W-11), Induced Draft Fan, and Stack.

^{21 &}quot;gr/dscf" is grains per dry standard cubic foot of stack gas.22 "ppmdv" is parts per million on a dry volumetric basis in the stack gas.

²³ Based on the Tribal New Source Rule registration by Evoqua dated Aug 2012.

²⁴ Based on the Tribal New Source Rule registration by Evoqua dated Aug 2012.

²⁵ "µg/dscm" is micrograms per dry standard cubic meter of stack gas.

²⁶ Semi-volatile metals are lead and cadmium.

²⁷ Low volatile metals are arsenic, beryllium and chromium.

²⁸ "ngTEQ/dscm" is nanograms TEQ per dry standard cubic meter.

²⁹ TEQ means the international method of expressing toxicity equivalents for dioxins and furans as defined in U.S. EPA, Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-pdioxins and -dibenzofurans (CDDs and CDFs) and 1989 Update, March 1989.

³⁰ 100 ppm by volume on a dry gas basis using a one hour rolling average.

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- **V.D.3.** The Permittees shall perform any necessary operations and air pollution control equipment maintenance to minimize emissions so that emissions are at or below the emission limits specified in this Permit.
- **V.D.4.** The Permittees shall, to the extent practicable, maintain and operate equipment in a manner consistent with good air pollution control practice for minimizing emissions. [See 40 CFR § 61.12(c).]
- **V.D.5.** The Permittees shall maintain the APCE in accordance with the design plans and specifications contained in Permit Attachment Appendices VI and X.

V.E. FUGITIVE EMISSIONS CONTROLS

- **V.E.1.** The Permittees shall control fugitive emissions from the combustion zone in accordance with 40 CFR §§ 61.348(e), 63.1206(c)(5), and 264.345(d). [See 40 CFR §§ 61.348(e), 63.1206(c)(5), and 264.345(d).]
- **V.E.2.** The Permittees shall ensure that fugitive emissions from process units and ancillary components (tanks, furnace, APCEs, and piping) do not exceed 500 ppmv (parts per million by volume) of VOCs above background in accordance with the procedures spelled out in 40 CFR § 61.355(h). [See 40 CFR § 61.355(h), 63.1206(c)(5), and 40 CFR § 264.1082(c)(1).]

V.F. INSPECTION REQUIREMENTS

- V.F.1. The Permittees shall inspect RF-2 in accordance with the Inspection Schedule and Checklist, Permit Attachment Section F, Permit Attachment Appendix XII, and Permit Condition II.E.
- **V.F.2.** The Permittees shall thoroughly, visually inspect RF-2 at least daily, for leaks, spills, fugitive emissions, and signs of tampering. [See 40 CFR § 264.347(b).]
- **V.F.3.** The Permittees shall thoroughly, visually inspect the instrumentation for out-of-tolerance monitored and/or recorded operational data.

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V.F.4. Upon request of the Director, the Permittees shall perform sampling and analysis of the waste and exhaust emissions to verify that the operating requirements established in this Permit are being met.

V.G. RECORDKEEPING AND REPORTING

- **V.G.1.** The monitoring and inspection data required by this Module V must be recorded and the records must be placed in the operating record required by Permit Condition II.M.1.i. and maintained in the operating record for five years. [See 40 CFR §§ 63.10, 63.1211, and 264.347(d).]
- V.G.2. The Permittees shall record in the operating record for this Permit the date and time of all automatic waste feed shut-offs, including the triggering parameters, reason for the shut-off, and corrective actions taken. The Permitees shall also record all failures of the automatic waste feed shut-offs to function properly and corrective actions taken. [See 40 CFR §§ 63.10 and 63.1211.]
- **V.G.3.** The Permittees shall record in the operating record for this Permit the date and time of all shutdowns or malfunctions, the reason(s) for the shut-down or malfunction, and corrective actions taken. [See 40 CFR §§ 63.10 and 63.1211.]
- V.G.4. In addition to the excess emissions report(s) required by Permit Condition V.C.5.v.c., if, despite the requirement to comply with the SSMP, an action taken by the Permittees during a startup, shutdown, or malfunction (including an action taken to correct a malfunction) is not consistent with the procedures specified in the SSMP and there is an exceedance of any applicable emission limitation in the relevant emission standard, then the Permittees must record the actions taken for that event and must report such actions to the Director within 2 working days after commencing actions inconsistent with the plan, followed by a letter to the Director within 7 working days after the end of the event, in accordance with 40 CFR §63.10(d)(5). [See 40 CFR §§ 63.6(e)(3)(iv) and 63.10(d)(5).]
- **V.**G.5. The Permittees shall maintain in the operating record for the Facility required by Permit Condition II.M.1. the site specific CMS quality control performance

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evaluation test plan procedures in accordance with 40 CFR § 63.8(d). [See 40 CFR § 63.8(d).]

V.H. CLOSURE

- **V.H.1.** At closure the owner or operator must remove all hazardous waste and hazardous waste residues (including, but not limited to, ash, scrubber waters, and scrubber sludges) from RF-2. [See 40 CFR § 264.351.]
- V.H.2. The Permittees shall follow the procedures in Permit Attachment Section I and in the RCRA Facility Closure Plan for the Closure of RF-2 in Permit Attachment Appendices XV and XVII.
- V.H.3. The Permittees shall follow the procedures in Permit Attachment Section I and in the Closure Plan for the Closure of RF-1 in Permit Attachment Appendices XVI and XVII. The Permittees shall initiate closure of RF-1 in accordance with the Closure Schedule contained in the RF-1 Closure Plan contained in Permit Attachment Appendix XVI and the Compliance Schedule set forth in Permit Condition I.K. [See 40 CFR § 264.112(d).]
- V.H.4. The Permittees shall submit a post-closure plan with a schedule to EPA for approval if, after implementation of either the Closure Plan for Closure of RF-1 or the Closure Plan for Closure of RF-2, soil contamination is present and the Permittees are unable to adequately remediate that contamination. Upon approval by EPA, the Permittees shall implement the Post-Closure Plan as approved.

V.I. ADDITIONAL INVESTIGATIONS

Upon request by the Director, sampling and analysis of the waste, soil and/or groundwater at or around the Facility, and exhaust emissions must be conducted to verify that the operating requirements established in this Permit achieve the performance standards set forth in this Permit. A report shall be submitted to the Director for approval in accordance with Permit Condition I.G.5. within the time frame specified in the Director's request. [See, e.g., 40 CFR § 264.347(a)(3).]

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MODULE VI CORRECTIVE ACTION

VI.A. Standard Conditions

- VI.A.1. The Permittees must take corrective action as necessary to protect human health and the environment from all releases of hazardous waste and/or constituents from any Hazardous Waste Management Unit (HWMU), Solid Waste Management Unit (SWMU) and/or Area of Concern (AOC) at the Facility, regardless of the time at which waste was placed in such unit or area, in accordance with §3004(u) of RCRA, 42 USC Section 6924(u), 40 CFR §§ 264.90(a) and 264.101. [See RCRA Section 3004(u) and 40 CFR §§ 264.90(a) and 264.101. See also Permit Attachment Section J and the Final RCRA Facility Assessment (RFA), incorporated herein as Permit Attachment RFA. To the extent that there are any discrepancies between Section J and the RFA, the language in the RFA shall control.]
- VI.A.2. The Permittees must take corrective action beyond the facility property boundary where necessary to protect human health and the environment, in accordance with \$3004(v) of RCRA, 42 USC Section 6924(v), and 40 CFR \$264.101. [See 40 CFR \$264.101.]
- **VI.A.3.** Any noncompliance with approved plans, schedules or reports required in accordance with this Permit shall be deemed noncompliance with this Permit.
- **VI.A.4.** If the Director determines that further corrective action beyond the requirements of this Permit is warranted, then the Director may modify this Permit according to the permit modification processes under 40 CFR § 270.41. [See 40 CFR §§ 264.100(e)(2) and 270.41. See also Permit Condition I.B.1.]
- **VI.A.5.** All raw data and reports, including inspection reports, laboratory reports, drilling logs, geological and hydrogeological investigations, bench-scale or pilot-scale data, laboratory data and other supporting information gathered or generated during activities undertaken pursuant to this Permit, including any reissued permits, shall be provided at the request of the Director.
- **VI.A.6.** Failure to timely submit the information required in this Permit, or falsification of any submitted information, is grounds for termination of this permit in accordance with 40 CFR §270.43.

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- **VI.A.7.** All work performed pursuant to this Corrective Action Module shall be under the direction and supervision of qualified personnel. At least forty-five (45) days prior to initiating any work pursuant to this Module, the Permittees shall notify the Director in writing of the following:
 - **VI.A.7.a.** The names, titles, and qualifications of the personnel, including contractors, subcontractors, consultants and laboratories, to be used in carrying out such work; and
 - **VI.A.7.b.** The name, address, phone number, electronic mail address and qualifications of the Corrective Action Project Coordinator.
 - VI.A.7.b.i. The Permittees have the right to change their Corrective Action Project Coordinator. Notification of a change in the Permittees' Corrective Action Project Coordinator must be provided to EPA in writing at least ten (10) days prior to the change.
 - VI.A.7.b.ii. EPA may disapprove of Permittees' Corrective Action Project
 Coordinator (original or replacement) at any time based upon the person's
 qualifications and ability to effectively perform the role. The qualifications
 of the Permittees' Corrective Action Project Coordinator (original or
 replacement) shall be subject to EPA's review, for verification that such
 person meets minimum technical background and experience
 requirements. All persons under the direction and supervision of the
 Permittees' Corrective Action Project Coordinator must possess all
 necessary professional licenses required by federal law and any applicable
 state or tribal law. EPA's disapproval of the Permittees' Corrective
 Action Project Coordinator is subject to review in accordance with the
 Informal Dispute Resolution provisions set forth in Permit Condition I.L.
 - **VI.A.7.c.** In those circumstances where Permittees must take action in less than the forty-five (45) day period referenced in Permit Condition VI.A.7., the information required by Permit Conditions VI.A.7.a. and VI.A.7.b. must be provided to EPA as soon as practicable. (See, *e.g.*, Permit Condition VI.E.1.)

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- VI.A.8. Any activities performed pursuant to this Corrective Action Module shall be conducted in compliance with this Permit, and are subject to EPA approval as set forth herein. The Permittees should perform Corrective Action consistent with good scientific principles. For example, the Permittees should consider taking into account appropriate EPA guidance including, but not limited to, the following:
 - "RCRA Corrective Action Plan" (OSWER Directive 9902.3-2A, May 1994);
 - "Handbook of Groundwater Protection and Cleanup Policies for RCRA Corrective Action" (EPA, EPA530-R-04-030, April 2004);
 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (EPA, SW-846), available at http://www.epa.gov/epawaste/hazard/testmethods/sw846/online/index.htm;
 - Advance Notice of Proposed Rulemaking, "Corrective Action for Releases from Solid Waste Management Units at Hazardous Waste management Facilities" (EPA, 61 FR 19432 dated May 1, 1996), available at http://www.epa.gov/docs/fedrgstr/EPA-WAST/1996/May/Day-01/pr-547.pdf;
 - "RCRA Public Participation Manual" (EPA, EPA/530/R-96/007, 1996), available at http://www.epa.gov/epawaste/hazard/tsd/permit/pubpart/manual.htm;
 - "A Systematic Approach for Evaluation of Capture Zones at Pump and Treat Systems, Final Project Report" (EPA, EPA/600/R-08/003, January 2008), available at http://www.epa.gov/ada/pbs/reports/600R08003.html; and
 - "RCRA Groundwater Monitoring Technical Enforcement Guidance Document" (OSWER Directive 9950.1, September 1986).

VI.B. Reporting Requirements

- **VI.B.1.** When requested by the Director, the Permittees shall submit to the Director for approval in accordance with Permit Condition I.G.5. signed and certified corrective action progress reports on a semi-annual basis in accordance with the deadlines specified in the Director's request. Such corrective action progress reports shall contain:
 - **VI.B.1.a.** A discussion and summary of all corrective action-related activities undertaken during the time period;
 - **VI.B.1.b.** Summaries of all problems or potential problems encountered during the reporting period and actions taken to rectify these problems;

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- **VI.B.1.c.** Summaries of all findings made during the time period including summaries of laboratory data; and
- **VI.B.1.d.** Projected work for the next reporting period.
- **VI.B.2.** The Permittees shall maintain copies of other corrective action reports (e.g. inspection reports); geological and hydrogeological investigations; records of groundwater monitoring wells, including boring logs, and associated groundwater surface elevations; and all laboratory data, including raw data, for the active life of the Facility, and shall make them available to the Director upon request.
- **VI.B.3.** The Director may require the Permittees to conduct new or more extensive assessments, investigations, or studies, as needed, based on information provided in these progress reports or other supporting information.
- **VI.C.** Results of the RCRA Facility Assessment (RFA)
 - **VI.C.1.** The results and recommendations of the RCRA Facility Assessment can be found in the Final Permit Attachment RFA dated September 2016.
 - **VI.C.2.** The HWMUs, SWMUs, and AOCs are identified in Tables VI-1, VI-2, and VI-3.
- **VI.D.** Newly-Identified, Newly-Discovered, or Newly-Created AOCs, SWMUs and/or HWMUs
 - VI.D.1.a. The Permittees shall notify the Director in writing of any newly-identified, newly-discovered, or newly created AOC(s), SWMU(s) and/or HWMU(s). This initial notice shall be provided no later than fifteen (15) calendar days after discovery of the newly-identified, newly-discovered, or newly-created AOC, SWMU and/or HWMU.
 - VI.D.1.b. No later than 60 days after identifying, discovering or creating any new AOC(s), SWMU(s), and/or HWMU(s), the Permittees shall initiate a permit modification in accordance with Permit Condition I.G.7. and 40 CFR § 270.42 to update Tables VI-1, VI-2, and/or VI-3 and Permit Attachment Section J, as appropriate, to add the new AOC(s), SWMU(s), and/or HWMU(s) to the table(s).

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- VI.D.2. Within ninety (90) days after the after identifying, discovering or creating any new AOC(s), SWMU(s), and/or HWMU(s), the Permittees shall submit an Assessment Report for any newly-identified, newly-discovered or newly created AOC, SWMU and/or HWMU to the Director for approval in accordance with Permit Condition I.G.5. At a minimum, the Report shall provide the following information for each newly-identified, newly-discovered, or newly-created AOC, SWMU and/or HWMU:
- **VI.D.2.a.** The location of each such AOC, SWMU and/or HWMU in relation to other AOCs, SWMUs, HWMUs, building numbers, or other descriptive landmarks;
- **VI.D.2.b.** The type and function of the AOC, SWMU and/or HWMU;
- **VI.D.2.c.** The general dimensions, capacities, and structural description of the AOC, SWMU and/or HWMU (supply all available drawings);
- **VI.D.2.d.** The period during which the AOC, SWMU and/or HWMU was operated;
- **VI.D.2.e.** Waste characterization information for all wastes that have been or are being managed at the AOC, SWMU and/or HWMU;
- VI.D.2.f. A description of any release (or suspected release) of hazardous waste and/or constituents originating from the AOC, SWMU, and/or HWMU including planned or unplanned releases to the air and any other media. Include information on the date of release, type of hazardous waste and/or constituents, quantity released, nature of the release, extent of release migration, and cause of release (e.g., overflow, broken pipe, tank leak). Also provide any available data which characterizes the nature and extent of environmental contamination, including the results of air, soil and/or groundwater sampling and analysis efforts. Also submit any existing monitoring information that shows that a release of hazardous waste and/or constituents has not occurred or is not occurring; and
- **VI.D.2.g.** Whether or not any further Permit Modification(s) to incorporate additional information about the newly-discovered AOC, SWMU and/or HWMU(s) into the Permit is appropriate. The Permittees shall submit a Permit Modification request in accordance with Permit Condition I.G.8. if the approved Assessment Report determines that such modification is warranted.

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VI.D.3. Based on the results of the approved Assessment Report, the Director will determine whether there is a need for further investigations at specific unit(s) or areas covered in the Assessment Report. If the Director determines that such investigations are needed, the Director will require the Permittees to prepare a RCRA Facility Investigation (RFI) Work Plan in accordance with Permit Condition VI.F.

VI.E. <u>Newly-Discovered Releases</u>

- VI.E.1. The Permittees shall notify the Director, in writing, of any newly-discovered spills or releases of hazardous waste. This notification shall be submitted in two parts as set forth in Permit Conditions VI.E.1.a. and VI.E.1.b. Releases that are less than or equal to a quantity of one (1) pound and immediately contained and cleaned up are not subject to this Permit Condition VI.E.1. The Permittees shall investigate and, if necessary, remediate the discovered spill(s) or release(s). Such spills or releases may be from newly-identified or newly-created AOCs, SWMUs and/or HWMUs, from AOCs, SWMUs and/or HWMUs at which the Director had previously determined that no further investigation was necessary, or from AOCs, SWMUs and/or HWMUs investigated as part of this Permit or otherwise identified in Tables VI-1, VI-2, or VI-3.
 - **VI.E.1.a.** First, within fifteen (15) calendar days of discovery of the release, the Permittees shall submit in writing an initial notification of the discovery. This notification shall alert the Director to the magnitude of the threat to human health and/or the environment.
 - **VI.E.1.b.** Second, within sixty (60) days of discovery of the release, the Permittees must submit a written report. The report shall discuss the Permittees' efforts to investigate and/or remediate the discovered release and shall specifically include:
 - the concentrations and estimated quantities of any hazardous waste and/or constituents released;
 - the known, or expected, pathway(s) through which the contamination is migrating (or may migrate), and the extent, rate, and direction of that migration;
 - the projected fate and transport of the release;

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- the likely exposure pathway(s) for potential receptors, and the consequences of exposure to these receptors; and
- an outline of proposed Interim Corrective Measures to control the release, as well as a schedule for implementing the Interim Corrective Measures.
 The schedule must be justified by a discussion of possible consequences arising from any delay in implementing Interim Corrective Measures.
- VI.E.2. Within sixty (60) days of discovery of a spill or release, the Permittees shall initiate a permit modification in accordance with Permit Condition I.G.7. and 40 CFR § 270.42 to update Tables VI-1, VI-2 and/or VI-3 and Permit Attachment Section J, as appropriate, to add the spill or release to the table(s). The Permittees shall include the hazardous waste constituents that were released and the actions taken to clean up or mitigate the spill or release in the revised Permit Attachment Section J.
- VI.E.3. Within ninety (90) days of discovery of a release, the Permittees shall submit to the Director for approval in accordance with Permit Condition I.G.5. a Report describing the Interim Corrective Measures activities taken to date and whether or not additional investigation or implementation of corrective measures are warranted. This Report shall include the reporting requirements specified in Permit Condition VI.B. If the approved Interim Corrective Measures Report concludes that additional investigation or corrective measures are required, the Permittees shall submit a request for a permit modification to investigate and perform additional Interim Corrective Measures in accordance with Permit Condition I.G.8.
- **VI.E.4.** If the approved Interim Corrective Measures Report concludes that there is a need for further investigations or implementation of corrective measures, the Director will require the Permittees to prepare a RCRA Facility Investigation (RFI) Work Plan in accordance with Permit Condition VI.F.

VI.F. RCRA Facility Investigation (RFI) Work Plan

VI.F.1. If, under Permit Conditions VI.D.3. or VI.E.4., the Director determines that an RFI is necessary for any newly-discovered or newly-created AOC, SWMU or HWMU or for a newly discovered release, or to further investigate an existing AOC, SWMU, or HWMU, the Permittees shall submit an RFI Work Plan, within the time period specified by the Director, to the Director for approval in accordance with Permit Condition I.G.5.

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- VI.F.2. The RFI Work Plan must identify the AOCs, SWMUs, and/or HWMUs, releases of hazardous waste and/or constituents, and media of concern which require corrective action. The RFI Work Plan shall describe the objectives of the investigation and the overall technical and analytical approach to completing all actions necessary to characterize the nature, direction, rate, movement, and concentration of releases of hazardous waste and/or constituents from specific AOCs, SWMUs, HWMUs or groups of AOCs, SWMUs, or HWMUs and their actual or potential receptors. The RFI Work Plan shall detail all proposed activities and procedures to be conducted at the area and/or unit, the schedule for implementing and completing such investigations, an outline of the RFI Report required in Permit Condition VI.G.1., and the overall management of the RFI. The RFI Work Plan should be consistent with good scientific principles. For example, the Permittees should consider taking into account screening levels consistent with the EPA's health and ecological based guidance effective at the time of implementation, and EPA's current corrective action guidance, including RCRA Facility Investigation (RFI) Guidance, OSWER Directive 9502.00-6C, dated May 1989.
- **VI.F.3.** The RFI Work Plan shall discuss sampling and data collection quality assurance and data management procedures, including formats for documenting and tracking data and other results of investigations, and health and safety procedures for conducting the field work.
- **VI.F.4.** The Director may review for approval as part of the RFI Work Plan any plans, reports or other material developed pursuant to Permit Conditions VI.D. and/or VI.E.

VI.G. RCRA Facility Investigation (RFI) Final Report

- VI.G.1. The Permittees shall develop and submit an RFI Final Report if the Director determines that an RFI is necessary as described in VI.F.1. The Permittees should conduct the RCRA Facility Investigation and prepare the RFI Final Report consistent with good scientific principles. For example, the Permittees should consider taking into account appropriate EPA guidance including, but not limited to, EPA's RCRA Facility Investigation Guidance, OSWER Directive 9502.00-6C, dated May 1989.
- **VI.G.2.** Within the time period specified in the schedule included in the approved RFI Work Plan, the Permittees shall submit an RFI Final Report to the Director for approval in accordance with Permit Condition I.G.5.

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- . **VI.G.3.** The RFI Final Report shall describe the procedures, methods, and results of all facility investigations of AOCs, SWMUs and/or HWMUs and their releases, including information on the type and extent of contamination at the Facility, sources and migration pathways, and actual or potential receptors. The RFI Final Report shall present all information necessary to support further corrective action decisions at the area(s) and/or unit(s).
 - **VI.G.4.** The RFI Final Report shall also include the Permittees' recommendations, if any, regarding any appropriate modifications to the conditions of this Permit, based on the results of the RFI in accordance with Permit Condition I.G.8, and 40 CFR Part 270.
- VI.H. Interim Corrective Measures Implementation at the Direction of EPA
 - VI.H.1.If, at any time, the Director determines that a release or potential release of hazardous waste and/or constituents at the Facility poses or may present a threat to human health or the environment, the Director will notify the Permittees that they must submit to the Director, for approval in accordance with Permit Condition I.G.5., an Interim Corrective Measures Work Plan, for conducting Interim Corrective Measures designed to minimize the threat to human health and the environment. The Director will provide direction to the Permittees regarding the appropriate time frame for submittal of such Interim Corrective Measures Work Plan. Implementation by the Permittees of treatment or containment activities during "immediate response," as defined in 40 CFR § 264.1(g)(2), to a discharge of hazardous waste and/or constituents, or an imminent and substantial threat of a discharge of hazardous waste and/or constituents, or a discharge of material which, when discharged, becomes a hazardous waste, is not subject to this Permit. Actions taken to address the discharge after the immediate response is completed are subject to this Permit.
 - **VI.H.1.a.** The Interim Corrective Measures Work Plan shall include a schedule for implementation of Interim Corrective Measures and the submittal of an Interim Corrective Measures Report.
 - **VI.H.2.** Except as set forth in Permit Condition VI.H.5, the Director's decision to require the submittal of an Interim Corrective Measures Work Plan is subject to the dispute resolution procedures set forth in Permit Condition I.L. The following factors may be considered by the Director in determining the need for additional Interim Corrective Measures:

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- VI.H.2.a. Time required to develop and implement a final remedy;
- VI.H.2.b. Actual and potential exposure of human and environmental receptors;
- **VI.H.2.c.** Actual and potential contamination of drinking water supplies and sensitive ecosystems;
- **VI.H.2.d.** Potential for further degradation of the medium absent the additional Interim Corrective Measures;
- **VI.H.2.e.** Presence of hazardous waste in containers or tanks that may pose a threat of release;
- **VI.H.2.f.** Presence and concentration of hazardous waste and/or constituents in soils, ground water, surface water, or air;
- **VI.H.2.g.** Weather conditions that may affect the current levels of contamination or potential for exposure;
- VI.H.2.h. Risks of fire, explosion, or accident; and
- **VI.H.2.i.** Other situations that may pose a threat to human health or the environment.
- **VI.H.3.** Upon the Director's approval of the Interim Corrective Measures Work Plan, the Permittees shall implement the Interim Corrective Measures according to the approved schedule.
- VI.H.4. Within the time period set forth in the schedule in the approved Interim Corrective Measures Work Plan, the Permittees shall submit to the Director for approval in accordance with Permit Condition I.G.5. a Report describing the Interim Corrective Measures activities taken to date and whether or not additional investigation or implementation of corrective measures are warranted. This Report shall include the reporting requirements specified in Permit Condition VI.B. If the approved Interim Corrective Measures Report concludes that additional investigation or corrective measures are required, and/or that there is a need for further investigations or implementation of corrective measures, the Director will require the Permittees to prepare a RCRA Facility Investigation (RFI) Work Plan in accordance with Permit Condition VI.F.

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VI.H.5. If, at any time, the Director determines that a release or potential release of hazardous waste and/or constituents at the Facility poses or may present an imminent or emergency threat to human health or the environment, the Director will notify the Permittees that they must conduct Emergency Interim Corrective Measures as instructed by the Director. Such Emergency Interim Corrective Measures shall be limited to that necessary to address or resolve the urgency associated with and/or emergency nature of any such threat to human health or the environment. The Director's decision to require such Emergency Interim Corrective Measures may be subject to the informal dispute resolution procedures of Permit Condition I.L., but the Permittees shall implement such Emergency Interim Corrective Measures, as instructed by the Director, simultaneously during any such invocation of informal dispute resolution under this Permit.

VI.I. Corrective Measures Study

- VI.I.1. If the Director has reason to believe that an AOC, SWMU and/or HWMU has released concentrations of hazardous constituents in excess of the EPA's current health- and ecological-based levels, or if the Director determines that contaminants present at levels below the EPA's current health-based levels pose a threat to human health or the environment given site-specific exposure conditions, the Director may require a Corrective Measures Study (CMS) and, if so, will notify the Permittees in writing. This notice will identify the hazardous constituents(s) which have exceeded action levels as well as those which have been determined to present a potential threat to human health or the environment given site-specific exposure conditions.
- VI.I.2. No later than sixty (60) calendar days after the Permittees have received notification from the Director, under Permit Condition VI.I.1., of the need for a CMS, the Permittees shall submit to the Director for approval in accordance with Permit Condition I.G.5., a Work Plan, with a schedule, for conducting a CMS. Upon the Director's approval of the CMS Work Plan, the Permittees shall implement the CMS according to the approved schedule. The CMS should be consistent with the EPA's guidance.
- **VI.I.3.** The Permittees shall submit a CMS Final Report to the Director for approval in accordance with Permit Condition I.G.5. and according to the schedule approved by the Director pursuant to Permit Condition VI.I.2. The CMS Final Report shall summarize the results of the investigations for each remedy, and of any bench-scale

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or pilot tests conducted. The CMS Final Report must include an evaluation of each remedial alternative, and a proposal for corrective measures implementation. The CMS Final Report shall contain adequate information to support the Director in the remedy selection decision-making process, described in Permit Condition VI.J.

VI.J. Remedy Selection

If, based on the results contained in the RFI Final Report, CMS Final Report, or any further evaluations of additional remedies, the Director determines that it is appropriate to select a corrective action remedy for the facility, the Director will propose to select a remedy that will: (1) be protective of human health and the environment; (2) meet the concentration levels of hazardous constituents in each medium that the remedy must achieve to be protective of human health and the environment; (3) control the source(s) of release(s) so as to reduce or eliminate, to the maximum extent practicable, further releases that might pose a threat or potential threat to human health and the environment; and (4) meet all applicable waste management requirements.

VI.K. Permit Modification

Based on information the Permittees submit in the RFI Final Report, the CMS Final Report, or other information, the Permittees or the Director may initiate a modification to this Permit for selection and implementation of the remedy, pursuant to 40 CFR §§ 270.41 or 270.42, and/or to create or make changes to a Corrective Action Schedule of Compliance for this Permit. Any modification relating to selection and implementation of a remedy may include conditions that require submittal by the Permittees of corrective measures design, implementation, and monitoring plans.

VI.L. No Further Action

VI.L.1. Based on the results of any investigation, study, assessment, interim measure and/or corrective action and any other relevant information, the Permittees may submit an application to the Director for a permit modification in accordance with 40 CFR § 270.42(c) to terminate all or a portion of a Corrective Action Schedule of Compliance. This permit modification application must contain information demonstrating that there are no releases of hazardous wastes or hazardous constituents from HWMU(s), SWMU(s) and/or AOC(s) at the Facility that pose a threat to human health or the environment, as well as information required in 40 CFR § 270.42(c), which incorporates by reference 40 CFR §\$270.13 through 270.22,

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270.62, and 270.63. Relevant information to be included in the application shall include, at a minimum:

- Depth of Released Contamination into Soil.
- Impact on Groundwater or Surface Water
- Constituents Sampled
- Data Quality Objectives
- Sampling Method
- Laboratory Results of Analysis
- Data Quality
- Results of Cleanup Verification Sampling
- VI.L.2. If, based on review of the Permittees' request for a permit modification, any investigation, study, assessment, interim measure and/or corrective action and any other relevant information, including comments received during any relevant public comment period, the Director determines that releases or suspected releases which were investigated are either non-existent or do not pose a threat to either human health or the environment, the Director will grant the requested modification.
- VI.L.3. A determination of no further action shall not preclude the Director from requiring further investigations, studies, or remediation at a later date, if new information or subsequent analysis indicates a release or likelihood of a release from a HWMU, SWMU and/or AOC or that the Facility is likely to pose a threat to human health or the environment. In such a case, the Director will initiate a modification according to the procedures set forth in 40 CFR § 270.41, to rescind the determination made in accordance with this Permit Condition VI.L.

VI.M. Corrective Action Beyond the Facility Boundary

If the Director determines that further actions beyond those provided in a Corrective Action Schedule of Compliance, or changes to that which is stated herein, are warranted, the Director will create or modify such Schedule of Compliance and/or other Permit Condition(s) in

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accordance with the permit modification processes set forth in 40 CFR § 270.41. [See 40 CFR § 270.41.]

VI.N. Financial Assurance for Corrective Action

- VI.N.1. A proposal for establishing a financial assurance mechanism for either performance of any of the work described in a Corrective Action Schedule of Compliance or implementation of any other remedy in accordance with this Permit, including construction of such corrective action or remedy, shall be submitted to the Director for approval in accordance with Permit Condition I.G.5., simultaneously with the request for a permit modification required under Permit Condition VI.K. The proposal shall contain, at a minimum:
 - A cost estimate for construction, operation, maintenance, and monitoring of the selected corrective action or remedy for a period of 20 years including assumptions used to make the cost estimate;
 - A description of the financial assurance mechanism that will be used; and
 - A schedule for establishing the mechanism.
- VI.N.3. The mechanism by which financial assurance is secured -- for either performance of any of the work described in a Corrective Action Schedule of Compliance or implementation of any other remedy in accordance with this Permit -- may include surety bonds, insurance policies (issued by an independent commercial insurer), letters of credit, or any other mechanism acceptable to the Director as described in any permit modification undertaken in accordance with Permit Condition VI.K. The mechanism shall be established to allow the U.S. Environmental Protection Agency to direct the funds to ensure construction, operation, maintenance and/or monitoring occur as required by this Permit.

VI.O. Quality Assurance and Quality Control

VI.O.1. As part of any work plan(s) required by this Module, the Permittees shall include a Quality Assurance Project Plan ("QAPP"), for the Director's review and approval in accordance with Permit Condition I.G.5. The QAPP shall address quality assurance, quality control, and chain of custody procedures for any sampling, monitoring and analytical activities. The Permittees shall follow "EPA Requirements for Quality

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Assurance Project Plans (QA/R-5)" (EPA/240/B-01/003, March 2001 (Reissued May 2006)), "Guidance for Quality Assurance Project Plans (QA/G-5)" (EPA/240/R-02/009, December 2002), and "EPA Requirements for Quality Management Plans (QA/R-2)" (EPA/240/b-01/002, March 2001) as well as other applicable documents identified by the Director.

- **VI.O.2.** As part of any work plan(s), the Permittees shall include Data Quality Objectives for any data collection activity to ensure that data of known and appropriate quality are obtained and that data are sufficient to support their intended use as required by this Module.
- VI.O.3. The Permittees shall ensure that laboratories used by the Permittees for analysis perform such analysis according to the latest approved edition of "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (also known as SW-846) or other methods approved by EPA. If methods other than EPA methods are to be used, the Permittees shall specify all such protocols in the appropriate work plan(s). In accordance with the procedures set forth in Permit Condition I.G.5., the Director may reject any data that does not meet the requirements of the approved work plan(s) and EPA analytical methods and may require resampling and additional analysis.
- VI.O.4. The Permittees shall ensure that all laboratories employed for analyses participate in a quality assurance/quality control ("QA/QC") program equivalent to the program that EPA follows. The Permittees shall, on the Director's request, make arrangements for EPA to conduct a performance and QA/QC audit of the laboratories chosen by the Permittees, whether before, during, or after sample analyses. Upon the Director's request, the Permittees shall have the laboratories perform analyses of samples provided by EPA to demonstrate laboratory QA/QC and performance. If the audit reveals deficiencies in a laboratory's performance or QA/QC, the Permittees shall submit a plan to address the deficiencies and the Director may require resampling and additional analysis. Requests by the Director in accordance with this Permit Condition VI.O.4. are subject to the informal dispute resolution provisions of Permit Condition I.L.
- **VI.O.5.** The Director may require the Permittees to change laboratories for reasons including, but not limited to: QA/QC, performance, conflict of interest, or confidential agency audit information. In the event the Director requires a laboratory change, the Permittees shall propose two alternative laboratories within thirty (30)

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calendar days. Once the Director approves of the laboratory change, the Permittees shall ensure that laboratory service shall be made available within fifteen (15) calendar days. The Director's requirement(s) and approval(s) pursuant to this Permit Condition VI.O.5. are subject to the informal dispute resolution provisions of Permit Condition I.L.

| No. | HWMU
Type/Designation | Location | General Dimensions and Structural Description | Date
Unit was
First
Operated | Identification of
Wastes Managed
in Unit | Releases
from
Unit |
|-----|---|---------------|--|---|---|--------------------------|
| 1 | Spent carbon reactivation furnace - RF-1 and Associated Equipment (Dewater screw) | South of RF-2 | Furnace shell – carbon steel; internal firebrick lining and block insulation; hearths and furnace roof constructed with firebrick; furnace roof is comprised of firebrick backed with block insulation and castable insulation; bottom hearth is insulated with block insulation and castable insulation and castable insulation | August
1992; Shut
down in
1996 | Spent activated carbon. See Part B Application for list of applicable waste codes | None |

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| No. | HWMU
Type/Designation | Location | General Dimensions and Structural Description | Date Unit was First Operated | Identification of
Wastes Managed
in Unit | Releases
from
Unit |
|-----|---|-------------------|--|------------------------------|---|--------------------------|
| 2 | Spent carbon reactivation furnace RF-2 and Associated Equipment (Dewater Screw, Weigh Belt) | East of warehouse | Furnace shell – carbon steel; internally lined with firebrick and block insulation; hearths and furnace roof constructed with firebrick; furnace roof is comprised of firebrick backed with block insulation and castable insulation; bottom hearth is insulated with block insulation and castable insulation; Continuously seal welded internally to assure an airtight assembly. Dewatering screw length 17 ft; diameter 8 in. | July 1996
to present | Spent activated carbon. See Part B Application for list of applicable waste codes | None |

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| No. | HWMU Type/Designation | Location | General Dimensions and Structural Description | Date Unit was First Operated | Identification of
Wastes Managed
in Unit | Releases
from
Unit | | |
|-----|--|----------------|---|------------------------------|---|--------------------------|--|--|
| 3 | 3 RF–1 Air pollution control equipment | | | | | | | |
| | Afterburner | RF-1 structure | Refractory lined steel | 1992 to
1996 | Spent activated carbon. See Part B Application for list of applicable waste codes | None | | |
| | Venturi scrubber | RF-1 structure | Hastelloy C | 1992 to
1996 | Spent activated carbon. See Part B Application for list of applicable waste codes | None | | |
| | Packed bed scrubber | RF-1 structure | Fiberglass | 1992 to
1996 | Spent activated carbon. See Part B Application for list of applicable waste codes | None | | |
| | Emissions stack | RF-1 structure | Mild steel | 1992 to
1996 | Spent activated carbon. See Part B Application for list of applicable waste codes | None | | |
| 4 | RF–2 Air pollution control eq | uipment | 1 | | I | | | |

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| No. | HWMU
Type/Designation | Location | General Dimensions and Structural Description | Date Unit was First Operated | Identification of
Wastes Managed
in Unit | Releases
from
Unit |
|-----|--------------------------------|----------------|---|------------------------------|---|--------------------------|
| | Afterburner | RF-2 structure | Refractory lined steel cylinder chamber | 1996 to present | Spent activated carbon. See Part B Application for list of applicable waste codes | None |
| | Venturi scrubber | RF-2 structure | Hastelloy C | 1996 to present | Spent activated carbon. See Part B Application for list of applicable waste codes | None |
| | Packed bed scrubber | RF-2 structure | Fiberglass | 1996 to present | Spent activated carbon. See Part B Application for list of applicable waste codes | None |
| | Wet electrostatic precipitator | RF-2 structure | Fiberglass/AL6XN | 1996 to present | Spent activated carbon. See Part B Application for list of applicable waste codes | None |
| | Induced draft fan | RF-2 structure | 300-series SS | 1996 to present | Spent activated carbon. See Part B Application for list of applicable waste codes | None |

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| No. | HWMU
Type/Designation | Location | General Dimensions and Structural Description | Date
Unit was
First
Operated | Identification of
Wastes Managed
in Unit | Releases
from
Unit |
|-----|--|--------------------------------------|---|---------------------------------------|---|--------------------------|
| | Emissions stack | RF-2 structure | Fiberglass
surrounded by a
mild steel shell | 1996 to present | Spent activated carbon. See Part B Application for list of applicable waste codes | None |
| 5 | Spent carbon unloading hopper H-1 | North end of facility on containment | 5000 lb capacity;
mild steel | 1996 to present | Spent activated carbon. See Part B Application for list of applicable waste codes | None |
| 6 | Spent carbon unloading hopper H-2 | Inside warehouse facing east wall | 500 lb capacity;
mild steel | August
1992 to
present | Spent activated carbon. See Part B Application for list of applicable waste codes | None |
| 7 | Hopper air pollution control equipment piping and baghouse | North end of facility on containment | Ducting,
baghouse and fan
are mild steel | 1992 to present | Spent activated carbon. See Part B Application for list of applicable waste codes | None |
| 8 | Spent carbon slurry and recycle water transfer system | Inside warehouse on containment | 4" pipes hopper
to tank; 3" pipes
T-tank to furnace
feed tank; 300-
series SS | 1992 to
present | Spent activated carbon. See Part B Application for list of applicable waste codes | None |

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| No. | HWMU
Type/Designation | Location | General Dimensions and Structural Description | Date
Unit was
First
Operated | Identification of
Wastes Managed
in Unit | Releases
from
Unit |
|-----|---------------------------------------|--------------------------------------|---|--|---|--------------------------|
| 9 | Spent carbon storage warehouse | Inside warehouse | 80 ft by 80 ft
concrete/ metal | 1992 to present | Spent activated carbon. See Part B Application for list of applicable waste codes | None |
| 10 | Spent carbon slurry storage tank, T–1 | East of warehouse within containment | 8319 gal design capacity | Used tank
(1956);
1992 to
present | Spent activated carbon. See Part B Application for list of applicable waste codes | None |
| 11 | Spent carbon slurry storage tank, T–2 | East of warehouse within containment | 8319 gal design capacity | Used tank
(1956);
1992 to
present | Spent activated carbon. See Part B Application for list of applicable waste codes | None |
| 12 | Spent carbon slurry storage tank, T–5 | East of warehouse within containment | 8319 gal design capacity | Used tank
(1956);
1992 to
present | Spent activated carbon. See Part B Application for list of applicable waste codes | None |
| 13 | Spent carbon slurry storage tank, T–6 | East of warehouse within containment | 8319 gal design capacity | Used tank
(1956);
1992 to
present | Spent activated carbon. See Part B Application for list of applicable waste codes | None |

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| No. | HWMU
Type/Designation | Location | General Dimensions and Structural Description | Date
Unit was
First
Operated | Identification of
Wastes Managed
in Unit | Releases
from
Unit |
|-----|--|--|---|---------------------------------------|---|--------------------------|
| 14 | Furnace Feed System Tank
T-8 and Ancillary
Equipment | RF-1 Structure | 905 gal 300
series SS | August
1992 to
1996 | Spent activated carbon. See Part B Application for list of applicable waste codes | None |
| 15 | T-18 and Ancillary
Equipment | RF-2 structure | 6500 gal 300-
series SS | July 1996
to present | Spent activated carbon. See Part B Application for list of applicable waste codes | None |
| 16 | Wastewater conveyance piping to wastewater treatment tank | East of RF-2
structure | 3" PVC piping | August
1992 | Spent activated carbon. See Part B Application for list of applicable waste codes | None |
| 17 | Spent carbon storage warehouse barrel washer | Next to H-2 in warehouse | 2 ft by 3 ft
300 series
stainless steel | 1992 to present | Spent activated carbon. See Part B Application for list of applicable waste codes | None |
| 18 | Carbon adsorber - PV1000 | North of
Containment Pad
for Storage Tanks | 1000 lb carbon capacity; mild steel. | August
1992 | Spent activated carbon. See Part B Application for list of applicable waste codes | None |

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| No. | HWMU
Type/Designation | Location | General Dimensions and Structural Description | Date Unit was First Operated | Identification of
Wastes Managed
in Unit | Releases
from
Unit |
|-----|---|--|---|------------------------------|---|---|
| 19 | Carbon adsorber WS-1 | Beside spent
carbon storage
tank | 2 x 2000 lb
carbon capacity.
Mild steel | 1992 to
present | Spent activated carbon. See Part B Application for list of applicable waste codes | None |
| 20 | Carbon adsorber WS-2 | Beside H-1 | 5000 lb carbon
capacity
Fiberglass | 1992 to present | Spent activated carbon. See Part B Application for list of applicable waste codes | None |
| 21 | Carbon adsorber WS-3 | Beside RF-2 | 1000 lb carbon
capacity Mild
steel | 1996 to present | Spent activated carbon. See Part B Application for list of applicable waste codes | See Section J.2 of the Part B Application |
| 22 | Slurry transfer inclined plate settler tank | Adjacent to the venturi scrubber | Mild steel | 1992 to
1994 | Spent activated carbon. See Part B Application for list of applicable waste codes | See Section J.2 of the Part B Application |
| 23 | Scrubber recycle tank T-17 | Beside RF-1 | Mild steel | 1992 to
1996 | Spent activated carbon. See Part B Application for list of applicable waste codes | None |

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| No. | HWMU
Type/Designation | Location | General Dimensions and Structural Description | Date Unit was First Operated | Identification of
Wastes Managed
in Unit | Releases
from
Unit |
|-----|---|--|---|------------------------------|---|--------------------------|
| 24 | Filter press | Next to scrubber
system for
RF-1 | Mild steel with polypropylene plates | 1992 to
1994 | Spent activated carbon. See Part B Application for list of applicable waste codes | None |
| 25 | New Facility Discharge
Piping System | New piping
bypasses Lift
Station to POTW | 6" PVC | February
1996 | Spent activated carbon. See Part B Application for list of applicable waste codes | None |

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| No. | SWMU Type/Designation | Location | General Dimensions
and Structural
Description | Date Unit
was First
Operated | Identification
of Wastes
Managed in
Unit | Releases
from
Unit |
|-----|---|--|--|--|---|--------------------------|
| 1 | Bermed containment area | East of
Warehouse | Approx 180' x 55';
concrete | August 1992 | Spent activated carbon. See Part A Application for list of applicable waste codes | None |
| 2 | Sump by H-1 | South of H-1 | 3'-4" square;
concrete | July 1996 | Spent activated carbon. See Part A Application for list of applicable waste codes | None |
| 3 | Sump by storage tank,
T–9 | East of
warehouse in
between T-9 and
RF-2 | 3'-4" square sump; U-
drain 30' long x
16"wide; concrete | August 1992
to present | Spent activated carbon. See Part A Application for list of applicable waste codes | None |
| 4 | Recycled motive water storage tank, T–9 | East of warehouse on containment | 10,500 gal
316 series stainless
steel | 1996 to present | Spent activated carbon. See Part A Application for list of applicable waste codes | None |
| 5 | Rainwater and motive water storage tank, T–12 | East of
warehouse on
containment | 25,080 gal
Mild steel | 1992.
Removed
from service
in 2002. | Spent activated carbon. See Part A Application for list of applicable waste codes | None |

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| No. | SWMU
Type/Designation | Location | General Dimensions
and Structural
Description | Date Unit
was First
Operated | Identification
of Wastes
Managed in
Unit | Releases
from
Unit |
|-----|---|---|---|------------------------------------|---|--------------------------|
| 6 | Wastewater storage tank, T–11 System | East of the warehouse and south of RF -2 | 10' Dia x 20' H; Approx
12,000 gal fiberglass | August
1992 to
present | Spent activated carbon. See Part A Application for list of applicable waste codes | None |
| 7 | Sump by cooling screw under Venturi scrubber tank | East of
warehouse
beside RF-2 | 3'-4" square; concrete | July 1996 to
present | Spent activated carbon. See Part A Application for list of applicable waste codes | None |
| 8 | RF–2 scrubber water equalization tank, T-19 | Under RF-2
Structure | Approx. 1000 gal
Fiberglass | July 1996 to
present | Spent activated carbon. See Part A Application for list of applicable waste codes | None |
| 9 | Hazardous waste debris
bin | North of
warehouse on
asphalt
pavement | 20 - 40 cubic yards
Mild steel | August 1992
to present | Spent activated carbon. See Part A Application for list of applicable waste codes | None |
| 10 | Spent carbon storage warehouse grated trenches and sump | Warehouse in containment area | Trench 3 ft, 4 in square sump U-drain 50 ft long, 16 in wide; cross drain sections 40 ft long 16 in wide Concrete | 1992 to present | Spent activated carbon. See Part A Application for list of applicable waste codes | None |

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| No. | SWMU Type/Designation Hopper concrete pad | Location Outside H-1 | General Dimensions and Structural Description Approx 60' x 44'; | Date Unit
was First
Operated | Identification of Wastes Managed in Unit | Releases
from
Unit |
|-----|--|---|---|------------------------------------|---|--------------------------|
| | | structure | concrete | | carbon. See Part A Application for list of applicable waste codes | |
| 12 | WWTP | Inside
warehouse | Fiberglass, mild steel
modular water
treatment system.
Separate containment. | October
2003 to
present | Spent activated carbon. See Part A Application for list of applicable waste codes | None |
| 13 | Wastewater lift station and piping system (old) | At the end of access road to plant. Old piping from Tank T-11 to the Lift Station | Approx. height 15 ft; outside diameter 5 ft Lift Station: mild steel/concrete/fiberglass Old piping system PVC. | 1992 to
1996 | Spent activated carbon. See Part A Application for list of applicable waste codes | None |
| 14 | Spent carbon unloading and transfer area asphalt pad | North area of facility | Approx. 44 ft by 80 ft | August 1996
to present | Spent activated carbon. See Part A Application for list of applicable waste codes | None |
| 15 | Satellite Accumulation
Area | North side of warehouse | ≤ 55 gallons (metal or plastic) | August 1992
to present | Various Debris | None |
| 16 | Satellite Accumulation
Area | South side of drum containment | ≤ 55 gallons (metal or plastic) | August 1992
to present | Various Debris | None |
| 17 | Satellite Accumulation
Area | East of Control
Room | ≤ 55 gallons (metal or plastic) | August 1992
to present | Various Debris | None |

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| No. | SWMU
Type/Designation | Location | General Dimensions
and Structural
Description | Date Unit
was First
Operated | Identification
of Wastes
Managed in
Unit | Releases
from
Unit |
|-----|--------------------------------|--|---|------------------------------------|---|--------------------------|
| 18 | Satellite Accumulation
Area | Laboratory in
Admin Building | ≤ 55 gallons (metal or plastic) | August 1996
to present | Laboratory Debris
and laboratory
Testing | None |
| 19 | Satellite Accumulation
Area | Underneath
Spent Carbon
Baghouse | ≤ 55 gallons (metal or plastic) | August 1992
to present | Spent Carbon
Dust from
Baghouse | |

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<u>TABLE VI-3 - AREAS OF CONCERN (AOC) IDENTIFICATION TABLE,</u> NEW UNIT NAME

| No. | Description of AOC | Location | Management Requirements at |
|------|---|---|---|
| 110. | Description of AGC | Location | Closure |
| 1 | Spent carbon unloading and transfer area. | AOC 1 is entirely contained within SWMU14. | Sampling. See Closure Plan Tank
Area and Unloading Area Sample
Locations 5 & 7. |
| 2 | Tank area concrete containment pad | AOC 2 is entirely contained within SWMU 1. | Sampling. See Closure Plan Tank
Area and Unloading Area Sample
Location 3. |
| 3 | Receiving area/pad | AOC 3 is entirely contained within SWMU14. | Sampling. See Closure Plan Tank
Area and Unloading Area Sample
Location 8. |
| 4 | Hopper H-1
loading/unloading area | See HWMU 5 for more detail on this unit | Sampling. See Closure Plan Tank
Area and Unloading Area Sample
Locations 4 & 5. |
| 5 | Hopper H-2
loading/unloading area | See HWMU 6 for more detail on this unit | Sampling. See Closure Plan
Container Area Sample Locations 1
& 2. |
| 6 | Spent carbon storage warehouse | See HWMU 9 for more detail on this unit | Sampling. See Closure Plan
Container Area Sample Locations 1,
2, & 3. |
| 7 | Furnace feed systems | See HWMUs 14 and 15 for more details on these units | Sampling. See Closure Plan RF-1
and RF-2 Process Area Sample
Locations 1 & 2 |
| 8 | Recycled motive water tank
T-9 | See SWMU 4 for more details on this unit | Sampling. See Closure Plan Tank
Area and Unloading Area Sample
Location 6. |
| 9 | Rainwater, Dewatering
Screw, and Motive Water
Storage Tank T-12 | See SWMU 5 for more details on this unit | Sampling. See Closure Plan Tank
Area and Unloading Area Sample
Location 2. |

This draft permit has been created in accordance with 40 CFR § 124.6 as part of US EPA's proposed RCRA hazardous waste permit decision for the hazardous waste facility (EPA ID # AZD982441263) located on trust land of the Colorado River Indian Tribes at 2523 Mutahar Street, Parker, Arizona, 85344, and operated by Evoqua Water Technologies LLC.

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<u>TABLE VI-3 - AREAS OF CONCERN (AOC) IDENTIFICATION TABLE, NEW UNIT NAME</u>

| No. | Description of AOC | Location | Management Requirements at Closure |
|-----|---|--|---|
| 10 | Spent carbon storage warehouse barrel washer | See HWMU 17 for more details on this unit | Sampling. See Closure Plan
Container Area Sample Locations 1,
2, & 3. |
| 11 | Bermed concrete pad in process area | AOC 2 is entirely contained within SWMU 1. See SWMU 1 for more detail on this unit | Sampling. See Closure Plan RF-1 and RF-2 Process Area Sample Locations 1, 2, & 3. |
| 12 | Sump by unloading hopper
H-1 | See SWMU 2 for more details on this unit | Sampling. See Closure Plan Tank
Area and Unloading Area Sample
Location 4. |
| 13 | Sump by storage tank T-9 | See SWMU 3 for more details on this unit | Sampling. See Closure Plan Tank
Area and Unloading Area Sample
Location 6. |
| 14 | Spent carbon storage tanks and carbon adsorbers | Please see HWMUs 10, 11, 12, & 13 and HWMUs 19, 20, & 21 for more details on these units | Sampling. See Closure Plan Tank
Area and Unloading Area Sample
Locations 1, 2, & 3. |

Appendix B

Checklists

APPENDIX B CHECKLISTS

Checklists for the applicable regulatory provisions from the following regulations are included in this Appendix B to the Statement of Basis. These checklists cover regulations referenced in the draft permit from the following Parts of Title 40 of the Code of Federal Regulations (40 CFR): Parts 61, 63, 124, 264, and 270.

The checklists do not repeat the regulations verbatim. They are merely excerpts, designed to assist the public in understanding the basis for specific, proposed permit conditions in the draft permit.

40 CFR Part 264 includes the Resource Conservation and Recovery Act (RCRA) regulations applicable to permitted treatment, storage and disposal facilities (TSDs) and these include the basic requirements for TSD facilities and the units in which hazardous waste is managed at such facilities.

40 CFR Part 270 includes the regulations applicable to RCRA permits generally. 40 CFR Part 124 includes the regulations generally applicable to all EPA permits, including those permits issued under the authority of RCRA.

The carbon regeneration furnace at the Evoqua Water Technologies, LLC facility in Parker, AZ is considered a "miscellaneous unit" as defined at 40 CFR §260.10. As such, the proposed permit terms and provisions of the draft permit include those requirements of Part 264, Subparts I through O and Subparts AA through CC, Part 270, and Part 63, Subpart EEE, that are appropriate for this particular type of miscellaneous unit. In addition, some of the requirements under Part 264, Subparts AA through CC are inapplicable where units or equipment are equipped with and operating air emission controls in accordance with the requirements of an applicable Clean Air Act (CAA) regulation codified under 40 CFR Parts 60, 61, or 63.

As a result, checklists for 40 CFR Part 61, primarily for Subpart FF (National Emission Standard for Benzene Waste Operations), and Part 63, primarily for Subpart EEE (National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors) are included in this Appendix to help guide the public in understanding how specific requirements from Part 61 and Part 63 were included in the draft permit.

The draft permit also includes references to regulatory requirements from other parts of Title 40 of the Code of Federal Regulations that are not reflected in these checklists. For example, draft Permit Condition II.A.2. references 40 CFR Part 262, and draft Permit Condition II.A.3. references 40 CFR Part 268. For the full text of all regulatory requirements, whether or not they are referenced in a checklist here, the public is advised to review the regulatory language, which may be found online at http://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title40/40tab_02.tpl.

STATEMENT OF BASIS – APPENDIX B 40 CFR Part 61 CHECKLIST – DRAFT PERMIT – EVOQUA WATER TECHNOLOGIES LLC AND CRIT

| 40 CFR Section | Requirement | Permit |
|----------------|--|---|
| | • | Condition(s) |
| | | |
| Part 61 | | IV.G.1. |
| Subpart A | GENERAL PROVISIONS | Table IV-2 |
| 61.01 | (a) The following list presents the substances that, pursuant to section 112 of the Act, have been designated as hazardous air pollutants. The Federal Register citations and dates refer to the publication in which the listing decision was originally published. *** Benzene (42 FR 29332; June 8, 1977) *** [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 61.12 | checklist for the sake of brevity.] | (c) -V.D.4. |
| 01.12 | Compliance with standards and maintenance requirements. | (c) – v.D.4. |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| | (c) The owner or operator of each stationary source shall maintain and operate the source, including associated equipment for air pollution control, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operating and maintenance procedures, and inspection of the source. | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| | | |
| Subpart FF | National Emission Standard For Benzene Waste Operations | IV.G.2.b. IV.G.2.c. Table IV-2 IV.G.8. IV.G.8.a.i. IV.G.8.a.ii. IV.G.8.a.iv. IV.G.8.b.ii. |
| 61.343 | Standards: Tanks. (a) Except as provided in paragraph (b) of this section and in § 61.351, the owner or operator must meet the standards | (a)(1)(i) -
IV.G.8.b.i. |

STATEMENT OF BASIS – APPENDIX B 40 CFR Part 61 CHECKLIST – DRAFT PERMIT – EVOQUA WATER TECHNOLOGIES LLC AND CRIT

| | in paragraph (a)(1) or (2) of this section for each tank in which the waste stream is placed in accordance with § 61.342 (c)(1)(ii). The standards in this section apply to the treatment and storage of the waste stream in a tank, including dewatering. (1) The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. (i) The fixed-roof shall meet the following requirements: | |
|--------|--|--------------|
| | checklist for the sake of brevity.] | |
| 61.346 | Standards: Individual drain systems. (a) Except as provided in paragraph (b) of this section, the owner or operator shall meet the following standards for each individual drain system in which waste is placed in accordance with § 61.342(c)(1)(ii) of this subpart: (1) The owner or operator shall install, operate, and maintain on each drain system opening a cover and closed-vent system that routes all organic vapors vented from the drain system to a control device. (i) The cover shall meet the following requirements: [The full text of this regulation is not included in this checklist for the sake of brevity.] | TABLE IV-2 |
| 61.348 | Standards: Treatment processes. | (e) - V.E.1. |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] (e) Except as specified in paragraph (e)(3) of this section, if the treatment process or wastewater treatment system unit has any openings (e.g., access doors, hatches, etc.), all such openings shall be sealed (e.g., gasketed, latched, etc.) and kept closed at all times when waste is being treated, except during inspection and maintenance. (1) Each seal, access door, and all other openings shall [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 61.349 | Standards: Closed-vent systems and control devices. | TABLE IV-2 |
| | (a) For each closed-vent system and control device used to comply with standards in accordance with §§ 61.343 through 61.348 of this subpart, the owner or operator shall properly design, install, operate, and maintain the closed- | IV.G.8.b.ii. |

STATEMENT OF BASIS – APPENDIX B 40 CFR Part 61 CHECKLIST – DRAFT PERMIT – EVOQUA WATER TECHNOLOGIES LLC AND CRIT

| | vent system and control device in accordance with the following requirements: [The full text of this regulation is not included in this | |
|--------|---|---|
| 61.355 | checklist for the sake of brevity.] Test methods, procedures, and compliance provisions. (a) An owner or operator shall determine the total annual benzene quantity from facility waste by the following procedure: [The full text of this regulation is not included in this checklist for the sake of brevity.] (c) For the purposes of the calculation required by §§ 61.355(a) of this subpart, an owner or operator shall determine the flow-weighted annual average benzene concentration in a manner that meets the requirements given in paragraph (c)(1) of this section using either of the methods given in paragraphs (c)(2) and (c)(3) of this section | IV.J.8. (h) V.E.2. and Permit Attachment Appendix XXIII (Subpart FF Compliance Plan) at Section 3.7.3.and Table 1. |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] (h) An owner or operator shall test equipment for compliance with no detectable emissions as required in §§ 61.343 through 61.347, and § 61.349 of this subpart in accordance with the following requirements: | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 61.357 | Reporting requirements. (a) Each owner or operator of a chemical plant, petroleum refinery, coke by-product recovery plant, and any facility managing wastes from these industries shall [The full text of this regulation is not included in this checklist for the sake of brevity.] | II.M.2. |

STATEMENT OF BASIS – APPENDIX B 40 CFR Part 63 CHECKLIST – DRAFT PERMIT – EVOQUA WATER TECHNOLOGIES LLC AND CRIT

| 40 CFR Section | Requirement | Permit
Condition(s) |
|---|--|------------------------|
| PART 63—
National Emission
Standards For
Hazardous Air | | |
| Pollutants For
Source Categories | | |
| Subpart A –
General | | |
| 63.6 | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| | (3) Startup, shutdown, and malfunction plan. [The full text of this regulation is not included in this | |
| | checklist for the sake of brevity.] (iii) When actions taken by the owner or operator during a startup or shutdown (and the startup or shutdown causes the source to exceed any applicable emission limitation in the relevant emission standards), or malfunction (including actions taken to correct a malfunction) are consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, the owner or operator must keep records for that event which demonstrate that the | |
| | procedures specified in the plan were followed. These records [The full text of this regulation is not included in this | |
| | checklist for the sake of brevity.] (iv) If an action taken by the owner or operator during a startup, shutdown, or malfunction (including an action taken to correct a malfunction) is not consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, and the source exceeds any applicable emission limitation in the relevant emission standard, then the owner or operator must record the actions taken for that event and must report such actions within 2 working days after commencing actions inconsistent with the plan, followed by a letter within 7 working days after the end of the event, in accordance with §63.10(d)(5) (unless the owner or operator makes alternative reporting arrangements, in advance, with the Administrator). | (e)(3)(iv) – V.G.4. |
| 63.7 | [The full text of this regulation is not included in this checklist for the sake of brevity.] Performance testing requirements. | I.K.1.c. |

STATEMENT OF BASIS – APPENDIX B 40 CFR Part 63 CHECKLIST – DRAFT PERMIT – EVOQUA WATER TECHNOLOGIES LLC AND CRIT

| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
|------------|---|--|
| 63.8 | Monitoring requirements. | I.K.1.c.
V.C.4.iii. |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 63.8(c)(3) | All CMS shall be installed, operational, and the data verified as specified in the relevant standard either prior to or in conjunction with conducting performance tests under §63.7. Verification of operational status shall, at a minimum, include completion of the manufacturer's written specifications or recommendations for installation, operation, and calibration o ref the system. | II.M.1.c. |
| 63.8(d) | (d) <i>Quality control program</i> . (1) The results of the quality control program required in this paragraph will be considered by the Administrator when he/she determines the validity of monitoring data. | (d) – I.K.1.b.
II.M.1.d.
(d)(1) – V.G.5. |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 63.9(e) | Notification of performance test. The owner or operator of an affected source shall notify the Administrator in writing of his or her intention to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin to allow the Administrator to review and approve the site-specific test plan required under §63.7(c), if requested by the Administrator, and to have an observer present during the test. | I.K.1.c. |
| 63.9(f) | Notification of opacity and visible emission observations. The owner or operator of an affected source shall notify the Administrator in writing of the anticipated date for conducting the opacity or visible emission observations specified in §63.6(h)(5), if such observations are required for the source by a relevant standard. The notification shall be submitted with the notification of the performance test date, as specified in paragraph (e) of this section, or if no performance test is required or visibility or other conditions prevent the opacity or visible emission observations from being conducted concurrently with the initial performance test required under §63.7, the owner or operator shall deliver or postmark the notification not less than 30 days before the opacity or visible emission observations are scheduled to take place. | I.K.1.c. |
| 63.9(g) | (g) Additional notification requirements for sources with continuous monitoring systems. The owner or operator of an affected source required to use a CMS by a relevant | I.K.1.b.
I.K.1.c. |

STATEMENT OF BASIS – APPENDIX B 40 CFR Part 63 CHECKLIST – DRAFT PERMIT – EVOQUA WATER TECHNOLOGIES LLC AND CRIT

| | standard shall furnish the Administrator written | |
|------------|---|-------------------|
| | notification as follows: | |
| | | |
| | [The full text of this regulation is not included in this | |
| | checklist for the sake of brevity.] | |
| 63.9(h)(2) | (2)(i) Before a title V permit has been issued to the owner | (h)(2) - I.K.3.c. |
| | or operator of an affected source, and each time a | |
| | notification of compliance status is required under this | |
| | part, the owner or operator of such source shall submit to | |
| | the Administrator a notification of compliance status, | |
| | signed by the responsible official who shall certify its | |
| | accuracy, attesting to whether the source has complied | |
| | with the relevant standard. The notification shall list— | |
| | | |
| | [The full text of this regulation is not included in this | |
| | checklist for the sake of brevity.] | |
| 63.9(j) | Change in information already provided. Any change in | I.K.1.c. |
| | the information already provided under this section shall | |
| | be provided to the Administrator in writing within 15 | |
| | calendar days after the change. | |
| 63.10 | Recordkeeping and reporting requirements. | V.G.1. |
| | | V.G.2. |
| | (a) Applicability and general information. (1) The | V.G.3. |
| | applicability of this section is set out in §63.1(a)(4). | |
| | | |
| | [The full text of this regulation is not included in this | |
| | checklist for the sake of brevity.] | |
| 63.10(d) | [The full text of this regulation is not included in this | (d)(5) - V.G.4. |
| | checklist for the sake of brevity.] | |
| | | |
| | (5)(i) Periodic startup, shutdown, and malfunction | |
| | reports. If actions taken by an owner or operator during a | |
| | startup or shutdown (and the startup or shutdown causes | |
| | the source to exceed any applicable emission limitation | |
| | in the relevant emission standards), or malfunction of an | |
| | affected source (including actions taken to correct a | |
| | malfunction) are consistent with the procedures specified | |
| | in the source's startup, shutdown, and malfunction plan | |
| | (see $\S63.6(e)(3)$), the owner or operator shall state such | |
| | information in a startup, shutdown, and malfunction | |
| | report. Actions taken to minimize emissions during such | |
| | startups, shutdowns, and malfunctions shall be | |
| | summarized in the report and may be done in checklist | |
| | form; if actions taken are the same for each event, only | |
| | one checklist is necessary. Such a report shall also | |
| | include | |
| | [The full text of this records tion is not in the deal of the | |
| | [The full text of this regulation is not included in this | |
| | checklist for the sake of brevity.] | |

| 63.10(e) | (3) Excess emissions and continuous monitoring system performance report and summary report. (i) Excess emissions and parameter monitoring exceedances are defined in relevant standards. The owner or operator of an affected source required to install a CMS by a relevant standard shall submit an excess emissions and continuous monitoring system performance report and/or a summary report to the Administrator semiannually, except when— [The full text of this regulation is not included in this checklist for the sake of brevity.] | (e)(3) -
V.C.5.v.c.(2).
V.C.5.v.c.(3). |
|--|--|--|
| Subpart EEE — National Emission Standards For Hazardous Air Pollutants From Hazardous Waste Combustors | | V.A.3. |
| General | | |
| 63.1200 | Who is subject to these regulations? [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| Monitoring and
Compliance
Provisions | | |
| 63.1206 | [The full text of this regulation is not included in this checklist for the sake of brevity.] (b) Compliance with standards- [The full text of this regulation is not included in this checklist for the sake of brevity.] (5) Changes in design, operation, or maintenance—(i) Changes that may adversely affect compliance. If you plan to change (as defined in paragraph (b)(5)(iii) of this section) the design, operation, or maintenance practices of the source in a manner that may adversely affect compliance with any emission standard that is not monitored with a CEMS: (A) Notification. You must notify the Administrator at least 60 days prior to the change, unless you document | (b)(5) – I.E.10.,
I.G.4. |

- circumstances that dictate that such prior notice is not reasonably feasible. The notification must include:
- (1) A description of the changes and which emission standards may be affected; and
- (2) A comprehensive performance test schedule and test plan under the requirements of §63.1207(f) that will document compliance with the affected emission standard(s);
- (B) Performance test. You must conduct a comprehensive performance test under the requirements of §§63.1207(f)(1) and (g)(1) to document compliance with the affected emission standard(s) and establish operating parameter limits as required under §63.1209, and submit to the Administrator a Notification of Compliance under §§63.1207(j) and 63.1210(d); and
- (C) Restriction on waste burning. (1) Except as provided by paragraph (b)(5)(i)(C)(2) of this section, after the change and prior to submitting the notification of compliance, you must not burn hazardous waste for more than a total of 720 hours (renewable at the discretion of the Administrator) and only for the purposes of pretesting or comprehensive performance testing. Pretesting is defined at §63.1207(h)(2)(i) and (ii).
- (2) You may petition the Administrator to obtain written approval to burn hazardous waste in the interim prior to submitting a Notification of Compliance for purposes other than testing or pretesting. You must specify operating requirements, including limits on operating parameters, that you determine will ensure compliance with the emission standards of this subpart based on available information. The Administrator will review, modify as necessary, and approve if warranted the interim operating requirements.
- (ii) Changes that will not affect compliance. If you determine that a change will not adversely affect compliance with the emission standards or operating requirements, you must document the change in the operating record upon making such change. You must revise as necessary the performance test plan, Documentation of Compliance, Notification of Compliance, and start-up, shutdown, and malfunction plan to reflect these changes.

| (iii) Definition of "change." For purposes of paragraph (b)(5) of this section, "change" means any change in design, operation, or maintenance practices that were documented in the comprehensive performance test plan, Notification of Compliance, or startup, shutdown, and malfunction plan. | |
|---|---|
| [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| (c) Operating requirements. —(1) General | (c)(1)(iii) –
V.C.1.x. |
| [The full text of this regulation is not included in this checklist for the sake of brevity.] | (c)(2) - V.C.5.iv. |
| (iii) Failure to comply with the operating requirements is failure to ensure compliance with the emission standards of this subpart | (c)(2)(v)(A)(1) -
V.C.5.v.
V.C.5.v.a |
| [The full text of this regulation is not included in this checklist for the sake of brevity.] | (c)(2)(v)(A)(2) -
V.C.5.v.b.(1). |
| (2) Startup, shutdown, and malfunction plan. | (c)(2)(v)(A)(3) -
V.C.5.v.c. |
| [The full text of this regulation is not included in this checklist for the sake of brevity.] | (c)(2)(v)(A)(3)(i) –
V.C.4.v.c.(1). |
| (v) Operating under the startup, shutdown, and malfunction plan—(A) Compliance with AWFCO requirements during malfunctions. (1) During malfunctions, the automatic waste feed cutoff requirements of \$63.1206(c)(3) continue to apply, except for paragraphs (c)(3)(v) and (c)(3)(vi) of this section. If you exceed a part 63, subpart EEE, of this chapter emission standard monitored by a CEMS or COMs or operating limit specified under \$63.1209, the automatic waste feed cutoff system must immediately and automatically cutoff the hazardous waste feed, except as provided by paragraph (c)(3)(viii) of this section. If the malfunction itself prevents immediate and automatic cutoff of the hazardous waste feed, however, you must cease feeding hazardous waste as quickly as possible. | (c)(2)(v)(A)(3)(ii)
– V.C.4.v.c.(2).
V.C.4.v.c.(3). |
| (2) Although the automatic waste feed cutoff requirements continue to apply during a malfunction, an exceedance of an emission standard monitored by a CEMS or COMS or operating limit specified under §63.1209 is not a violation of this subpart if you take the | |

| corrective measures prescribed in the startup, shutdown, and malfunction plan. | |
|---|--|
| (3) Excessive exceedances during malfunctions. For each set of 10 exceedances of an emission standard or operating requirement while hazardous waste remains in the combustion chamber (i.e., when the hazardous waste residence time has not transpired since the hazardous waste feed was cutoff) during a 60-day block period, you must: | |
| (i) Within 45 days of the 10th exceedance, complete an investigation of the cause of each exceedance and evaluation of approaches to minimize the frequency, duration, and severity of each exceedance, and revise the startup, shutdown, and malfunction plan as warranted by the evaluation to minimize the frequency, duration, and severity of each exceedance; and | |
| (ii) Record the results of the investigation and evaluation in the operating record, and include a summary of the investigation and evaluation, and any changes to the startup, shutdown, and malfunction plan, in the excess emissions report required under §63.10(e)(3). | |
| (B) Compliance with AWFCO requirements when burning hazardous waste during startup and shutdown. (1) If you feed hazardous waste during startup or shutdown, you must include waste feed restrictions (e.g., type and quantity), and other appropriate operating conditions and limits in the startup, shutdown, and malfunction plan | (c)(2)(v)(B) -
V.C.5.vi. |
| [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| (c)(3) Automatic waste feed cutoff (AWFCO)—(i) General. Upon the compliance date, you must operate the hazardous waste combustor with a functioning system that immediately and automatically cuts off the | (c)(3) - V.C.5.i.
V.C.5.iv.
V.C.5.v. |
| hazardous waste feed, except as provided by paragraph (c)(3)(viii) of this section: | (c)(3)(i)(B) –
V.C.5.ii.b. |
| [The full text of this regulation is not included in this checklist for the sake of brevity.] | (c)(3)(i)(C) –
V.C.5.ii.c. |
| | (c)(3)(i)(D) –
V.C.5.ii.d. |
| | (c)(3)(ii) –
V.C.5.iii. |

| | | (c)(3)(iii) –
V.C.5.vii. |
|---------|--|--|
| | | (c)(3)(iv) –
V.C.5.viii. |
| | | (c)(3)(v) –
V.C.5.v.d. |
| | | (c)(3)(vii) –
V.C.5.ix. |
| | (c)(5) Combustion system leaks. (i) Combustion system leaks of hazardous air pollutants must be controlled by: | (c)(5) –V.E.1.
V.E.2. |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | (c)(5)(ii) – I.K.1.b.
and I.K.1.c. |
| | (c)(6) Operator training and certification. | (c)(6) - I.K.13. |
| | (i) You must establish training programs for all categories of personnel whose activities may reasonably be expected to directly affect emissions of hazardous air pollutants from the source. | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 63.1207 | What are the performance testing requirements? | I.K.1.b. |
| | (a) <i>General</i> . The provisions of §63.7 apply, except as noted below. | (b)(1) - I.K.1.c. |
| | | (d)(3) - I.K.2. |
| | (b) Types of performance tests—(1) Comprehensive performance test. You must conduct comprehensive performance tests to demonstrate compliance with the | (e)(2) - I.K.1.f. |
| | emission standards provided by this subpart, establish | (j) – I.E.10., I.G.4. |
| | limits for the operating parameters provided by §63.1209, and demonstrate compliance with the performance specifications for continuous monitoring systems | (l)(1)(i) and (ii) –
I.K.4.b. |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | (l)(1)(ii)(A) or (C)
- I.K.4.c. |
| | (d) Frequency of testing. Except as otherwise specified in | (1)(2)(i) - I.K.4.b. |
| | paragraph (d)(4) of this section, you must conduct testing periodically as prescribed in paragraphs (d)(1) through (d)(3) of this section. The date of commencement of the initial comprehensive performance test is the basis for | (l)(2)(ii) and (iii) –
I.K.4.b., I.K.4.c. |
| | establishing the deadline to commence the initial confirmatory performance test and the next comprehensive performance test. You may conduct | |

| | (a) [Reserved] | |
|---------|--|----------|
| 63.1208 | What are the test methods? | I.K.1.b. |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| | you conduct the test prior to your compliance date | |
| | apply to the initial comprehensive performance test if | |
| | (l) Failure of performance test—(1) Comprehensive performance test. The provisions of this paragraph do not | |
| | | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| | required under §63.1211(c). | |
| | limits specified in the Documentation of Compliance | |
| | you must comply with all operating requirements specified in the Notification of Compliance in lieu of the | |
| | (ii) Upon postmark of the Notification of Compliance, | |
| | identifying operating parameter limits under §63.1209. | |
| | documenting compliance with the emission standards and continuous monitoring system requirements, and | |
| | must postmark a Notification of Compliance | |
| | (j)(4) and (j)(5) of this section, within 90 days of completion of a comprehensive performance test, you | |
| | performance test. (i) Except as provided by paragraphs | |
| | (j) Notification of compliance—(1) Comprehensive | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| | CMS performance evaluation plan. | |
| | (e) Notification of performance test and CMS performance evaluation, and approval of test plan and | |
| | | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| | conduct testing as follows | |
| | performance test. Unless the Administrator grants a time extension under paragraph (i) of this section, you must | |
| | date of commencement of the previous comprehensive | |
| | and comprehensive performance testing is based on the | |
| | performance testing at any time prior to the required date. The deadline for commencing subsequent confirmatory | |

| | T | , |
|---------|---|--|
| | (b) <i>Test methods</i> . You must use the following test methods to determine compliance with the emissions standards of this subpart: | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 63.1209 | What are the monitoring requirements? (a) Continuous emissions monitoring systems (CEMS) and continuous opacity monitoring systems (COMS). (1)(i) You must use either a carbon monoxide or hydrocarbon CEMS to demonstrate and monitor compliance with the carbon monoxide and hydrocarbon standard under this subpart. You must also use an oxygen CEMS to continuously correct the carbon monoxide or hydrocarbon level to 7 percent oxygen. | V.C.1.ii.
Table V-2
V.C.1.ix.
(a)(6) – Table V-3. |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] (6) Calculation of rolling averages. | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| | (b) Other continuous monitoring systems (CMS). [The full text of this regulation is not included in this checklist for the sake of brevity.] | (b)(2) – II.M.1.c. |
| | (2) Except as specified in paragraphs (b)(2)(i) and (ii) of this section, you must install and operate continuous monitoring systems other than CEMS in conformance with §63.8(c)(3) that requires you, at a minimum, to comply with the manufacturer's written specifications or recommendations for installation, operation, and calibration of the system | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| | (l) Mercury. You must comply with the mercury emission standard by establishing and complying with the following operating parameter limits. You must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications. | (l)(1)(i) –
Table V-1 |
| | (1) Feedrate of mercury. (i) For incinerators and solid fuel boilers, when complying with the mercury emission standards under §§63.1203, 63.1216 and 63.1219, you | |

| Notification, Reporting and Recordkeeping | must establish a 12-hour rolling average limit for the total feedrate of mercury in all feedstreams as the average of the test run averages. [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
|--|---|--|
| 63.1210 | (a) Summary of requirements. (1) You must submit the following notifications to the Administrator [The full text of this regulation is not included in this checklist for the sake of brevity.] | I.G.4.
(d) - I.E.10. |
| | (d) Notification of compliance. (1) The Notification of Compliance status requirements of §63.9(h) apply, except that: (i) The notification is a Notification of Compliance, | |
| 63.1211 | rather than compliance status [The full text of this regulation is not included in this checklist for the sake of brevity.] What are the recordkeeping and reporting | II.M.1.b. |
| | requirements? (a) Summary of reporting requirements. You must submit the following reports to the Administrator: [The full text of this regulation is not included in this | II.M.2.
V.G.1.
V.G.2. |
| Replacement
Emissions | checklist for the sake of brevity.] | V.G.3. |
| Standards and Operating Limits for Incinerators, Cement Kilns, and Lightweight Aggregate Kilns | | |
| 63.1219 | What are the replacement standards for hazardous waste incinerators? | See, generally,
Table V-1 in
Module V. |

| (a) <i>Emission limits for existing sources</i> . You must not discharge or cause combustion gases to be emitted into the atmosphere that contain: | I.K.1.c. |
|--|----------|
| [The full text of this regulation is not included in this checklist for the sake of brevity.] | |

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| | | |
| Part 124 | | |
| Subpart A | General Program Requirements | |
| Subpart A 124.16 | General Program Requirements Stays of contested permit conditions. (a) Stays. (1) If a request for review of a RCRA permit under § 124.19 of this part is filed, the effect of the contested permit conditions shall be stayed and shall not be subject to judicial review pending final agency action. Uncontested permit conditions shall be stayed only until the date specified in paragraph (a)(2)(i) of this section [The full text of this regulation is not included in this checklist for the sake of | I.C. |
| | brevity.] | |
| 124.20 | Computation of Time. (a) Any time period scheduled to begin on the occurrence of an act or event shall begin on the day after the act or event. (b) Any time period scheduled to begin before the occurrence of an act or event shall be computed so that the period ends on the day before the act or event. (c) If the final day of any time period falls on a weekend or legal holiday, the time period shall be extended to the next working day [The full text of this regulation is not included in this checklist for the sake of | I.G.3. |
| | brevity.] | |
| Subpart B | Specific Procedures Applicable to RCRA
Permits | |
| 124.33 | (a) Applicability. The requirements of this section apply to all applications seeking RCRA permits for hazardous waste management units over which EPA has permit issuance authority. For the purposes of this section only, "hazardous waste management units over which EPA has permit issuance authority" refers to hazardous waste management units for which the State where the units are located has not been authorized to issue RCRA permits pursuant to 40 CFR part 271. | I.J.1.
I.K.12. |

| | T |
|---|--------|
| (b) The Director may assess the need, on a case-by-case basis, for an information repository. When assessing the need for an information repository, the Director shall consider a variety of factors, including: the level of public interest; the type of facility; | |
| the presence of an existing repository; and the proximity to the nearest copy of the administrative record. If the Director determines, at any time after submittal of a permit application, that there is a need for a repository, then the Director shall notify the facility that it must establish and maintain | |
| an information repository. (See 40 CFR 270.30(m) for similar provisions relating to the information repository during the life of a permit) | |
| [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| (e) The Director shall specify requirements for informing the public about the information repository. At a minimum, the Director shall require the facility to provide a written notice about the information repository to all individuals on the facility mailing list. | I.J.3. |
| (f) The facility owner/operator shall be responsible for maintaining and updating the repository with appropriate information throughout a time period specified by the Director. The Director may close the repository at his or her discretion, based on the factors in paragraph (b) of this section. | I.J.2. |

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| | | |
| Part 264 | STANDARDS FOR OWNERS AND | |
| | OPERATORS OF HAZARDOUS WASTE | |
| | TREATMENT, STORAGE, AND DISPOSAL FACILITIES | |
| | FACILITIES | |
| Subpart B | General Facility Standards | |
| 264.1 | (a) The purpose of this part is to establish | (g)(2) – VI.H.1. |
| | minimum national standards which define the | (8)() |
| | acceptable management of hazardous waste. | |
| | | |
| | (b) The standards in this part apply to owners | |
| | and operators of all facilities which treat, store, | |
| | or dispose of hazardous waste, except as | |
| | specifically provided otherwise in this part or part 261 of this chapter | |
| | part 201 of this chapter | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| | | |
| | (g) The requirements of this part do not | |
| | apply to: | |
| | ETTL - C-11 44 - C41 in manufaction in making lands d | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| | in this checklist for the sake of brevity.] | |
| | (2) The owner or operator of a facility | |
| | managing recyclable materials described in | |
| | §261.6 (a)(2), (3), and (4) of this chapter | |
| | (except to the extent they are referred to in part | |
| | 279 or subparts C, F, G, or H of part 266 of | |
| | this chapter) | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| 264.10 | Applicability. | I. |
| | (a) The regulations in this subpart apply to | |
| | owners and operators of all hazardous waste | |
| | facilities, except as provided in § 264.1 and in | |
| | paragraph (b) of this section. | |
| | (b) Section 264.18(b) applies only to facilities | |
| | subject to regulation under subparts I through O and subpart X of this part. | |
| 264.11 | Identification number. | I. |
| 20 1 ,11 | Every facility owner or operator must apply to | 1. |
| | EPA for an EPA identification number in | |
| | accordance with the EPA notification | |
| | procedures (45 FR 12746). | |
| 264.12(a) | Required notices. | (1): II.B.1. |

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| | (1) The owner or operator of a facility that has | |
| | arranged to receive hazardous waste from a | |
| | foreign source must notify the Regional | |
| | Administrator in writing at least four weeks in | |
| | advance of the date the waste is expected to | |
| | arrive at the facility. Notice of subsequent | |
| | shipments of the same waste from the same | |
| | foreign source is not required | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| 264.12(b) | The owner or operator of a facility that | II.B.2. |
| | receives hazardous waste from an off-site | |
| | source (except where the owner or operator is | |
| | also the generator) must inform the generator | |
| | in writing that he has the appropriate permit(s) | |
| | for, and will accept, the waste the generator is | |
| | shipping. The owner or operator must keep a | |
| | copy of this written notice as part of the | |
| | operating record. | |
| 264.12(c) | Before transferring ownership or operation of a | I.E.12. |
| | facility during its operating life, or of a | |
| | disposal facility during the post-closure care | |
| | period, the owner or operator must notify the | |
| | new owner or operator in writing of the | |
| | requirements of this part and part 270 of this | |
| | chapter. | |
| | [Comment: An owner's or operator's failure to | |
| | notify the new owner or operator of the | |
| | requirements of this part in no way relieves the | |
| | new owner or operator of his obligation to | |
| | comply with all applicable requirements.] | |
| 264.13 | General waste analysis. | II.C.1. |
| | | II.C.4. |
| | (a)(1) Before an owner or operator treats, | III.A. |
| | stores, or disposes of any hazardous wastes, or | |
| | nonhazardous wastes if applicable under | (b)(8) – Table IV-2. |
| | §264.113(d), he must obtain a detailed | |
| | chemical and physical analysis of a | |
| | representative sample of the wastes. At a | |
| | minimum, the analysis must contain all the | |
| | information which must be known to treat, | |
| | store, or dispose of the waste in accordance | |
| | with this part and part 268 of this chapter. | |
| | (2) The analysis may include data developed | |
| | under part 261 of this chapter, and existing | |
| | published or documented data on the hazardous | |

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| | waste or on hazardous waste generated from | |
| | similar processes | |
| | | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| 264.14 | Security | II.D.1. |
| 264.14(a) | (a) The owner or operator must prevent the | II.D.2. |
| | unknowing entry, and minimize the possibility | |
| | for the unauthorized entry, of persons or | |
| | livestock onto the active portion of his facility, | |
| | unless he can demonstrate to the Regional | |
| | Administrator that: | |
| | (1) Physical contact with the waste, structures, or equipment within the active portion of the | |
| | facility will not injure unknowing or | |
| | unauthorized persons or livestock which may | |
| | enter the active portion of a facility; and | |
| | (2) Disturbance of the waste or equipment, by | |
| | the unknowing or unauthorized entry of | |
| | persons or livestock onto the active portion of a | |
| | facility, will not cause a violation of the | |
| | requirements of this part | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| 264.14(c) | Unless the owner or operator has made a | II.D.3. |
| | successful demonstration under paragraphs (a) | |
| | (1) and (2) of this section, a sign with the | |
| | legend, "Danger—Unauthorized Personnel | |
| | Keep Out", must be posted at each entrance to the active portion of a facility, and at other | |
| | locations, in sufficient numbers to be seen from | |
| | any approach to this active portion. The legend | |
| | must be written in English and in any other | |
| | language predominant in the area surrounding | |
| | the facility (e.g., facilities in counties bordering | |
| | the Canadian province of Quebec must post | |
| | signs in French; facilities in counties bordering | |
| | Mexico must post signs in Spanish), and must | |
| | be legible from a distance of at least 25 feet | |
| | [TTh - C-11 4 4 - C41] 1 4] | |
| | [The full text of this regulation is not included in this checklist for the sale of browits.] | |
| 264.15 | in this checklist for the sake of brevity.] | II.E.1. |
| 204.13 | General inspection requirements. | II.E.1.
II.F.1. |
| 264.15(a) | (a) The owner or operator must inspect his | II.E.2. |
| 20 1.15(u) | facility for malfunctions and deterioration, | |
| | operator errors, and discharges which may be | |
| | causing—or may lead to—(1) release of | |
| | hazardous waste constituents to the | |
| | | |

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| | environment or (2) a threat to human health. | |
| | The owner or operator must conduct these | |
| | inspections often enough to identify problems | |
| | in time to correct them before they harm | |
| | human health or the environment. | |
| 264.15(b) | (1) The owner or operator must develop and | II.E.3. |
| | follow a written schedule for inspecting | |
| | monitoring equipment, safety and emergency | |
| | equipment, security devices, and operating and | |
| | structural equipment (such as dikes and sump | |
| | pumps) that are important to preventing, | |
| | detecting, or responding to environmental or | |
| | human health hazards. | |
| | (2) He must keep this schedule at the facility. | |
| | (3) The schedule must identify the types of | |
| | problems (e.g., malfunctions or deterioration) | |
| | which are to be looked for during the | |
| | inspection (e.g., inoperative sump pump, | |
| | leaking fitting, eroding dike, etc.). | |
| | (4) The frequency of inspection may vary for | |
| | the items on the schedule. However, the | |
| | frequency should be based on the rate of | |
| | deterioration of the equipment and the | |
| | probability of an environmental or human | |
| | health incident if the deterioration, | |
| | malfunction, or operator error goes undetected | |
| | between inspections. Areas subject to spills, | |
| | such as loading and unloading areas, must be | |
| | inspected daily when in use, except for | |
| | Performance Track member facilities, that | |
| | must inspect at least once each month, upon | |
| | approval by the Director, as described in | |
| | paragraph (b)(5) of this section. At a minimum, | |
| | the inspection schedule must include the items | |
| | and frequencies called for in §§264.174, | |
| | 264.193, 264.195, 264.226, 264.254, 264.278, | |
| | 264.303, 264.347, 264.602, 264.1033, | |
| | 264.1052, 264.1053, 264.1058, and 264.1083 | |
| | through 264.1089 of this part, where applicable | |
| | | |
| | | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| 264.15(c) | The owner or operator must remedy any | II.E.4. |
| | deterioration or malfunction of equipment or | III.F.2.d. |
| | structures which the inspection reveals on a | |
| | schedule which ensures that the problem does | |
| | not lead to an environmental or human health | |
| | hazard. Where a hazard is imminent or has | |
| | mazara. Tritoro a mazara io miniminoni di mao | |

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| | already occurred, remedial action must be | |
| 264 15(1) | taken immediately. | H F 6 |
| 264.15(d) | The owner or operator must record inspections | II.E.5. |
| | in an inspection log or summary. He must keep | |
| | these records for at least three years from the date of inspection. At a minimum, these | |
| | records must include the date and time of the | |
| | inspection, the name of the inspector, a | |
| | notation of the observations made, and the date | |
| | and nature of any repairs or other remedial | |
| | actions. | |
| 264.16 | Personnel Training | I.K.13. |
| | | II.G.1. |
| 264.16(a) | (1) Facility personnel must successfully | |
| | complete a program of classroom instruction or | |
| | on-the-job training that teaches them to perform their duties in a way that ensures the | |
| | facility's compliance with the requirements of | |
| | this part. The owner or operator must ensure | |
| | that this program includes all the elements | |
| | described in the document required under | |
| | paragraph (d)(3) of this section | |
| | | |
| | [The full text of this regulation is not included | |
| 264.16(1) | in this checklist for the sake of brevity.] | н с э |
| 264.16(d) | The owner or operator must maintain the following documents and records at the facility | II.G.2. |
| | - Tollowing documents and records at the facility | |
| | | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| 264.16(e) | Training records on current personnel must be | II.G.2. |
| | kept until closure of the facility; training | |
| | records on former employees must be kept for | |
| | at least three years from the date the employee | |
| | last worked at the facility. Personnel training | |
| | records may accompany personnel transferred within the same company. | |
| 264.17 | General requirements for ignitable, reactive, or | II.H.2. |
| 201.17 | incompatible wastes. | III.J.3. |
| | (a) The owner or operator must take | |
| | precautions to prevent accidental ignition or | (b) – III.K.1. |
| | reaction of ignitable or reactive waste. This | IV.L.1. |
| | waste must be separated and protected from | IV.L.2. |
| | sources of ignition or reaction including but | |
| | not limited to: open flames, smoking, cutting | (c) – III.I.6. |
| | and welding, hot surfaces, frictional heat, | |
| | sparks (static, electrical, or mechanical), | |
| | spontaneous ignition (e.g., from heat- | <u> </u> |

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| | producing chemical reactions), and radiant | · · · |
| | heat. While ignitable or reactive waste is being | |
| | handled, the owner or operator must confine | |
| | smoking and open flame to specially | |
| | designated locations. "No Smoking" signs | |
| | must be conspicuously placed wherever there | |
| | is a hazard from ignitable or reactive waste | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| 264.18 | Location standards. | (b) - II.I. |
| | | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| | (b) Floodplains. (1) A facility located in a 100- | |
| | year floodplain must be designed, constructed, | |
| | operated, and maintained to prevent washout or | |
| | any hazardous waste by a 100-year flood, | |
| | <i>unless</i> the owner or operator can demonstrate | |
| | to the Regional Administrator's satisfaction | |
| | that | |
| | FTI - C-11 44 - C41 is married in its most included | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| | in this checklist for the sake of brevity.] | |
| Subpart C | Preparedness and Prevention | |
| 264.31 | Design and operation of facility. | II.A.1. |
| | Facilities must be designed, constructed, | IV.G.5. |
| | maintained, and operated to minimize the | |
| | possibility of a fire, explosion, or any | |
| | unplanned sudden or non-sudden release of | |
| | hazardous waste or hazardous waste | |
| | constituents to air, soil, or surface water which | |
| | could threaten human health or the | |
| 264.22 | environment. | II I 1 |
| 264.32 | Required equipment. | II.J.1. |
| | All facilities must be equipped with the following, <i>unless</i> it can be demonstrated to the | |
| | Regional Administrator that none of the | |
| | hazards posed by waste handled at the facility | |
| | could require a particular kind of equipment | |
| | specified below: | |
| | (a) An internal communications or alarm | |
| | system capable of providing immediate | |
| | emergency instruction (voice or signal) to | |
| | facility personnel; | |
| | (b) A device, such as a telephone (immediately | |
| | available at the scene of operations) or a hand- | |

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| | held two-way radio, capable of summoning | |
| | emergency assistance from local police | |
| | departments, fire departments, or State or local | |
| | emergency response teams; | |
| | (c) Portable fire extinguishers, fire control | |
| | equipment (including special extinguishing | |
| | equipment, such as that using foam, inert gas, | |
| | or dry chemicals), spill control equipment, and | |
| | decontamination equipment; and | |
| | (d) Water at adequate volume and pressure to | |
| | supply water hose streams, or foam producing | |
| | equipment, or automatic sprinklers, or water | |
| | spray systems. | |
| 264.33 | Testing and maintenance of equipment. | II.J.2. |
| | All facility communications or alarm systems, | |
| | fire protection equipment, spill control | |
| | equipment, and decontamination equipment, | |
| | where required, must be tested and maintained | |
| | as necessary to assure its proper operation in | |
| | time of emergency. | |
| 264.34 | Access to communications or alarm system. | II.J.3. |
| | (a) Whenever hazardous waste is being poured, | |
| | mixed, spread, or otherwise handled, all | |
| | personnel involved in the operation must have | |
| | immediate access to an internal alarm or | |
| | emergency communication device, either | |
| | directly or through visual or voice contact with | |
| | another employee, <i>unless</i> the Regional | |
| | Administrator has ruled that such a device is | |
| | not required under § 264.32 | |
| | The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| 264.35 | Required aisle space. | II.J.4. |
| 204.33 | The owner or operator must maintain aisle | III.E.3.a. |
| | space to allow the unobstructed movement of | 111.15.3.a. |
| | personnel, fire protection equipment, spill | |
| | control equipment, and decontamination | |
| | equipment to any area of facility operation in | |
| | an emergency, <i>unless</i> it can be demonstrated to | |
| | the Regional Administrator that aisle space is | |
| | not needed for any of these purposes. | |
| 264.37 | Arrangements with local authorities. | II.J.5. |
| | (a) The owner or operator must attempt to | |
| | make the following arrangements, as | |
| | appropriate for the type of waste handled at his | |
| | facility and the potential need for the services | |
| | of these organizations: | |
| L | 1 0 | I |

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| | (1) Arrangements to familiarize police, fire | |
| | departments, and emergency response teams | |
| | with the layout of the facility, properties of | |
| | hazardous waste handled at the facility and | |
| | associated hazards, places where facility personnel would normally be working, | |
| | entrances to and roads inside the facility, and | |
| | possible evacuation routes; | |
| | (2) Where more than one police and fire | |
| | department might respond to an emergency, | |
| | agreements designating primary emergency | |
| | authority to a specific police and a specific fire | |
| | department, and agreements with any others to | |
| | provide support to the primary emergency | |
| | authority; | |
| | (3) Agreements with State emergency response | |
| | teams, emergency response contractors, and equipment suppliers; and | |
| | (4) Arrangements to familiarize local hospitals | |
| | with the properties of hazardous waste handled | |
| | at the facility and the types of injuries or | |
| | illnesses which could result from fires, | |
| | explosions, or releases at the facility | |
| | | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| Subpart D | Contingency Plan and Emergency Procedures | |
| 264.50 | The regulations in this subpart apply to owners | II.K.1. |
| | and operators of all hazardous waste facilities, | |
| | except as §264.1 provides otherwise. | |
| 264.51 | Purpose and implementation of contingency | II.K.1. |
| | plan. | |
| | (a) Each owner or operator must have a | |
| | contingency plan for his facility. The | |
| | contingency plan must be designed to minimize hazards to human health or the | |
| | environment from fires, explosions, or any | |
| | unplanned sudden or non-sudden release of | |
| | hazardous waste or hazardous waste | |
| | constituents to air, soil, or surface water. | |
| | | |
| | [The full text of this regulation is not included | |
| 264.52 | in this checklist for the sake of brevity.] | и и 1 |
| 264.52 | Content of contingency plan. | II.K.1. |
| | (a) The contingency plan must describe the | (d) - II.K.4. |
| | actions facility personnel must take to comply with §§ 264.51 and 264.56 in response to fires, | |
| | explosions, or any unplanned sudden or non- | |
| | expressions, or any unprainted sudden or non- | |

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| | sudden release of hazardous waste or | |
| | hazardous waste constituents to air, soil, or | |
| | surface water at the facility | |
| | | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| | (d) The plan must list names, addresses, and | |
| | phone numbers (office and home) of all | |
| | persons qualified to act as emergency | |
| | coordinator (see § 264.55), and this list must be | |
| | kept up to date. Where more than one person is | |
| | listed, one must be named as primary | |
| | emergency coordinator and others must be | |
| | listed in the order in which they will assume | |
| | responsibility as alternates | |
| | responsibility as attenuates | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| 264.53 | Copies of contingency plan. | II.K.1. |
| | A copy of the contingency plan and all | II.K.2. |
| | revisions to the plan must be: | |
| | (a) Maintained at the facility; and | |
| | (b) Submitted to all local police departments, | |
| | fire departments, hospitals, and State and local | |
| | emergency response teams that may be called | |
| | upon to provide emergency services. | |
| | [Comment: The contingency plan must be | |
| | submitted to the Regional Administrator with | |
| | Part B of the permit application under part 270, | |
| | of this chapter and, after modification or | |
| | approval, will become a condition of any | |
| | permit issued.] | |
| 264.54 | Amendment of contingency plan. | II.K.1. |
| | The contingency plan must be reviewed, and | II.K.3. |
| | immediately amended, if necessary, whenever: | |
| | (a) The facility permit is revised; | |
| | (b) The plan fails in an emergency; | |
| | (c) The facility changes—in its design, | |
| | construction, operation, maintenance, or other | |
| | circumstances—in a way that materially | |
| | increases the potential for fires, explosions, or | |
| | releases of hazardous waste or hazardous waste | |
| | constituents, or changes the response necessary | |
| | in an emergency; | |
| | (d) The list of emergency coordinators | |
| | changes; or | |
| | (e) The list of emergency equipment changes. | |
| 264.55 | Emergency coordinator. | II.K.1. |

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| 40 CFR Section | At all times, there must be at least one employee either on the facility premises or on call (i.e., available to respond to an emergency by reaching the facility within a short period of time) with the responsibility for coordinating all emergency response measures. This emergency coordinator must be thoroughly familiar with all aspects of the facility's contingency plan, all operations and activities at the facility, the location and characteristics of waste handled, the location of all records within the facility, and the facility layout. In addition, this person must have the authority to commit the resources needed to carry out the contingency plan. [Comment: The emergency coordinator's responsibilities are more fully spelled out in § 264.56. Applicable responsibilities for the emergency coordinator vary, depending on factors such as type and variety of waste(s) handled by the facility, and type and | Permit Condition(s) II.K.4. |
| 264.56 | complexity of the facility.] Emergency procedures. (a) Whenever there is an imminent or actual emergency situation, the emergency coordinator (or his designee when the emergency coordinator is on call) must immediately: (1) Activate internal facility alarms or communication systems, where applicable, to notify all facility personnel; and (2) Notify appropriate State or local agencies with designated response roles if their help is needed [The full text of this regulation is not included in this checklist for the sake of brevity.] | II.K.1. |
| Subpart E | Manifest System, Recordkeeping, and | |
| 264.70 | Reporting [The full text of this regulation is not included in this checklist for the sake of brevity.] (b) The revised Manifest form and procedures in 40 CFR 260.10, 261.7, 264.70, 264.71. 264.72, and 264.76, shall not apply until September 5, 2006. The Manifest form and procedures in 40 CFR 260.10, 261.7, | II.L.1. |

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| | in the 40 CFR, parts 260 to 265, edition revised as of July 1, 2004, shall be applicable until September 5, 2006. | |
| 264.71 | (a)(1) If a facility receives hazardous waste accompanied by a manifest, the owner, operator or his/her agent must sign and date the manifest as indicated in paragraph (a)(2) of this section to certify that the hazardous waste covered by the manifest was received, that the hazardous waste was received except as noted in the discrepancy space of the manifest, or that the hazardous waste was rejected as noted in the manifest discrepancy space. (2) If a facility receives a hazardous waste shipment accompanied by a manifest, the owner, operator or his agent must – [The full text of this regulation is not included in this checklist for the sake of brevity.] (f) Legal equivalence to paper manifests. Electronic manifests that are obtained, completed, and transmitted in accordance with § 262.20(a)(3) of this chapter, and used in | II.L.1. II.L.1.c. |
| | accordance with this section in lieu of the paper manifest form are the legal equivalent of paper manifest forms bearing handwritten signatures, and satisfy for all purposes any requirement in these regulations to obtain, complete, sign, provide, use, or retain a manifest [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 264.72 | Manifest discrepancies. (a) Manifest discrepancies are: (1) Significant differences (as defined by paragraph (b) of this section) between the quantity or type of hazardous waste designated on the manifest or shipping paper, and the quantity and type of hazardous waste a facility actually receives; (2) Rejected wastes, which may be a full or partial shipment of hazardous waste that the TSDF cannot accept; or (3) Container residues, which are residues that exceed the quantity limits for "empty" containers set forth in 40 CFR 261.7(b) | II.L. II.L.1.a. |

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| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| 264.73 | Operating record. | II.B.2. |
| | (a) The owner or operator must keep a written | II.M.1.i.a. |
| | operating record at his facility. | II.M.1.i.b. |
| | (b) The following information must be | IV.J.6. |
| | recorded, as it becomes available, and | |
| | maintained in the operating record for three | |
| | years unless noted as follows – | (b)(9) – I.E.9.b.
II.A.6. |
| | [The full text of this regulation is not included | 11.71.0. |
| | in this checklist for the sake of brevity.] | |
| 264.74 | Availability, retention, and disposition of | (a) - I.I.2. |
| 201.71 | records. | (u) 1.1.2. |
| | (a) All records, including plans, required under | (b) - I.E.9.b. |
| | this part must be furnished upon request, and | (b) 1.E.5.0. |
| | made available at all reasonable times for | |
| | inspection, by any officer, employee, or | |
| | representative of EPA who is duly designated | |
| | by the Administrator. | |
| | (b) The retention period for all records | |
| | required under this part is extended | |
| | automatically during the course of any | |
| | unresolved enforcement action regarding the | |
| | facility or as requested by the Administrator | |
| | | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| 264.75 | Biennial report. | II.M.3. |
| | The owner or operator must prepare and | |
| | submit a single copy of a biennial report to the | |
| | Regional Administrator by March 1 of each | |
| | even numbered year. The biennial report must | |
| | be submitted on EPA form 8700-13B. The | |
| | report must cover facility activities during the | |
| | previous calendar year and must include – | |
| | The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| 264.76 | Unmanifested waste report. | II.L. |
| 201.70 | (a) If a facility accepts for treatment, storage, | II.L.1.b. |
| | or disposal any hazardous waste from an off- | 11,12,1,0, |
| | site source without an accompanying manifest, | |
| | or without an accompanying shipping paper as | |
| | described by § 263.20(e) of this chapter, and if | |
| | the waste is not excluded from the manifest | |
| | requirement by this chapter, then the owner or | |
| | operator must prepare and submit a letter to the | |
| | Regional Administrator within 15 days after | |
| | regional rummisuator within 15 days after | |

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| | receiving the waste. The unmanifested waste report must contain the following information – | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 264.77 | Additional reports. In addition to submitting the biennial reports and unmanifested waste reports described in §§ 264.75 and 264.76, the owner or operator must also report to the Regional Administrator: (a) Releases, fires, and explosions as specified in § 264.56(j); (b) Facility closures specified in § 264.115; and (c) As otherwise required by subparts F, K through N, AA, BB, and CC of this part. | II.M.2. |
| Subpart F | Releases from Solid Waste Management Units | |
| 264.90 | Applicability. (a)(1) Except as provided in paragraph (b) of this section, the regulations in this subpart apply to owners or operators of facilities that treat, store or dispose of hazardous waste. The owner or operator must satisfy the requirements identified in paragraph (a)(2) of this section for all wastes (or constituents thereof) contained in solid waste management units at the facility, regardless of the time at which waste was placed in such units. (2) All solid waste management units must comply with the requirements in § 264.101 [The full text of this regulation is not included in this checklist for the sake of brevity.] (d) Regulations in this subpart may apply to miscellaneous units when necessary to comply with §§ 264.601 through 264.603. [The full text of this regulation is not included in this checklist for the sake of brevity.] | (a) - VI.A.1. |
| 264.100 | Corrective action program. An owner or operator required to establish a corrective action program under this subpart must, at a minimum, discharge the following responsibilities: | (e)(2) - VI.A.4 |

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| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| | | |
| | (e) In addition to the other requirements of this | |
| | section, the owner or operator must conduct a | |
| | corrective action program to remove or treat in | |
| | place any hazardous constituents under
§264.93 that exceed concentration limits under | |
| | \$264.94 in groundwater: | |
| | g201.51 in groundwater | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| | | |
| | (2) Beyond the facility boundary, where | |
| | necessary to protect human health and the | |
| | environment, unless the owner or operator | |
| | demonstrates to the satisfaction of the Regional | |
| | Administrator that, despite the owner's or | |
| | operator's best efforts, the owner or operator | |
| | was unable to obtain the necessary permission to undertake such action. The owner/operator | |
| | is not relieved of all responsibility to clean up a | |
| | release that has migrated beyond the facility | |
| | boundary where off-site access is denied. On- | |
| | site measures to address such releases will be | |
| | determined on a case-by-case basis | |
| | | |
| | [The full text of this regulation is not included | |
| 264 101 | in this checklist for the sake of brevity.] | X77 A 1 |
| 264.101 | Corrective action for solid waste management units. | VI.A.1.
VI.A.2. |
| | (a) The owner or operator of a facility seeking | V1.A.2. |
| | a permit for the treatment, storage or disposal | |
| | of hazardous waste must institute corrective | |
| | action as necessary to protect human health | |
| | and the environment for all releases of | |
| | hazardous waste or constituents from any solid | |
| | waste management unit at the facility, | |
| | regardless of the time at which waste was | |
| | placed in such unit | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| | encounter for the same of orevity. | |
| Subpart G | Closure and Post Closure | II.N.1.a. |
| Support | Closure und i ost Closure | II.N.1.b. |
| | | II.N.2. |
| 264.110 | Applicability. | |

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| | Except as § 264.1 provides otherwise: (a) Sections 264.111 through 264.115 (which concern closure) apply to the owners and operators of all hazardous waste management facilities; and | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 264.111 | Closure performance standard. The owner or operator must close the facility in a manner that: (a) Minimizes the need for further maintenance; and (b) Controls, minimizes or eliminates, to the extent necessary to protect human health and the environment, post-closure escape of hazardous waste, hazardous constituents, leachate, contaminated run-off, or hazardous waste decomposition products to the ground or surface waters or to the atmosphere; and (c) Complies with the closure requirements of this part, including, but not limited to, the requirements of §§ 264.178, 264.197, 264.228, 264.258, 264.280, 264.310, 264.351, 264.601 through 264.603, and 264.1102. | III.B.4. |
| 264.112 | Closure plan; amendment of plan. (a) Written plan. (1) The owner or operator of a hazardous waste management facility must have a written closure plan. In addition, certain surface impoundments and waste piles [The full text of this regulation is not included in this checklist for the sake of brevity.] | II.N.3.a.
(c)(2) - II.N.3.b.
(d) - II.N.4.
V.H.3. |
| | operator must submit a written notification of or request for a permit modification to authorize a change in operating plans, facility design, or the approved closure plan in accordance with the applicable procedures in parts 124 and 270. The written notification or request must include a copy of the amended closure plan for review or approval by the Regional Administrator | |
| | in this checklist for the sake of brevity.] | |

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| | (d) Notification of partial closure and final | |
| | closure. (1) | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| 264.113 | Closure; time allowed for closure. | II.N.5. |
| | (a) Within 90 days after receiving the final | |
| | volume of hazardous wastes, or the final | |
| | volume of non-hazardous wastes if the owner | |
| | or operator complies with all applicable | |
| | requirements in paragraphs (d) and (e) of this | |
| | section, at a hazardous waste management unit | |
| | or facility, the owner or operator must treat, | |
| | remove from the unit or facility, or dispose of | |
| | on-site, all hazardous wastes in accordance | |
| | with the approved closure plan. The Regional | |
| | Administrator may approve a longer period if | |
| | the owner or operator | |
| | | |
| | [The full text of this regulation is not included | |
| 264444 | in this checklist for the sake of brevity.] | TANK C |
| 264.114 | Disposal or decontamination of equipment, | II.N.6. |
| | structures and soils. | |
| | During the partial and final closure periods, all | |
| | contaminated equipment, structures and soils | |
| | must be properly disposed of or | |
| | decontaminated unless otherwise specified in | |
| | §§ 264.197, 264.228, 264.258, 264.280 or | |
| | § 264.310. By removing any hazardous wastes | |
| | or hazardous constituents during partial and | |
| | final closure, the owner or operator may | |
| | become a generator of hazardous waste and | |
| | must handle that waste in accordance with all | |
| | applicable requirements of part 262 of this | |
| 264 115 | chapter. | HN 7 |
| 264.115 | Certification of closure. | II.N.7. |
| | Within 60 days of completion of closure of each hazardous waste surface impoundment, | |
| | 1 | |
| | waste pile, land treatment, and landfill unit, and within 60 days of the completion of final | |
| | closure, the owner or operator must submit to | |
| | the Regional Administrator, by registered mail, | |
| | a certification that the hazardous waste | |
| | management unit or facility, as applicable, has | |
| | been closed in accordance with the | |
| | specifications in the approved closure plan. | |
| | The certification must be signed by the owner | |
| | or operator and by a qualified Professional | |
| | Engineer. Documentation supporting the | |
| | Professional Engineer's certification must be | |
| | 1 Totessional Engineer's certification must be | 1 |

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| | furnished to the Regional Administrator upon | |
| | request until he releases the owner or operator | |
| | from the financial assurance requirements for | |
| | closure under §264.143(i). | |
| 264.117 | Post-closure care and use of property. | II.O. |
| | (a)(1) Post-closure care for each hazardous | |
| | waste management unit subject to the | |
| | requirements of §§ 264.117 through 264.120 | |
| | must begin after completion of closure of the | |
| | unit and continue for 30 years after that date | |
| | and must consist of at least the following: | |
| | [The full tout of this regulation is not included | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 264.118 | Post-closure plan; amendment of plan. | II.O. |
| 40 4 .110 | (a) Written Plan. The owner or operator of a | 11.0. |
| | hazardous waste disposal unit must have a | |
| | written post-closure plan | |
| | written post crosure plan | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| 264.119 | Post-closure notices. | II.O. |
| | (a) No later than 60 days after certification of | |
| | closure of each hazardous waste disposal unit | |
| | | |
| | | |
| | [The full text of this regulation is not included | |
| 264.120 | in this checklist for the sake of brevity.] | по |
| 264.120 | Certification of completion of post-closure | II.O. |
| | Care. | |
| | No later than 60 days after completion of the | |
| | established post-closure care period for each hazardous waste disposal unit | |
| | nazardous waste disposar diffe | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| | | |
| Subpart H | Financial Requirements | |
| | | |
| 264.142 | Cost estimate for closure. | II.P.1. |
| | (a) The owner or operator must have a detailed | II.P.5. |
| | written estimate, in current dollars, of the cost | (1) H.D.O. |
| | of closing the facility in accordance with | (b) - II.P.2.a. |
| | [The full tout of this records tion is not in the deal. | II.P.2.b. |
| | [The full text of this regulation is not included in this checklist for the sake of bravity.] | (c) - II.P.3. |
| | in this checklist for the sake of brevity.] | (d) - II.P.4. |
| | (b) During the active life of the facility, the | |
| | owner or operator must adjust the closure cost | |
| | owner or operator must adjust the closure cost | 1 |

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| | estimate for inflation within 60 days prior to the anniversary date of the establishment of the financial instrument(s) used to comply with § 264.143. For owners and operators using the financial test or corporate guarantee, the closure cost estimate must be updated for inflation within 30 days after the close of the firm's fiscal year and before submission of updated information to the Regional Administrator as specified in § 264.143(f)(3). The adjustment may be made by | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| | (c) During the active life of the facility, the owner or operator must revise the closure cost estimate no later than 30 days after the Regional Administrator has approved the request to modify the closure plan, if the change in the closure plan increases the cost of closure. The revised closure cost estimate must be adjusted for inflation as specified in § 264.142(b). (d) The owner or operator must keep the following at the facility during the operating life of the facility: The latest closure cost estimate prepared in accordance with § 264.142 (a) and (c) and, when this estimate has been adjusted in accordance with § 264.142(b), the latest adjusted closure cost estimate. | |
| 264.143 | Financial assurance for closure. An owner or operator of each facility must establish financial assurance for closure of the facility. He must choose from the options as specified in paragraphs (a) through (f) of this section | II.P.5.
II.Q. |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 264.144 | Cost estimate for post-closure care. (a) The owner or operator of a disposal surface impoundment, disposal miscellaneous unit, land treatment unit, or landfill unit, or of a surface impoundment or waste pile required under §§264.228 and 264.258 to prepare a contingent closure and post-closure plan, must | II.P.1. |

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| | have a detailed written estimate, in current | |
| | dollars, of the annual cost of post-closure | |
| | monitoring and maintenance of the facility in | |
| | accordance with the applicable post-closure | |
| | regulations in §§264.117 through 264.120, | |
| | 264.228, 264.258, 264.280, 264.310, and | |
| | 264.603 | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| 264.147 | Liability requirements. | (a) - II.R. |
| | (a) Coverage for sudden accidental | |
| | occurrences. An owner or operator of a | |
| | hazardous waste treatment, storage, or disposal | |
| | facility, or a group of such facilities, must | |
| | demonstrate financial responsibility for bodily | |
| | injury and property damage to third parties | |
| | caused by sudden accidental occurrences | |
| | arising from operations of the facility or group | |
| | of facilities | |
| | The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| 264.148 | Incapacity of owners or operators, guarantors, | II.S. |
| 201.110 | or financial institutions. | 11.0. |
| | (a) An owner or operator must notify the | |
| | Regional Administrator by certified mail of the | |
| | commencement of a voluntary or involuntary | |
| | proceeding under Title 11 (Bankruptcy), U.S. | |
| | Code | |
| | FTL - C-11 44 - C4L: | |
| | [The full text of this regulation is not included | |
| 264 151 | in this checklist for the sake of brevity.] | ПО |
| 264.151 | Wording of the instruments. | II.Q. |
| | • • • | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| | | |
| Subpart I | Use and Management of Containers | III.B.3. |
| 251470 | | |
| 264.170 | Applicability. | III.B.1. |
| | The regulations in this subpart apply to owners | |
| | and operators of all hazardous waste facilities | |
| | that store containers of hazardous waste, | |
| | except as § 264.1 provides otherwise. | |
| | [Comment: Under § 261.7 and § 261.33(c), if | |
| | a hazardous waste is emptied from a container | |
| | the residue remaining in the container is not | |

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| | considered a hazardous waste if the container | |
| | is "empty" as defined in § 261.7. In that event, | |
| | management of the container is exempt from | |
| | the requirements of this subpart.] | |
| 264.171 | Condition of containers. | II.E.4. |
| | If a container holding hazardous waste is not in | III.C. |
| | good condition (e.g., severe rusting, apparent | III.F.2.d. |
| | structural defects) or if it begins to leak, the | III.H.1. |
| | owner or operator must transfer the hazardous | IV.C.1. |
| | waste from this container to a container that is | |
| | in good condition or manage the waste in some | |
| | other way that complies with the requirements | |
| | of this part. | |
| 264.172 | Compatibility of waste with containers. | III.D.1. |
| | The owner or operator must use a container | III.D.2. |
| | made of or lined with materials which will not | III.D.4. |
| | react with, and are otherwise compatible with, | |
| | the hazardous waste to be stored, so that the | |
| | ability of the container to contain the waste is | |
| 264.172 | not impaired. | HI E 2 |
| 264.173 | Management of containers. | III.E.3.c. |
| | (a) A container holding hazardous waste must | () HI F 1 |
| | always be closed during storage, except when | (a) - III.E.1. |
| | it is necessary to add or remove waste. | (b) III E 2 |
| | (b) A container holding hazardous waste must | (b) - III.E.2. |
| | not be opened, handled, or stored in a manner | III.E.3.b. |
| | which may rupture the container or cause it to leak. | |
| | [Comment: Reuse of containers in | |
| | transportation is governed by U.S. Department | |
| | of Transportation regulations including those | |
| | set forth in 49 CFR 173.28.] | |
| 264.174 | Inspections. | III.H.3. |
| 201.171 | At least weekly, the owner or operator must | 111.11.5. |
| | inspect areas where containers are stored, | |
| | except for Performance Track member | |
| | facilities, | |
| | , | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| 264.175 | Containment. | III.I.5.a. |
| | (a) Container storage areas must have a | III.K.4. |
| | containment system that is designed and | |
| | operated in accordance with paragraph (b) of | (b) III.F.1. |
| | this section, except as otherwise provided by | III.F.2.c. |
| | paragraph (c) of this section. | |
| | (b) A containment system must be designed | (b)(3) - III.B.2. |
| | and operated as follows: | (b)(5) - III.F.2.a. |
| | | |

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| | [The full text of this regulation is not included | (c) - III.F.1. |
| | in this checklist for the sake of brevity.] | III.I.5.b. |
| 264.176 | Special requirements for ignitable or reactive | III.D.4. |
| | waste. | III.I.3. |
| | Containers holding ignitable or reactive waste | III.J.1. |
| | must be located at least 15 meters (50 feet) | III.J.2. |
| | from the facility's property line. | |
| | [Comment: See § 264.17(a) for additional | |
| 264 177 | requirements.] | III D 4 |
| 264.177 | Special requirements for incompatible wastes. | III.D.4.
III.I.4. |
| | (a) Incompatible wastes, or incompatible | 111.1.4. |
| | wastes and materials (see appendix V for examples), must not be placed in the same | (a) – III.J.2. |
| | container, unless § 264.17(b) is complied with. | (a) – 111.3.2.
III.K.1. |
| | container, unless § 204.17(0) is complied with. | 111.1X.1. |
| | | (c) – III.K.3. |
| | [The full text of this regulation is not included | (c) 111.1K.3. |
| | in this checklist for the sake of brevity.] | |
| 264.178 | Closure. | III.B.4. |
| | At closure, all hazardous waste and hazardous | III.L.1. |
| | waste residues must be removed from the | III.L.2. |
| | containment system. Remaining containers, | |
| | liners, bases, and soil containing or | |
| | contaminated with hazardous waste or | |
| | hazardous waste residues must be | |
| | decontaminated or removed. | |
| | [Comment: At closure, as throughout the | |
| | operating period, unless the owner or operator | |
| | can demonstrate in accordance with § 261.3(d) | |
| | of this chapter that the solid waste removed | |
| | from the containment system is not a | |
| | hazardous waste, the owner or operator | |
| | becomes a generator of hazardous waste and | |
| | must manage it in accordance with all | |
| | applicable requirements of parts 262 through 266 of this chapter]. | |
| 264.179 | Air emission standards. | III.G.1. |
| 204.177 | The owner or operator shall manage all | 111.0.1. |
| | hazardous waste placed in a container in | |
| | accordance with the applicable requirements of | |
| | subparts AA, BB, and CC of this part. | |
| | , , , | |
| Subpart J | Tank Systems | IV.B.3. |
| 264.191 | Assessment of existing tank system's integrity. | I.K.8.a. |
| | | I.K.8.b. |
| | (a) For each existing tank system that does not | IV.A.1. |
| | have secondary containment meeting the | IV.J.1. |
| | requirements of §264.193, the owner or | |

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| | operator must determine that the tank system is | , , |
| | not leaking or is unfit for use. Except as | |
| | provided in paragraph (c) of this section, the | |
| | owner or operator must obtain and keep on file | |
| | at the facility a written assessment reviewed | |
| | and certified by a qualified Professional | |
| | Engineer, in accordance with §270.11(d) of | |
| | this chapter, that attests to the tank system's integrity by January 12, 1988 | |
| | integrity by January 12, 1988 | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| 264.192 | Design and installation of new tank systems or | IV.A.1. |
| | components. | IV.B.2. |
| | (a) Owners or operators of new tank systems or | IV.B.4.a. |
| | components must obtain and submit to the | IV.B.4.b. |
| | Regional Administrator, at time of submittal of | |
| | part B information, a written assessment, | (a) – IV.B.4. |
| | reviewed and certified by a qualified | |
| | Professional Engineer, in accordance with | |
| | § 270.11(d) of this chapter, attesting that the | |
| | tank system has sufficient structural integrity | |
| | and is acceptable for the storing and treating of | |
| | hazardous waste. The assessment must show | |
| | • | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| 264.193 | Containment and detection of releases. | I.K.7. |
| | (a) In order to prevent the release of hazardous | IV.F.1. |
| | waste or hazardous constituents to the | IV.F.6.a. |
| | environment, secondary containment that | |
| | meets the requirements of this section must be | (b)(1) - IV.F.3. |
| | provided (except as provided in paragraphs (f) | |
| | and (g) of this section): | (e) - IV.F.4. |
| | [The full text of this regulation is not included | (e)(1) - IV.F.7. |
| | in this checklist for the sake of brevity.] | |
| | | (e)(1)(i), (ii), (iii)
and (iv) - IV.F.2. |
| | | (e)(1)(iii) – IV.F.3. |
| | | (e)(3) - IV.F.5. |
| | | |
| | | (i) - I.K.8.a. |
| | | I.K.8.b. |
| | | IV.F.6.b.i. |
| | | IV.H.2.d. |

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| | | (i)(4) – IV.J.5. |
| | | (i)(5) – IV.H.10. |
| 264.194 | General operating requirements. (a) Hazardous wastes or treatment reagents must not be placed in a tank system if they could cause the tank, its ancillary equipment, or the containment system to rupture, leak, corrode, or otherwise fail. (b) The owner or operator must use appropriate controls and practices to prevent spills and overflows from tank or containment systems. These include at a minimum: [The full text of this regulation is not included] | (a) - IV.D.1.
(b) - IV.E.1.
IV.E.2. |
| 264.195 | in this checklist for the sake of brevity.] Inspections. (a) The owner or operator must develop and follow a schedule and procedure for inspecting overfill controls. (b) The owner or operator must inspect at least once each operating day data gathered from monitoring and leak detection equipment (e.g., pressure or temperature gauges, monitoring wells) to ensure that the tank system is being operated according to its design [The full text of this regulation is not included in this checklist for the sake of brevity.] | IV.H.3. (b) - IV.H.4. (c)(1) - IV.H.2.a. (c)(2) - IV.H.2.b. (f) - IV.F.6.b.ii. (f)(1)-(4) - IV.H.2.c. (h) - IV.J.6. |
| 264.196 | Response to leaks or spills and disposition of leaking or unfit-for-use tank systems. A tank system or secondary containment system from which there has been a leak or spill, or which is unfit for use, must be removed from service immediately, and the owner or operator must satisfy the following requirements: (a) Cessation of use; prevent flow or addition of wastes [The full text of this regulation is not included in this checklist for the sake of brevity.] | (a) - IV.I.1.a.
(b) - IV.I.1.b.
(c) - IV.I.1.c.ii.
(d)(1) - IV.J.2.
(d)(2) - IV.J.2.
(d)(3) - IV.J.3.e.
(e)(2) - IV.I.1.d.i.
(e)(3) - IV.I.1.d.ii. |

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| | | (e)(4) – IV.I.1.d.iii. |
| | | (O 11/11) |
| | | (f) – IV.I.1.e.
IV.J.4. |
| 264.197 | Closure and post-closure care. | (a) - IV.M.1. |
| 201.177 | (a) At closure of a tank system, the owner or | (b) - IV.M.2. |
| | operator must remove or decontaminate all | (c) - I.K.9. |
| | waste residues, contaminated containment | IV.F.6.b.iii. |
| | system components (liners, etc.), contaminated | IV.M.3. |
| | soils, and structures and equipment | ()(2) HD 1 |
| | contaminated with waste, and manage them as | (c)(3) - II.P.1. |
| | hazardous waste, unless § 261.3(d) of this chapter applies. The closure plan, closure | (c)(5) - II.P.1. |
| | activities, cost estimates for closure, and | (C)(S) = 11.1 .1. |
| | financial responsibility for tank systems must | |
| | meet all of the requirements specified in | |
| | subparts G and H of this part. | |
| | (b) If the owner or operator demonstrates that | |
| | not all contaminated soils can be practicably | |
| | removed or decontaminated as required in paragraph (a) of this section, then | |
| | paragraph (a) of this section, then | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| 264.198 | Special requirements for ignitable or reactive | (a) - IV.K.1.iii. |
| | wastes. | (-)(1)(:) P- (::) |
| | (a) Ignitable or reactive waste must not be placed in tank systems, unless: | (a)(1)(i) & (ii) –
IV.K.1.i. |
| | (1) The waste is treated, rendered, or mixed | 1 V .IX. 1 .1. |
| | before or immediately after placement in the | (b) - IV.K.2. |
| | tank system so that: | |
| | | |
| | [The full text of this regulation is not included | |
| 264 100 | in this checklist for the sake of brevity.] | (a) IVI 1 |
| 264.199 | Special requirements for incompatible wastes. (a) Incompatible wastes, or incompatible | (a) - IV.L.1.
(b) - IV.L.2. |
| | wastes and materials, must not be placed in the | (0) 11.1.2. |
| | same tank system, unless § 264.17(b) is | |
| | complied with. | |
| | (b) Hazardous waste must not be placed in a | |
| | tank system that has not been decontaminated | |
| | and that previously held an incompatible waste or material, unless § 264.17(b) is complied | |
| | with. | |
| 264.228 | [The full text of this regulation is not included | (c)(2) - II.P.1. |
| | in this checklist for the sake of brevity.] | |
| | | |
| | ··· | |
| | (c) | |

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| | [The full text of this regulation is not included in this checklist for the sake of brevity.] (2) The cost estimates calculated under | |
| | §§264.142 and 264.144 for closure and post-
closure care of an impoundment subject to this | |
| | paragraph must include the cost of complying with the contingent closure plan and the contingent post-closure plan, but are not required to include the cost of expected closure under paragraph (a)(1) of this section | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 264.258 | [The full text of this regulation is not included in this checklist for the sake of brevity.] | II.P.1. |
| | (c) | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| | (2) The cost estimates calculated under §§264.142 and 264.144 for closure and post-closure care of a pile subject to this paragraph must include the cost of complying with the contingent closure plan and the contingent post-closure plan, but are not required to include the cost of expected closure under paragraph (a) of this section | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| | | |
| Subpart O
264.341 | Incinerators Waste analysis. | V.A.3. |
| 204.341 | waste analysis. | (b) - V.C.1.iii. |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| | (b) Throughout normal operation the owner or operator must conduct sufficient waste analysis to verify that waste feed to the incinerator is within the physical and chemical composition limits specified in his permit (under § 264.345(b)). | |

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| 264.344 | Hazardous waste incinerator permits. | (a)(1) - I.K.1.b. |
| | (a) The owner or operator of a hazardous waste incinerator may burn only wastes specified in his permit and only under operating conditions specified for those wastes under §264.345, except: | |
| | (1) In approved trial burns under §270.62 of this chapter | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 264.345 | Operating requirements. | (d) – V.E.1. |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| | (d) Fugitive emissions from the combustion zone must be controlled by:(1) Keeping the combustion zone totally sealed | |
| | against fugitive emissions; or (2) Maintaining a combustion zone pressure lower than atmospheric pressure; or (3) An alternate means of control demonstrated (with part B of the permit application) to provide fugitive emissions control equivalent to maintenance of combustion zone pressure lower than atmospheric pressure | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 264.347 | Monitoring and inspections. (a) The owner or operator must conduct, as a minimum, the following monitoring while | (a)(3) $-$ V.I.
(b) $-$ V.F.2. |
| | incinerating hazardous waste: (1) Combustion temperature, waste feed rate, and the indicator of combustion gas velocity | (c) – V.C.5.ix. |
| | specified in the facility permit must be monitored on a continuous basis. (2) CO must be monitored on a continuous basis at a point in the incinerator downstream of the combustion zone and prior to release to the atmosphere. | (d) – V.C.5.ix.
V.G.1 |
| | (3) Upon request by the Regional Administrator, sampling and analysis of the waste and exhaust emissions must be | |

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| | conducted to verify that the operating | |
| | requirements established in the permit achieve | |
| | the performance standards of §264.343. | |
| | (b) The incinerator and associated equipment | |
| | (pumps, valves, conveyors, pipes, etc.) must be | |
| | subjected to thorough visual inspection, at least | |
| | daily, for leaks, spills, fugitive emissions, and | |
| | signs of tampering. | |
| | (c) The emergency waste feed cutoff system | |
| | and associated alarms must be tested at least | |
| | weekly to verify operability, unless the | |
| | applicant demonstrates to the Regional | |
| | Administrator that weekly inspections will | |
| | unduly restrict or upset operations and that less | |
| | frequent inspection will be adequate. At a | |
| | minimum, operational testing must be | |
| | conducted at least monthly. | |
| | (d) This monitoring and inspection data must | |
| | be recorded and the records must be placed in | |
| | the operating record required by § 264.73 of | |
| | this part and maintained in the operating record | |
| | for five years. | |
| 264.351 | Closure. | V.H.1. |
| | At closure the owner or operator must remove | |
| | all hazardous waste and hazardous waste | |
| | residues (including, but not limited to, ash, | |
| | scrubber waters, and scrubber sludges) from | |
| | the incinerator site | |
| | | |
| | [The comment accompanying this regulation is | |
| | not included in this checklist for the sake of | |
| | brevity.] | |
| | | |
| Subpart X | Miscellaneous Units | XX 4 4 |
| 264.600 | Applicability. | V.A.1. |
| | The requirements in this subpart apply to | V.A.2. |
| | owners and operators of facilities that treat, | V.A.3. |
| | store, or dispose of hazardous waste in | |
| | miscellaneous units, except as § 264.1 | |
| 264.601 | provide[s] otherwise. | 37 A 1 |
| 264.601 | Environmental performance standards. | V.A.1. |
| | A miscellaneous unit must be located, | V.A.2. |
| | designed, constructed, operated, maintained, | V.A.3. |
| | and closed in a manner that will ensure | |
| | protection of human health and the | |
| | environment. Permits for miscellaneous units | |
| | are to contain such terms and provisions as | |
| | necessary to protect human health and the | |
| | environment, including, but not limited to, as | |

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| | appropriate, design and operating | , , |
| | requirements, detection and monitoring | |
| | requirements, and requirements for responses | |
| | to releases of hazardous waste or hazardous | |
| | constituents from the unit. Permit terms and | |
| | provisions must include those requirements of | |
| | subparts I through O and subparts AA through | |
| | CC of this part, part 270, part 63 subpart EEE, | |
| | and part 146 of this chapter that are appropriate | |
| | for the miscellaneous unit being permitted. | |
| | Protection of human health and the | |
| | environment includes, but is not limited to: | |
| | (a) Prevention of any releases that may have | |
| | adverse effects on human health or the | |
| | environment due to migration of waste | |
| | constituents in the ground water or subsurface | |
| | environment, considering: | |
| | | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| | , , | |
| | (b) Prevention of any releases that may have | |
| | adverse effects on human health or the | |
| | environment due to migration of waste | |
| | constituents in surface water, or wetlands or on | |
| | the soil surface considering: | |
| | | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| | | |
| | (c) Prevention of any release that may have | |
| | adverse effects on human health or the | |
| | environment due to migration of waste | |
| | constituents in the air, considering: | |
| | | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| 264.602 | Monitoring, analysis, inspection, response, | V.A.1. |
| | reporting, and corrective action. | V.A.2. |
| | Monitoring, testing, analytical data, | V.A.3. |
| | inspections, response, and reporting procedures | |
| | and frequencies must ensure compliance with | |
| | §§ 264.601, 264.15, 264.33, 264.75, 264.76, | |
| | 264.77, and 264.101 as well as meet any | |
| | additional requirements needed to protect | |
| | human health and the environment as specified | |
| | in the permit. | |
| 264.603 | Post-closure care. | V.A.1. |
| | | V.A.2. |

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| | A miscellaneous unit that is a disposal unit | V.A.3. |
| | must be maintained in a manner that complies | |
| | with § 264.601 during the post-closure care | |
| | period. In addition, if a treatment or storage | |
| | unit has contaminated soils or ground water that cannot be completely removed or | |
| | decontaminated during closure, then that unit | |
| | must also meet the requirements of § 264.601 | |
| | during post-closure care. The post-closure plan | |
| | under § 264.118 must specify the procedures | |
| | that will be used to satisfy this requirement. | |
| Subpart AA | Air Emissions Standards for Process Vents | |
| 264.1031 | [The full text of this regulation is not included | II.M.4. |
| | in this checklist for the sake of brevity.] | |
| | Equipment means each valve, pump, | |
| | compressor, pressure relief device, sampling | |
| | connection system, open-ended valve or line, | |
| | or flange or other connector, and any control | |
| | devices or systems required by this subpart | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| Subpart BB | Air Emissions Standards for Equipment Leaks. | I.K.10.a. |
| Suopart BB | 7 III Dinissions Standards for Equipment Leaks. | II.H.4. |
| | | IV.G.1. |
| | | IV.G.2.b. |
| | | IV.G.2.c. |
| | | IV.G.3. |
| 264.1050 | [The full text of this regulation is not included | Table IV-2. III.G.6. |
| 204.1030 | [The full text of this regulation is not included in this checklist for the sake of brevity.] | 111.0.6. |
| | (b) Except as provided in §264.1064(k), this | |
| | subpart applies to equipment that contains or | |
| | contacts hazardous wastes with organic | |
| | concentrations of at least 10 percent by weight | |
| | that are managed in one of the following: | |
| | [The full text of this regulation is not included | |
| 264 1060 | in this checklist for the sake of brevity.] | W. L.O. |
| 264.1060 | Standards: Closed-vent systems and control | IV.J.8. |
| | devices. | |
| | (a) Owners and operators of closed-vent systems and control devices subject to this | |
| | subpart shall comply with the provisions of | |
| | § 264.1033 of this part. | |
| 1 | , · · l | |

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| | | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 264.1063 | Test methods and procedures. (a) Each owner or operator subject to the provisions of this subpart shall comply with the test methods and procedures requirements provided in this section. [The full text of this regulation is not included in this checklist for the sake of brevity.] (d) In accordance with the waste analysis plan required by § 264.13(b), an owner or operator of a facility must determine, for each piece of equipment, whether the equipment contains or contacts a hazardous waste with organic concentration that equals or exceeds 10 percent by weight using the following: [The full text of this regulation is not included in this checklist for the sake of brevity.] (f) When an owner or operator and the Regional Administrator do not agree on whether a piece of equipment contains or contacts a hazardous waste with organic concentrations at least 10 percent by weight, the procedures in paragraph (d)(1) or (d)(2) of this section can be used to resolve the dispute. | II.C.8. (d) – I.K.10.b. I.K.10.c. III.G.6. (d)(1) – I.K.10.e. (d)(2) – I.K.10.e. (f) II.H.4. |
| 264.1064 | in this checklist for the sake of brevity.] Recordkeeping requirements. (a)(1) Each owner or operator subject to the provisions of this subpart shall comply with the recordkeeping requirements of this section [The full text of this regulation is not included in this checklist for the sake of brevity.] (k) The following information shall be recorded in a log that is kept in the facility operating record for use in determining exemptions as provided in the applicability section of this subpart and other specific subparts: | II.M.1.b. II.M.4. IV.J.8. (k) – III.G.6. (m) - I.K.10.d. IV.G.10. Table IV-2. |

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| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| | (m) The owner or operator of a facility with equipment that is subject to this subpart and to regulations at 40 CFR part 60, part 61, or part 63 may elect to determine compliance with this subpart either by documentation pursuant to § 264.1064 of this subpart, or by documentation of compliance with the regulations at 40 CFR part 60, part 61, or part 63 pursuant to the relevant provisions of the regulations at 40 part 60, part 61, or part 63. The documentation of compliance under regulations at 40 CFR part 60, part 61, or part 63 shall be kept with or made readily available with the facility operating record. | |
| 264.1065 | Reporting requirements. (a) A semiannual report shall be submitted by owners and operators subject to the requirements of this subpart to the Regional Administrator by dates specified by the Regional Administrator. The report shall include the following information: | II.M.4. |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| Subpart CC | Air Emissions Standards for Tanks, Surface
Impoundments and Containers | III.G.1.
IV.G.8.
Table IV-2. |
| 264.1080 | [The full text of this regulation is not included in this checklist for the sake of brevity.] (b) The requirements of this subpart do not apply to the following waste management units at the facility: [The full text of this regulation is not included in this checklist for the sake of brevity.] (7) A hazardous waste management unit that the owner or operator certifies is equipped with and operating air emission controls in accordance with the requirements of an applicable Clean Air Act regulation codified under 40 CFR part 60, part 61, or part 63. For the purpose of complying with this paragraph, a tank for which the air emission control | (b)(7) – IV.G.6. |

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| | includes an enclosure, as opposed to a cover, | |
| | must be in compliance with the enclosure and | |
| | control device requirements of §264.1084(i), except as provided in §264.1082(c)(5) | |
| | except as provided in \$204.1002(c)(3) | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| 264.1082 | Standards: General. | III.G.3. |
| | [The full text of this regulation is not included | IV.G.6.
Table IV-2. |
| | in this checklist for the sake of brevity.] | 1 aute 1 v - 2. |
| | (b) The owner or operator shall control air | (c) – III.G.2. |
| | pollutant emissions from each hazardous waste | IV.G.8. |
| | management unit in accordance with standards | |
| | specified in §§ 264.1084 through 264.1087 of | (c)(1) - IV.G.6. |
| | this subpart, as applicable to the hazardous waste management unit, except as provided for | IV.G.8.a.iv.
Table IV-2. |
| | in paragraph (c) of this section. | V.E.2. |
| | The first of the second of | ,,_,_, |
| | (c) A tank, surface impoundment, or container | (c)(2) - III.G.4. |
| | is exempt from standards specified in | () (2) () () |
| | § 264.1084 through § 264.1087 of this subpart, | (c)(2)(i)-(vi) - |
| | as applicable, provided that the waste management unit is one of the following: | IV.G.7. |
| | management unit is one of the following. | (d) – II.C.9. |
| | (1) A tank, surface impoundment, or container | |
| | for which all hazardous waste entering the unit | |
| | has an average VO concentration at the point | |
| | of waste origination of less than 500 parts per | |
| | million by weight (ppmw) [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| | and suite of oretray. | |
| | (2) A tank, surface impoundment, or container | |
| | for which the organic content of all the | |
| | hazardous waste entering the waste | |
| | management unit has been reduced by an organic destruction or removal process that | |
| | achieves any one of the following conditions: | |
| | | |
| | | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| | (d) The Regional Administrator may at any | |
| | time perform or request that the owner or | |
| | operator perform a waste determination for a | |
| | hazardous waste managed in a tank, surface | |
| | impoundment, or container exempted from | |

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| | using air emission controls under the | |
| | provisions of this section as follows: | |
| | | |
| | [The full text of this regulation is not included | |
| 264 1002 | in this checklist for the sake of brevity.] | HI C 2 |
| 264.1083 | Waste determination procedures. | III.G.3. |
| | (a) Waste determination procedure to determine average volatile organic (VO) | III.G.4.
IV.G.6. |
| | concentration of a hazardous waste at the point | 1V.G.0. |
| | of waste origination. | (a) - III.G.2. |
| | of waste origination. | IV.G.6. |
| | [The full text of this regulation is not included | 17.0.0. |
| | in this checklist for the sake of brevity.] | (b) - IV.G.7. |
| | , | (*) |
| | (b) Waste determination procedures for treated | |
| | hazardous waste | |
| | | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| 264.1084 | Standards: Tanks. | IV.H.6. |
| | (a) The provisions of this section apply to the | Table IV-2. |
| | control of air pollutant emissions from tanks | (b)(1)(i) (iii) |
| | for which §264.1082(b) of this subpart references the use of this section for such air | (b)(1)(i) – (iii) –
IV.G.8.a.i. |
| | emission control. | IV.G.8.a.ii. |
| | (b) The owner or operator shall control air | 1 v . O . O . a . 11 . |
| | pollutant emissions from each tank subject to | (b)(2) – IV.G.8.a.ii. |
| | this section in accordance with the following | (-)(-) |
| | requirements as applicable: | (c) – IV.G.8.a.i. |
| | (1) For a tank that manages hazardous waste | |
| | that meets all of the conditions specified in | (d) - IV.G.8.a.i. |
| | paragraphs (b)(1)(i) through (b)(1)(iii) of this | IV.G.8.a.ii. |
| | section, the owner or operator shall | () WIGO |
| | | (g) - IV.G.8.a.iii. |
| | [The full text of this regulation is not included | (i) IV C 9 o iv |
| | in this checklist for the sake of brevity.] | (j) - IV.G.8.a.iv. |
| | (2) For a tank that manages hazardous waste | (k) - IV.I.2. |
| | that does not meet all of the conditions | (K) 1 V.1.2. |
| | specified in paragraphs (b)(1)(i) through | |
| | (b)(1)(iii) of this section, the owner or operator | |
| | shall | |
| | | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |
| | | |
| | (c) Owners and operators controlling air | |
| | pollutant emissions from a tank using Tank | |
| | Level 1 controls shall meet the requirements | |

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| | specified in paragraphs (c)(1) through (c)(4) of this section: | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| | (d) Owners and operators controlling air pollutant emissions from a tank using Tank Level 2 controls shall use one of the following tanks: | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| | (g) The owner or operator who controls air pollutant emissions from a tank by venting the tank to a control device shall meet the requirements specified in paragraphs (g)(1) through (g)(3) of this section. | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| | (j) The owner or operator shall transfer hazardous waste to a tank subject to this section in accordance with the following requirements: | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| | (k) The owner or operator shall repair each defect detected during an inspection performed in accordance with the requirements of paragraph (c)(4), (e)(3), (f)(3), or (g)(3) of this section as follows: | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 264.1086 | Standards: Containers. (a) The provisions of this section apply to the control of air pollutant emissions from containers for which §264.1082(b) of this subpart references the use of this section for such air emission control. | III.I.1. (b) - III.G.5.b. III.G.5.c. III.G.5.d. |
| | (b) General requirements. (1) The owner or operator shall control air pollutant emissions from each container subject to this section in accordance with the following requirements, as | (c) - III.G.5.b.
(c)(4) – III.H.5.a.iii. |

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| applicable to the container, except when the special provisions for waste stabilization | (c)(4)(iii) –
III.H.5.a.ii. |
| processes specified in paragraph (b)(2) of this section apply to the container | (d) - III.G.5.c. |
| [The full text of this regulation is not included in this checklist for the sake of brevity.] | (d)(4) – III.H.5.b. |
| | (e) - III.G.5.d. |
| container using Container Level 1 controls is one of the following: | (e)(4) – III.H.5.c. |
| [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| (d) Container Level 2 standards. (1) A container using Container Level 2 controls is one of the following: | |
| [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| (e) Container Level 3 standards. (1) A container using Container Level 3 controls is one of the following: | |
| [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| Standards: Closed-vent systems and control devices. (a) This section applies to each closed-vent system and control device installed and operated by the owner or operator to control air emissions in accordance with standards of this subpart | IV.G.1.
Table IV-2. |
| [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| Inspection and monitoring requirements. (a) The owner or operator shall inspect and monitor air emission control equipment used to comply with this subpart in accordance with the applicable requirements specified in § 264.1084 through § 264.1087 of this subpart. (b) The owner or operator shall develop and implement a written plan and schedule to perform the inspections and monitoring required by paragraph (a) of this section. The | III.H.4.
IV.G.1. |
| | special provisions for waste stabilization processes specified in paragraph (b)(2) of this section apply to the container [The full text of this regulation is not included in this checklist for the sake of brevity.] (c) Container Level 1 standards. (1) A container using Container Level 1 controls is one of the following: [The full text of this regulation is not included in this checklist for the sake of brevity.] (d) Container Level 2 standards. (1) A container using Container Level 2 controls is one of the following: [The full text of this regulation is not included in this checklist for the sake of brevity.] (e) Container Level 3 standards. (1) A container using Container Level 3 controls is one of the following: [The full text of this regulation is not included in this checklist for the sake of brevity.] Standards: Closed-vent systems and control devices. (a) This section applies to each closed-vent system and control device installed and operated by the owner or operator to control air emissions in accordance with standards of this subpart [The full text of this regulation is not included in this checklist for the sake of brevity.] Inspection and monitoring requirements. (a) The owner or operator shall inspect and monitor air emission control equipment used to comply with this subpart in accordance with the applicable requirements specified in § 264.1084 through § 264.1087 of this subpart. (b) The owner or operator shall develop and implement a written plan and schedule to |

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| | and schedule into the facility inspection plan | |
| | required under 40 CFR 264.15. | |
| 264.1089 | Recordkeeping requirements. | II.M.2. |
| | (a) Each owner or operator of a facility subject | III.I.1. |
| | to requirements of this subpart shall record and | IV.G.1. |
| | maintain the information specified in | |
| | paragraphs (b) through (j) of this section, as | (f)(1) - IV.G.4. |
| | applicable to the facility | Table IV-2. |
| | | |
| | [The full text of this regulation is not included | (j) - IV.G.10. |
| | in this checklist for the sake of brevity.] | Table IV-2. |
| 264.1090 | Reporting requirements. | II.M.2. |
| | (a) Each owner or operator managing | III.I.2. |
| | hazardous waste in a tank, surface | IV.G.1. |
| | impoundment, or container exempted from | |
| | using air emission controls under the | (a) - IV.G.4. |
| | provisions of § 264.1082(c) of this subpart | Table IV-2. |
| | shall report to the Regional Administrator each | |
| | occurrence when hazardous waste is placed in | |
| | the waste management unit in noncompliance | |
| | with the conditions specified in § 264.1082 | |
| | (c)(1) or $(c)(2)$ of this subpart, as applicable | |
| | | |
| | [The full text of this regulation is not included | |
| | in this checklist for the sake of brevity.] | |

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| Part 270 | | VI.G.4. |
| Subpart A | | |
| 270.1 | Purpose and scope of these regulations. (a) Coverage. (1) These permit regulations establish provisions for the Hazardous Waste Permit Program under Subtitle C of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act of 1976, as amended (RCRA), (Pub. L. 94-580, as amended by Pub. L. 95-609 and by Pub. L. 96-482; 42 U.S.C. 6091 et seq.). They apply to EPA and to approved States to the extent provided in part 271 [The full text of this regulation is not included in this checklist for the sake of brevity.] | (c) - I.A.1
II.A.2.
II.A.5. |
| | (c) Scope of the RCRA permit requirement. RCRA requires a permit for the "treatment," "storage," and "disposal" of any "hazardous waste" as identified or listed in 40 CFR part 261. [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 270.3 | Considerations under Federal law. The following is a list of Federal laws that may apply to the issuance of permits under these rules. When any of these laws is applicable, its procedures must be followed. When the applicable law requires consideration or adoption of particular permit conditions or requires the denial of a permit, those requirements also must be followed. (a) The Wild and Scenic Rivers Act. 16 U.S.C. 1273 et seq. Section 7 of the Act prohibits the Regional Administrator from assisting by license or otherwise the construction of any water resources project that would have a direct, adverse effect on the values for which a national wild and scenic river was established. (b) The National Historic Preservation Act of 1966. 16 U.S.C. 470 et seq. Section 106 of the Act and implementing regulations (36 CFR part 800) require the Regional Administrator, before issuing a license, to adopt measures when feasible to mitigate potential adverse effects of the licensed activity and properties listed or eligible for listing in the National Register of Historic Places. The Act's requirements are to be implemented in cooperation with State Historic Preservation Officers and upon notice to, and | (a) EPA's analysis of the Wild and Scenic Rivers Act is described in Section 5.4.3. of this Statement of Basis. (b) EPA's National Historic Preservation Act (NHPA) Determination is described in Section 5.4.1. of this Statement of Basis, and included at Appendix C, hereto. |

| <u>i Erivii i</u> | | | |
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| | when appropriate, in consultation with the Advisory Council | (c) EPA's | |
| | on Historic Preservation. | Endangered | |
| | (c) The Endangered Species Act. 16 U.S.C. 1531 et seq. | Species Act | |
| | Section 7 of the Act and implementing regulations (50 CFR | (ESA) | |
| | part 402) require the Regional Administrator to ensure, in | Determination is | |
| | consultation with the Secretary of the Interior or Commerce, | described in | |
| | that any action authorized by EPA is not likely to jeopardize | Section 5.4.2. of | |
| | the continued existence of any endangered or threatened | this Statement of | |
| | species or adversely affect its critical habitat. | Basis, and | |
| | (d) The Coastal Zone Management Act. 16 U.S.C. 1451 et | included at | |
| | seq. Section 307(c) of the Act and implementing regulations | Appendix D. | |
| | (15 CFR part 930) prohibit EPA from issuing a permit for an | rippenam B. | |
| | activity affecting land or water use in the coastal zone until | (d) EPA's | |
| | the applicant certifies that the proposed activity complies | analysis of the | |
| | with the State Coastal Zone Management program, and the | Coastal Zone | |
| | State or its designated agency concurs with the certification | Management Act | |
| | (or the Secretary of Commerce overrides the State's | is described in | |
| | nonconcurrence). | Section 5.4.4. of | |
| | · · · · · · · · · · · · · · · · · · · | this Statement of | |
| | (e) The Fish and Wildlife Coordination Act. 16 U.S.C. 661 et | | |
| | seq. requires that the Regional Administrator, before issuing | Basis. | |
| | a permit proposing or authorizing the impoundment (with | () ED 4 2 | |
| | certain exemptions), diversion, or other control or | (e) EPA's | |
| | modification of any body of water, consult with the | analysis of the | |
| | appropriate State agency exercising jurisdiction over wildlife | Fish and Wildlife | |
| | resources to conserve those resources | Coordination Act | |
| | | is described in | |
| | [The full text of this regulation is not included in this | Section 5.4.5. of | |
| | checklist for the sake of brevity.] | this Statement of | |
| | | Basis. | |
| 270.4 | Effect of a permit. | I.A.1. | |
| | (a)(1) Compliance with a RCRA permit during its term | | |
| | constitutes compliance, for purposes of enforcement, with | (a)(1) - I.A.8. | |
| | subtitle C of RCRA except for those requirements not | | |
| | included in the permit which: | (a)(1)(i)-(iv) | |
| | (i) Become effective by statute; | I.A.4. | |
| | (ii) Are promulgated under part 268 of this chapter | II.A.2. | |
| | restricting the placement of hazardous wastes in or on the | II.A.5. | |
| | land; | | |
| | (iii) | | |
| | | | |
| | [The full text of this regulation is not included in this | | |
| | checklist for the sake of brevity.] | | |
| | should be the same of orevery. | | |
| | or | | |
| | (iv) Are promulgated under subparts AA, BB, or CC of part | | |
| | 265 of this chapter limiting air emissions | | |
| | 200 of this chapter minting an emissions | | |
| | | | |
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| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | (a)(2) - I.B.1. |
| | (2) A permit may be modified, revoked and reissued, or terminated during its term for cause as set forth in §§ 270.41 and 270.43, or the permit may be modified upon the request of the permittee as set forth in § 270.42. | |
| | | (b) - I.A.2. |
| | (b) The issuance of a permit does not convey any property rights of any sort, or any exclusive privilege. | (a) IA2 |
| | (c) The issuance of a permit does not authorize any injury to persons or property or invasion of other private rights, or any infringement of State or local law or regulations. | (c) - I.A.3. |
| 270.10 | General application requirements. | I.E.3. |
| | (a) Applying for a permit. Below is information on how to obtain a permit and where to find requirements for specific permits | (h) - I.E.2. |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| | (h) Reapplying for a permit. If you have an effective permit and you want to reapply for a new one, you have two options: | |
| | (1) You may submit a new application at least 180 days before the expiration date of the effective permit, unless the Director allows a later date; or | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 270.10(i) | Recordkeeping. Applicants shall keep records of all data used to complete permit applications and any supplemental information submitted under §§ 270.10(d), 270.13, 270.14 through 270.21 for a period of at least 3 years from the date the application is signed. | II.M.5.
Date application
signed: April 8,
2016. |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 270.11 | Signatories to permit applications and reports. (a) Applications | I.F. |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | (d) – I.K.8.a.
I.K.8.b.
IV.I.1.e. |

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| | (b) Reports. All reports required by permits and other information requested by the Director shall be signed by a person described in paragraph (a) of this section, or by a duly authorized representative of that person. A person is a duly authorized representative only if | Condition(s) |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| | (d)(1) Any person signing a document under paragraph (a) or (b) of this section must make the following certification | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 270.12 | Confidentiality of Information | I.H. |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 270.13 | Contents of part A of the permit application. | I.E.3.
VI.L.1. |
| | Part A of the RCRA application shall include the following information | VI.L.I. |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 270.14 | Contents of part B: General requirements. | I.E.3. |
| | (a) Part B of the permit application consists of the general information requirements of this section, and the specific information requirements in §§0.14 through 270.29 applicable to the facility | VI.L.1. |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 270.15 | Specific part B information requirements for containers. | VI.L.1. |
| | Except as otherwise provided in §264.170, owners or operators of facilities that store containers of hazardous waste must provide the following additional information | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 270.16 | Specific part B information requirements for tank systems. | VI.L.1. |
| | Except as otherwise provided in §264.190, owners and operators of facilities that use tanks to store or treat | |

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| | hazardous waste must provide the following additional information | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 270.17 | Specific part B information requirements for surface impoundments. | VI.L.1. |
| | Except as otherwise provided in §264.1, owners and operators of facilities that store, treat or dispose of hazardous waste in surface impoundments must provide the following additional information | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 270.18 | Specific part B information requirements for waste piles. | VI.L.1. |
| | Except as otherwise provided in §264.1, owners and operators of facilities that store or treat hazardous waste in waste piles must provide the following additional information | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 270.19 | Except as \$264.340 of this Chapter and \$270.19(e) provide otherwise, owners and operators of facilities that incinerate hazardous waste must fulfill the requirements of paragraphs (a), (b), or (c) of this section [The full text of this regulation is not included in this | VI.L.1. |
| 270.20 | checklist for the sake of brevity.] Specific part B information requirements for land treatment facilities. | VI.L.1. |
| | Except as otherwise provided in §264.1, owners and operators of facilities that use land treatment to dispose of hazardous waste must provide the following additional information | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 270.21 | Specific part B information requirements for landfills. Except as otherwise provided in §264.1, owners and operators of facilities that dispose of hazardous waste in | VI.L.1. |

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| | landfills must provide the following additional information | |
| | | |
| | | |
| | [The full text of this regulation is not included in this | |
| | checklist for the sake of brevity.] | |
| 270.22 | Specific part B information requirements for boilers and | VI.L.1. |
| | industrial furnaces burning hazardous waste. | |
| | | |
| | When an owner or operator of a cement kiln, lightweight | |
| | aggregate kiln, solid fuel boiler, liquid fuel boiler, or | |
| | hydrochloric acid production furnace becomes subject to | |
| | RCRA permit requirements after October 12, 2005, or when | |
| | an owner or operator of an existing cement kiln, lightweight | |
| | aggregate kiln, solid fuel boiler, liquid fuel boiler, or | |
| | hydrochloric acid production furnace demonstrates | |
| | compliance with the air emission standards and limitations in | |
| | part 63, subpart EEE, of this chapter (i.e., by conducting a | |
| | comprehensive performance test and submitting a | |
| | Notification of Compliance under §§63.1207(j) and | |
| | 63.1210(d) of this chapter documenting compliance with all | |
| | . , | |
| | applicable requirements of part 63, subpart EEE, of this | |
| | chapter), the requirements of this section do not apply. The | |
| | requirements of this section do apply, however, if the | |
| | Director determines certain provisions are necessary to | |
| | ensure compliance with §§266.102(e)(1) and | |
| | 266.102(e)(2)(iii) of this chapter if you elect to comply with | |
| | §270.235(a)(1)(i) to minimize emissions of toxic compounds | |
| | from startup, shutdown, and malfunction events; or if you are | |
| | an area source and elect to comply with the §\$266.105, | |
| | 266.106, and 266.107 standards and associated requirements | |
| | for particulate matter, hydrogen chloride and chlorine gas, | |
| | and non-mercury metals; or the Director determines certain | |
| | provisions apply, on a case-by-case basis, for purposes of | |
| | information collection in accordance with §§270.10(k), | |
| | 270.10(l), 270.32(b)(2), and 270.32(b)(3) | |
| | | |
| | [The full text of this regulation is not included in this | |
| | checklist for the sake of brevity.] | |
| 270.23 | Specific part B information requirements for miscellaneous | V.A.1. |
| | units. | V.A.2. |
| | | V.A.3. |
| | Except as otherwise provided in §264.600, owners and | V.C.1.iii. |
| | operators of facilities that treat, store, or dispose of | |
| | hazardous waste in miscellaneous units must provide the | |
| | following additional information | |
| | TOHOWING AUGITIONAL INTOLLIATION | |
| | [The full text of this regulation is not included in this | |
| | [The full text of this regulation is not included in this | |
| | checklist for the sake of brevity.] | |

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| Subpart C | PERMIT CONDITIONS | |
| 270.30(a) | Duty to comply. The permittee must comply with all conditions of this permit, except that the permittee need not comply with the conditions of this permit to the extent and for the duration such noncompliance is authorized in an emergency permit. (See § 270.61). Any permit noncompliance, except under the terms of an emergency permit, constitutes a violation of the appropriate Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. | I.E.1. |
| 270.30(b) | Duty to reapply. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. | I.B.2.
I.E.2. |
| 270.30(c) | Need to halt or reduce activity not a defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. | I.E.4. |
| 270.30(d) | In the event of noncompliance with the permit, the permittee shall take all reasonable steps to minimize releases to the environment, and shall carry out such measures as are reasonable to prevent significant adverse impacts on human health or the environment. | I.E.5. |
| 270.30(e) | Proper operation and maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit. | I.E.6. |
| 270.30(f) | Permit actions. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. | I.B.1. |
| 270.30(g) | Property rights. The permit does not convey any property rights of any sort, or any exclusive privilege. | I.A.2. |

| 40 CFR Section | Requirement | Permit Condition(s) |
|----------------|--|---|
| 270.30(h) | Duty to provide information. The permittee shall furnish to the Director, within a reasonable time, any relevant information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit. | I.E.7. |
| 270.30(i) | Inspection and entry. The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law to: (1) Enter at reasonable times upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit; (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit; (3) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and (4) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by RCRA, any substances or parameters at any location. | I.E.8. |
| 270.30(j) | Monitoring and records. (1) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. (2) The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, the certification required by § 264.73(b)(9) of this chapter, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report, certification, or application. This period may be extended by request of the Director at any time. The permittee shall maintain records from all ground-water monitoring wells and associated ground-water surface elevations, for the active life of the facility, and for disposal facilities for the post-closure care period as well. (3) Records for monitoring information shall include [The full text of this regulation is not included in this | (j)(1) I.E.9.a.
(j)(2) I.E.9.b.
(j)(3) I.E.9.c. |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |

| 40 CFR Section | Requirement | Permit Condition(s) |
|----------------|--|--|
| 270.30(k) | Signatory requirements. All applications, reports, or information submitted to the Director shall be signed and certified (See § 270.11.) | I.F. |
| 270.30(1) | Reporting requirements—(1) Planned changes. The permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility. (2) Anticipated noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. For a new facility, the permittee may not treat, store, or dispose of hazardous waste; and for a facility being modified, the permittee may not treat, store, or dispose of hazardous waste; and for a facility being modified, the permittee may not treat, store, or dispose of hazardous waste in the modified portion of the facility except as provided in § 270.42, until: (i) The permittee has submitted to the Director by certified mail or hand delivery a letter signed by the permittee and a registered professional engineer stating that the facility has been constructed or modified in compliance with the permit; and (ii)(A) The Director has inspected the modified or newly constructed facility and finds it is in compliance with the conditions of the permit; or (B) Within 15 days of the date of submission of the letter in paragraph (1)(2)(i) of this section, the permittee has not received notice from the Director of his or her intent to inspect, prior inspection is waived and the permittee may commence treatment, storage, or disposal of hazardous waste. (3) Transfers. This permit is not transferable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under RCRA. (See § 270.40) (4) Monitoring reports. Monitoring results shall be reported at the intervals specified elsewhere in this permit. (5) Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedul | (l)(1) I.E.10.
(l)(2) I.E.11.
(l)(3) I.E.12.
(l)(5) I.E.14.
(l)(6)(i)
I.E.13.a.
(l)(6)(iii)
I.E.13.b.
(l)(6)(iii)
I.E.13.c.
(l)(7) II.L.1.,
II.L.1.a.
(l)(8) II.L.1.,
II.L.1.b.
(l)(9) II.M.3.
(l)(10) I.E.15.
(l)(11) I.E.16. |

| 40 CFR Section | Requirement | Permit |
|----------------|---|--------------|
| 40 CFR Section | Requirement | Condition(s) |
| | (A) Information concerning release of any hazardous waste | Condition(s) |
| | | |
| | that may cause an endangerment to public drinking water | |
| | supplies. | |
| | (B) Any information of a release or discharge of hazardous | |
| | waste or of a fire or explosion from the HWM facility, which | |
| | could threaten the environment or human health outside the | |
| | facility. | |
| | (ii) The description of the occurrence and its cause shall | |
| | include: | |
| | (A) Name, address, and telephone number of the owner or | |
| | operator; | |
| | (B) Name, address, and telephone number of the facility; | |
| | (C) Date, time, and type of incident; | |
| | (D) Name and quantity of material(s) involved; | |
| | (E) The extent of injuries, if any; | |
| | (F) An assessment of actual or potential hazards to the | |
| | environment and human health outside the facility, where | |
| | this is applicable; and | |
| | (G) Estimated quantity and disposition of recovered material | |
| | that resulted from the incident. | |
| | (iii) A written submission shall also be provided within 5 | |
| | days of the time the permittee becomes aware of the | |
| | circumstances. The written submission shall contain a | |
| | description of the noncompliance and its cause; the period of | |
| | noncompliance including exact dates and times, and if the | |
| | noncompliance has not been corrected, the anticipated time it | |
| | is expected to continue; and steps taken or planned to reduce, | |
| | eliminate, and prevent reoccurrence of the noncompliance. | |
| | The Director may waive the five day written notice | |
| | requirement in favor of a written report within fifteen days. | |
| | (7) Manifest discrepancy report: If a significant discrepancy | |
| | in a manifest is discovered, the permittee must attempt to | |
| | reconcile the discrepancy. If not resolved within fifteen days, | |
| | the permittee must submit a letter report, including a copy of | |
| | the manifest, to the Director. (See 40 CFR 264.72.) | |
| | (8) <i>Unmanifested waste report</i> : This report must be | |
| | submitted to the Director within 15 days of receipt of | |
| | unmanifested waste. (See 40 CFR 264.76.) | |
| | (9) Biennial report: A biennial report must be submitted | |
| | covering facility activities during odd numbered calendar | |
| | years. (See 40 CFR 264.75.) | |
| | (10) Other noncompliance. The permittee shall report all | |
| | instances of noncompliance not reported under paragraphs | |
| | (1)(4), (5), and (6) of this section, at the time monitoring | |
| | reports are submitted. The reports shall contain the | |
| | information listed in paragraph (1)(6) of this section. | |
| | (11) Other information. Where the permittee becomes aware | |
| | that it failed to submit any relevant facts in a permit | |

| 40 CFR Section | Requirement | Permit Condition(s) |
|----------------|---|---|
| | application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information. | Condition(b) |
| 270.30(m) | Information repository. The Director may require the permittee to establish and maintain an information repository at any time, based on the factors set forth in 40 CFR 124.33(b). The information repository will be governed by the provisions in 40 CFR 124.33(c) through (f). | I.J.1.
I.J.2.
I.J.3.
I.K.12. |
| 270.31 | Requirements for recording and reporting of monitoring results. All permits shall specify: (a) Requirements concerning the proper use, maintenance, and installation, when appropriate, of monitoring equipment or methods (including biological monitoring methods when appropriate); (b) Required monitoring including type, intervals, and frequency sufficient to yield data which are representative of the monitored activity including, when appropriate, continuous monitoring; (c) Applicable reporting requirements based upon the impact of the regulated activity and as specified in parts 264, 266 and 267. Reporting shall be no less frequent than specified in the above regulations. | II.M See, also, Modules III through VI for more detail. |
| 270.32 | Establishing permit conditions. [The full text of this regulation is not included in this checklist for the sake of brevity.] (c) For a State issued permit, an applicable requirement is a State statutory or regulatory requirement which takes effect prior to final administrative disposition of a permit. For a permit issued by EPA, an applicable requirement is a statutory or regulatory requirement (including any interim final regulation) which takes effect prior to the issuance of the permit. Section 124.14 (reopening of comment period) provides a means for reopening EPA permit proceedings at the discretion of the Director where new requirements become effective during the permitting process and are of sufficient magnitude to make additional proceedings desirable. For State and EPA administered programs, an applicable requirement is also any requirement which takes effect prior to the modification or revocation and reissuance of a permit, to the extent allowed in §270.41 | I.A.8. |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |

| 40 CFR Section | Requirement | Permit Condition(s) |
|---------------------|---|-----------------------|
| 270.33(a) | The permit may, when appropriate, specify a schedule of compliance leading to compliance with the Act and regulations. | I.K. |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| Culturant D | Changes to Downits | |
| Subpart D
270.40 | Changes to Permits Transfer of permits. | I.E.12. |
| 270.40 | Transfer of permits. | 1.E.12. |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| 270.41 | Modification or revocation and reissuance of permits | I.B.1.
VI.A.4. |
| | [The full text of this regulation is not included in this | VI.K. |
| | checklist for the sake of brevity.] | VI.L.3. |
| 270.42 | | VI.M. |
| 270.42 | Permit modification at the request of the permittee. | I.B.1.
I.E.10. |
| | (a) Class 1 modifications. (1) Except as provided in | I.G.6.a. |
| | paragraph (a)(2) of this section, the permittee may put into | I.G.6.b. |
| | effect Class 1 modifications listed in appendix I of this | I.G.6.c. |
| | section under the following conditions | I.G.7.a. |
| | devices where the remaining constitutions in a | I.K.5.c. |
| | [The full text of this regulation is not included in this | II.A.4. |
| | checklist for the sake of brevity.] | II.K.3.b. |
| | | II.N.3.b |
| | (b) Class 2 modifications. (1) For Class 2 modifications, | II.N.3.c. |
| | listed in appendix I of this section, the permittee must submit | II.N.5. |
| | a modification request to the Director that | IV.B.2. |
| | | VI.E.2. |
| | [The full text of this regulation is not included in this | VI.K. |
| | checklist for the sake of brevity.] | (c) – VI.L.1. |
| | (c) Class 3 modifications. (1) For Class 3 modifications listed in appendix I of this section, the permittee must submit | (d) – I.G.7.b. |
| | a modification request to the Director that | Appendix I – I.G.7.a. |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| | (d) Other modifications. (1) In the case of modifications not explicitly listed in appendix I of this section, the permittee may submit a Class 3 modification request to the Agency, or he or she may request a determination by the Director that the modification should be reviewed and approved as a Class 1 or Class 2 modification. If the permittee requests that the | |

| 40.000.0 | | I |
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| 40 CFR Section | Requirement | Permit |
| | | Condition(s) |
| | modification be classified as a Class 1 or 2 modification, he | |
| | or she must provide the Agency with the necessary | |
| | information to support the requested classification. | |
| | | |
| | (2) The Director shall make the determination described in | |
| | paragraph (d)(1) of this section as promptly as practicable. In | |
| | determining the appropriate class for a specific modification, | |
| | the Director shall consider the similarity of the modification | |
| | to other modifications codified in appendix I and the | |
| | | |
| | following criteria | |
| | | |
| | [The full text of this regulation is not included in this | |
| | checklist for the sake of brevity.] | |
| | | |
| | Appendix I to §270.42—Classification of Permit | |
| | Modification | |
| | | |
| | [The full text of this regulation is not included in this | |
| | checklist for the sake of brevity.] | |
| 270.43 | Termination of permits. | I.B.1. |
| | • | VI.A.6. |
| | [The full text of this regulation is not included in this | |
| | checklist for the sake of brevity.] | |
| | | |
| Subpart E | Expiration and Continuation of Permits | |
| 270.50 | Duration of permits. | I.E.3. |
| _, | (a) RCRA permits shall be effective for a fixed term not to | 1.2.0. |
| | exceed 10 years. | |
| | (b) Except as provided in § 270.51, the term of a permit shall | |
| | | |
| | not be extended by modification beyond the maximum | |
| | duration specified in this section. | |
| | (c) The Director may issue any permit for a duration that is | |
| | less than the full allowable term under this section | |
| | | |
| | [The full text of this regulation is not included in this | |
| | checklist for the sake of brevity.] | |
| 270.51 | Continuation of expiring permits. | I.E.3. |
| | (a) EPA permits. When EPA is the permit-issuing authority, | |
| | the conditions of an expired permit continue in force under 5 | |
| | U.S.C. 558(c) until the effective date of a new permit (see | |
| | § 124.15) if: | |
| | (1) The permittee has submitted a timely application under | |
| | § 270.14 and the applicable sections in §§ 270.15 through | |
| | 270.29 which is a complete (under § 270.10(c)) application | |
| | for a new permit; and | |
| | (2) The Regional Administrator through no fault of the | |
| | permittee, does not issue a new permit with an effective date | |
| | permittee, does not issue a new permit with an effective date | |

| 40 CFR Section | Requirement | Permit Condition(s) |
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| | under § 124.15 on or before the expiration date of the previous permit (for example, when issuance is impracticable due to time or resource constraints) | Condition(s) |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |
| Subpart F | SPECIAL FORMS OF PERMITS | |
| 270.62 | Hazardous waste incinerator permits. | I.K.1.b.
VI.L.1. |
| | When an owner or operator of a hazardous waste incineration unit becomes subject to RCRA permit | |
| | requirements after October 12, 2005, or when an owner or operator of an existing hazardous waste incineration unit demonstrates compliance with the air emission standards and limitations in part 63, subpart EEE, of this chapter (i.e., by conducting a comprehensive performance test and submitting a Notification of Compliance under §§63.1207(j) and 63.1210(d) of this chapter documenting compliance with all applicable requirements of part 63, subpart EEE, of this chapter), the requirements of this section do not apply, except those provisions the Director determines are necessary to ensure compliance with §§264.345(a) and 264.345(c) of this chapter if you elect to comply with §270.235(a)(1)(i) to minimize emissions of toxic compounds from startup, shutdown, and malfunction events. Nevertheless, the Director may apply the provisions of this section, on a case-by-case basis, for purposes of information collection in accordance with §§270.10(k), 270.10(l), 270.32(b)(2), and 270.32(b)(3). | (b)(2) – I.K.1.c. |
| | (a) For the purposes of determining operational readiness following completion of physical construction, the Director must establish permit conditions, including but not limited to allowable waste feeds and operating conditions, in the permit to a new hazardous waste incinerator. These permit conditions will be effective for the minimum time required to bring the incinerator to a point of operational readiness to conduct a trial burn, not to exceed 720 hours operating time for treatment of hazardous waste. The Director may extend the duration of this operational period once, for up to 720 additional hours, at the request of the applicant when good cause is shown. The permit may be modified to reflect the extension according to §270.42 of this chapter | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | |

| 1 DAVIII | | | |
|----------------|---|---------------------|--|
| 40 CFR Section | Requirement | Permit Condition(s) | |
| | (b) For the purposes of determining feasibility of compliance with the performance standards of §264.343 of this chapter and of determining adequate operating conditions under §264.345 of this chapter, the Director must establish conditions in the permit for a new hazardous waste incinerator to be effective during the trial burn. (1) Applicants must propose a trial burn plan, prepared under paragraph (b)(2) of this section with a part B of the permit application. (2) The trial burn plan must include the following information [The full text of this regulation is not included in this checklist for the sake of brevity.] | | |
| 270.63 | Permits for land treatment demonstrations using field test or laboratory analyses. (a) For the purpose of allowing an owner or operator to meet the treatment demonstration requirements of §264.272 of this chapter, the Director may issue a treatment demonstration permit. The permit must contain only those requirements necessary to meet the standards in §264.272(c). The permit may be issued either as a treatment or disposal permit covering only the field test or laboratory analyses, or as a two-phase facility permit covering the field tests, or laboratory analyses, and design, construction operation and maintenance of the land treatment unit | VI.L.1. | |
| | [The full text of this regulation is not included in this checklist for the sake of brevity.] | | |

Appendix C

National Historic Preservation Act Determination

Final Report: Finding of No Historic Properties Affected Siemens Industry Inc. Facility, Parker, AZ National Historic Preservation Act Section 106 Review May 25, 2012

1. Introduction

This report summarizes the findings made by the U.S. Environmental Protection Agency Region 9 ("EPA") in conducting a National Historic Preservation Act ("NHPA") Section 106 review of the Resource Conservation and Recovery Act ("RCRA") hazardous waste permitting action at the Siemens Industry, Inc. ("Siemens") facility located in Parker, Arizona. EPA considers this permitting process to be a federal undertaking under which the Section 106 review is mandated, pursuant to NHPA regulations at 36 C.F.R. § 800.16(y).

2. Background

Since 1992, Siemens has operated a carbon reactivation plant in Parker, Arizona on the Colorado River Indian Tribes ("CRIT") Reservation in La Paz County. At the facility, Siemens uses thermal treatment to regenerate spent carbon so that it may be reused. Annually, Siemens receives about 5,000 tons of spent carbon from 30 - 35 states from across the United States. Less than 15% of this material is considered hazardous waste under RCRA.

2.1 Description of Federal Action

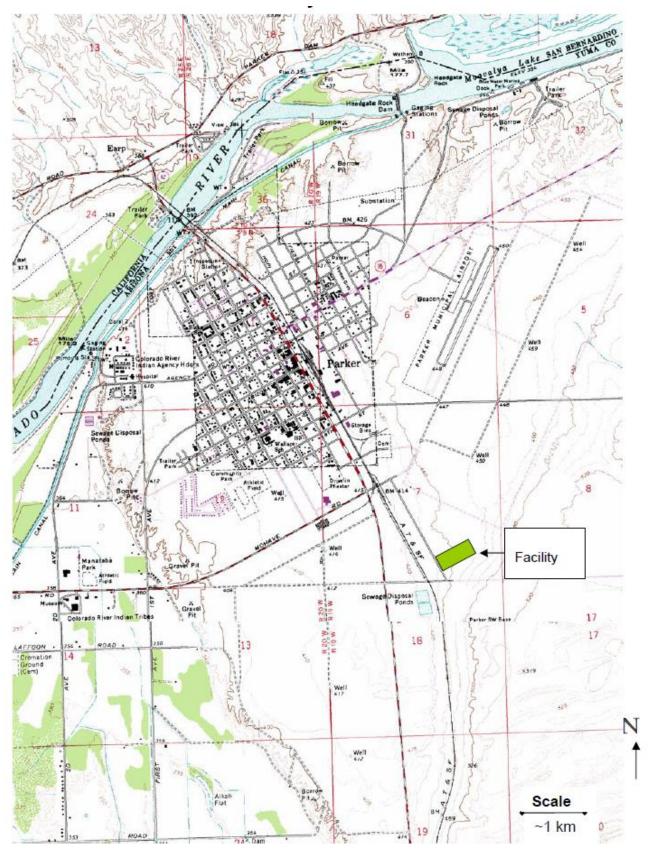
EPA is responsible for regulating waste treatment facilities on tribal lands that handle RCRA-regulated hazardous wastes to ensure that facilities comply with federal regulations and, ultimately, that no unreasonable risks are posed to human health and the environment; one means to achieve these goals is through the permitting process.

Although the Siemens facility has not yet been issued an EPA permit, it is currently operating under 'interim status' conditions which allow facilities to legally operate until a permit decision has been reached on a permit application. The original RCRA Permit application was submitted to EPA in 1995 and, although a permit has not yet been issued, EPA has conducted several inspections of the facility since then. EPA is currently reviewing the facility's application in preparation for proposing a draft permit decision. The issuance of a permit would not bring about any major changes in the current facility operations and the waste streams received at the facility, nor would it involve any ground disturbance or new construction.

2.2 Facility Location

The Siemens facility is located at 2523 Mutahar Street, Parker, AZ 95344, in an undeveloped parcel of land just southeast of Parker. In geographic coordinates this is 34° 07' 55.25" N, and 114° 16' 19.86 W. For general reference, the following figures depict a map of the facility location (Figure 2-1), facility area photographs (Figure 2-2), and a facility photograph (Figure 2-3).

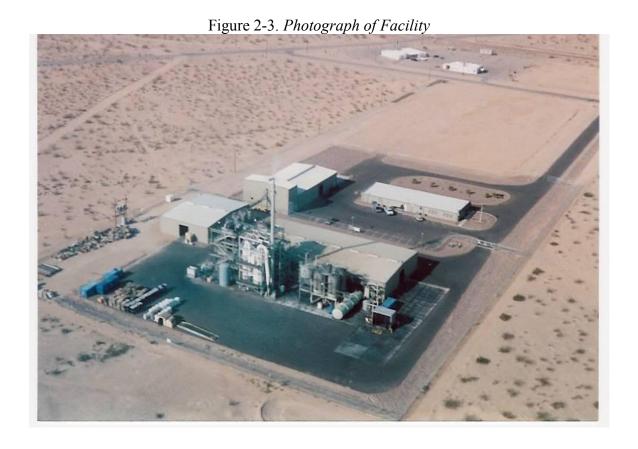
Figure 2-1. Facility Location



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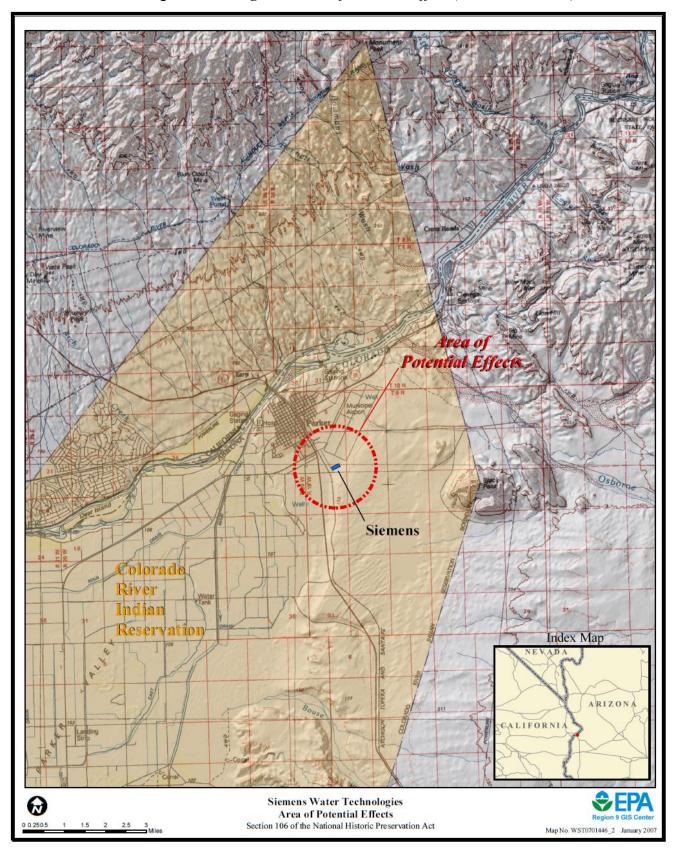
2.3 Area of Potential Effects

As discussed in a February 28, 2012 EPA letter to the Arizona State Historic Preservation Office ("SHPO"), EPA has established a one-mile-radius circle around the facility as the Area of Potential Effects ("APE"). The APE is defined in 36 C.F.R. § 800.16(d) as:

"the geographic area or areas within which an undertaking may directly or indirectly cause alterations in the character or use of historic properties, if any such properties exist. The area of potential effects is influenced by the scale and nature of an undertaking and may be different for different kinds of effects caused by the undertaking."

A recommendation for a one-mile-radius APE was submitted in February 2006 by former Colorado River Indian Tribes ("CRIT") Museum Director Dr. Michael Tsosie, who was designated as the NHPA point of contact for the Tribe to EPA. EPA designated the one-mile-radius Area of Potential Effect in a January 2007 Public Notice. This area is denoted in Figure 2-4 below by the dotted red circle around the facility.

Figure 2-4. Designated Area of Potential Effect (Dotted Red circle)



2.4 Section 106 Review History at Siemens

EPA initiated the NHPA Section 106 Review Process in late 2003, meeting with then CRIT Chairman Daniel Eddy, Arizona State Historic Preservation Officer ("SHPO") James Garrison, Town of Parker Mayor D. L. Wilson, and representatives from Siemens. These four parties are consulting parties for this Section 106 review; EPA also invited the Advisory Council on Historic Preservation, 12 Indian Tribes, and 6 additional parties, all of whom declined to participate as consulting parties. A list of these parties is provided in <u>Appendix A</u>. Chairman Eddy designated the CRIT Museum Director as the main point of contact for CRIT regarding the NHPA process. A timeline has been included in <u>Appendix B</u> for a summary of the steps that EPA has taken during this process.

3. Search for Historic Properties

The following sections summarize EPA's actions in searching for historic or tribal culturally significant properties within the APE. Historic locations identified or considered are shown in Figure 3-1.

3.1 Site Walk-Over in 1989

In 1989, an Archaeologic Walk-Over of the Facility area was performed by Weldon Johnson, Sr., Assistant Director of the CRIT Museum as part of an Environmental Assessment for the not-yet constructed Westates Carbon facility. A copy of this document, as well as supplemental letters by the office of the Colorado River Agency of the Bureau of Indian Affairs and the Arizona SHPO's office, is attached in <u>Appendix C</u>. In summary, neither a records search of the CRIT Museum's archaeological files nor an archaeologic walk-over revealed any historic sites at that time.

3.2 Public Comment Periods in 2006 and 2007

EPA reached out to the public regarding the NHPA process via public notices and public comment periods in 2006 and 2007. The first public comment period, which ran from May 31, 2006 to September 1, 2006, solicited comments on the proposed APE. The second comment period ran from January 31, 2007 to April 12, 2007, and requested information on Historic Properties. The public notice for this second public comment period can be found in <u>Appendix D</u>.

None of the comments received during either comment period identified any specific historic properties within the APE. Nevertheless, EPA is addressing the substantive issues raised in the public comments through this document.

A number of comments questioned whether the APE was too small. Most of these comments focused on the fact that the APE did not include Black Peak, which is a little over four miles west of the Siemens facility. The comments described the significance of Black Peak and other mountains to the traditional Mohave peoples in this area, and incorporated the idea that *all* land is sacred.

Although the comments focused on Black Peak itself as a culturally significant property, *EPA has considered any areas within the APE where Black Peak may be viewed or from whence prayers to Black Peak may be directed in considering areas within the APE that may be historic or culturally significant properties.* Effectively, this means that EPA has assessed the potential impacts of the permit decision on the entire APE, not only specific locations of known historic properties. EPA believes that this approach to evaluating the potential impacts of the permit decision would also apply to locations outside the APE.

3.3 National Register of Historic Places Database Search

On August 16, 2011, a search of the National Register of Historic Places Database was performed. Three sites were found in the vicinity of the facility:

- Midvale Archaeological Site (#85003430) east of Chandler, AZ in Town 1 South, Range 7 East
- The Old Presbyterian Mission Church (#71000122) 2nd Avenue in Parker, AZ
- The Parker Jail (#75000369) North side of Agency Road in Pop Harvey Park, Parker, AZ

However, none of these sites are within the APE. Further information about the locations of these sites may be confidential and will not be disclosed on a map.

3.4 AZSITE Search (Arizona's Cultural Resource Inventory)

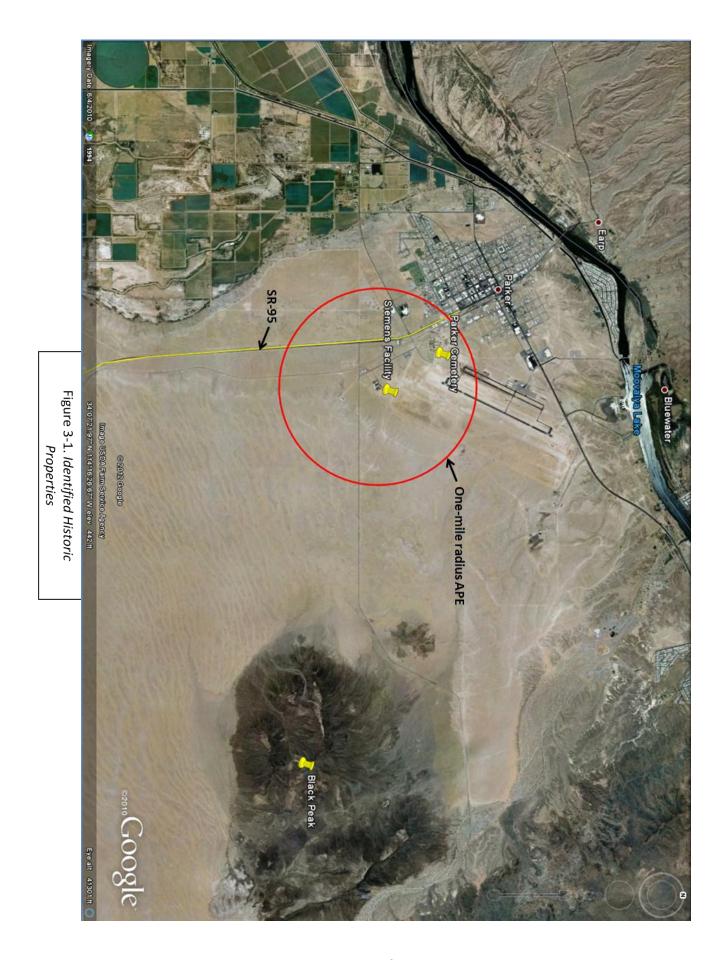
Through email correspondence dated September 7, 2011, Erick Laurila of the Arizona SHPO's office helped to identify a historic road alignment in the vicinity of the facility using AZSITE (Arizona's Cultural Resource Inventory). Near Parker, this road, Historic Route 72 ("SR-72"), is now known as State Route 95, and at its closest point passes approximately one-third of a mile from the facility. An Arizona Department of Transportation information sheet for SR-72 has been attached in <u>Appendix E</u>. This part of the route, as described in the information sheet, is approximately 12 miles south of the facility on State Route 95. To qualify the road segment as a contributing resource to the historic significance of the alignment, the road near the facility would need to retain sufficient historical integrity to convey significance under any of the National Register criteria. EPA's assessment of this road segment was accomplished using Google Maps Street View, and can be found with photographs in <u>Attachment E</u>. In Figure 3-1 on the following page, the road is denoted by the yellow line running from Parker, south through the APE.

EPA concludes that the SR-95 is *not* eligible for inclusion in the National Register since the historic integrity, specifically the setting and feeling of the road segment near the facility, is no longer intact – the road has been paved into a four-lane route with power lines and it accommodates an estimated daily traffic of approximately 6,300 vehicles.¹

3.5 Parker Cemetery

Through correspondence with the former CRIT Museum Director E. George Ray and Doug Bonamici of the CRIT Attorney General's office in August 2011, the Parker Cemetery was identified as a potential historic property within the APE. The Parker Cemetery is located approximately 2/3 of a mile from the Siemens facility and 3/10 of a mile northeast of California Avenue along Mohave Road, in Parker, AZ. Though not listed in the National Register of Historic Places, a cemetery may be considered a historic property for the purposes of the NHPA process if it meets the 'Criteria Consideration' conditions as described in National Register Bulletin 41 and stated in 36 C.F.R. §800.4(c)(1). A discussion of the qualifying characteristics of the Parker Cemetery is in the following Section 3.5.1.

¹ Arizona. Department of Transportation. *LA PAZ COUNTY Planning Assistance for Rural Areas, Working Paper 1, Current Conditions*. Lima and Associates, 2009. Figure 29, Page 90. Web. http://www.azdot.gov/mpd/systems planning/PDF/PARA/lapaz/LaPazWorkingPaper1CurrentConditions.pdf>.



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3.5.1 Assessment of Parker Cemetery under National Register Criteria Considerations

According to a phone conversation with the Parker Town Clerk on July 27, 2011, the cemetery is approximately as old as the town, which was incorporated in 1948. In assessing the Parker Cemetery for the Criteria Considerations, EPA elicited the assistance of CRIT due to potential sensitivity issues and confidentiality concerns that may arise from researching burial sites. As described in an August 29, 2011 email, Mr. Ray and Mr. Bonamici of CRIT performed an archival search for the Parker Cemetery and confirmed that Navajo Code Talkers from World War II are buried at the site. Thus, EPA, in consultation with CRIT, has determined that the cemetery may be eligible under Criterion A or B:

Properties can be eligible for the National Register if they are 'associated with events that have made a significant contribution to the broad patterns of our history' or 'associated with the lives of persons significant in our past.'

While further archival research is necessary to formally determine the eligibility of the Parker Cemetery under this Criterion, EPA has decided to leave the Cemetery unevaluated, due to the aforementioned sensitivity concerns. For the purposes of moving forward with the Section 106 Review, EPA has assumed that the Parker Cemetery is eligible for the National Register, and has assessed possible effects of the permitting project on that property.

4. Evaluation of Potential Effects on Historic Properties

This section provides a discussion of EPA's efforts to evaluate the potential effects of EPA's permit decision on identified historic properties within the APE. Within the context of the Section 106 review, EPA considers the following to be historic properties and/or properties of traditional religious and cultural importance:

- Parker Cemetery
- All areas within the APE where Black Peak may be viewed or from whence prayers may be directed to Black Peak

In this evaluation, EPA has only considered those effects that could be attributable to EPA's permit decision, and not included the impacts of facility operations which are not dependent on that decision. Thus, the scope of the federal action must be taken into account by first defining what the permit decision will entail:

- the permit decision *will* determine whether or not the facility can accept and treat certain wastes classified under RCRA as hazardous waste
- the issuance of a permit *will not* allow for any new construction or ground disturbing activities without further review
- the facility *will* be able to continue operations whether or not EPA grants a RCRA permit to the facility

With this understanding of the project scope, the Agency assessed concerns raised through public comments as well as comments received at public meetings.

These comments raised concerns that the facility could potentially obstruct views of sacred mountains, thus interfering with traditional rites such as prayer ceremonies and cremations, through the following possible effects from the facility:

- (1) the sounds of the Siemens facility's operations
- (2) the visual presence of the facility
- (3) hazardous air emissions from the facility

An evaluation of these effects follows in the sections below.

4.1 Sounds of the Siemens Facility's Operations and the Visual Presence of the Facility

Background: The Agency acknowledges that the presence of the facility could have a potential adverse impact on a tribal member's ability to pray or otherwise exercise the members' religion in close proximity to the facility. However, EPA's decision would not make a difference whether the facility remains standing or not, only whether it can handle specific wastes. Similarly, a decision not to issue a permit would not require that Siemens cease all operations at the facility, but only the management of hazardous waste it received from off-site facilities. Operations involving materials which do not constitute hazardous waste could continue or begin and, since there would be no anticipated change in equipment for facility operation with or without a permit, sounds from operations would not be affected.

Finding: At no location in the APE, including the Parker Cemetery and *any* areas within the APE where Black Peak may be viewed or from whence prayers may be directed towards Black Peak, will the visual or auditory impacts of the facility be affected by the permit decision.

4.2 Presence of Chemicals in Facility Emissions

Background: Based on the comments received, some community members appear to be concerned that hazardous air emissions from the facility will interfere with Tribal spiritual practices and cultural beliefs. In evaluating facility emissions, EPA's first and foremost priority is to protect human health and the environment; through the permitting process, EPA works towards this goal by ensuring the safe handling of hazardous materials at industrial facilities. With respect to the Siemens facility, EPA has taken the additional steps of evaluating the emissions from the facility and reviewing a human health and ecological risk assessment based on those emissions. The Agency has concluded that the facility operations, including emissions, will not pose an unacceptable risk to either. However, EPA has also evaluated the concern that *any* hazardous air emissions will interfere with spiritual and religious practices, regardless of their impact on human health or the environment.

The Agency recognizes that some individuals' religious beliefs and practices may be adversely affected by the emission of any chemicals from the facility, even if such emissions pose little or no risk to human health in the environment. Thus the question becomes: Would a denial of the permit, along with the continued processing of waste not classified as 'hazardous,' eliminate the presence of chemical constituents from the facility emissions? The simple answer is no. EPA anticipates that, if the agency were to deny Siemens a hazardous waste permit, chemicals would still be released in the facility's emissions. This straightforward but admittedly unsatisfying answer partially stems from the nature of chemicals which may be considered hazardous or toxic at one concentration and not hazardous or toxic at another. For example, the chemical benzene, below a certain concentration, is not considered RCRA hazardous waste. However, regardless of its concentration, benzene remains a potentially offensive

chemical compound. Similarly, whether or not the permit is issued to Siemens, both incoming waste streams and the facility emissions will likely still contain similar chemicals.

Finding: EPA's permit action will not, in and of itself, have a discrete impact on the spiritual or religious practices of tribal members in the vicinity of the facility.

4.3 Facility Emissions at Parker Cemetery

Background: EPA has assessed potential impacts of facility emissions on the Parker Cemetery. After researching air emissions impacts on cemeteries, EPA has decided that sulfur and nitrogen oxides ("SOx and NOx") are the only chemicals in the facility emissions that have the potential to impact cemeteries over time. In general, SOx and NOx have been known to cause acid weathering of tombstone/memorial lettering and engravings. Both SOx and NOx are emitted during combustion processes (such as those at the facility), and major sources usually include gas-powered vehicles such as cars and trucks as well as coal-fired power plants.

Using conservative assumptions, EPA estimates that total SOx and NOx deposition rates at the cemetery due to facility emissions are two orders of magnitude <u>lower</u> than those attributable to other sources, such as car emissions on Hwy 95 south of the facility. Data supporting this finding was based on a 2005 emissions test at Siemens in which air dispersion and deposition models were developed and NOx and SOx emissions (in addition to 168 other chemical constituents) were measured.

Furthermore, EPA has determined that the release of SOx and NOx from the facility through stack emissions is determined by the sulfur or nitrogen content of incoming waste streams. However, the presence and/or concentration of these two compounds in the waste does *not* determine the RCRA hazardous or non-hazardous classification of the waste, nor does it correlate with such a classification. Thus, whether or not the permit is denied, the facility could continue operating and SOx and NOx emissions rates would not be affected by the permit decision.

Finding: Deposition of SOx and NOx at the Parker Cemetery due to facility emissions is insignificant when compared to other local sources. More importantly, EPA does not believe that the issuance of a RCRA permit will result in an increase in emissions of SOx and NOx above what would be released were the permit to be denied.

5.0 Conclusion

With assistance from public comments and through efforts of its own, EPA has identified possible effects of the facility on historic properties including visual and auditory impacts, as well as the impacts stemming from the presence of hazardous constituents and acid-generating chemicals in its emissions. However, EPA has narrowed its evaluation of potential effects on historic properties to the scope of the permit action: a permit decision will not affect facility operations except in the waste streams handled, nor allow for construction or ground-disturbing activities at the site.

In this context, EPA is making a finding, pursuant to 36 C.F.R. § 800.4(d)(1), that a permit decision relating to Siemens' management of RCRA Hazardous Waste will have No Effect on Historic Properties.

Appendix A: List of Invited Consulting Parties

List of parties included in mass mailing of 'Activities Conducted pursuant to NHPA Section 106 Process' notification, sent in December 2003 and January 2004.

Tribes:

Cahuilla Band of Mission Indians
Chemehuevi Tribal Council
Cocopah Tribal Council
Fort Mojave Indian Tribe
Hopi Cultural Preservation Office
Hualapai Tribal Council
Morongo Band of Mission Indians
Quechan Tribe
Salt River Pima-Maricopa Indian Community
Torres-Martinez Desert Cahuilla Indians
Twenty-nine Palms Band of Mission Indians
Yavapai-Apache Nation

Governmental Organizations:

Advisory Council on Historic Preservation
Assistant Coordinator for Archaeological Info of San Bernardino County
Bureau of Indian Affairs
Bureau of Land Management
Bureau of Reclamation of the Lower Colorado River Regional Office
California Department of Parks and Recreation
County Board of Supervisors of La Paz County

Appendix B: Timeline of NHPA at Siemens 2003 - 2007

| 2003 | |
|----------|--|
| Mar 20 | EPA staff visits CRIT Reservation for a cultural tour |
| Jun 17 | EPA Initiates undertaking of Section 106 Review through letters to CRIT and Arizona SHPO |
| Jul 25 | EPA notifies Town of Parker and Siemens about NHPA |
| Sep 10 | CRIT recommends Initial Area of Potential Effects ("APE") |
| Dec 17 | EPA issues a Public Notice for Proposed APE in Parker Pioneer (no comments received) |
| 2004 | |
| Jan 23 | EPA invites additional parties to participate in NHPA process (none express interest) |
| Jan-Jun | CRIT Museum Director Betty Cornelius requests that EPA enter into a Programmatic
Agreement with CRIT on NHPA process |
| Feb 11 | EPA holds a public meeting on Stack Emissions Test (receives comments on alleged cultural and spiritual effects of Siemens facility) |
| Apr | Website makes NHPA information available |
| Aug 13 | EPA provides draft Programmatic Agreement to CRIT Acting Museum Director (no written comments received) |
| 2005 | |
| Feb 9 | EPA requests comments from CRIT on draft Programmatic Agreement (no written comments received) |
| Apr 12 | EPA requests comments from CRIT on final Programmatic Agreement (written responses received from both agencies) |
| Nov 1 | EPA staff meets with new CRIT Museum Director |
| 2006 | |
| Feb 27 | CRIT advises EPA that there is no need for a Programmatic Agreement which was never finalized, and recommends a new APE |
| May 31 | EPA issues public notices for the new Proposed APE in the Parker Pioneer and
Manataba Messenger (comments received) |
| Aug 1 | EPA issues a public notice for an extension to the period for the Proposed APE |
| Oct 26 | CRIT submits photos to document visibility of Siemens from various points on the
Reservation |
| Oct- Dec | EPA meets with CRIT Museum Director twice to discuss APE |
| 2007 | |
| Jan 31 | EPA issues public notice designating APE and requesting information on historic properties (comments received) |
| Feb 16 | EPA finalizes APE and requests information on historic properties from consulting parties |

Appendix C: Pre-Construction Site Walk-over Page 10+3

Jule 1

PECEIVED TO THE TOTAL

89-8-1

RECEIVED:08-03-89 REVIEWED:08-08-89

C.R.I.T. MUSEUM ARCHAEOLOGIC WALK-OVER PRE-APP. FORM

| PROPOSAL:Westates Carbon | TWP: 9N | R: | 20W | SEC: |
|---------------------------|---------|--------|-----|------|
| LOCATION: Industrial Park | s/w 1/4 | OF S/E | 1/4 | |

SUBMITTED BY: Weldon B. Hohnson, Sr., Asst. Mus. Dir./Cult.Arch. THROUGH: Curtiss Martin, Sr., Museum Director

PREVIOUS DESIGNATIONS: A records search of the C.R.I.T. Museum's archaeologic files revealed no sites previously recorded at this location.

SITE DESCRIPTION: Site consists of compacted blow sand with creosote, sage and some cholla cactus, ORV impacts also occur at this location.

WALK-OVERS RESULTS: The archaeologic walk-over revealed no sites identified.

RECOMMENDATIONS/REMARKS: Due to the absence of cultural material and no sites previously recorded, I recommend waiver of the Cultural Resource portion within the C.R.I.T. L.U.O. 85-2 as amended.

ATTACHMENTS:

Appendix C Page 2 of 3

RECEIVED JAN 10 19 JAN 1991 COLORADO RIVER PORTOR, AND

JAN 02 1990 ACTIN: Phoenix Area Office Environmental Services

Determination for Purposes of Section 106 of the National Mistoric Preservation Act

Superintendent, Colorado River Agency

As the certifying authority at Supplement 2, 30 BIAM 1.5B(1), I have determined that the report, C.R.I.T. Museum Archaeologic Walk-over Pre-app. Form - Westates Carbon (#89-8-1) (August 1989) is accurate in its findings of survey for purposes of compliance with identification provisions of 36 CFR 800 and do herewith adopt its findings.

I find that the proposed undertaking contains no historic properties listed in or eligible for the National Register of Historic Places and invoke 36 CFR 800.4(d). For these purposes, approval may be granted for the proposed undertaking with the proviso that should cultural materials be encountered in the course of construction, work cease at that location and the Indian land owner and the Area Archeologist be notified immediately. Please note that the 106 determination should be incorporated into the Final Environmental Assessment (EA) for the proposed Westates Carbon, Inc. reactivation plant site on the Colorado River Indian Reservation.

/s/ BARRY W. WELCH

cc: Chairman, Colorado River Tribal Council

1. 1.

| MIIN | ACTIVITY | DATE | INITIAL |
|------|---------------|------|-------------|
| 1 | CHAIRMAN | | |
| 1 | VICE CHAIRMAN | | I.C. Street |
| 1 | SECRETARY | | |
| | TREASURER | | |
| K | me Irib | 0 | Onini |
| 4 | Danne | | 6100 |



ARIZONA STATE PARKS

800 W. WASHINGTON SUITE 415 PHOEN IX, ARIZONA 85007 TELEPHONE 602-542-4174

> ROSE MOFFORD GOVERNOR

STATE PARKS BOARD MEMBERS

WILLIAM G. ROE CHAIR TUCSON

> RONALD PIES VICE CHAIR TEMPE

DEAN M. FLAKE SECRETARY SNOWFLAKE

DUANE MILLER

ELIZABETH TEA

ELIZABETH RIEKE

M. JEAN HASSELL STATE LAND COMMISSIONER

KENNETH E TRAVOUS

COURTLAND NELSON DEPUTY DIRECTOR November 29, 1990

Wilson Barber, Area Director DOI Bureau of Indian Affairs Phoenix Area Office P.O. Box 10 Phoenix, AZ 85001

ATTN: C. Randall Morrison

RE: Colorado River Indian Reservation, Westates Carbon Regeneration Lease, DOI-BIA/PAO

Dear Mr. Barber:

Thank you for notifying us about the above project and sending us a copy of the cultural resources documentation prepared by Weldon Johnson from the CRIT Museum. I have reviewed the documentation that you submitted and have the following comments pursuant to 36 CFR Part 800:

- The documentation that was submitted is not consistent with the Secretary of the Interior's standards for archaeological inventories and we request that future surveys be more consistent with these standards and presented to us in a format per our memorandum of February 5, 1988 to all Federal agencies and consulting archaeologists.
- 2. Regardless, we have no reasons to doubt Mr. Johnson's findings and note that he did not locate any cultural material.
- 3. Therefore, we concur with the agency that this project should have no effect on any National Register or eligible properties.
- 4. One conditional comment is that should archaeological remains be encountered during project ground disturbing activities, work should cease in the area of the discovery and this office be notified immediately, pursuant to 36 CFR 800.11.

We appreciate your continued cooperation with this office in complying with the historic preservation requirements for federally assisted undertakings. If you have any questions, please Contact me.

Sincerely.

Robert E. Gasser Compliance Coordinator

for Shereen Lerner, Ph.D. State Historic Preservation Officer

BUREAU

1500 HOO

Appendix D 2007 Public Notice: APE Designation

PUBLIC NOTICE

Designation of Area of Potential Effects on Historic Properties and Request for Information about Historic Properties for Siemens Water Technologies (formerly US Filter Westates) Under Section 106 of the National Historic Preservation Act

Siemens Water Technologies is a hazardous waste treatment facility on the Colorado River Indian Reservation near Parker, Arizona. The U.S. Environmental Protection Agency (EPA) is in the process of making a permit decision at Siemens.

Designation of Area of Potential Effects

As part of the permit decision, EPA must comply with the National Historic Preservation Act (NHPA). In compliance with the NHPA, EPA is designating an Area of Potential Effects on historic properties for its permit decision at Siemens.

The map to the right shows the Area of Potential Effects on historic properties. EPA is designating this Area of Potential Effects after consultation with the Colorado River Indian Tribes, the Arizona State Historic Preservation Office, the Town of Parker, and Siemens, and with consideration of public comments on a proposed Area of Potential Effects. You may find information about the comments EPA received and the basis for our designating this Area of Potential Effects on EPA's website, as local public repositories listed to the right, or by contacting EPA. Contact information is noted to the right.

Please note that this Area of Potential Effects is for potential effects only on historic properties from EPA's permit decision regarding the Siemens facility. Under a separate authority, EPA is also requiring Siemens to conduct a human health and ecological risk assessment which will evaluate potential human health and ecological effects up to 30 miles from the facility due to Siemens' operations. In the future, EPA will publish separate public notices regarding the risk assessment and other EPA actions at Siemens, such as the draft permit decision. If you would like to receive future public notices in the mail, please let us know by phone, email, or mail, and we'll put you on our mailing list.

Determining Whether There May Be Adverse Effects to Historic Properties

EPA must now determine whether a hazardous waste permit decision at Siemens may cause adverse effects to any historic properties within the Area of Potential Effects. EPA will make this determination after researching public records, consulting with the consulting parties noted above, and considering comments from the public. Therefore, EPA would like to hear from you about any historic properties that you know of within the Area of Potential Effects and about any adverse effects you believe a Siemens permit may cause to the historic properties. For each historic property, please describe why you believe it to be a historic property and please describe the specific adverse effects you believe a Siemens permit may cause.

Criteria for Identifying Historic Properties and Adverse Effects

EPA will use NHPA criteria in determining whether a site or structure within the Area of Potential Effects is a historic property and whether a Siemens permit may cause adverse effects to the historic properties. Under the NHPA, a historic property may be a building, structure, site, object, or district that is important in American history, architecture, archeology, engineering, or culture. The term "historic property" also includes properties of traditional religious and cultural importance to an Indian Tribe. Under the NHPA, an adverse effect to a historic property is any effect that would diminish the integrity of certain aspects of the property such as location, design, setting, or feeling.

To learn more about the NHPA process and criteria for identifying historic properties and adverse effects you may access "Criteria Guide to Section 106 Review" at inwwashp.goxfcitizensguide.html and "How to Apply the National Register Criteria for Evaluation" at www.cr.pps.goxfm/pablications/bulletins/hrb15/. You may also obtain these documents by contacting EPA or visiting the public repositories.

Next Steps

EPA must take possible adverse effects to historic properties into consideration in making its permit decision. If EPA determines that there are no historic properties within the Area of Potential Effects, or that a Siemens permit will not cause adverse effects to any historic properties, then EPA will issue a public notice making this determination, and this will complete the NHPA process. If EPA determines that there are historic properties within the Area of Potential Effects and that a Siemens permit may cause adverse effects to the historic properties, then EPA will consult with the consulting parties to determine whether mitigation measures are necessary. EPA will then issue a public notice either proposing mitigation measures, or making a determination that mitigation measures are not necessary.

We are interested in any information you may have on historic properties within the Area of Potential Effects

If you have information on historic properties within the Area of Potential Effects, including possible adverse effects from a Siemens permit to the historic properties, please let EPA know by March 5, 2007. Any information you submit will become part of the public record. However, if there is information that you would like to provide, but that you believe should remain confidential either for your anonymity or to protect the historic property, please contact us by phone, and we will explore options for keeping the information confidential. You may contact EPA at any time during the process to advise us of concerns or comments you may have regarding the NHPA process at Siemens.



A detailed map and additional documents regarding the steps leading up to this determination are available at public repositories at the Parker Public Library and the Colorado River Indian Tribes Museum. You may also obtain these documents and information, as well as information about Siemens and the National Historic Preservation Act, at the public repositories, by contacting EPA at the address or phone number to the right, and at EPA's website at http://www.ega.gov/region2/waste/siemens/.

To comment, or for more information, you may write, email, or call Karen Scheuermann at:

> Karen Scheuermann US EPA Region 9 (WST-4) 75 Hawthorne Street San Francisco, CA 94105

scheuermann.karen@epa.gov

Phone: (415) 972-3356

Toll-free number: (800) 231-3075

<u>Appendix E</u>: Assessment of Historical Integrity of Historic Route 72 (State Route 95) Page 1 of 2

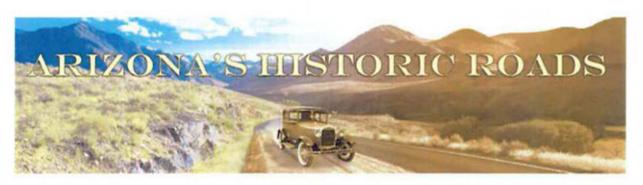
Pictures from: Google Maps Street View Feature



Observations:

- · Paved over three- four lane Highway
- · Power lines on eastern side of road
- 6,344 Estimated Daily Traffic by MPSI Solutions Google Earth

<u>Appendix E</u>: Assessment of Historical Integrity of Historic Route 72 (State Route 95) Page 2 of 2



State Route 72 Junction SR 95 to Hope Highway

Location: Yuma District; La Paz County Length: 37 miles

Begins: Junction SR 95 (MP 13.11)

Ends: Hope (MP 49.91)

State Route 72 (SR 72) is a 37-mile long road that was incorporated into the state highway system in 1932. Prior to the construction of US 95 between Quartzite and Parker, SR 72 was the main access road to a crossing over the Colorado River at Parker. It also was the Territorial-period (1863–1912) route that reached the Colorado River Indian Reservation, which was established in 1865 for several tribal groups, including the Chemehuevi and Mohave. During the period of construction for the Parker Dam (1934–1938), highway workers improved SR 72 by widening and paving. It remains a useful route to reach Parker Dam and its recreational reservoir—Lake Havasu.





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IX

75 Hawthorne Street San Francisco, CA 94105

Wilene Holt Colorado River Indian Tribes 26600 Mohave Road Parker, Arizona 85344

Re: Determination of No Historic Properties Affected by a Hazardous Waste permit decision at the Siemens Industry, Inc. facility in Parker, Arizona

Dear Ms. Holt:

The U.S. Environmental Protection Agency Region 9 ("EPA") is seeking your concurrence on a No Historic Properties Affected finding, pursuant to 36 C.F.R. § 800.4(d)(1), regarding a federal permit action at the Siemens Industry, Inc. facility ('Siemens'') located in Parker, Arizona. Currently, EPA is reviewing a Resource Conservation and Recovery Act ('RCRA') permit application that, if issued, would allow the facility to regenerate spent carbon that is classified as hazardous waste. EPA considers this permit action to be a "federal undertaking" under the National Historic Preservation Act ("NHPA"). Please find enclosed a final report detailing the steps EPA has taken in making this determination.

In separate letters, EPA is notifying and seeking concurrence from the following consulting parties regarding our finding of effect:

- Arizona State Historic Preservation Office
- Siemens Industry, Inc.
- Town of Parker

Thank you for your assistance throughout the NHPA process for the Siemens permit decision. Please let us know within 30 days of receipt of this letter if you object to this determination. If you have any questions, please feel free to have your staff contact Nathan Dadap at (415) 972-3654 or by email at dadap.nathan@epa.gov.

Sincerely,

Caleb Shaffer, Manager

RCRA Facilities Management Office

Enclosure:

Final Report: Finding of No Historic Properties Affected

cc w/ Enclosure: Guthrie Dick, Environmental Director

Doug Bonamici, Office of the Attorney General (electronic copy only)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IX

75 Hawthorne Street San Francisco, CA 94105

Lori Wedemeyer Town of Parker 1314 11th Street Town Hall Parker, Arizona 85344

Re: Determination of No Historic Properties Affected by a Hazardous Waste permit decision at the Siemens Industry, Inc. facility in Parker, Arizona

Dear Ms. Wedemeyer:

The U.S. Environmental Protection Agency Region 9 ("EPA") is seeking your concurrence on a No Historic Properties Affected finding, pursuant to 36 C.F.R. § 800.4(d)(1), regarding a federal permit action at the Siemens Industry, Inc. facility ('Siemens'') located in Parker, Arizona. Currently, EPA is reviewing a Resource Conservation and Recovery Act ('RCRA') permit application that, if issued, would allow the facility to regenerate spent carbon that is classified as hazardous waste. EPA considers this permit action to be a "federal undertaking" under the National Historic Preservation Act ("NHPA"). Please find enclosed a final report detailing the steps EPA has taken in making this determination.

In separate letters, EPA is notifying and seeking concurrence from the following consulting parties regarding our finding of effect:

- Colorado River Indian Tribes
- Siemens Industry, Inc.
- Arizona State Historic Preservation Office

Thank you for your assistance throughout the NHPA process for the Siemens permit decision. Please let us know within 30 days of receipt of this letter if you object to this determination. If you have any questions, please feel free to have your staff contact Nathan Dadap at (415) 972-3654 or by email at dadap.nathan@epa.gov.

Sincerely,

Caleb Shaffer, Manager

RCRA Facilities Management Office

Enclosure:

Final Report: Finding of No Historic Properties Affected



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IX

75 Hawthorne Street San Francisco, CA 94105

Monte McCue Siemens Industry, Inc. P.O. Box 3308 Parker, Arizona 85344

Re: Determination of No Historic Properties Affected by a Hazardous Waste permit decision at the Siemens Industry, Inc. facility in Parker, Arizona

Dear Mr. McCue:

The U.S. Environmental Protection Agency Region 9 ("EPA") is seeking your concurrence on a No Historic Properties Affected finding, pursuant to 36 C.F.R. § 800.4(d)(1), regarding a federal permit action at the Siemens Industry, Inc. facility ('Siemens'') located in Parker, Arizona. Currently, EPA is reviewing a Resource Conservation and Recovery Act ('RCRA') permit application that, if issued, would allow the facility to regenerate spent carbon that is classified as hazardous waste. EPA considers this permit action to be a "federal undertaking" under the National Historic Preservation Act ("NHPA"). Please find enclosed a final report detailing the steps EPA has taken in making this determination.

In separate letters, EPA is notifying and seeking concurrence from the following consulting parties regarding our finding of effect:

- Arizona State Historic Preservation Office
- Colorado River Indian Tribes
- Town of Parker

Thank you for your assistance throughout the NHPA process for the Siemens permit decision. Please let us know within 30 days of receipt of this letter if you object to this determination. If you have any questions, please feel free to have your staff contact Nathan Dadap at (415) 972-3654 or by email at dadap.nathan@epa.gov.

Sincerely,

Caleb Shaffer, Manager

RCRA Facilities Management Office

Enclosure:

Final Report: Finding of No Historic Properties Affected



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IX

75 Hawthorne Street San Francisco, CA 94105

James Garrison State Historic Preservation Officer Arizona State Parks 1300 West Washington Street Phoenix, Arizona 85007

Attn: Erick Laurila

Re: Determination of No Historic Properties Affected by a Hazardous Waste permit decision at the Siemens Industry, Inc. facility in Parker, Arizona, SHPO-2003-1385 (94222)

Dear Mr. Garrison:

The U.S. Environmental Protection Agency Region 9 ("EPA") is seeking your concurrence on a No Historic Properties Affected finding, pursuant to 36 C.F.R. § 800.4(d)(1), regarding a federal permit action at the Siemens Industry, Inc. facility ('Siemens'') located in Parker, Arizona. Currently, EPA is reviewing a Resource Conservation and Recovery Act ('RCRA') permit application that, if issued, would allow the facility to regenerate spent carbon that is classified as hazardous waste. EPA considers this permit action to be a "federal undertaking" under the National Historic Preservation Act ("NHPA"). Please find enclosed a final report detailing the steps EPA has taken in making this determination.

In separate letters, EPA is notifying and seeking concurrence from the following consulting parties regarding our finding of effect:

- Colorado River Indian Tribes
- Siemens Industry, Inc.
- Town of Parker

Thank you for your assistance throughout the NHPA process for the Siemens permit decision. Please let us know within 30 days of receipt of this letter if you object to this determination. If you have any questions, please feel free to have your staff contact Nathan Dadap at (415) 972-3654 or by email at dadap.nathan@epa.gov.

Sincerely,

Caleb Shaffer, Manager

RCRA Facilities Management Office

Enclosure:

Final Report: Finding of No Historic Properties Affected



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 9

75 Hawthorne Street San Francisco, CA 94105-3901

July 12, 2012

MEMORANDUM

Subject: Change in National Historic Preservation Act Finding for Hazardous

Waste Permit Decision at Siemens Industry, Inc.

FROM: Nathan Dadap

RCRA Facilities Management

TO: Mahfouz "Mike" Zabaneh

Siemens Project Manager

On May 25, 2012, EPA issued a Final Report with a finding of *No Historic Properties Affected* under Section 106 of the National Historic Preservation Act (NHPA). This Report was sent to the four consulting parties for the project: the Arizona State Historic Preservation Office (SHPO), the Town of Parker, Siemens Industry, Inc., and the Colorado River Indian Tribes (CRIT). EPA received a response from the SHPO via letter dated June 19, 2012. In that correspondence, the SHPO offered the opinion that a *No Adverse Effect* finding is warranted in place of a *No Historic Properties Affected* finding, and this memorandum serves to document that I have no objections to such a modification.

The SHPO's letter provided concurrence on all other conclusions of the Final Report, and I believe that the information presented in the Report addresses the necessary documentation to support a *No Adverse Effect* finding. In short, this new finding acknowledges the reality that continued operation at the facility under a hazardous waste permit may have an effect on the Parker Cemetery. However, an application of the criteria of adverse effect reveals that since a permit issuance would not result in any significant changes to the facility or its current operations, the permit decision will not result in any adverse effects to historic properties.

Since consulting parties have been provided a copy of the Report and none have provided any objections to the original finding, it is my opinion that this change in the final finding will not require the Agency to pursue any further actions under Section 106 of the NHPA.

Appendix D

Endangered Species Act Determination



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 9

75 Hawthorne Street San Francisco, CA 94105-3901

August 4, 2016

MEMORANDUM

SUBJECT: Evoqua RCRA TSDF Permit EPA ID No. AZD 982 441 263 - Update to Prior EPA

Sarra Tife

Endangered Species Act Determinations

FROM:

Sara Ziff

Environmental Engineer

TO:

Mike Zabaneh

EPA Permit Writer

On February 25, 2009, EPA determined that federal action comprised by the subject permit will not affect threatened or endangered species or designated critical habitat. Such a determination must be made using a species list that is not more than 180 days old. Accordingly, today I obtained a list of threatened and endangered species and designated critical habitat for the area of the subject project. I have reviewed that list and the basis for the earlier determination that the subject permit will not affect threatened or endangered species or designated critical habitat and determined that the species and conditions have not changed and, accordingly, the subject permit will not affect threatened or endangered species or designated critical habitat.

By making this no effect determination, EPA completes its obligation under Section 7 of the Endangered Species Act and does not need to consult with the US Fish and Wildlife Service in order to issue the permit.

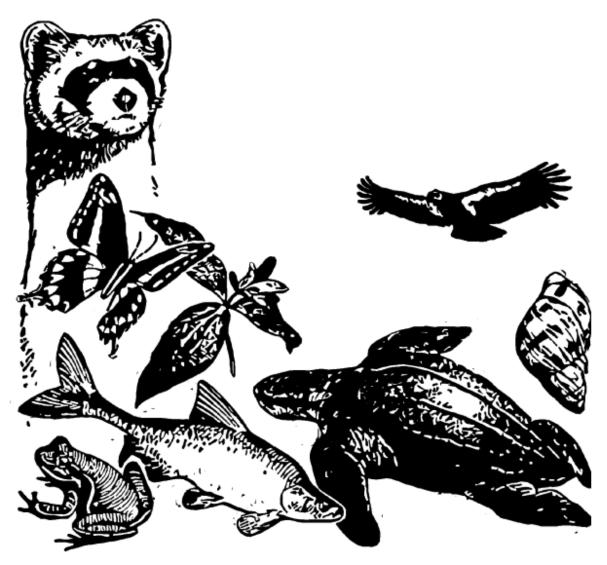
Please contact me if you have any questions.

Evoqua

IPaC Trust Resources Report

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This report is for informational purposes only and should not be used for planning or analyzing project level impacts. For project reviews that require U.S. Fish & Wildlife Service review or concurrence, please return to the IPaC website and request an official species list from the Regulatory Documents page.



IPaC - Information for Planning and Conservation (https://ecos.fws.gov/ipac/): A project planning tool to help streamline the U.S. Fish & Wildlife Service environmental review process.

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U.S. Fish & Wildlife Service

IPaC Trust Resources Report



NAME

Evoqua

LOCATION

La Paz County, Arizona

IPAC LINK

https://ecos.fws.gov/ipac/project/ LATIS-233AF-FSXA5-IBKNZ-E3UNME



U.S. Fish & Wildlife Service Contact Information

Trust resources in this location are managed by:

Arizona Ecological Services Field Office

2321 West Royal Palm Road, Suite 103 Phoenix, AZ 85021-4915 (602) 242-0210

Endangered Species

Proposed, candidate, threatened, and endangered species are managed by the <u>Endangered Species Program</u> of the U.S. Fish & Wildlife Service.

This USFWS trust resource report is for informational purposes only and should not be used for planning or analyzing project level impacts.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list from the Regulatory Documents section.

<u>Section 7</u> of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency.

A letter from the local office and a species list which fulfills this requirement can only be obtained by requesting an official species list either from the Regulatory Documents section in IPaC or from the local field office directly.

The list of species below are those that may occur or could potentially be affected by activities in this location:

Birds

Southwestern Willow Flycatcher Empidonax traillii extimus

Endangered

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B094

Sprague's Pipit Anthus spragueii

Resolved Taxon

CRITICAL HABITAT

No critical habitat has been designated for this species.

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0GD

Yellow-billed Cuckoo Coccyzus americanus

Threatened

CRITICAL HABITAT

There is **proposed** critical habitat designated for this species.

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B06R

Yuma Clapper Rail Rallus longirostris yumanensis

Endangered

CRITICAL HABITAT

No critical habitat has been designated for this species.

 $\underline{\text{http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B00P}$

Fishes

Bonytail Chub Gila elegans

Endangered

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=E020

Razorback Sucker Xyrauchen texanus

Endangered

CRITICAL HABITAT

There is final critical habitat designated for this species.

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=E054

Roundtail Chub Gila robusta

Proposed Threatened

CRITICAL HABITAT

No critical habitat has been designated for this species.

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=E02Z

Reptiles

Northern Mexican Gartersnake Thamnophis eques megalops

Threatened

CRITICAL HABITAT

There is **proposed** critical habitat designated for this species.

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=C04Q

Critical Habitats

There are no critical habitats in this location

Migratory Birds

Birds are protected by the <u>Migratory Bird Treaty Act</u> and the <u>Bald and Golden Eagle</u> <u>Protection Act</u>.

Any activity that results in the take of migratory birds or eagles is prohibited unless authorized by the U.S. Fish & Wildlife Service.^[1] There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

Any person or organization who plans or conducts activities that may result in the take of migratory birds is responsible for complying with the appropriate regulations and implementing appropriate conservation measures.

1. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

Additional information can be found using the following links:

- Birds of Conservation Concern
 http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php
- Conservation measures for birds
 http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php
- Year-round bird occurrence data http://www.birdscanada.org/birdmon/default/datasummaries.jsp

The following species of migratory birds could potentially be affected by activities in this location:

Bald Eagle Haliaeetus leucocephalus Bird of conservation concern

Season: Wintering

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B008

Bell's Vireo Vireo bellii Bird of conservation concern

Season: Breeding

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0JX

Bendire's Thrasher Toxostoma bendirei Bird of conservation concern

Season: Year-round

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0IF

Black Rail Laterallus jamaicensis

Bird of conservation concern

Season: Breeding

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B09A

Black-chinned Sparrow Spizella atrogularis

Season: Wintering

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0IR

Brewer's Sparrow Spizella breweri

Season: Wintering

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0HA

Burrowing Owl Athene cunicularia

Season: Year-round

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0NC

Costa's Hummingbird Calypte costae

Season: Breeding

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0JE

Elf Owl Micrathene whitneyi

Season: Breeding

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0GV

Gila Woodpecker Melanerpes uropygialis

Season: Year-round

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0EH

Gilded Flicker Colaptes chrysoides

Season: Year-round

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0EG

Golden Eagle Aquila chrysaetos

Season: Year-round

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0DV

Lawrence's Goldfinch Carduelis lawrencei

Season: Year-round

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0J8

Le Conte's Thrasher toxostoma lecontei

Season: Year-round

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0GE

Least Bittern Ixobrychus exilis

Season: Year-round

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B092

Lesser Yellowlegs Tringa flavipes

Season: Wintering

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0MD

Loggerhead Shrike Lanius Iudovicianus

Season: Year-round

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0FY

Bird of conservation concern

Long-billed Curlew Numenius americanus

Season: Wintering

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B06S

Lucy's Warbler Vermivora luciae

Season: Breeding

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0DL

Mountain Plover Charadrius montanus

Season: Wintering

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B078

Peregrine Falcon Falco peregrinus

Season: Year-round

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0FU

Prairie Falcon Falco mexicanus

Season: Year-round

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0ER

Short-eared Owl Asio flammeus

Season: Wintering

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0HD

Sonoran Yellow Warbler Dendroica petechia ssp. sonorana

Season: Wintering

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0F7

Swainson's Hawk Buteo swainsoni

Season: Breeding

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B070

Western Grebe aechmophorus occidentalis

Season: Breeding

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0EA

Bird of conservation concern

Wildlife refuges and fish hatcheries

Refuge and fish hatchery data is unavailable at this time.

Wetlands in the National Wetlands Inventory

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army</u> <u>Corps of Engineers District</u>.

DATA LIMITATIONS

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

DATA EXCLUSIONS

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

DATA PRECAUTIONS

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

There are no wetlands in this location



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY **REGION 9**

75 Hawthorne Street San Francisco, CA 94105-3901

March 21, 2016

MEMORANDUM

SUBJECT: Evoqua RCRA TSDF Permit EPA ID No. AZD 982 441 263 - Update to Prior EPA

Endangered Species Act Determinations

FROM:

Sara Ziff Sava Viff Environmental Engineer

TO:

Mike Zabaneh

EPA Permit Writer

On February 25, 2009, EPA determined that federal action comprised by the subject permit will not affect threatened or endangered species or designated critical habitat. Such a determination must be made using a species list that is not more than 180 days old. Accordingly, today I obtained a list of threatened and endangered species and designated critical habitat for the area of the subject project. I have reviewed that list and the basis for the earlier determination that the subject permit will not affect threatened or endangered species or designated critical habitat and determined that the species and conditions have not changed and, accordingly, the subject permit will not affect threatened or endangered species or designated critical habitat.

With this determination, EPA completes its obligation under Section 7 of the Endangered Species Act and does not need to consult with the US Fish and Wildlife Service in order to issue the permit.

Please contact me if you have any questions.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 9

75 Hawthorne Street San Francisco, CA 94105-3901

July 30, 2015

MEMORANDUM

SUBJECT:

Evoqua RCRA TSDF Permit EPA ID No. AZD 982 441 263 - Update to

prior EPA Endangered Species Act determinations

FROM:

John Beach

Environmental/Scientist

TO:

Mike Zabaneh

EPA Permit Writer

On February 25, 2009, EPA determined that Federal action comprised by the subject permit will not affect threatened or endangered species or designated critical habitat. Such a determination must be made using a species list that is not more than 180 days old. Accordingly, I today obtained a list of threatened and endangered species and designated critical habitat for the area of the subject project. I have reviewed that list and the basis for the earlier determination that the subject permit will not affect threatened or endangered species or designated critical habitat and determine that the species and conditions have not changed and, accordingly, the subject permit will not affect threatened or endangered species or designated critical habitat.

With this determination, EPA completes is obligation under Section 7 of the Endangered Species Act and does not need to consult with the US Fish and Wildlife Service in order to issue the permit.

Please contact me if you have questions.

IPaC

U.S. Fish & Wildlife Service

My project La Paz County, Arizona

ENDOUA 2523 Mutcher St. Parker, AZ

This project potentially impacts **28 resources** managed or regulated by the U.S. Fish & Wildlife Service

Endangered species

Proposed, candidate, threatened, and endangered species that are managed by the <u>Endangered Species Program</u> and should be considered as part of an effect analysis for this project.

Birds

Southwestern Willow Flycatcher Empidonax traillii extimus

Endangered (A species in danger of extinction throughout all or a significant portion of its range)

Sprague's Pipit Anthus spragueii Gressland cereces - hali but alout Candidate (A species under consideration for official listing for which there is sufficient information to support listing)

Yellow-billed Cuckoo Coccyzus americanus MOIST ripercan hallim to Threatened (A species likely to become endangered within the foreseeable future throughout all or a significant portion of its range)



Yuma Clapper Rail Rallus longirostris yumanensis

Endangered (A species in danger of extinction throughout all or a significant portion of its range)

Fishes



Endangered (A species in danger of extinction throughout all or a significant portion of its range)

Razorback Sucker Xyrauchen texanus

Endangered (A species in danger of extinction throughout all or a significant portion of its range)

Roundtail Chub Gila robusta

Candidate (A species under consideration for official listing for which there is sufficient information to support listing)

Reptiles

Northern Mexican Gartersnake Thamnophis eques megalops

Threatened (A species likely to become endangered within the foreseeable future throughout all or a significant portion of its range)

Sonoran Desert Tortoise Gopherus morafkai

Candidate (A species under consideration for official listing for which there is sufficient information to support listing)

Critical habitats

Potential effects to critical habitat(s) within the project area must be analyzed along with the endangered species themselves.



THERE IS NO CRITICAL HABITAT WITHIN THIS PROJECT AREA

Migratory birds

prevously addressed

Birds are protected by the <u>Migratory Bird Treaty Act</u> and the Bald and Golden Eagle Protection Act.

Any activity which results in the take (to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct) of migratory birds or eagles is prohibited unless authorized by the U.S. Fish and Wildlife Service (1). There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

You are responsible for complying with the appropriate regulations for the protection of birds as part of this project. This involves analyzing potential impacts and implementing appropriate conservation measures for all project activities.

Bald Eagle Haliaeetus leucocephalus

Season: Wintering

Bell's Vireo Vireo bellii

Season: Breeding

Black Rail Laterallus jamaicensis

Season: Breeding

Black-chinned Sparrow Spizella atrogularis

Season: Wintering

Brewer's Sparrow Spizella breweri

Season: Wintering

Burrowing Owl Athene cunicularia

Year-round

Costa's Hummingbird Calypte costae

Season: Breeding

Elf Owl Micrathene whitneyi

Season: Breeding

Gila Woodpecker Melanerpes uropygialis

Year-round

Golden Eagle Aquila chrysaetos

Year-round

Le Conte's Thrasher toxostoma lecontei

Season: Breeding

Least Bittern Ixobrychus exilis

Year-round

Loggerhead Shrike Lanius Iudovicianus

Year-round

Long-billed Curlew Numenius americanus

Season: Wintering

Lucy's Warbler Vermivora luciae

Season: Breeding

Mountain Plover Charadrius montanus

Season: Wintering

Prairie Falcon Falco mexicanus

Year-round

Snowy Plover Charadrius alexandrinus

Season: Migrating

Sonoran Yellow Warbler Dendroica petechia ssp. sonorana

Season: Wintering

Wildlife refuges

Any activity proposed on <u>National Wildlife Refuge</u> lands must undergo a 'Compatibility Determination' conducted by the Refuge. If your project overlaps or otherwise impacts a Refuge, please contact that Refuge to discuss the authorization process.

REFUGE INFORMATION IS NOT AVAILABLE AT THIS TIME

TRY AGAIN

Wetlands in the National Wetlands Inventory

Impacts to <u>NWI wetlands</u> and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes.

Project proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate <u>U.S. Army Corps of Engineers District</u>.

THERE ARE NO WETLANDS IDENTIFIED IN THIS PROJECT AREA

Informational Notice

Online Processing of Requests for Official Endangered Species Act Species List For Consultation and Conservation Partners of the U.S. Fish and Wildlife Service Arizona Ecological Services Office

Dear Consultation and Conservation Partners:

As of March 2014, the Arizona Ecological Services Office of the U.S. Fish and Wildlife Service (Service) will no longer be maintaining the County Species List, and is directing your agency, agents, and designated non-Federal representatives to an automated Environmental Conservation Online System-Information, Planning and Conservation (ECOS-IPaC) system (System) accessed via the internet. The purpose of this System is to identify species designated via the Endangered Species Act of 1973, as amended (Act) as candidates, proposed, threatened, or endangered; and habitats proposed and designated as critical habitat, which *may* occur in the action areas that you will define.

The output provided by the System is intended, in part, to fulfill the requirements under section 7(c) of the Act (16 U.S.C. 1531 et seq.). The lists pertaining to species and habitats designated via the Act are to be used in the development of biological assessments/evaluations that you will prepare for future proposed projects. Use the link http://ecos.fws.gov/ipac/, to input your project's polygon, upload a shapefile (if your project is over a large area but with segments), or to select the county in which your project occurs to view and request a species list. If your team decides to input your project's polygon, please bear in mind that the species generated in your list are delineated in grids that cover a minimum of 49 square miles. Please check each species' information page found at http://www.fws.gov/southwest/es/arizona/Documents/MiscDocs/AzspeciesReference.pdf for a quick reference, to determine if suitable habitat for the species on your list occurs for the species on your list in your project area.

A generated 'Official List' can be renewed through the following steps:

- 1. Re-entering the shapefile used or requesting the shapefile be sent back to you (IPaC saves the shapefiles used when an Official List is requested);
- 2. Proceed through the steps;
- 3. Save the Preliminary Species List as a PDF. Please do not click 'Request Official List';
- 4. Send this PDF to the incomingazcorr@fws.gov address with the subject line and text requesting a renewed list. Please provide the file number that was given with the original Official Species List in the email too;

The Service is currently working on automating the renewal process, but until this is available we recommend that you use IPaC and these renewal steps as necessary.

The Service asks that you aid us in sharing this notice with your affected staff, agents, clients, or non-Federal representatives. Your assistance with dissemination of this notice is appreciated. If you have questions or comments regarding the use and operation of the automated ECOS-IPaC System, please contact the ECOS-IPaC help desk at 970-226-9468, 8am - 4pm Mountain Time, M-F or via email at http://ecos.fws.gov/ecos/helpDeskPublicForm.do. If you have questions or comments regarding the content of the Preliminary or Official Lists supplied to you by the System, please contact Brenda Smith at 928/556-2157 for projects in Northern Arizona, our general Phoenix number 602/242-0210 for central Arizona, or Jean Calhoun at 520/670-6150 (x223) for projects in southern Arizona.

Activities that involve streams and/or wetlands are regulated by the U.S. Army Corps of Engineers (Corps). We recommend that you contact the Corps to determine their interest in proposed projects in these areas. For activities within a National Wildlife Refuge, we recommend that you contact refuge staff for specific information about refuge resources. If your action is on Indian land or has implications for off-reservation tribal interests, we encourage you to contact the tribe(s) and the Bureau of Indian Affairs (BIA) to discuss potential tribal concerns, and to invite any affected tribe and BIA to participate in the section 7 consultation. In keeping with our tribal trust responsibility, we will notify tribes that may be affected by proposed actions when section 7 consultation is initiated. For more information, please contact our tribal coordinator, John Nystedt at (928) 556-2160 or John Nystedt@fws.gov. We also recommend that you coordinate your project with the Arizona Game and Fish Department, and utilize their Environmental Review On-Line Tool that can be accessed at http://www.azgfd.gov/hgis/.

Thank you.

W:\Nichole Engelmann\IPaC\Website IPaC Notices\IPaC Website Cover letter June 2014.docx



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 9

75 Hawthorne Street San Francisco, CA 94105-3901

MEMORANDUM

SUBJECT:

Ecological Risk Assessment and Special Status Species

Evaluation

Seimens Water Technologies Corporation Carbon Reactivation

Facility Parker, AZ facility EPA ID No. AZD 982 441 263

RCRA Part B permit application

FROM:

John Beach

TO:

John Moody

EPA Project Manager

DATE:

February 25, 2009

This memorandum summarizes the status of the subject permit application with respect to the requirements for the protection of individual species and/or ecosystems set forth in:

- The Endangered Species Act of 1973, as amended (ESA)
- The Migratory Bird Treaty Act of 1918, as amended (MBTA)
- Current Arizona state laws
- Other laws or regulations imposing requirements specific to Colorado River fisheries

The Section 7(a)(1) of the ESA requires that each Federal agency shall insure that any action that they authorize is not likely to jeopardize the continued existence of a listed species or result in the destruction or adverse modification of designated critical habitat. The "Action Agency", EPA in this case, must determine whether such jeopardy may occur, and if it does, must consult with the U.S. Fish and Wildlife Service.

The MBTA prohibits the "taking" of (bird) species identified in any of several treaties among the U.S. and foreign governments. Federal agencies taking actions that have, or are likely to have, a measurable negative effect on migratory bird populations are required to take specified mitigating actions in conjunction with the U.S. Fish and Wildlife Service.

My research did not identify any current Arizona state laws or other laws or regulations specific to Colorado River fisheries that imposed requirements for the protection of individual species and/or ecosystems in addition to those listed above.

Memorandum from John Beach to John Moody Subject: Ecological Risk Assessment and Special Status Species Evaluation February 25, 2009 Page 2

I have reviewed the human health and ecological risk assessment dated July 30, 2007 provided to EPA by Seimens in support of their Part B permit application and Seimens' response to EPA comments dated March 13, 2008. Based on that review, I conclude that the results of the ecological risk assessment demonstrate:

- The action that EPA is considering, i.e., the issuance of the RCRA Part B permit
 to Seimens, is expected to not jeopardize the continued existence of a listed
 species or result in the destruction or adverse modification of designated critical
 habitat.
- The action that EPA is considering is expected to not result in the taking or endangerment of any species protected by the MTBA and is expected to not have any measurable negative effect on migratory bird populations.

Accordingly, I conclude that:

- No consultation with, or other action in conjunction with, the United States Fish and Wildlife Service is required for EPA's action.
- No additional evaluation of endangered or other special status species is needed for EPA's action.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 9

75 Hawthorne Street San Francisco, CA 94105-3901

MEMORANDUM

SUBJECT:

Ecological risk assessment status

Seimens Water Technologies Corporation Carbon Reactivation

Facility Parker, AZ facility EPA ID No. AZD 982 441 263

RCRA Part B permit application

FROM:

John Beach

TO:

John Moody

EPA Project Manager

DATE:

December 23, 2008

This memorandum summarizes the status of the ecological risk assessment activities for the subject permit application. The Resource Conservation and Recovery Act (RCRA), as implemented in 40 CFR §270.10, requires that RCRA Part B permits for the operation of treatment, storage and disposal facilities be protective of human health and the environment.

Seimens submitted a human health and ecological risk assessment dated July 30, 2007 in support of their Part B permit application. Mary Blevins reviewed that document and submitted her comments to Seimens on December 7, 2007 (attached). Seimens submitted a response to those comments on March 13, 2008.

On April 3, 2008 Mary Blevins sent an e-mail to Cheryl Nelson, the EPA project manager, stating that she had reviewed Seimens' response to comments and found no significant ecological concerns. Mary concluded that, based on the risk metrics used to evaluate the potential for adverse ecological effects and the very low values of those metrics, operation of the facility under the proposed permit conditions was protective of the environment.

Based on my review of Mary Blevins' correspondence and the documents submitted by Seimens, I conclude that the ecological risk assessment provides an adequate basis for EPA to conclude that the permit, as proposed, is protective of the environment.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IX



75 Hawthorne Street San Francisco, CA 94105

December 7, 2007

MEMORANDUM

TO:

Mary Blevins, Project Manager, WST-4

FROM:

Mary Blevins, Environmental Scientist/Ecological Risk Assessor,

WST-4

SUBJECT:

Review of "Draft Risk Assessment for the Siemens Water

Technologies Corporation Carbon Reactivation Facility, Parker,

Arizona", prepared by CPF Associates, Inc., July 30, 2007

EPA has completed its review of the ecological risk assessment portion of the subject document, which was submitted to EPA Region 9 as part of Siemens' Resource Conservation and Recovery Act (RCRA) Part B Permit Application. Risk assessment is a tool consisting of a series of scientific studies designed to conservatively evaluate the likelihood and magnitude of adverse human and ecological impacts from exposures to chemical releases.

The Siemens Water Technologies Corporation (Siemens) operates a carbon reactivation facility on lands owned by the Colorado River Indian Tribes near Parker, Arizona. Facility operations revolve around the reactivation of spent or chemically-contaminated carbon with thermal energy generated from an on-site carbon reactivation furnace. Newly reactivated carbon is a product that can be reused for the removal of toxic contaminants from various environmental media or waste streams. The Siemens Parker facility is currently regulated as an interim status facility under RCRA regulations. Siemens is seeking a RCRA permit for the treatment, storage and disposal of RCRA-regulated hazardous waste.

EPA's Office of Solid Waste has developed a comprehensive set of guidelines and strategies to evaluate putative human and ecological impacts associated with combustion facilities that manage hazardous wastes. These

guidelines are primarily captured in the August 1999 EPA document titled "Screening Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities" and September 2005 document titled "Human Health Risk Assessment Protocol for Hazardous Waste Combustion Facilities". Other EPA guidance documents used to support the evaluation of putative ecological impacts in this risk assessment include "Guidelines for Ecological Risk Assessment" (USEPA 1998) and "Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments" (USEPA 1997).

The combustion risk assessment guidance documents contain overarching risk assessment strategies and procedures that support assessment of potential human health and ecological impacts from routine operation and fugitive releases from industrial treatment units designed to manage, treat or destroy hazardous wastes. EPA has incorporated the results from this level of analyses to establish facility-specific, operational permit conditions which are sufficiently conservative to protect public and ecological health. Should Siemens' Part B Permit Application be deemed "technically complete", the hazardous waste treatment unit's operational parameters and standardized procedures, which were optimized in the comprehensive performance test (CPT or trial burn), would then be used to establish unit-specific and risk-based permit conditions designed to ensure protection of human and ecological health.

The 2003 risk assessment work plan identified conservative assumptions for evaluating putative risk from stack emissions to ecological receptors within the Siemens Parker facility area. The ecological risk assessment evaluated potential impacts to wildlife that may be of greatest risk based on habitat use, exposure potential, ecological significance, and population status. For this ecological risk assessment, the habitat types evaluated were representative of the environmental setting around the facility and included creosote bush scrub, agricultural areas, riparian corridors and backwaters, the Colorado River, and the Main Drain. Species selected for evaluation included aquatic life, plants, badger, Gambel's quail, great horned owl, burrowing owl, southwestern willow flycatcher, double-crested cormorant, Yuma clapper rail and mule deer. For Federally listed species, such as the Yuma clapper rail, assessment endpoints were protective at the individual level as opposed to population level.

In general, this review finds that the methods and strategies used to quantify the likelihood and magnitude of environmental impacts from Siemens' releases are consistent with the recommended procedures and strategies articulated in EPA's guidance reference. The methods which were used are largely consistent with the 2003 Agency-approved risk assessment work plan. The results of the evaluation of putative ecological risk from facility operations to ecological receptors were below ecotoxicologically based levels and below a conservative target level of Hazard Quotient = 0.25. This target level was chosen to be consistent with other combustion risk assessments conducted in Region 9

and to be protective of endangered and threatened species that must be evaluated at the individual level versus population level. As ecotoxicologically based levels were not available for desert tortoise, the evaluation of ecological risk to this species consisted of a qualitative discussion of factors relevant to the health of the desert tortoise and qualitative discussion of results from the evaluation of stack emissions on plants that might be consumed by this herbivorous species. The results of the evaluation of stack emissions on plants were below conservative target levels.

Appendix E Environmental Justice Findings

Evoqua Environmental Justice Analysis

Introduction

Executive Order 12898 entitled "Federal Actions To Address Environmental Justice in Minority Populations and Low-Income Populations" states in relevant part that "each Federal agency shall make achieving environmental justice part of its mission by identifying and addressing, as appropriate, disproportionately high and adverse human health or environmental effects of its programs, policies, and activities on minority populations and low-income populations." Section 1-101 of Exec. Order 12898, 59 Fed. Reg. 7629, (Feb. 16, 1994) further states that "Federal agencies are required to implement this order consistent with, and to the extent permitted by, existing law." Id. at 7632. As outlined in the U.S. EPA Administrator's Memorandum signed on July 24, 2014, "...U.S. EPA seeks to be responsive to the environmental justice concerns of federally recognized tribes, indigenous peoples throughout the United States, and others living in Indian country." U.S. Environmental Protection Agency's "Policy on Environmental Justice for Working with Federally Recognized Tribes and Indigenous Peoples" (July 24, 2014)

The U.S. EPA is proposing to issue a Resource Conservation and Recovery Act ("RCRA") hazardous waste permit for the Evoqua Water Technologies, Inc. ("Evoqua") facility near Parker, AZ (the "Facility"). Evoqua, previously known as Siemens Industries, Inc., Siemens Water Technologies, US Filter and Westates, operates a carbon regeneration facility located on the Colorado River Indian Tribes ("CRIT") Reservation. The U.S. EPA Regional Offices, including U.S. EPA Region 9, have for several years incorporated environmental justice considerations into their review of permit applications for RCRA permits and other permits. In addition, the Environmental Appeals Board has reinforced the importance of undertaking an environmental justice analysis in its opinions.

This environmental justice analysis attempts to identify communities and vulnerable populations that may be impacted by a proposed permit decision for the Facility. It also documents that U.S. EPA has incorporated environmental justice considerations into its permit application review and surveyed publicly available environmental and demographic data for the communities located near the Facility. In fulfilling its RCRA permitting obligations, the U.S. EPA also conducted a National Historic Preservation Act ("NHPA") Section 106 review and evaluated a human health and ecological risk assessment ("risk assessment") submitted by the permit applicant for the Evoqua Facility. The risk assessment demonstrates that, even with conservative assumptions, the potential risks associated with the Facility operations are below regulatory and target levels for human health impacts (both carcinogenic and non-cancer) and ecological impacts.

Regulatory Background

The U.S. EPA promulgated rules regulating carbon regeneration furnaces in 1991. Several facilities were already operating or had begun construction on carbon regeneration furnaces, including Evoqua (then known as US Filter Westates). Some of these existing facilities

achieved "interim status" to operate under the hazardous waste provisions of RCRA Subtitle C, while applying for a RCRA hazardous waste permit. The Evoqua Facility achieved interim status in August of 1991, and was thus required to be operated in compliance with the U.S. EPA RCRA interim status regulations for thermal treatment units.

The original Part B permit application for the Evoqua Facility was submitted to U.S. EPA in January 1996. Since then, several revisions to the application have been submitted and U.S. EPA has reviewed and commented on those revisions. CRIT, the landowner, signed as coapplicant on the permit application in 2009. In August 2011 U.S. EPA met with the CRIT Tribal Council ("Council") and provided a presentation on the status of the Evoqua Facility permit application. On September 22, 2014, the U.S. EPA briefed the Council and initiated formal tribal consultation. On March 12, 2015 the U.S. EPA conducted a second presentation for the Council as part of its consultation process. The Council informed U.S. EPA on April 25, 2016 that it approved the endorsement of its 2009 signature on the RCRA Hazardous Waste Part B Permit Application Certification. The first phase of tribal consultation (the application phase) was completed on May 20, 2016. U.S. EPA will continue consulting with the Council and will initiate an additional formal consultation in advance of a final permit decision.

The Evoqua Facility is also subject to the Clean Air Act, the Clean Water Act, and the Emergency Planning and Community Right-to-Know Act ("EPCRA"). Under the Clean Air Act, the Facility must report estimated air emissions of certain contaminants annually to the U.S. EPA. Under the Clean Water Act, the Facility must treat waste waters before discharging them to the local waste water treatment system, and must have a storm water management plan. Under EPCRA, the Facility must provide information to local emergency response agencies about hazardous materials stored at the Facility. Under the Toxic Release Inventory (which is part of EPCRA), the Facility must report to U.S. EPA releases of certain contaminants.

Local Area and Environmental Data

Local Area

The Evoqua Facility is located at 2523 Mutahar Street near Parker, Arizona on the Colorado River Indian Reservation. Parker is located within La Paz County. The Colorado River Indian Reservation spans the Colorado River and occupies land in Arizona (La Paz County) and California (San Bernardino and Riverside counties). The Reservation covers 284,691 acres, 241,995 acres (85%) of which are in Arizona and 42,696 acres (15%) of which lie across the river in California. The Reservation is located in an area known as the Sonora Desert. Along the Colorado River, riparian habitat supports stands of trees. Sparse shrub land and bare desert soil become more predominant further away from the river.

Approximately one-third of the Reservation land is used for agriculture. Agricultural production on the Reservation is focused in the fertile lands found along the Colorado River. Irrigation water from the Colorado River is delivered through a network of canals and allows the production of agricultural commodities such as cotton, alfalfa, wheat, feed grains, lettuce, and melons.

The primary residential and commercial areas on the Reservation are Parker, Big River, and Poston. Many areas along the Colorado River are used for camping, fishing, and water sports. Recreational and subsistence fishing occurs both along the river and in the 250 miles of irrigation canals on the Reservation. The Evoqua Facility represents an industrial land use area on the Reservation and is approximately 2.5 miles from the Colorado River.

The U.S. EPA conducted a survey within a five-mile area around the Facility using NEPAssist to identify healthcare facilities, schools and community gathering places. Two hospitals and four schools were identified within that area. The schools consisted of two elementary schools, one junior high school and one high school. A few churches that may be used as community gathering places were also identified.

Environmental Data

La Paz County is currently designated as Unclassifiable/Attainment for all Clean Air Act National Ambient Air Quality Standards. Neither the city of Parker nor the Evoqua Facility are located near any major highways or freeways. However, there is a five-lane avenue that runs through the center of the city of Parker.

Portions of the Colorado River near Parker, Arizona have been identified on the Clean Water Act Section 303(d) list¹. The State of Arizona's 2012/14 Status of Water Quality: Arizona's Integrated 305(b) Assessment and 303(d) Listing Report identifies the portion of the Colorado River from Bill Williams River to Osborne Wash as impaired due to selenium pollution. (See Appendix C at https://www.azdeq.gov/environ/water/assessment/index.html.) The State of California's Final California 2012 Integrated Report (303(d) List/305(b) Report) identifies the portion of the Colorado River and associated lakes and reservoirs from Lake Havasu Dam to Imperial Dam as impaired due to toxicity pollution (see http://www.waterboards.ca.gov/water_issues/programs/tmdl/2012state_ir_reports/01862.sht ml#30666)

The 2015 Consumer Confidence Report from the CRIT Utility Services indicates that there was a violation of the drinking water standard for total coliform in May through June 2015. According to the CRIT Utility Services Consumer Confidence Report, the water treatment plant has been meeting the Safe Drinking Water Act since July 2015 and continues to monitor bacteria monthly to ensure drinking water safety. The 2014 Consumer Confidence Report from the Big River Water Company indicates that none of the drinking water contaminants detected during

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¹ The term "303(d) list" refers to the list of impaired and threatened waters (stream/river segments, lakes) that the Clean Water Act requires all states to submit for EPA approval every two years. The states identify all waters where required pollution controls are not sufficient to attain or maintain applicable water quality standards, and establish priorities for development of Total Maximum Daily Loads ("TMDLs") based on the severity of the pollution and the sensitivity of the uses to be made of the waters, among other factors (40 Code of Federal Regulations ("CFR") §130.7(b)(4)). States then provide a long-term plan for completing TMDLs within 8 to 13 years from first listing. Although the data EPA currently has about any threats to or impairment of the Colorado River comes from Arizona and California, EPA is currently undertaking consultation and coordination with federally recognized Indian tribes on a proposed rulemaking to provide more opportunities to fully engage tribes in the Clean Water Act Section 303(d) Impaired Water Listing and TMDL Program.

that calendar year exceeded or violated federal standards.

Demographics and Health Data

Demographic Information

For this environmental justice analysis, the U.S. EPA collected available demographic data for a five-mile radius from the Evoqua Facility and La Paz County, and compared that with data available for the state of Arizona, U.S. EPA Region 9 and nationally.

Demographic Information for La Paz County, Arizona and 5 mile radius from Evoqua Facility

| Metric | 5 mile | La Paz County | State | Region | USA |
|--|--------|---------------|-----------|------------|-------------|
| Total population | 7,463 | 20,460 | 6,410,979 | 46,370,806 | 309,138,709 |
| Population density | 91 | 5 | 56 | NA | 88 |
| Minority (%) | 54 | NA | 42 | 57 | 36 |
| Tribal or Indigenous (%) | 24 | 13 | 4.4 | NA | 0.8 |
| Low income (average per family income; % below 200% of poverty line) | 58 | 53 | 37 | 35 | 34 |
| Population \leq 5 years of age (%) | 7 | 4 | 7 | 7 | 7 |
| Population ≤ 18 years of age (%) | 26 | 17 | 24 | NA | 24 |
| Population \geq 65 years of age (%) | 16 | 36 | 14 | 12 | 13 |
| Over 25 years of age with less than high school diploma (%) | 26 | 25 | 16 | 19 | 15 |
| Linguistically Isolated (%) | 4 | 4 | 6 | 10 | 5 |
| Unemployment Rate | NA | 7.1 | 5.4 | NA | 5.6 |

The population within a five-mile radius of the Evoqua Facility is above both the State and national average for percent minority (54%) and low income (58%). In addition, both the population within a five-mile radius of the Evoqua Facility and La Paz County contain significantly higher percentages of Tribal or Indigenous populations than in the State or nationally.

The U.S. EPA also reviewed data regarding linguistic isolation, which may limit a household's capacity for civic engagement in the regulatory process. A linguistically isolated household is defined by the U.S. Census Bureau as a household in which no member 14 years old and over: (1) speaks only English; or (2) speaks a non-English language and speaks English "very well." In other words all members 14 years old and older have at least some difficulty with English. The percent of linguistically isolated households within the five mile radius of the Evoqua Facility and in the County of La Paz was similar to that of the State and nationally. However, the U.S. EPA has determined that a substantial portion of the population, approximately 24%, speak a language other than English at home.

Approximately 25% of people over the age of 25 do not hold a high school diploma within a five-mile radius of the Evoqua Facility or within La Paz County. This is a higher percentage within the five-mile radius or within the County as compared to the percentage of such persons within the State overall or nationally. Education level is another factor that may

influence susceptibility and vulnerability to environmental pollution. Limited formal education is a barrier to employment, health care and social resources, and can increase the risk of poverty, stress, and impacts from environmental stressors. The U.S. EPA has also determined that the population of La Paz County had a higher rate of average monthly unemployment during the month of March 2015, as compared to the rates of average monthly unemployment at the State level and nationally.

Health Information

The U.S. EPA has also reviewed health data information for the population of La Paz County and compared that with available data for the State and nationally. Health data for CRIT was not available. The county data collected is summarized below.

Community Health Information

| Health Metric | La Paz County | State | USA |
|---|---------------|-------|-------|
| Incidence of Asthma (%) | 19.81 | 13.81 | 13.36 |
| Infant Mortality (per 1,000 births) | 8.3 | 6.3 | 6.52 |
| Low Birth Weight | 6.3 | 7.1 | 8.2 |
| Adults with Diabetes (%) | 10.1 | 8.25 | 9.09 |
| Adults with Heart Disease (%) | 12.04 | 3.97 | 4.4 |
| Adults Uninsured (%) | 16.12 | 16.95 | 14.87 |
| Total Population Uninsured (%) | 30 | 23.39 | 20.76 |
| Access to Primary Care (primary care physicians per 100,000 people) | 34.52 | 65.25 | 74.5 |

The data organized in the table shows that La Paz County has higher incidences of asthma, infant mortality, diabetes and heart disease than the State and country. In addition, La Paz County has less access to primary care, as indicated by the number of primary care physicians per 100,000 people. Moreover, the percentage of the total population without health insurance is higher than the state and national percentages.

Evoqua Facility Emissions and Compliance Information

Annually, Evoqua Facility receives over 5,000 tons of spent carbon from 30- 35 states across the United States. According to Evoqua's estimates, less than approximately 11% of this spent carbon is considered hazardous waste. On average, spent carbon is fed through the system at a rate of about 2,700 pounds per hour.

Permit Condition V.C. of the permit (part of which is reproduced below) contains performance and emission limits for the furnace.

PERFORMANCE AND EMISSION LIMITS FOR FURNACE AND AIR POLLUTION CONTROL EQUIPMENT

| Parameter | Purpose | Limit (1) | |
|---|---------------------------------------|---|--|
| Destruction and Removal
Efficiency (DRE) | Limit organic emissions | 99.99% | |
| Particulate Matter (PM) | Limit PM emissions | 0.013 gr/dscf (2) | |
| HCl/Chlorine | Limit HCl/chlorine combined emissions | 32 ppmdv (3) | |
| SO_2 | Limit SO ₂ emissions | 30.01 tons per consecutive 12 month period | |
| NOx | Limit NO _x emissions | 22.22 tons per consecutive
12 month period | |
| Mercury | Limit mercury emissions | 130 μg/dscm (4) | |
| Semi volatile metals (5) | Limit Pb and Cd emissions | 230 μg/dscm | |
| Low volatile metals (6) | Limit As, Be and Cr emissions | 92 μg/dscm | |
| Dioxin and furans | Limit dioxin and furan emissions | 0.4 ηg TEQ/dscm (7)(10) | |
| Carbon monoxide (8) | Ensure good combustion | 100 ppmdv (3) | |
| Total hydrocarbons (9) | Limit organic emissions | 10 ppmdv (3) | |

- (1) All values except DRE are corrected to 7% oxygen in the stack gas.
- (2) "gr/dscf" is grains per dry standard cubic foot of stack gas.
- (3) "ppmdv" is parts per million on a dry volumetric basis in the stack gas.
- (4) "µg/dscm" is micrograms per dry standard cubic meter of stack gas.
- (5) Semi-volatile metals are lead and cadmium.
- (6) Low volatile metals are arsenic, beryllium and chromium.
- (7) "ngTEQ/dscm" is nanograms TEQ per dry standard cubic meter.
- (8) 100 ppm by volume on a dry gas basis using a one hour rolling average.
- (9) Measured only during the Comprehensive Performance Test.
- (10) TEQ means the international method of expressing toxicity equivalents for dioxins and furans as defined in U.S. EPA, Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 Update, March 1989.

The Evoqua Facility has been inspected by the U.S. EPA regularly since 1992, its first year of operation. Most recently, U.S. EPA conducted a physical inspection of the Evoqua Facility on March 3-4, 2015 and reviewed records related to Evoqua Facility's permitted operating units, financial assurance, inspections and training. U.S. EPA determined that the Evoqua Facility was in compliance with applicable RCRA requirements.

A collection of previous inspection reports are available for review at http://www.epa.gov/region09/waste/evoqua/frequent.html#WhatisEvoquacompliancehistory

<u>Human Health and Ecological Risk Assessment</u>

As part of the RCRA permitting process, Evoqua completed and submitted a risk assessment to the U.S. EPA for review in July 2007. The risk assessment was updated in April

2012 and July 2014. Its purpose was to estimate the Evoqua Facility's current and possible future impacts on the health of local residents and the surrounding environment. The risk assessment is designed to be protective of sensitive individuals, such as children, the elderly, those with predispositions, and communities with unique exposure patterns.

The risk assessment consisted of a scientific study of the various ways toxic or hazardous substances from the Facility might come into contact with individuals and/or the ecosystem and a calculation of how likely it would be for adverse human health and/or ecological impacts to occur because of such toxic or hazardous substances at the Facility. The risk assessment considered a broad range of constituents, including approximately 160 compounds that have the potential to be emitted or released from the Facility. The health-based threshold for systemic health impacts in this assessment was reduced by 75% in an effort to account for cumulative exposures from any other facilities in the surrounding area.

More information on the risk assessment for the Facility can be found at https://www3.epa.gov/region9/waste/evoqua/risk.html.

The risk assessment made the following conclusions:

- 1. The potential risks associated with air emissions from both the Facility's carbon reactivation furnace and from spent carbon unloading are below regulatory and other target risk levels, for both human health and ecological receptors;
- 2. The incremental contribution of effluent from the Facility's wastewater treatment plant and the Main Drain does not pose unacceptable risks to either aquatic life or human health; and,
- 3. Both concentrations of fugitive emissions from carbon unloading at the Facility and measured worker breathing zone concentrations are below occupational exposure limits.

Historic Preservation and Sacred Sites

As part of this permitting process, the U.S. EPA conducted a NHPA Section 106 review at the Facility, in formal consultation with the Town of Parker, Evoqua, CRIT, and the Arizona State Historic Preservation Office. U.S. EPA also met with the CRIT Tribal Elders at the CRIT Senior Center to discuss the NHPA Section 106 review. As part of this review, the U.S. EPA designated an Area of Potential Effects ("APE"), solicited input from the public and the consulting parties, identified potential historic or culturally significant properties within the APE, and considered potential effects of Facility operations to those properties, including visual and auditory impacts, as well as impacts stemming from the presence of chemicals in the Facility's emissions.

EPA noted that the Facility can continue operating and processing spent carbon that does not constitute a hazardous waste, even if the hazardous waste permit is denied. Under this premise, EPA determined that the issuance of a RCRA permit would not result in a change in the visual or auditory impacts from the Facility, the cessation of emissions that contain the presence of chemicals, or an increase in NO_x or SO_x emissions. Thus, U.S. EPA made a determination

that no historic properties would be affected by the issuance of a RCRA hazardous waste permit. Evoqua, CRIT Environmental Protection Office, and Arizona State Historic Preservation Office concurred with U.S. EPA's no affect determination.²

More information regarding U.S. EPA's National Historic Preservation Act determination can be found at https://www3.epa.gov/region9/waste/evoqua/national.html.

Outreach Activities for the Proposed Permit Action

The U.S. EPA Region 9 has posted extensive information related to the Evoqua Facility on its public website at https://www3.epa.gov/region9/waste/evoqua/index.html. The website contains information about the Evoqua Facility, including the complete RCRA application, the Facility's air emissions, a summary of the risk assessment for the Facility, a discussion explaining the RCRA permitting process for the Facility, the NHPA consultation process, the public participation process for this permitting action and personnel at the U.S. EPA Region 9 for interested parties to contact. In addition to this information, the website also contains fact sheets summarizing many of the decisions the U.S. EPA has made throughout the permitting process.

The U.S. EPA strives for open communication and meaningful involvement with indigenous peoples and communities and also encourages an appropriate level of involvement by other federal and non-federal government agencies in matters in which the U.S. EPA is involved, as is called for in the U.S. EPA's "Policy on Environmental Justice for Working with Federally Recognized Tribes and Indigenous Peoples" (July 24, 2014). Consistent with this policy, the U.S. EPA held several public meetings and conducted interviews with community members about the Evoqua Facility. Interviews were conducted in October 2011. Members of the public and the CRIT Environmental Protection Office were also consulted in order to select meeting locations and schedules that could accommodate interested community members and facilitate community involvement. The CRIT Environmental Protection Office was also contacted for information regarding the publication of advertisements notifying the community of pending public meetings. Informational public meetings were held in March 2015 and August 2011. During these public meetings members of the public were informed of the RCRA permitting process and specific information relating to the Facility, including this proposed action.

As a part of this specific permitting action, the U.S. EPA Region 9 has also attempted to notify members of the public of its proposed action. The U.S. EPA has mailed and emailed public notices of its proposed permitting action to other government agencies, members of the public, and other organizations interested in the permitting action. Notices were mailed and emailed in both English and Spanish. A copy of the full public notice is available online at: www.epa.gov/region9/waste/evoqua.

The U.S. EPA has posted the draft proposed permit, draft statement of basis and other supporting

² The town of Parker did not object to U.S. EPA's no affect determination. The town of Parker was notified of U.S. EPA's NHPA Section 106 determination and provided an opportunity to object to the determination within 30 days of the notification. The town of Parker did not respond.

documentation at www.epa.gov/region9/waste/evoqua.

For this proposed decision, any interested person may submit written comments regarding the proposed RCRA permit. All written comments regarding this permit action must be received or postmarked by November 15, 2016. Comments must be sent or delivered in writing to the Land Division at one of the following address:

Written comments must be postmarked or posted by November 15, 2016 and sent to:

"Mike" Mahfouz Zabaneh, P.E. Phone: 415-972-3348 US EPA Region 9 Fax: 415-947-3530

75 Hawthorne Street, LND 4-2 Email: <u>zabaneh.mahfuoz@epa.gov</u>

San Francisco, CA 94105

The proposed draft permit, the Statement of Basis, and the most recent Part B application, can be found at the addresses provided below or by visiting our website:

| US EPA | Colorado River Indian Tribes | Parker Public Library |
|--|---------------------------------------|------------------------|
| 75 Hawthorne St. 3 rd Floor | Museum and Library | 1001 South Navaho Ave. |
| San Francisco, CA 94105 | CRIT Administrative | Parker, AZ 85344 |
| (415) 974-4597 | Complex | (928) 669-2622 |
| | (At 2 nd Avenue and Mohave | |
| | Road) | |
| | 26600 Mohave Road | |
| | Parker, AZ 85344 | |
| | (928) 669-1332 | |

These libraries also have additional information and fact sheets about Evoqua.

In addition, U.S. EPA will hold a Public Information Meeting for the purpose of providing interested parties with additional information and an opportunity for informal discussion of the proposed RCRA permit.

Immediately following the Public Information Meeting, the U.S. EPA will hold a Public Hearing, pursuant to 40 CFR Section 124.12, to provide the public with further opportunity to comment on the draft proposed RCRA permit. At the Public Hearing, any interested person may provide written comments, and relevant data pertaining to the draft proposed RCRA permit.

The Public Meeting/Public Hearing will be held on November 1, 2016 at the Mohave Conference Room at the Bluewater Resort and Casino, located at 11300 Resort Drive in Parker, Arizona. The Public Meeting/Public Hearing time is at 7:00 pm.

Before taking final action, the U.S. EPA will consider all written and oral comments submitted during the public comment period, including those provided at the public hearing, before taking final action on the Facility's RCRA permit application.

The U.S. EPA will send notice of the final decision to each person who provides contact information and who: (i) submits comments during the public comment period, including oral comments provided at the public hearing; or (ii) requests notice of the final permit decision. The U.S. EPA will summarize the contents of all substantive comments and provide written responses in a document accompanying the U.S. EPA's final permit decision. The U.S. EPA will also make a transcript of the Public Hearing Proceedings available to the public.

Appendix F Administrative Record File List

| Evoqua Admin Record Part A |
|---|
| 1981 03 12 RCRA Online 9487_1981_01_ with marginalia 1993 08 04.pdf |
| 1985 07 10 Skinner Ltr re Carbon Regen.pdf |
| 1986 04 02 _9441_1986_26 Carbon Regeneration Facilities 1.pdf |
| 1986 07 15 OSWER 9441_1986_54 activated carbon cannisters saturated with spent solvents.pdf |
| 1986 07 XX _9441_1986_59 reclaimed sludges.pdf |
| 1986 XX XX RCRA Online 9528_1986_01_ with marginalia 1993 Aug 4.pdf |
| 1987 07 09 RO 9483_1987_10_ Secondary Containment Piping.pdf |
| 1987 08 03 RO 9483.1987_14_ Pressurized Piping auto shut off.pdf |
| 1987 09 23 RO 9483_1987_17_ 2ndary containment above grd flanges valves.pdf |
| 1988 06 09 RO 9483_1988_11 Pump Exemption Secondary Containment.pdf |
| 1988 07 01 Highway System Map - Colorado River Indian Reservation Scan 24B - 6 pages.pdf |
| 1989 08 24 Letter Info related to Air Quality Permit w o encls.pdf |
| 1989 09 12 Letter Re_CRIT_Concerns_1989.pdf |
| 1989 11 30 9483_1989_04 Response to October 30 Letter re Secondary Containment.pdf |
| 1990 02 16 Letter EEI retained for Env Assessment.pdf |
| 1990 03 01 Response to 02061990 Letter for List of Species.pdf |
| 1990 03 03 Spent Carbon Flow Control Scheme.jpg |
| 1990 03 08 Letter Request_Info_to_complete_Environmental Assessment.pdf |
| 1990 06 12 Transmittal of All Info Compiled from co approached the CRIT -06121990.pdf |
| 1990 06 22 Process Flow Diagram.jpg |
| 1990 06 25 Certificate of Disclosure.pdf |
| 1990 07 26 excerpts of Business Lease CRIT and Westates.pdf |
| 1990 08 03 Letter Request for Review of Draft NEPA Document.pdf |
| 1990 09 07 EPA Review of BIA Draft EA.pdf |
| 1990 09 14 Notification of Intent to Construct Facility for Activated Carbon.pdf |
| 1990 09 14 Re Review of Environmental Assessment.pdf |
| 1990 09 XX EPA comments on BIA draft EA.pdf |
| 1990 10 25 Response to Letter of Determination.pdf |
| 1990 11 05 Letter Regarding Preliminary Review of Discharge.pdf |
| 1990 11 29 Letter Re_Cultural_Resources_Determination.pdf |

| 1990 12 01 Westates Maps and Photos.pdf |
|---|
| 1990 12 18 Topographic Survey.jpg |
| 1991 02 21 CFR Regulation of Carbon Regeneration Units.pdf |
| 1991 04 02 Transmittal Letter w o attchmt Environmental Assessment.pdf |
| 1991 06 24 Letter re Determination that Proposed Proj does not discharge dredge.pdf |
| 1991 08 02 EPA OSW PPC 9489_1991_04 Reg Status Carbon Regen Units.pdf |
| 1991 08 05 RCRA Part A Permit Application.pdf |
| 1991 08 12 Aerial Photo.jpg |
| 1991 08 12 Letter re Part A Permit Application.pdf |
| 1991 08 12 Part A Application Form 8700 reduced size.pdf |
| 1991 08 12 Part A Application_Cover_Letter_1991.pdf |
| 1991 08 12 Topographic Map 1 of 2.jpg |
| 1991 08 12 Topographic Map 2 of 2.jpg |
| 1991 08 12 Topographic Map.jpg |
| 1991 08 12 Westates Arial Photo scan 16_jpg - OneDrive_aspx.mht |
| 1991 08 12 Westates Arial Photo scan 20_jpg - OneDrive_aspx.mht |
| 1991 08 12 Westates Arial Photo scan 23_jpg - OneDrive_aspx.mht |
| 1991 08 12 Westates Arial Photo scan3_jpg - OneDrive_aspx.mht |
| 1991 08 12 Westates Arial Photo scan4_jpg - OneDrive_aspx.mht |
| 1991 08 12 Westates Topo Map Scan 1_jpg - OneDrive_aspx.mht |
| 1991 08 12 Westates Topo Map scan 17_jpg - OneDrive_aspx.mht |
| 1991 08 12 Westates Topo Map scan 18_jpg - OneDrive_aspx.mht |
| 1991 08 12 Westates Topo Map scan 21_jpg - OneDrive_aspx.mht |
| 1991 08 12 Westates Topo Map scan 22_jpg - OneDrive_aspx.mht |
| 1991 08 12 Westates Topo Map scan2_jpg - OneDrive_aspx.mht |
| 1991 08 12 Westates Topo Map scan5_jpg - OneDrive_aspx.mht |
| 1991 08 12 Westates Topo Map scan6_jpg - OneDrive_aspx.mht |
| 1991 08 12 Westates Topo Map Sheet 1 of 2 scan 14_jpg - OneDrive_aspx.mht |
| 1991 08 12 Westates Topo Map Sheet 2 of 2 scan 15_jpg - OneDrive_aspx.mht |
| 1991 10 10 HQ Delegation 8-6 RCRA TSDF Permits.pdf |
| 1991 11 06 Parker Pioneer Article of Westates Breaking Ground.pdf |

| 1991 est Date not legible Westates Flow Diagram scan 19 jpg - OneDrive aspx.mht |
|--|
| 1992 02 14 Interim Status Eligibility incl portions of lease.pdf |
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Appendix G RCRA Facility Assessment

REVISED DRAFT RCRA FACILITY ASSESSMENT REPORT

Evoqua Water Technologies, LLC. 2523 Mutahar Street Parker, Arizona AZD 982 441 263

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY Region 9 75 Hawthorne San Francisco, CA

Date of Revised Draft US EPA Region 9 Site No. Document Control No. Contract No. Draft RFA Prepared by

Revised Draft RFA Prepared By Telephone No. (415) 972-3348

September 2016

AZD 982 441 263 REPA3-0903-017 68-W-02-022 Booz Allen Hamilton

USEPA Project Manager "Mike" Mahfouz Zabaneh

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1.0 EXECUTIVE SUMMARY

The owner or operator of a facility seeking a Resource Conservation and Recovery Act (RCRA), (42 U.S.C. §§6901 *et seq.*) permit must institute corrective action operations as necessary to protect human health and the environment. The RCRA corrective action process includes development of a RCRA Facility Assessment (RFA). The RFA is conducted by the United States Environmental Protection Agency (EPA or Agency) to determine the presence or potential release of hazardous constituents into the environment from any hazardous waste management units (HWMUs), solid waste management units (SWMUs), or areas of concern (AOCs) at a facility.

In 2001, EPA began the process of developing an RFA for the Evoqua Water Technologies LLC (Evoqua or facility) facility located on the Colorado River Indian Tribes (CRIT) reservation near Parker, Arizona which is located at 2523 Mutahar Street

Parker, Arizona (AZD 982 441 263). This facility was formerly known as Siemens Water Technologies LLC, Siemens Industries Inc., U.S. Filter-Westates, and Westates Carbon-Arizona, Inc. For ease of reference, the facility operator is referred to throughout this RFA as "Evoqua." Prior names remain in older documents, maps, and diagrams that are used or referenced in this document.

A Draft RFA was prepared by EPA's contractor, Booz Allen Hamilton, Inc. (Booz Allen Hamilton), in September 2003. Additional information used in this RFA was provided by Evoqua in more recent versions of the Part B Permit Application, and this 2016 revision includes that information.

The first visual site inspection (VSI) at the facility was conducted in September 2003 by Booz Allen Hamilton. During the VSI 35 SWMUs were identified at the Evoqua facility. As a result of an EPA request for information dated September 2011, Evoqua re-categorized its SWMUs and AOCs as HWMUs, SWMUs, and AOCs. A follow-up VSI was conducted in March 2014 by EPA. The second VSI identified 25 HWMUs, 19 SWMUs, and 14 AOCs.

The findings of this revised draft RFA show that there is no need for immediate corrective action at this facility. The waste management units and AOCs at this facility will be further investigated and, if needed, will be cleaned up at the time of the facility closure, in accordance with the procedures documented in the Facility's closure plan.

2.0 INTRODUCTION

2.1 Purpose of the RCRA Facility Assessment

The 1984 Hazardous and Solid Waste Amendments (HSWA) to RCRA provide EPA with the authority to require corrective action at RCRA facilities. Corrective action is the process through which areas of a facility that could have received hazardous waste or constituents are evaluated and, if necessary, cleaned up. RCRA facilities include all facilities that currently treat, store, or dispose of RCRA-regulated hazardous waste or constituents (or have done so in the past). HSWA refocused the corrective action program from detecting and correcting future releases from regulated units, to cleaning up problems resulting from current and past waste management

practices at RCRA facilities. The HSWA corrective action program addresses releases to all media including: groundwater, surface water, the atmosphere, surface soils and subsurface soils, both on and off-site; and sources across the entire facility.

The RCRA corrective action process consists of an appropriate combination of the following activities: a Preliminary Review (PR) of regulatory files for the site; conducting a Visual Site Inspection (VSI); conducting a Sampling Visit (SV), if deemed necessary; and preparation of an RFA Report. RFAs compile existing information on environmental conditions at a given facility, including information on actual or potential releases. The RFA focuses on obtaining information on the potential that a release has occurred from any HWMU, SWMU or any other AOC where wastes containing hazardous constituents have been managed or released at the facility.

EPA Region 9 requested Booz Allen Hamilton conduct an RFA of the Evoqua facility located in Parker, Arizona on the Colorado River Indian Reservation. The first phase of the RFA was a file search at the EPA Region 9 office in San Francisco, California and at the Arizona Department of Environmental Quality (ADEQ) office in Phoenix, Arizona. Brief interviews with ADEQ staff regarding the Evoqua facility records were conducted during the PR file search. The ADEQ interviews resulted in no file material different from what was found at EPA Region 9. The results of the file search were summarized in a PR Report dated March 2001.

The second phase of the RFA was a VSI conducted at the facility on July 12, 2001. The purpose of the VSI was to visually inspect SWMUs and AOCs at the Evoqua facility, to identify additional SWMUs, and to fill site characterization information gaps identified during the PR by interviewing facility personnel and reviewing on-site records. The CRIT was invited to attend the VSI by EPA Region 9 but declined to send a representative. Based on the findings and conclusions of the PR/VSI portion of the RFA, an SV at the facility was not deemed necessary.

On February 4, 2002, following the VSI, a letter was sent to the CRIT by Booz Allen Hamilton requesting relevant information and data from their files to complete the RFA investigation. A verbal response was received from a CRIT representative on February 8, 2002, indicating that no additional information or data relevant to the RFA is in the CRIT files.

The Draft RFA was prepared by Booz Allen Hamilton in September 2003. The RFA was more recently updated by the EPA Project Manager using information that was provided by Evoqua in the more recent Part B Permit Application's References 1 through 5 listed on page vi of the Table of Contents.

The Part B permit application was submitted on the following dates:

- January 1996 (Part B Permit Application Reference 1);
- February 2007 (Part B Permit Application Reference 2);
- April 2012 (Part B Permit Application Reference 3);
- July 2014 (Part B Application Reference 4); and
- April 2016 (Part B Permit Application Reference 5).

A follow-up VSI was conducted by the EPA Project Manager in March 2014 (Appendix A). EPA invited the CRIT Environmental Protection Office (EPO) to participate in the VSI, however the CRIT EPO declined and requested a debriefing of the EPA findings. The debriefing took

place on the last day of the VSI at the EPO on Friday, March 14, 2014. During the VSI, EPA inspected the facility and documented the conditions of the SWMUs, HWMUs, and AOCs. The EPA Project Manager reviewed the last three (3) years of the facility's operating records, inspection records, and calibration records. The new VSI photographic documentation can be found in Appendix A.

2.2 <u>General Procedures Used for Gathering Information</u>

Each of the steps to the RFA requires the collection and analysis of data to support release determinations. During the PR process, existing documents, such as inspection reports and permit applications, are evaluated; and interviews are conducted with Federal, State, and Tribal personnel who are familiar with the facility. Additional site characterization information is gathered during the VSI, including visual observation of the site, interviews with the representatives of the facility, and review of requested file material from the facility and Tribal representatives.

2.3 <u>Facility Information</u>

The EPA Identification (ID) number for Evoqua is AZD982441263. The Standard Industrial Codes (SIC) for the facility are 4953 (refuse systems) and 9999 (otherwise unclassifiable establishments). The facility is located within the CRIT reservation lands.

The facility is divided into three main areas: (1) the receiving, unloading, and drum storage area; (2) the tank storage area and process (treatment) area; and (3) the reactivated carbon storage, packaging, and shipping area. The areas where hazardous waste is managed includes: (1) a container and bulk receiving and unloading area; (2) a container storage warehouse area; (3) four spent carbon slurry storage tanks; (4) and the carbon reactivation furnaces: RF-1 (used between 1992-1996) and RF-2 (1996-present) and the associated air pollution control equipment. Facility layout maps are included in Appendices D1 and D2 to this RFA report, and a process flow diagram is provided in Appendix E. This diagram is from the Permit Application Reference 5.

The facility operates 24 hours per day, seven days per week, and therefore is staffed continuously by operating personnel. The facility employs approximately 24 people.

3.0 SITE DESCRIPTION

3.1 Site Location

The facility is located within the CRIT Industrial Park, an area zoned for commercial and industrial uses on the Colorado River Indian Reservation. The facility is adjacent to US 95 with access to I-8, I-10, and I-40. The site is about one mile southeast of Parker, Arizona, in the county of La Paz in Township 9 North, Range 19 West, and Section 7, at the Gila and Salt River Base Line and Meridian. The latitude of the facility is 34°07'55", and the longitude is 114°16'19.7". The facility is located on approximately 10 acres of land. One entrance to the facility for all vehicles exists from Mutahar Street. A delivery truck of spent carbon must pass through one gate to get to the unloading area of the facility. The gates to the facility are chain

link and topped with barbed wire. Appendix C to this RFA report presents the site location map for the Evoqua facility.

The physical address for the facility is:

2523 Mutahar Street Parker, Arizona 85344

3.2 Owner/Operator History

In May 1989, Evoqua approached the CRIT with a request to build a carbon reactivation facility in the CRIT Industrial Park in Parker, Arizona. On July 14, 1990, the CRIT approved the request for the land lease and facility construction on tribal lands. The agreement between Evoqua and the CRIT was then submitted to the U.S. Department of Interior, Bureau of Indians Affairs (BIA) for final approval. Final approval and a land lease agreement was signed effective April 1, 1991.

In February 1991, an Environmental Assessment (EA) was performed by Evoqua to comply with the National Environmental Policy Act (NEPA). The EA was required since the proposed carbon reactivation plant was to be constructed and operated on Indian Trust Lands. The Superintendent of the BIA determined that through implementation of the proposed action and environmental mitigation measures specified in the EA, the proposed Evoqua reactivation plant site would have no significant impact on the quality of the environment. The EA states that an Environmental Impact Statement (EIS) was not required.

The facility began operation on August 23, 1992. It is currently owned and operated by:

Evoqua Water Technologies, LLC. 2523 Mutahar Street Parker, Arizona 85344

The address of the property owner (*i.e.*, the beneficial owner of the trust lands) is as follows:

Colorado River Indian Tribes Route-1, Box 23-B Parker, Arizona 85344

3.3 Processes and Waste Management

The following process and waste management descriptions are based on information and data provided to EPA in the facility's 1995 RCRA Part B permit application and in EPA's Compliance Evaluation Inspection (CEI) Reports, and information gathered during the VSI. The spent carbon reactivation processes are depicted in the carbon reactivation process flow diagram in Appendix E.

The facility receives spent (used) activated carbon from off-site customers who use activated carbon in equipment to adsorb organic compounds from aqueous and vapor processes and waste

streams. At the facility, the spent carbon is thermally reactivated in reactivation furnace RF-2. The reactivated carbon is checked for its reusability and shipped off-site for reuse.

The facility's revised October 1996 Part A application identifies 449 hazardous waste codes acceptable for treatment at the facility (See Appendix I of Part B Permit Application Reference 5). The list of hazardous constituents that may be adsorbed to the spent carbon is extensive, and may include, but is not limited to, volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), phthalates, amines, pesticides, and metals. Activated carbon is typically used to remove organic constituents from a liquid or gas stream. It is not customarily used to remove metals from a waste stream, although low concentrations of metals may be present in spent carbon. Analytical results in 1994 and 1995 of monthly composite spent carbon samples indicated that the carbon contained traces of several metals, including arsenic, beryllium, cadmium and chromium (See Appendix I of Part B Permit Application Reference 5). Spent carbon characterized as corrosive or reactive is not accepted at the Evoqua facility. Less than eleven percent of the carbon the facility receives is classified as RCRA hazardous waste.

At the Evoqua facility, two types of spent carbon are received, inspected, sampled, unloaded, and processed by thermal reactivation. The first type of carbon is known as wet carbon because it is used in aqueous systems. The amount of hazardous constituents in the wet carbon is typically less than five percent by weight. The particle size used in wet carbon is generally smaller than the type used in vapor phase applications. The second type of carbon is used in vapor phase applications and is called dry carbon. Dry carbon may contain five to ten percent by weight of hazardous constituents. Wet and dry spent carbons are mixed before processing in the reactivation furnace. The facility also reactivates nonhazardous spent carbon and combines hazardous and nonhazardous spent carbon for processing in the reactivation furnace.

Spent carbon is delivered by truck to the Evoqua facility in containers (55-gallon drums or filter canisters) and in bulk-load tank trucks and roll-off bins. About half of the spent carbon received at the facility comes in containers. Upon arrival at the Evoqua facility, the truck drivers provide the manifests for the load and Land Disposal Restriction (LDR) forms to a facility representative.

The facility takes samples of each shipment of waste arriving on site. For incoming drums, the square root of the number of drums in the shipment plus one is sampled. Spent carbon is typically received in bulk loads that comprise of either 10,000-pound (lb) roll-off bins or 20,000-lb slurry trucks. Samples are collected from each roll-off bin and from representative locations in slurry truckloads. The samples are tested for pH, ignitability, and water reactivity.

Evoqua personnel review the hazardous waste manifests, laboratory results, and other information concerning the incoming spent carbon and check this information against the waste profiles. Any discrepancies in manifests, LDR forms, or waste profile information are addressed before the waste is accepted for treatment. The spent carbon is rejected if it cannot be appropriately treated at the operating conditions of the reactivation furnace.

Following receipt, inspection, and acceptance at the spent carbon transfer area concrete pad, spent carbon received in bulk load is typically transferred directly to one of the four spent carbon slurry storage tanks. The transfer occurs through the spent carbon unloading hopper H-1 and a pipe conveyance system, known as the spent carbon slurry and recycle water transfer system.

Recycled water is added to the spent carbon to flush it out of the trucks and into the unloading hopper. Excess water falls through a screen and goes through a filter, making the water reusable by the facility, and the water is recycled via piping to Tank T-9. The trapped materials in the carbon filter are fed through the reactivation furnace.

Spent carbon received in smaller containers, such as drums, is typically moved to the spent carbon storage warehouse in the container in which it was received, and subsequently transferred to one of the four slurry storage tanks via unloading hopper H-2 and the spent carbon slurry and recycle water transfer system.

The spent carbon received at the Evoqua facility requires a slurry system to move it from unloading hoppers to storage tanks and from storage tanks to the reactivation furnace. In the slurry system, an eductor/extractor at the bottom of the unloading hopper (H-1 or H-2) facilitates removal of the spent carbon from the hopper by adding water to the carbon.

From the slurry storage tanks, the water-carbon slurry is transferred via a piping system to the reactivation furnace RF-2 feed tank, T-18, and then to the reactivation furnace RF-2. Prior to introduction into the reactivation furnace, the water-carbon slurry is fed from Tank T-18 via a pipe system, to a dewatering screw at the top of RF-2 where the carbon is dewatered. The water from the dewatering screw is routed to the recycle motive water tank, T-9 where it is then recycled through the spent carbon slurry and recycle water transport system. The dewatered spent carbon is then fed into the top hearth of the reactivation furnace by a weigh belt conveyor. The weigh belt weighs the spent carbon as it enters the furnace to ensure feed rate limits are not exceeded.

The dewatered spent carbon is thermally reactivated in RF-2. RF-2 is a multiple hearth furnace consisting of five hearths. The spent carbon is introduced into the top hearth and flows downward through the remaining four hearths. Reactivated carbon exits the bottom hearth through a cooling screw. Prior to being shut down, RF-1 was operated in a fashion similar to RF-2 but had four hearths instead of five. The spent carbon was introduced into the top hearth and flowed downward through the remaining three hearths. Reactivated carbon exited the bottom hearth also through a cooling screw.

Inside the reactivation furnace (RF-2), the spent carbon is exposed to high temperatures. The high temperatures remove moisture from the spent carbon, desorb organic contaminants, and reactivate the carbon.

According to air emissions tests conducted by Evoqua and overseen by the EPA, the system achieves destruction and removal efficiency for organic compounds of greater than 99.99% (Appendix V of Part B Permit Application Reference 5).

The hot gases generated in RF-2 during the reactivation process then enter the RF-2 air pollution control equipment, which includes an afterburner, venturi scrubber, packed bed scrubber, wet electrostatic precipitator, and emissions stack. The afterburner is designed for combustion of organic constituents that were desorbed in the reactivation furnace. If the afterburner malfunctions, safety shut-down devices will stop all processing activity to minimize the release of contaminants to the atmosphere. From the afterburner, the hot gases are routed through a venturi scrubber for particulate matter removal. From the venturi scrubber, the gases are routed to a packed bed scrubber for acid gas control. From the packed bed scrubber, the gases are

routed to a wet electrostatic precipitator for additional particulate matter removal. From the wet electrostatic precipitator, the gases are routed to the emissions stack.

The wet scrubbers employ a dual loop scrubbing system. The scrubber water is supplied to the wet scrubbers via a closed loop cycling system. A pump is used to route the scrubber water from scrubber water equalization tank T-19 to the upper section of the packed bed scrubber. A pump is also used to route the scrubber water from a tank in the bottom section of the packed bed scrubber to the venturi scrubber. From the wet scrubbers, the scrubber water is returned to Tank T-19 or periodically discharged to the local publicly owned treatment works (POTW).

Adjustment of scrubber water pH occurs twice, once prior to introduction into the scrubbers, and again prior to discharge to the POTW. The pH of the scrubber water is controlled by the introduction of caustic (via a metering pump) into the scrubber water line just prior to introduction into the venturi and packed bed scrubbers. A continuous portion of the scrubber water is removed from the system (blow down) and discharged to the POTW. This discharge (blow down) limits the buildup of total dissolved solids (TDS) and it is pH adjusted and cooled prior to discharge. Scrubber water discharge (blow-down) from the former RF-1 air pollution control equipment was treated in the wastewater treatment and storage tank, Tank T-11 prior to discharge to the POTW. Scrubber blowdown from RF-2 air pollution control equipment is treated in a wastewater treatment unit, or discharged directly to the POTW. The discharge to the POTW is continuously monitored for pH, total dissolved solids, flow and temperature to ensure compliance with the discharge limitations found in the facility's industrial wastewater discharge permit.

A baghouse and a carbon adsorber have been installed to collect the carbon dust (particulates) from the incoming spent carbon hoppers during unloading. Particulates collected in the baghouse are returned to the furnace feed system for treatment or are disposed in the facility hazardous debris bin. The particulate collection system is inspected for leaks or improper operation by facility personnel at least once each work shift.

All hazardous waste storage and treatment areas at the facility are surrounded by containment systems. All rainwater that falls within these containment systems is collected and routed to the recycle/motive water tanks T-9, where it is used as make-up water to the spent carbon slurry and recycled water system.

Reactivated carbon is removed from the bottom of the reactivation furnace and transported to three product storage tanks at the reactivated carbon, storage, packaging, and shipping area of the facility. Reactivated carbon is moved via a dense phase transporter conveyor to the product packaging building where it goes through screens to separate the reactivated carbon into different sizes, and is placed in an appropriate container (either a drum or a bag) for shipment to customers. All steps in this process are performed under a particulate control system. The nonhazardous product particulates are captured by a hood, bagged as a product, and sold to industry.

A map depicting the HWMUs, SWMUs, and AOCs locations that were verified during the VSI, is provided as Appendix D1. These figures are from the Permit Application Reference 5, Figures J-1 to J-7 of Permit Application Section J.

4.0 REGULATORY INVOLVEMENT

The following discussion is based on correspondence and documents cited in the references and appendices of this RFA Report.

4.1 EPA, CRIT, and State Regulatory Status, and Environmental Regulations

The facility is subject to federal environmental laws administered by EPA Region 9 and is subject to the authority of the CRIT.

Federal environmental laws that the facility must comply with include: the Clean Water Act (CWA), the Clean Air Act (CAA), the RCRA, and the Emergency Planning and Community Right-to-Know-Act (EPCRA).

CRIT Authority

The 10 acres of land on which the facility was constructed are part of tribal trust lands of the CRIT. A lease issued to the operator by the CRIT and the BIA on April 1, 1990 (Lease No. B-1122-CR) governs the operator's facility activities on the tribal trust lands. The primary term of the original lease was 20 years. The lease also had an option to renew the lease for an additional 20 years. The lease renewal for the additional 20 years took place in 2010. Under the lease agreement, the operator pays lease rental fees to the CRIT for the 10 acres of land on which the facility is located.

Clean Water Act

EPA Region 9 has authority for implementing the CWA on the Colorado River Indian Reservation. Wastewater discharges from the facility are subject to new pretreatment standards under the CWA, Section 307, which restricts pollutant discharges for certain facilities that discharge wastewater indirectly through sewers flowing to POTWs. The facility meets the definition of a "centralized waste treatment (CWT) facility."

Colorado River Sewage System Joint Venture (CRSSJV) was issued a National Pollutant Discharge Elimination System (NPDES) permit (No. AZ0021415, dated May 2015) to authorize the discharge of the treated effluent from the existing CRSSJV wastewater treatment plant to the Irrigation Return Canal which flows to the Colorado River in Arizona.

The POTW started operations in 1974 and has a design flow of 1.2 million gallons per day (MGD). The average daily discharge is 630,000 gallons per day (GPD) and the recent maximum daily discharge is 800,000 GPD.

CRSSJV has reported one significant industrial discharger – Evoqua. Evoqua's average daily volume of process wastewater is 140,000 GPD, which represents approximately 22 percent of the POTW's total flow of 630,000 GPD.

Wastewater discharged to the POTW is generated from the following areas within the facility: (1) domestic wastewater; (2) scrubber water discharge (blow-down) from the furnace off-gas system; (3) blow-down of boiler feed water; (4) wastewater from the cooling tower and cooling

screw; (5) recycled water (contact motive water); (6) rain water falling within concrete containment area; and (7) facility wash-down water.

Clean Air Act

The CAA Title III-Maximum Achievable Control Technologies (MACT) Standards set emission limits for hazardous pollutants. Subpart EEE of the MACT standards reflect the maximum degree of hazardous air pollution reduction that can be achieved at hazardous waste combustion facilities, considering the availability and impacts of emissions control technologies. The Evoqua facility uses a furnace to regenerate waste carbon. The furnace is not included in the list of units in the definition of "hazardous waste combustor" under 40 CFR § 63.1201. This CAA definition includes "hazardous waste incinerators," as defined in 40 CFR § 260.10. That RCRA regulatory definition of an "incinerator" specifically excludes an enclosed device that uses controlled flame combustion and that is a carbon regeneration unit. As a result, the furnace is not regulated as a hazardous waste combustor under 40 CFR Part 63's Maximum Achievable Control Technology (MACT) standards.

While not a hazardous waste combustor, the carbon regeneration furnace at the Evoqua facility is defined as a "Miscellaneous Unit" under RCRA's regulations. RCRA's Miscellaneous Unit provisions authorize the Agency to impose appropriate requirements from Subpart EEE of the MACT standards on the furnace and its air pollution control equipment under RCRA's permitting regulations. Please see the further discussion of Subpart EEE below, under "Resource Conservation and Recovery Act."

The facility treats waste generated by facilities subject to the National Emission Standard for Hazardous Airborne Pollutants (NESHAP) for Benzene Waste Operations (Subpart FF in 40 CFR §§ 61.340, et seq.). As such, NESHAP Subpart FF for fugitive emissions applies to the spent carbon storage and treatment processes within the facility (See Appendix XXIII of Part B Permit Application Reference 5). Sources of potential benzene emissions from Subpart FF waste include the carbon adsorbers which control VOC emissions from spent carbon storage and furnace feed tanks; emissions associated with the reactivation furnace RF-2 and the afterburner; fugitive emissions from the unloading of spent carbon into hoppers H-1 and H-2; and fugitive emissions from containers of Subpart FF waste stored in the spent carbon storage warehouse.

NESHAP periodic visual inspection records document the integrity of the process equipment for prevention of emissions of benzene. The facility submits an Annual Report summarizing the total fugitive emissions monitoring that was performed by the operator annually at specific locations on flanges, piping, and other equipment. According to previous annual reports no instrument reading exceeded 500 parts per million by volume (ppmv) over the background concentrations, demonstrating an absence of leaks (Appendix M).

RCRA also requires controlling fugitive emissions from similar sources where hazardous waste is managed. RCRA provides for the facilities that have already installed air pollution control equipment under the NESHAP Subpart FF requirements to continue to use that equipment rather than undergo costly changes to comply with the RCRA air emission standards. Please see the further discussion of Subpart FF below, under "Resource Conservation and Recovery Act."

Resource Conservation and Recovery Act

The facility qualified for interim status under RCRA permitting requirements because it was an existing hazardous waste facility at the time that the first regulations that applied to the facility's hazardous waste management activities became effective. In a letter dated March 25, 1992, EPA confirmed that the facility had qualified for interim status.

Operations at the facility are currently regulated under RCRA interim status. The furnace and associated air pollution control equipment at the facility are regulated as a thermal treatment unit under 40 CFR Part 265, Subpart P.

RF-2 does not qualify as an incinerator and instead is designated by Subpart X of the RCRA regulations as a Miscellaneous Unit. According to 40 CFR § 264.601 of the Subpart X regulations, permit terms and provisions for a Miscellaneous Unit must include appropriate requirements of 40 CFR Part 264, Subparts I through O and Subparts AA through CC, 40 CFR Part 270, and 40 CFR Part 63, Subpart EEE. Testing of RF-2 was conducted in accordance with the requirements of the Subpart EEE MACT standards and an EPA-approved test plan. The testing consisted of a Performance Demonstration Test (PDT) of the RF-2 unit and a Continuous Emissions Monitoring Systems (CEMS) test. The CEMS testing was conducted just prior to the RF-2 PDT. The formal PDT was conducted on March 27 through March 30, 2006.

As noted above under the section discussing the CAA, many units at the facility are subject to the NESHAP for Benzene Waste Operations (40 CFR Part 61 at Subpart FF). Many units at the facility are also subject to regulation under RCRA's air emission control provisions (40 CFR Part 264 [and Part 265 during interim status], Subpart CC). The facility has three carbon adsorbers and an after-burner installed on certain units as air pollution control devices in order to meet the CAA Subpart FF Benzene NESHAP requirements. While these units might typically be subject to RCRA's Subpart CC Air Emissions Control requirements, the preamble to the Subpart CC regulations indicates:

"The EPA has decided that it is not justified to require owners and operators to replace these relatively new control devices, which were installed pursuant to EPA regulation, and is therefore adding an exemption for control devices installed on such systems." 61 Fed. Reg. 59941/3, Nov. 25, 1996.

Because the facility's three carbon adsorbers and the after-burner were installed prior to the December 6, 1996 effective date of EPA's RCRA Subpart CC Air Emissions Control requirements, these emission control devices currently satisfy EPA's RCRA emission control requirements and the CAA Benzene NESHAP. However, any new control devices installed on the regulated units after December 6, 1996, would be required to meet the RCRA Subpart CC Air Emissions Control requirements in addition to the CAA Benzene NESHAP.

Emergency Planning and Community Right-to-Know Act

The facility is subject to the emergency planning and notification requirements of Superfund Amendments and Reauthorization Act (SARA) Title III under the Emergency Planning and Community Right to Know Act (EPCRA). The facility must immediately notify the local emergency planning committee and the CRIT Tribal Environmental Protection Office if there is

a release of a reportable quantity (RQ) of the listed hazardous chemicals that result in off-site exposure. During both VSI, no reports were found in the facility file material of a release of a RQ of a hazardous substance at or from the facility.

The facility files Toxic Release Inventory (TRI) Report (Form R) for source reduction and recycling activities for benzene and other constituents. The reports are bi-annual for the reporting in odd years, as required by Section 313 of EPCRA. Further information can be found online under the EPA website for TRI reporting.

Following is EPA's TRI web address:

http://www2.epa.gov/toxics-release-inventory-tri-program

Following is Evoqua's TRI information on the EPA TRI website:

http://iaspub.epa.gov/triexplorer/release_fac_profile?TRI=85344WSTTS2523M&TRILIB=TRI Q1&FLD=&FLD=RELLBY&FLD=TSFDSP&OFFDISPD=&OTHDISPD=&ONDISPD=&OT HOFFD=&YEAR=2013

4.2 EPA Enforcement Actions

In 1994, a civil administrative enforcement action was instituted pursuant to Section 3008 (a)(1) of RCRA, based on violations observed during an EPA inspection of the facility in August 1993. Alleged violations of RCRA's interim status standards were specified in the "Consent Agreement and Final Order, Evoqua Industries Inc., Docket No. RCRA-09-04-0001," issued to the facility on February 16, 1994. These included allegations of violations such as failure to obtain hazardous waste tank assessments prior to beginning operations, as well as numerous record-keeping deficiencies. The facility returned to compliance and a civil penalty was paid as part of the settlement of the action.

On March 15, 1994, EPA conducted a hazardous waste investigation at the facility. Pursuant to Section 3008 of RCRA, EPA required the facility to correct the identified areas of noncompliance and to submit documentation of their correction to EPA. The facility's subsequent response, dated August 10, 1994, adequately addressed the violations, and documented the facility's return to compliance with the regulations cited in the inspection report.

A RCRA Closure Plan has been submitted to EPA as part of the application. This closure plan describes eventual closure of the hazardous waste portion of the facility including all hazardous waste management units described in the facility's Permit Application Reference 5. The RCRA Facility Closure Plan is Appendix XV of the permit application. Although the first thermal treatment unit (RF-1) was shut down in June 1996, and will not be restarted, closure has not occurred. The closure of RF-1 is in a separate closure plan in Appendix XVI of the permit application.

EPA conducted a series of inspections dated June 19-20, 2001, January 24, 2002, August 29, 2002, March 6-7, 2003, and February 12, 2004. EPA inspectors, accompanied by personnel from the CRIT EPO, conducted RCRA compliance evaluation inspections and found some alleged violations.

On June 30, 2006, EPA entered into a Consent Agreement and Final Order (CA/FO) with Evoqua Water Technologies, , resolving EPA's claims against the facility with respect to three alleged violations. The CA/FO required the operator to pay a fine and make various safety upgrades.

<u>Full text of the Consent Agreement / Final Order (CA/FO) dated June 30, 2006 (PDF)</u> can be found on the EPA website for this facility online at:

https://www3.epa.gov/region9/waste/evoqua/pdf/april2012/siemens-signed-CAFO-jun-15-2006-with-attachments.pdf

4.3 <u>Inspection History</u>

Since the time that hazardous waste management operations at the facility began in 1992, EPA conducted periodic compliance inspections at the facility, and prepared reports for most of those inspections.

This is a list of the facility's recent inspection reports that can be obtained from the EPA website for this facility online:

https://www3.epa.gov/region9/waste/evoqua/frequent.html

- EPA's Inspection Report from the June 2001 Inspection
- EPA's Inspection Report from the January 2002 Inspection
- EPA's Inspection Report from the August 2002 Inspection
- EPA's Inspection Report from the March 2003 Inspection
- EPA's Inspection Report from the February 2004 Inspection
- EPA Inspection Report from the September 2007 Inspection
- EPA Inspection Report from the June 2009 Inspection
- EPA Inspection Report from the April 2011 Inspection
- EPA Inspection Report from the March 2012 Inspection
- EPA Inspection Report from the March 2015 Inspection

4.4 Performance Demonstration Test

Evoqua tested the RF-2 unit under the oversight of EPA to demonstrate the performance and to establish operating parameter limits in accordance with the standards of 40 CFR 63 Subpart EEE. The regulations at 40 CFR 63 Subpart EEE are often referred to as the Hazardous Waste Combustor Maximum Achievable Control Technology (HWC MACT) standards. The testing was conducted in accordance with the requirements of the HWC MACT standards and the approved Performance Demonstration Test (PDT) plan. The testing consisted of a PDT of the RF-2 unit and a CEMS test. The CEMS testing was conducted just prior to the RF-2 PDT. The formal PDT was conducted on March 27 through March 30, 2006.

The purpose of the PDT was to:

- 1. Demonstrate Compliance with Applicable EPA Regulatory Performance Standards (Based on HWC MACT Standards for Existing Hazardous Waste Incinerators).
- 2. Establish Operating Limits.

3. Gather Information for Use in a Site-Specific Risk Assessment.

The PDT determined that continued operation of the Carbon Reactivation Furnace RF-2 under the conditions established by the PDT will result in effective destruction of organic compounds and control of emissions in accordance with the applicable performance requirements.

4.5 <u>Summary of Risk Assessment</u>

On July 30, 2007, Evoqua submitted its Human Health and Ecological Risk Assessment Report to EPA. The risk assessment uses the results from the Final March 2006 air emissions test, conducted at the facility in accordance with EPA regulations for this type of facility.

The risk assessment demonstrates that even using conservative assumptions:

- The potential risks associated with air emissions from both the facility's carbon reactivation furnace and from spent carbon unloading are below regulatory and other target risk levels, for both human health and ecological receptors;
- The incremental contribution of effluent from the facility's wastewater treatment plant drainage does not pose unacceptable risks to either aquatic life or human health; and,
- Both concentrations of fugitive emissions from carbon unloading at the facility and measured worker breathing zone concentrations are below occupational exposure limits.

In conclusion, this risk assessment demonstrates that even with conservative assumptions, the potential risks associated with facility operations are below regulatory and target levels.

Potential risks from stack air emissions at the facility were evaluated for over 170 compounds. These were selected for detailed assessment based on a comprehensive PDT. This test was approved in advance by EPA and conducted at the facility by an independent testing firm. The PDT involved several days of stack gas sampling and sophisticated chemical analysis.

The list of chemicals selected for evaluation included both compounds that were detected in stack emissions, as well as over 80 other compounds not detected, but included in the calculations just to be safe. Stack emission rates for all the selected compounds were calculated based on either PDT results, proposed permit limits, or for a few chemicals, long-term average chemical feed rates. A conservative value was also used for the furnace's destruction and removal efficiency in the calculations.

Potential risks from fugitive air emissions (rather than stack emissions) were evaluated for 21 compounds. These were selected for evaluation based on their spent carbon concentrations, number and amount of deliveries to the facility, chemical toxicity, and volatility. Air dispersion and deposition modeling was conducted using a model developed and approved by EPA. This model calculated chemical concentrations in the air and ground deposition rates within a 154 square mile study area surrounding the facility. The mathematical equations used to calculate the fate and transport of each chemical in the environment, environmental concentrations for each chemical, human exposures and risks, were based on current EPA guidance and solved using the Industrial Risk Assessment Program software. At EPA's request, and as part of the permit process, the operator completed a human health and ecological risk assessment (risk assessment)

in July 2007. The purpose of the risk assessment was to estimate the facility's current and possible future impacts on the health of local residents and the surrounding environment.

Based on the risk assessment results, EPA concluded that likelihood of human health impacts (both carcinogenic and non-cancer) and ecological impacts from operations at the facility are low or insignificant are below levels of concern.

EPA cannot deny a permit for the facility based upon results of this risk assessment, because the analysis determined that the likelihood of human health or ecological impacts from facility operations are below the Agency's thresholds of concern. However, if EPA decides to issue the permit, it will not allow the facility to operate under conditions that could have a greater impact than the conditions evaluated by the risk assessment. For example, the permit would prescribe operational conditions such as the temperature to which the carbon is heated and the amount of carbon processed.

4.5.1 <u>Categories of impacts the risk assessment studied:</u>

- <u>Human health impacts from air emissions:</u> Long-term ("chronic") and short-term ("acute") human health impacts, as well as both carcinogenic (cancer) and non-carcinogenic (non-cancer) effects.
- Water and fish impacts due to wastewater discharge from the facility and consumption of potentially impacted fish.
- Ecological impacts from air emissions: Impacts to plants, animals and the environment.

4.5.2 The Risk Assessment was conducted as follows:

EPA provided the operator with guidance and oversight for the risk assessment process, ensured that the report was sufficiently thorough and extensive, and reviewed the results of the risk assessment. The risk assessment followed the steps below:

- 1) Measured maximum possible concentrations of emissions from the facility by conducting a trial burn (discussed in greater detail below).
- 2) Identified exposure routes by which the emissions would reach potential human and ecological receptors.
- 3) Determined concentrations at which the emissions would reach potential receptors through the identified exposure routes.
- 4) Calculated potential impacts to human and ecological receptors from exposure to emissions.

4.5.3 <u>Human and ecological receptors considered by the risk assessment:</u>

- Facility workers exposed to emissions on the job.
- The community around the facility, particularly the following sensitive receptors:
 - o The elderly, people with health impairments, pregnant women, women of childbearing ages, and children.
 - o Individuals engaging in subsistence fishing, hunting and agriculture, and particularly members of the above mentioned higher risk population engaging in subsistence activities.
- Plants and wildlife found around the facility.

4.5.4 Routes of exposure the Risk Assessment considered:

- Inhalation (breathing in) of impacted air.
- Ingestion (eating) of impacted soil (e.g. incidental ingestion of soil particles or through cultural practices).
- Eating food that absorbs and accumulates chemicals from the impacted air and soil. This food includes locally-raised produce, beef, chicken and eggs.
- Eating fish potentially impacted by wastewater discharge from the facility.

4.5.5 <u>Specific information about the community and the area considered by the risk</u> assessment:

- Information about community activities, such as home gardening, raising of livestock and use of local plants.
- Information about Tribal cultural and spiritual activities that may increase exposure of community members to contaminants.
- Information about local and regional weather patterns.

4.5.6 <u>Human Health impacts from air emissions:</u>

Based on the risk assessment study, the EPA concluded that human health impacts from long-term exposure to stack emissions, fugitive emissions, as well as the combination of the two, were below EPA's acceptable thresholds.

Stack emissions: To measure stack emissions, the operator conducted a trial burn under specific operating conditions (e.g. temperature of the furnace, amount of carbon being processed by facility, contaminants present in the spent carbon). The concentrations of contaminants coming out of the stack were measured during the trial burn. Computers helped model how emitted substances would disperse (spread) throughout the air and soil in a 154 square mile area surrounding the facility.

Fugitive emissions: Fugitive emissions are generated during unloading of the spent carbon that comes into the facility (see Figure 2). The risk assessment estimated levels of fugitive air emissions from information on amounts of spent carbon that are handled at the facility, as well as the concentrations of contaminants in that spent carbon.

What are the impacts to water and fish?

The facility sends its wastewater (mostly from air pollution control devices) through a pipeline to the Colorado River Sewage System Joint Venture, a treatment plant. The treatment plant processes wastewater from the facility along with wastewater from the surrounding community. It then releases the treated water to the Main Drain – a channel that flows to the Colorado River.

Currently, CRIT does not have EPA-approved surface water quality standards. As any discharge from the treatment plant may eventually flow into the Colorado River, the discharge must meet EPA-approved downstream standards established by the State of Arizona Water Quality

Standards. The risk analysis found that wastewater from the facility does not cause the discharge from the treatment plant to exceed the State's most stringent water quality standards. It also found that the discharge from the Joint Venture is not toxic to aquatic organisms.

The uptake of chemicals from the Main Drain into fish and the potential human health impacts from fish ingestion were also addressed as requested by EPA. The fish ingestion pathway was evaluated at a downstream location on the Main Drain where fishing may occur and where water flow rate measurements are routinely collected by USGS. Based on this analytical framework, it can be concluded that the incremental contribution of the facility effluent on the Joint Venture Out fall and Main Drain does not pose unacceptable risks to neither aquatic life nor human health.

4.5.7 Ecological Impacts:

The ecological risk assessment concluded that the stack emissions from the facility do not pose an unacceptable risk to wildlife that was considered to be the most sensitive in the area.

4.5.8 Level of risk from the Facility:

EPA applies an acceptable carcinogenic risk range when evaluating the likelihood of adverse health impacts from combustion facilities. The acceptable range spans from a 1 in 1 million excess cancer risk level to a 10 in 1 million excess cancer risk level. This range indicates that for every 1 million individuals or community members exposed to facility releases, at most 10 additional cases of cancer may develop over the course of a 70 year lifetime. This additional case of cancer would be in addition to cancers in the community caused by factors unrelated to the facility, such as smoking, diet, pesticide use, or naturally occurring radon.

When we apply the "one in 10 million" threshold to a community with fewer than one hundred thousand residents (such as Parker with about 3,000 residents), we would expect less than one additional case of cancer to develop in that community due to emissions from the facility.

5.0 ENVIRONMENTAL SETTING

The information summarized in the following subsections was cited from the *Final Environmental Assessment* performed in February 1991 for construction of the facility on Colorado River Indian Tribal Lands, as referenced at the end of this RFA report.

5.1 Climate

The climate in Parker, Arizona, where the facility is located, is typical of the Sonora and Mojave Desert Regions and the Gila Desert. Winters are mild with minimum temperatures above freezing. The summers are long, hot, and dry with temperatures commonly exceeding 100° F. Average total precipitation is approximately 3.82 inches per year. Precipitation is sporadic, occurring mainly in the time intervals of July through September, and December through February. The 24-hour, 25-year storm water event has been reported to be equal to the average precipitation. The evaporation rate in this area is 86 inches per year.

5.2 Geology

The Parker, Arizona area is characterized by roughly parallel mountain ranges separated by alluvial basins. The elevation of the basins varies between sea level and 1,000 feet. The mountains are rugged and rise abruptly from the Colorado River or from alluvial slopes. The highest mountain summits in the region reach an average elevation of around 3,300 feet. Between the flood plain and the mountains are piedmont slopes, which are dissected by washes from the mountains and, in a few exceptions, into adjacent and topographically distinct basins. The facility is located on relatively flat terrain, with slopes of zero to three percent.

The geologic units considered important to water resource development at the location of the facility are the Miocene Fanglomerate, the Bouse Formation, and the alluvium of the Colorado River and its tributaries. The rocks of the mountains are relatively impermeable, and form the boundaries of the groundwater reservoirs. Interbasin water movement is limited by the impermeable bedrock and limited to groundwater movement in surface sediments, where intermittent surface drainage exits from a basin.

The bedrock includes all rocks older than the Miocene Fanglomerate, and contains sedimentary, metamorphic, and igneous rocks. These Miocene beds are gravel deposits that have eroded from the mountains and filled the basins. The thickness of these beds varies widely across the basins. The Fanglomerate is a potentially important aquifer near Parker, where wells with a yield of 15 gallons per minute per foot of drawdown, have been developed.

Samples taken at the site prior to construction of the facility indicated that only the eolian (windblown) sand and silt are present. The eolian sand is tan to light tan and fine to medium grained, occurring as a deposit on the surface throughout the area. The Evoqua site soil is classified as Superstition series, which is a gravelly loamy fine sand that develops on zero to three percent slopes.

5.3 Hydrology

5.3.1 Surface Water

The facility is located approximately 2.8 miles southeast of the Colorado River. Hence, the distance from the facility to the nearest surface water body is greater than two miles.

The flood plain of the river is less than one mile wide near Parker, and increases to nine miles in the Parker Valley. The flood plain is that part of the Colorado River Valley that has been covered by floods of the Colorado River, prior to construction of Hoover Dam. The elevation of the flood plain near Parker is approximately 360 feet above sea level.

The town of Parker is no longer taking water directly from the Colorado River. However, a portion of the CRIT reservation (30 miles in length) is served by water drawn from the Colorado River.

5.3.2 Groundwater

Groundwater in the Parker area occurs in both confined and unconfined aquifers. Most of the wells are completed in the Colorado River gravels (alluvium), where unconfined or water table conditions prevail. The Miocene Fanglomerate (gravel deposits at the base of mountains) and the lower part of the Bouse Formation contain confined aquifers (artesian). The geological age is not certain. The city wells in Parker obtain most of their water from the Miocene Fanglomerate. Sources of recharge to the groundwater supply of the area are the Colorado River, precipitation, and underflow from areas bordering Parker Valley.

A large amount of the groundwater is lost through evapotranspiration in the Parker area. Direct recharge from precipitation is limited. Loss of water from the Colorado River provides almost 50 percent of the recharge to the groundwater near Parker.

The groundwater elevation near Parker is approximately 350 feet above sea level. The depth to the groundwater in the areas bordering the flood plain ranges from 70 to 300 feet below the land surface. The depth to groundwater at the facility is 80 to 100 feet, and groundwater flow direction is to the southwest.

Chemical quality of the groundwater in the Parker area is generally related to the source and movement of the water. The chemical quality of the groundwater is influenced by evaporation, transpiration by native vegetation, former flooding of the river, irrigation developments, and to a marked degree by the local geology. The groundwater beneath the floodplain is relatively poor in quality, except where irrigation water has entered the aquifer. The shallow groundwater in the non-irrigated part of the valley has twice the mineral content as the Colorado River water.

The drinking water from four wells within four miles of the facility, which are on CRIT property, meets all primary water quality standards in the CWA.

The Town of Parker's water source is groundwater. There are three active wells located within Parker (Well No. 6, Well No. 7, and Well No. 8) that the ADEQ considers to be groundwater for regulatory purposes. These wells serve approximately 3,140 people. The town water system is routinely monitored for constituents in drinking water according to Federal and State laws. The depth to the surface of the groundwater is approximately 75 feet near the center of town (90 feet at the well in the northeast corner of town, which is on higher ground) and flows from the northeast to the southwest.

In addition, there are six wells in the area on the CRIT reservation; these wells are located outside the Parker city limits and serve approximately 1,850 connections. Four of these wells are located northeast of Parker along the Colorado River, and two are located on the west side of the city limits.

5.4 Air/Wind

The closest sources of surface meteorological data for use in the air dispersion model for the facility's human health risk assessment were Needles, CA, approximately 60 miles north of the

facility, and Blythe, CA, approximately 60 miles south of the facility. Both Needles and Blythe are located along the Colorado River, with terrain features similar to those found in Parker. Analysis of wind distribution by the U.S. National Climatic Data Center shows strong north-south components at both sites that reflect the influences of the surrounding terrain. A Wind Rose that provides the direction of prevailing winds at Needles is presented in Appendix F, which is – From Appendix II of Application Reference 5. A similar north-south predominance of wind direction at the facility would be expected due to its surrounding terrain, which is generally similar to that present near the Blythe and Needles monitoring stations.

5.5 Land Use

About 45 percent of the CRIT Reservation is used for irrigated farming. Most of the remainder of the Reservation is rangeland used for seasonal livestock grazing. The CRIT Industrial Park comprises approximately 1,140 acres set aside for commercial and light industrial use. The operator acquired a Land Use Permit from the CRIT to operate the carbon reactivation facility (Permit Number B1122-CR 30.7).

5.6 Biological Environment

The facility is located on CRIT land that is a transition zone between the Sonora and Mojave Deserts.

Desert Flora

Terrestrial vegetation at the facility site is associated with the desert scrub community of the Gila Desert. Creosote bush and burro bush are the predominant plant communities. Other native plants living in the area include desert trumpet, snakeweed, scorpion weed, lupine and brittlebush. Vegetation is sparse in most areas.

Desert Fauna

Songbirds, small mammals, amphibians and reptiles are common in the Gila Desert Cactus Plain in Parker.

Unique Ecosystems

The cactus plains dune ecosystem is located approximately one-half mile east of the facility. The dunes provide a natural habitat to the Mojave fringe-toed lizard (*Uma scoparia*), which is a candidate species on the Arizona Threatened Native Wildlife list. This species is threatened due to general loss of dune habitat. The facility is located in the flat cactus plain area outside the dune area.

Endangered or Threatened Species and Protected Birds

After a site survey in March 1990, it was determined that no listed endangered plants or animals were found at the site proposed for building the carbon reactivation plant. However, there may be several Federally-listed, endangered or threatened species and birds protected under the

Migratory Bird Treaty Act within the Parker area on CRIT property. To make the RCRA permit decision, EPA has requested that a species survey be conducted as part of the Ecological Risk Assessment that determined the potential for the presence of the following species and identified potential ecological receptors: the razorback sucker (*Xyrauchen texanus*)(endangered), also known as the humpback sucker in older literature; the desert tortoise (*Gopherus agassizii*)(threatened), critical habitat has been designated across the state line in California; the bony tail chub (*Gila elegans*)(endangered); the peregrine falcon (*Falco perigrinus*)(Migratory Bird Treaty Act); the southwestern willow flycatcher (*Empidonax traillii extimus*)(endangered); brown pelican (*Pelicanus occidentalis*)(endangered); Yuma clapper rail (*Rallus longirostris yumanensis*)(endangered); and the burrowing owl (*Athene cunicularia*)(Migratory Bird Treaty Act, also fully protected across the state line in California). Please see Appendix XI of Part B Permit Application Reference 5 for more details.

On February 25, 2009, a review of the Risk Assessment performed as part of the permit application process was evaluated in a memorandum from an EPA Environmental Scientist (John Beach) to the Project Officer for the RCRA project at the time. In the memorandum, Mr. Beach concludes that the Risk Assessment submitted with the Part B Permit Application demonstrated that the possible issuance of a RCRA permit for the Facility was not expected to jeopardize the continued existence of a listed species or result in the destruction or adverse modification of designated critical habitat. Mr. Beach also concluded that the Risk Assessment demonstrated that the possible issuance of a RCRA permit for the Facility was not expected to result in the taking or endangerment of any species protected by the Migratory Bird Treaty Act of 1918, as amended and was not expected to have any measurable negative effect on migratory bird populations. The determination reflected in Mr. Beach's memorandum was confirmed using an updated species list on July 30, 2015, March 20, 2016, and August 4, 2016, since determinations must be made with species lists that are not more than 180 days old. The most recent U.S. Fish and Wildlife IPaC species list for the project site, along with each of the referenced memoranda, are in Appendix D to the Statement of Basis.

6.0 <u>HAZARDOUS WASTE MANAGEMENT UNITS (HWMUs)</u>, <u>SOLID WASTE MANAGEMENT UNITS (SWMUs)</u>, and <u>AREAS OF CONCERN</u> (AOCs)

RCRA regulated waste is currently managed in a variety of units at the facility. The regulatory status of these units is specified in Tables 1, 2, and 3. RCRA waste is received and stored in the spent carbon storage warehouse, and the spent carbon slurry storage tanks, and ultimately processed in the reactivation furnace RF-2. The reactivation furnace RF-1 previously managed hazardous waste and is now inactive.

The SWMUs operated at the facility have been identified and visually inspected, where possible during the September 2003 VSI by Booz Allen Hamilton. A map of the location of SWMUs is attached as Appendix D2. Photographic documentation of the 2003 VSI tour of the facility is provided as Appendix B (Photographs F-1 through F-37). A detailed description of each SWMU is provided below based on the site characterization information and data which was cited in correspondence between EPA, the operator, and CRIT representatives; in the Part B permit application; and/or obtained during the 2003 VSI interview with the operator's representatives. The relevant cited references are provided in the Reference Section at the end of this RFA report.

The Draft RFA that was prepared by Booz Allen Hamilton in September 2003 was not finalized. The RFA was more recently updated by the EPA Project Manager using the information that was provided by Evoqua in the more recent Part B Applications References 1 through 5 listed on page vi of the Table of Contents.

When Evoqua responded to EPA's request for information dated September 2011, Evoqua recategorized the SWMU and AOC list as the HWMU, SWMU, and AOC categories shown in Tables 1, 2 and 3. The three tables give details of how the units were re-designated. Table 4 coordinates the previously designated names of the units as listed in Appendix B with the new names as listed in Tables 1, 2, and 3 and Appendix A.

A follow-up VSI was conducted by the EPA Project Manager in March 2014 (Appendix A). During the 2014 VSI, EPA Project Manager inspected the facility and documented the conditions of the SWMUs, HWMUs, and AOCs. The Project Manager reviewed the last three (3) years of the facility's operating records, inspection records, and calibration records. The new VSI photographic documentation can be found in Appendix A. A map depicting the HWMU, SWMU, and AOC units locations that were verified during the VSI, is provided as Appendix D1. These are the new unit names. These figures are from the Permit Application Reference 5, Figures J-1 to J-7 of Permit Application Section J.

6.1 <u>HAZARDOUS WASTE MANAGEMENT UNITS</u>

Hazardous Waste Management Unit (HWMU): A contiguous area of land on or in which hazardous waste is placed, or the largest area in which there is significant likelihood of mixing hazardous waste constituents in the same area. Examples of hazardous waste management units include a surface impoundment, a waste pile, a land treatment area, a landfill cell, an incinerator, a tank and its associated piping and underlying containment system and a container storage area. A container alone does not constitute a unit; the unit includes containers and the land or pad upon which they are placed. [40 C.F.R. § 260.10.]

| HWMU
Type/Designation | Location | Description | Date Unit was
First Operated | Identification of
Wastes Managed in
Unit | Releases from
Unit |
|--|--|---|--|--|---|
| Spent carbon
reactivation furnace
- RF-1 and
Associated
Equipment
(Dewater screw) | South of RF-2 | Furnace shell – carbon steel; internal firebrick lining and block insulation; hearths and furnace roof constructed with firebrick; furnace roof is comprised of firebrick backed with block insulation and castable insulation; bottom hearth is insulated with block insulation and castable insulation | August 1992;
Shut down in
1996 | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |
| Spent carbon reactivation furnace RF-2 and Associated Equipment (Dewater Screw, Weigh Belt) | East of warehouse | Furnace shell – carbon steel; internally lined with firebrick and block insulation; hearths and furnace roof constructed with firebrick; furnace roof is comprised of firebrick backed with block insulation and castable insulation; bottom hearth is insulated with block insulation; Continuously seal welded internally to assure an airtight assembly. Dewatering screw length 17 ft; diameter 8 in. | July 1996 to present | Spent activated carbon. See Part B Application for list of applicable waste codes | None. Will be further investigated at the time of closure |
| RF–1 Air pollution co | <u> </u> | it, diameter o iii. | | 1 | |
| | Spent carbon reactivation furnace - RF-1 and Associated Equipment (Dewater screw) Spent carbon reactivation furnace RF-2 and Associated Equipment (Dewater Screw, Weigh Belt) | Spent carbon reactivation furnace - RF-1 and Associated Equipment (Dewater screw) Spent carbon reactivation furnace RF-2 and Associated Equipment (Dewater Screw, Weigh Belt) East of warehouse | Spent carbon reactivation furnace - RF-1 and Associated Equipment (Dewater screw) Spent carbon reactivation furnace activation furnace roof is comprised of firebrick backed with block insulation and castable insulation and castable insulation furnace reactivation and furnace reactivation furnace reactivation and castable insulation; bettom hearth is insulated with block insulation and castable insulation; bottom hearth is insulated with block insulation; continuously seal welded internally to assure an airtight assembly. Dewatering screw length 17 ft; diameter 8 in. | Spent carbon reactivation furnace - RF-1 and Associated Equipment (Dewater screw) Spent carbon reactivation furnace and Equipment (Dewater Screw, Weigh Belt) Spent carbon reactivation furnace RF-2 and Associated Equipment (Dewater Screw, Weigh Belt) Spent carbon reactivation furnace RF-2 and Associated Equipment (Dewater Screw, Weigh Belt) Furnace shell – carbon steel; internal firebrick, flurnace roof is comprised of firebrick backed with block insulation and castable insulation and castable insulation flurnace reactivation furnace RF-2 and Associated Equipment (Dewater Screw, Weigh Belt) Furnace shell – carbon steel; internally lined with firebrick and block insulation and castable insulation; hearths and flurnace roof constructed with firebrick; furnace roof is comprised of firebrick backed with block insulation and castable insulation; bottom hearth is insulated with block insulation and castable insulation; Continuously seal welded internally to assure an airtight assembly. Dewatering screw length 17 ft; diameter 8 in. | Spent carbon reactivation furnace - RF-1 and Associated Equipment (Dewater screw) East of warehouse RF-2 and Associated Equipment (Dewater Screw, Weigh Belt) Spent carbon steel; internal firebrick lining and block insulation; hearths and furnace roof is comprised of firebrick backed with block insulation and castable insulation; hearths and castable insulation and castable insulation; bottom hearth is insulated with block insulation and castable insulation; continuously seal welded internally to assure an airtight assembly. Dewatering screw length 17 ft; diameter 8 in. |

| No. | HWMU
Type/Designation | Location | Description | Date Unit was
First Operated | Identification of
Wastes Managed in
Unit | Releases from
Unit | | |
|-----|--------------------------------------|----------------|---|---------------------------------|--|---|--|--|
| | Afterburner | RF-1 structure | Refractory lined steel | 1992 to 1996 | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure | | |
| | Venturi scrubber | RF-1 structure | Hastelloy C | 1992 to 1996 | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure | | |
| | Packed bed scrubber | RF-1 structure | Fiberglass | 1992 to 1996 | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure | | |
| | Emissions stack | RF-1 structure | Mild steel | 1992 to 1996 | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure | | |
| 4 | RF–2 Air pollution control equipment | | | | | | | |
| | Afterburner | RF-2 structure | Refractory lined steel cylinder chamber | 1996 to present | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure | | |

| No. | HWMU
Type/Designation | Location | Description | Date Unit was
First Operated | Identification of
Wastes Managed in
Unit | Releases from
Unit |
|-----|---|--------------------------------------|---|---------------------------------|--|---|
| | Venturi scrubber | RF-2 structure | Hastelloy C | 1996 to present | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |
| | Packed bed scrubber | RF-2 structure | Fiberglass | 1996 to present | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |
| | Wet electrostatic precipitator | RF-2 structure | Fiberglass/AL6XN | 1996 to present | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |
| | Induced draft fan | RF-2 structure | 300-series SS | 1996 to present | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |
| | Emissions stack | RF-2 structure | Fiberglass surrounded by a mild steel shell | 1996 to present | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |
| 5 | Spent carbon
unloading hopper
H-1 | North end of facility on containment | 5000 lb capacity; mild steel | 1996 to present | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |

| No. | HWMU
Type/Designation | Location | Description | Date Unit was
First Operated | Identification of
Wastes Managed in
Unit | Releases from
Unit |
|-----|---|--------------------------------------|--|---|--|---|
| 6 | Spent carbon
unloading hopper
H-2 | Inside warehouse facing east wall | 500 lb capacity;
mild steel | August 1992 to present | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |
| 7 | Hopper air pollution control equipment piping and baghouse | North end of facility on containment | Ducting, baghouse and fan are mild steel | 1992 to present | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |
| 8 | Spent carbon slurry
and recycle water
transfer system | Inside warehouse on containment | 4" pipes hopper
to tank; 3" pipes T-tank to
furnace feed tank; 300-
series SS | 1992 to present | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |
| 9 | Spent carbon storage warehouse | Inside warehouse | 80 ft by 80 ft
concrete/ metal | 1992 to present | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |
| 10 | Spent carbon slurry storage tank, T-1 | East of warehouse within containment | 8319 gal design capacity | Used tank
(1956); 1992 to
present | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |
| 11 | Spent carbon slurry storage tank, T–2 | East of warehouse within containment | 8319 gal design capacity | Used tank
(1956); 1992 to
present | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |

| No. | HWMU
Type/Designation | Location | Description | Date Unit was
First Operated | Identification of
Wastes Managed in
Unit | Releases from
Unit |
|-----|---|--------------------------------------|--|---|--|---|
| 12 | Spent carbon slurry storage tank, T-5 | East of warehouse within containment | 8319 gal design capacity | Used tank
(1956); 1992 to
present | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |
| 13 | Spent carbon slurry storage tank, T-6 | East of warehouse within containment | 8319 gal design capacity | Used tank
(1956); 1992 to
present | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |
| 14 | Furnace Feed
System Tank T-8
and Ancillary
Equipment | RF-1 Structure | 905 gal 300 series SS | August 1992 to 1996 | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |
| 15 | T-18 and Ancillary
Equipment | RF-2 structure | 6500 gal 300-
series SS | July 1996 to
present | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |
| 16 | Wastewater conveyance piping to wastewater treatment tank | East of RF-2 structure | 3" PVC piping | August 1992 | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |
| 17 | Spent carbon
storage warehouse
barrel washer | Next to H-2 in warehouse | 2 ft by 3 ft
300 series stainless steel | 1992 to present | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |

| No. | HWMU
Type/Designation | Location | Description | Date Unit was
First Operated | Identification of
Wastes Managed in
Unit | Releases from
Unit |
|-----|---|--|---|---------------------------------|--|---|
| 18 | Carbon adsorber -
PV1000 | North of
Containment Pad
for Storage Tanks | 1000 lb carbon capacity; mild steel. | August 1992 | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |
| 19 | Carbon adsorber
WS-1 | Beside spent
carbon storage
tank | 2 x 2000 lb carbon capacity. Mild steel | 1992 to present | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |
| 20 | Carbon adsorber
WS-2 | Beside H-1 | 5000 lb carbon capacity
Fiberglass | 1992 to present | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |
| 21 | Carbon adsorber
WS-3 | Beside RF–2 | 1000 lb carbon capacity
Mild steel | 1996 to present | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |
| 22 | Slurry transfer inclined plate settler tank | Adjacent to the venturi scrubber | Mild steel | 1992 to 1994 | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | See Section J.2 of
the Part B
Application |
| 23 | Scrubber recycle tank T-17 | Beside RF-1 | Mild steel | 1992 to 1996 | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |

| No. | HWMU
Type/Designation | Location | Description | Date Unit was
First Operated | Identification of
Wastes Managed in
Unit | Releases from
Unit |
|-----|--|--|--------------------------------------|---------------------------------|--|---|
| 24 | Filter press | Next to scrubber
system for
RF-1 | Mild steel with polypropylene plates | 1992 to 1994 | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |
| 25 | New Facility
Discharge Piping
System | New piping
bypasses Lift
Station to POTW | 6" PVC | February 1996 | Spent activated carbon.
See Part B Application
for list of applicable
waste codes | None. Will be further investigated at the time of closure |

6.1.1 <u>HWMU 1 (Previously designated as SWMU 1)</u>: Spent Carbon Reactivation Furnace RF-1

Unit Description:

RF-1 was a multiple hearth furnace consisting of four hearths (Hearths 1 through 4) used for spent carbon reactivation. RF-1, operated from 1992 until 1996, is located in the southeast portion of the facility, south of RF-2. RF-1 was replaced with RF-2 and has not been in operation since 1996, and has been replaced with the RF-2 unit.

During operation of this unit, organic compounds were desorbed from the carbon in the high-temperature environment of the reactivation furnace. RF-1 had a production capacity of 600 lbs/hr. The reactivation process in RF-1 involved drying, pyrolysis (i.e., chemical decomposition of the organics by heat), and chemical reaction.

The top hearth (Hearth 1) was an unfired hearth where heat generated in the bottom three hearths (Hearths 2, 3, and 4) was used to complete the dewatering of the spent carbon. The bottom three hearths were fired hearths, where the pyrolysis and reaction steps of the reactivation process occurred. Each of the bottom three hearths was fired with one natural gas burner. These burners were provided to ensure adequate heat input to the reactivation furnace for all the spent carbon reactivated at the facility.

When RF-1 was operating, spent carbon was introduced into the top hearth and flowed downward through the remaining three hearths. Rabble arms with teeth, each connected to a rotating center shaft, were located above each hearth. The rabble teeth plowed the carbon material across the hearth surface and towards drop holes. The carbon fell through the drop holes to the next lower hearth and eventually to the outlet of the reactivation furnace. Reactivated carbon exited the bottom through a cooling screw prior to packaging and shipping of the reactivated product. RF-1 was equipped with a primary combustion air fan and two-center shaft cooling fans.

RF-1 was equipped with air pollution control equipment (APCE) designed to reduce contaminants in the gases prior to discharge to the atmosphere through the stack. The equipment included an afterburner fired by two natural gas burners and designed for combustion of organic material in the off-gas from the furnace. From the afterburner, the gases moved to a venturi scrubber designed to remove particulate matter. The gases then traveled to a packed-bed scrubber designed to remove acid gases. An induced draft fan was used to exhaust combustion gases from the RF-1 furnace, afterburner, and air pollution control system. The gas stream was exhausted to the atmosphere via a 115-foot high stack with an inside diameter of one foot. The stack, constructed of carbon steel, was removed when the unit was shut down in 1996. The air pollution control equipment is described in more detail later in this document.

RF-1 was designed to remove organic compounds from the spent carbon and to remove benzene to a level that met the minimum requirements of NESHAP Subpart FF of the CAA.

The material of construction of RF-1 are presented in Table 1.

Status and Wastes Managed

The start-up date for RF-1 was in 1992; it was taken off-line in June 1996 and remains shut down. This unit was operated under RCRA interim status and is subject to RCRA interim status closure requirements, but it has not yet undergone closure. RF-1 has been disabled by locking out the starters of the motors for the unit's drive, cooling air fan, combustion air blowers, and induced draft fan. The electrical control panels have been removed so that there is no possibility that RF-1 could be operated in its current condition.

Hazardous and non-hazardous spent carbon was thermally treated in this furnace. The list of hazardous constituents that may have been adsorbed onto the spent carbon treated in RF-1 is very extensive and may have included, but may not be limited to, VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

The afterburner and air pollution control equipment, described in more detail in Section 6.1.3, provided controls for releases to the air from RF-1.

To ensure good combustion in the furnace and afterburner, carbon monoxide (CO) and oxygen (O₂) concentrations in the exhaust gases were monitored using a CEMS. The CEMS on the RF-1 emissions stack was installed in 1993. The CEMS data was used to determine whether the furnace and afterburner were functioning properly and to alert operators to potential upset conditions. In the CEMS on the RF-1 stack, the stack gases passed through the analyzer without interruption. When RF-1 was disabled, the CEMS for RF-1 was relocated and installed on the RF-2 unit.

Prior to shutting down RF-1, a control valve located at the exit of the reactivation feed tank (Tank T-8) was used to control feed to the reactivation furnace. Feed to RF-1 could be interrupted in an emergency using the dewatering screw emergency stop button. All equipment associated with RF-1 has been disabled.

RF-1 is located over a concrete pad. The area is paved and slopes to grated trenches that lead to a sump. The area was (and still is) washed down daily. Liquids collected in the grated trenches and sumps were (and still are) recycled on-site. The concrete area is surrounded by a six-inch berm.

Release History

During a 1993 EPA inspection, the stack emission was described as clear, and the stack plume was observed to dissipate rapidly. There was a wisp of smoke from the upper end of the dewatering screw-conveyor directly above the discharge chute to the furnace. The operator explained that this was due to insufficient draft at the furnace top hearth and also due to the fact that the screw-conveyor covers were not tightly closed.

The March 1994 Compliance Evaluation Inspection (CEI) report for EPA's October 1993 inspection states that facility personnel failed to visually observe the stack plume at least hourly for normal appearance (color and opacity).

In November 1995, the facility operator submitted to EPA a summary of emissions data from tests conducted by the operator for RF-1 in 1993 and 1994. The stack emissions testing was performed to compare the facility's emissions with existing RCRA emissions standards. The facility reported RF-1 contaminant emissions to be below EPA's 1994 emissions standards. (Note that the standard for particulate emissions at that time was 0.08 grains per dry standard cubic foot (gr/dscf) with EPA guidance proposing a standard of 0.015 gr/dscf.)

Remedial Actions

In 1993, the operator believed that the afterburner system was limiting the furnace to about 80 percent of its capacity. To correct this problem, the facility operator installed a bigger fan with a control damper and a fan to blow air into the afterburner. The operator also upgraded the CO and oxygen CEMS to modulate air blown into the afterburner to maintain a set CO level in the stack.

Migration Pathways

The RF-1 carbon regeneration furnace is no longer in operation as of June 1996, so the potential for releases from the operation of RF-1 to all media has been eliminated.

(1) Soil to Groundwater Release Potential

During operation of RF-1, the potential release directly to soil and groundwater was low. The likelihood of release was reduced by the concrete pad beneath the unit. Air pollution control equipment reduced contaminant emissions from RF-1. Hence, atmospheric deposition of contaminants to the soil was ongoing during operation of the unit, but likely occurred in small amounts.

(2) Surface Water Release Potential RF-1

The potential for contamination from RF-1 to release directly to surface water was low when it was operational. The likelihood of release was reduced by the concrete pad beneath the unit. Containment was provided for the unit, and the distance to the nearest surface water body is greater than two miles. Air pollution control equipment reduced contaminant emissions from RF-1. Hence, atmospheric deposition of contaminants from stack emissions to surface water was ongoing during operation of the unit, but likely occurred in small amounts.

(3) Air Release Potential RF-1

According to testing conducted by the facility operator, there were ongoing releases of small amounts of contaminants to the air when RF-1 was operational. RF-1 was equipped with air pollution control equipment, which reduced emissions of contaminants to the air, and a CEMS

for CO and O₂ that evaluated proper functioning of the furnace and alerted operators to potential upset conditions.

6.1.2 <u>HWMU 2</u> (Previously designated as <u>SWMU 2</u>): <u>Spent Carbon Reactivation</u> <u>Furnace RF-2</u>

Unit Description

RF-2 is a multiple hearth furnace consisting of five hearths (Hearths 1 through 5). RF-2, which operated since 1996, is located in the process area of the facility, east of the spent carbon storage warehouse. Organic compounds are desorbed from the carbon in the high temperature environment of the furnace. RF-2 has a production capacity of 1,200 lbs/hr. The reactivation process in RF-2 involves drying, pyrolysis (the chemical decomposition of the organics by heat), and chemical reaction.

The top two hearths (Hearths 1 and 2) are unfired hearths in which heat generated in the bottom three hearths (Hearths 3, 4, and 5) is used to complete the dewatering of the spent carbon. The bottom three hearths are fired hearths, where the pyrolosis and reaction steps of the reactivation process occur. There are two natural gas burners per hearth on the bottom three hearths. These burners are provided to ensure adequate heat input to the reactivation unit for all spent carbon reactivated at the facility. The approximate operating temperatures in the RF-2 hearths are as follows: 600-800° F for Hearth 1; 900-1,200° F for Hearth 2; 1,300-1,400° F for Hearth 3; 1,350-1,450° F for Hearth 4; and 1,400-1,500° F for Hearth 5.

Spent carbon is introduced into the top hearth and flows downward through the remaining four hearths. Rabble arms with teeth, each connected to a rotating center shaft, are located above each hearth. The rabble teeth plow the carbon material across the hearth surface and towards drop holes. The carbon falls through the drop holes to the next lower hearth, and eventually to the outlet of the reactivation furnace. Reactivated carbon exits the bottom hearth through a cooling screw prior to packaging and shipping the reactivated product. RF-2 is equipped with a primary combustion air fan and two-center shaft cooling fans.

RF-2 is equipped with APCE designed to remove contaminants in the gases prior to discharge to the atmosphere through the stack. The equipment includes an afterburner fired by two natural gas burners and designed for combustion of organic material in the off-gas from the furnace. From the afterburner the gases move to a venturi scrubber designed to remove particulate matter. The venturi scrubber also serves as a rapid quench system, which greatly reduces the formation of dioxins. The gases then travel to a packed-bed scrubber designed to remove acid gases, and lastly are routed to a wet electrostatic precipitator (WESP) designed to remove extremely fine particulates and metals before the stack gas stream is discharged to the atmosphere through the stack. A variable speed induced draft fan is provided to exhaust off-gases from the furnace and afterburner and through the APCE. The gas stream is then routed to the atmosphere through the 110-foot high, fiberglass emissions stack with an inside diameter of one foot. The air pollution control equipment is described in more detail later in this document.

The RF-2 furnace is designed to remove organic compounds from the spent carbon and to remove benzene to a level that meets the minimum requirements of NESHAP 40 CFR 61, Subpart FF of the CAA. According to air emissions tests conducted in March 2006 by Evoqua

and overseen by the EPA, the system achieves destruction and removal efficiency for organic compounds of greater than 99.99% (See Appendix V of the Part B Permit Application Reference 5).

The material of construction of RF-2 are presented in Table 1.

Status and Wastes Managed

The start-up date for RF-2 was July 11, 1996. The RF-2 unit is active and is the only reactivation process (treatment system) currently used at the facility. The unit is operated under RCRA interim status and is subject to the RCRA permit decision.

Hazardous and nonhazardous spent carbon is thermally treated in this furnace. The list of hazardous constituents that may be adsorbed onto the spent carbon treated in RF-2 is very extensive and may include, but is not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

The afterburner and air pollution control equipment provide controls for releases to the air from RF-2.

To ensure good combustion in the furnace and afterburner, CO and oxygen (O₂) concentrations in the exhaust gases are monitored using a CEMS. The CEMS on the RF-2 emission stack was moved from RF-1 in 1996 with shutdown of RF-1 and startup of RF-2. The CEMS data are used to determine whether the furnace and afterburner are functioning properly and to alert operators to potential upset conditions. In the CEMS on the RF-2 stack, the stack gases pass through the analyzer without interruption. The CEMS evaluates the gases at least once every 15 seconds and computes and records the results at least every 60 seconds. In addition to the CEMS, the RF-2 unit has a feed rate-monitoring device for continuous monitoring of CO and O₂.

A computerized system continuously monitors 739 points in RF-2 and associated equipment for parameters such as temperature, pressure, and flow rate every five seconds, of every hour, of every day. Readings from this system are fed into automatic alarm systems, such as high-level, low-flow, and low-pressure alarms. These automatic alarm systems help prevent malfunctioning of and releases from the furnace and related equipment. For example, a high-level alarm is attached to the dewatering screw on RF-2 where water carbon slurry is dewatered prior to introduction into the reactivation furnace. The unit is automatically shut down if this alarm is triggered. This ensures that the dewatering screw that feeds RF-2 does not overflow. There are low-temperature alarms for the furnace and afterburner. If the temperature in the afterburner falls below the level necessary to destroy incoming contaminants, the furnace feed system is automatically shut off within one to two seconds, preventing carbon from entering the furnace. This immediate feed system shut-off is designed to prevent the release of VOCs.

Other alarms include low-flow and low-pressure alarms for the combustion air supply and the shaft cooling air supply to RF-2. A failure alarm is attached to the RF-2 burners, a high-pressure alarm is provided for the RF-2 furnace draft, and a low-speed alarm is installed to detect problems with the RF-2 center shaft rotation. In addition, high-weight and low-weight alarms are functional on RF-2; these alarms alert the plant operations personnel if carbon levels on the weigh belts are outside the limits of predetermined specifications. If there is an explosion in the furnace or the afterburner, all equipment surrounding the furnace will be shut down automatically. This includes all burners, fans, and the dewatering screw. Natural gas will be shut off manually.

Daily inspections of the CEMS and the RF-2 furnace system are conducted. The RF-2 APCE and ancillary equipment (pumps, valves, and pipes) are visually inspected daily by the facility to ensure the absence of leaks, spills, fugitive emissions, and signs of unauthorized tampering. The calibration data from the CEMS is checked daily to ensure the CEMS is operating within proper parameters. For more information about the inspection and the calibration schedules please see the latest revision of the Permit Application Reference 5, Sections D, F, and Appendix XII.

A concrete pad surrounded by a berm is present under RF-2. The area is paved and slopes to grated trenches that lead to a sump. The area is washed down daily. Liquids collected in the grated trenches and sumps are recycled on-site.

Release History

During a review of the facility's inspection logs during both VSIs, no evidence of unsatisfactory operating conditions was discovered.

The emissions test data submitted by the operator in the permit application suggest that the plant operates below MACT emission standards from the stack during normal operations. (See the latest revisions of Appendix V and Appendix XI in the Permit Application Reference 5).

There is no known record or report of other past releases that have occurred at this unit. Other than the stack off-gas, no releases were observed at this unit during either VSIs.

Remedial Actions

One description of remedial action was found in the facility file material reviewed during the 2003 VSI. In April 2001, the CEMS operation was unsatisfactory for the oxygen analyzer. Corrective action involved ordering a new oxygen analyzer for the CEMS.

According to the facility's quarterly inspection reports reviewed during the 2003 VSI, a fan was purchased in 1999 to ventilate potential emissions from the dewatering screw to the afterburner.

No other remedial actions were noted in the 2014 VSI.

Migration Pathways

(1) Soil to Groundwater Release Potential

There is low release potential directly to the soil and groundwater. The likelihood of release is reduced by the bermed concrete pad beneath the unit. APCE reduces the contaminant emissions from RF-2. For more details about the release potential and the risk from that please see Appendix XI in the Permit Application Reference 5.

(2) Surface Water Release Potential

The potential for contamination to release directly to surface water from RF-2 is low. The likelihood of release is reduced by the bermed concrete pad beneath the unit. APCE reduces the contaminant emissions from RF-2, and the distance to the nearest surface water body is greater than two miles. For more details about the release potential and the risk from that please see Appendix XI in the Permit Application Reference 5.

(3) Air Release Potential

According to testing conducted by the operator, there are ongoing releases of small amounts of contaminants to the air from RF-2. RF-2 is equipped with air pollution control equipment, which reduce emissions of contaminants to the air, and a CEMS for CO and O₂ that evaluates proper functioning of the furnace and alerts the operator to potential upset conditions. For more details about the release potential and the risk from that, see Appendix XI in the Permit Application Reference 5.

6.1.3 <u>HWMU 3 (Previously designated as SWMU 3)</u>: Air Pollution Control Equipment for RF-1

Unit Description

APCE was present on RF-1 from startup in 1992 until it was shut down in 1996. The RF-1 equipment included an afterburner designed for combustion of organic material in the off-gas from the furnace. From the afterburner the gases moved to a venturi scrubber designed to remove particulate matter from the air stream. The gases then traveled to a packed-bed scrubber designed to remove acid gases. An induced draft fan was used to exhaust combustion gases from the RF-1 furnace, afterburner, and air pollution control system. The gas stream was exhausted to the atmosphere via a 115-foot high stack with an inside diameter of one foot. The stack, constructed of carbon steel, was removed when the unit was shut down in 1996.

The materials of construction of the APCE for RF-1 is presented in Table 1 listing the units above.

Status and Wastes Managed

APCE on RF-1 was operated from 1992 until 1996 when RF-1 was shut down. It has not been operated since 1996.

Gases that come off the carbon regeneration furnace were managed in the APCE. Although the combustion process was expected to destroy much of the organic contaminants originally on the spent carbon, the list of hazardous constituents that may have been in these gases included, but is

not limited to, VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes that were acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5. This is the same list that the facility continues to receive and treat in the newer furnace that is currently operating.

Release Controls

An induced draft fan was provided to exhaust combustion gases from the furnace and afterburner and through the air pollution control system. A high-level alarm system, a high temperature alarm, and a low flow alarm for the scrubber water supply were installed on the packed bed scrubber.

Devices in the venturi, packed bed, and WESP scrubber systems continuously monitored pressure drop of the gases exhausted from the furnace. If these monitors detect readings outside prescribed levels, the carbon feed system was automatically shut off. The pressure monitors were designed to protect against the release of acid gases or particulate emissions above concentration limits specified in the MACT standards.

The system also contained a CEMS, which monitored CO and O₂. The CEMS helped determine whether complete combustion occurred in the furnace and afterburner.

A bermed concrete pad was and continues to be present under the APCE. The area is paved and slopes to grated trenches that leads to a sump. The area was washed down daily. Liquids collected in the grated trenches and sumps were recycled on-site.

Release History

During a review of the facility's inspection logs during the 2003 VSI, no evidence of unsatisfactory operating conditions was discovered.

For more details about the release potential and the risk from that see Appendix XI in the Permit Application Reference 5.

No additional release history for this unit was identified in the file material during the 2003 VSI.

Remedial Actions

No documented remedial actions have been performed at this unit.

Migration Pathways

(1) Soil to Groundwater Release Potential

There was at RF-1 low release potential directly to the soil and groundwater during its operation. The likelihood of release was reduced by the presence of a bermed concrete pad surrounding RF-1. The APCE reduced the contaminant emissions from the furnaces. Hence, although atmospheric deposition of contaminants to the soil was ongoing, it occurred in small amounts.

For more details about the release potential and the risk from that see Appendix XI in the Permit Application Reference 5.

(2) Surface Water Release Potential

The potential to release directly to surface water (which is 2 miles away) from the APCE was low. The likelihood of release was reduced by the bermed concrete pad beneath these units. The APCE reduced the contaminant emissions from the furnaces, and the distance to the nearest surface water body was greater than two miles. Hence, atmospheric deposition of contaminants from stack emissions to surface water was ongoing, but it occurred in small amounts due to the APCE. For more details about the release potential and the risk from that see Appendix XI in the Permit Application Reference 5.

3) Air Release Potential

According to testing conducted by the facility, RF-1 released small amounts of contaminants to the air through the APCE. For more details about the release potential and the risk from that see Appendix XI in the Permit Application Reference 5. The air pollution control equipment reduced emissions of contaminants to the air, and a CEMS for CO and O₂ that evaluated proper functioning of the furnace and alerted operators to potential upset conditions.

6.1.4 <u>HWMU 4 (Previously designated as HWMU 4): Air Pollution Control Equipment</u> for RF-2

<u>Unit Description</u>

New APCE was purchased for RF-2 when the unit was brought into operation in 1996. APCE on RF-2 is designed to remove hazardous constituents from the gases coming from RF-2. RF-2 and ancillary APCE are contained in a central tower structure. The APCE for RF-2 is comprised of an afterburner, a venturi scrubber, a packed bed scrubber, and a wet electrostatic precipitator.

The afterburner for RF-2 is a self-supporting vertical cylindrical chamber. It includes a baffle wall to route the off-gas from the furnace through the afterburner. The afterburner is designed to thermally oxidize greater than 99.99 percent of the organic material that enters the afterburner.

The venturi scrubber for RF-2 is of the adjustable throat vertical down flow type. A pneumatic cylinder actuator and electro pneumatic positioner adjust the throat area. The throat can be adjusted to maintain a constant pressure differential. The elbow incorporates a water-filled gas impact section directly beneath the throat to prevent erosion of the shell. The water supply for venturi irrigation is recirculated scrubber water. The venturi scrubber is located directly below a quench section and is connected by a flooded elbow to the packed bed scrubber. The venturi scrubber is designed to achieve an outlet particulate matter grain loading of less than 0.03 gr/dscf adjusted to 7 percent oxygen. The venturi scrubber differential pressure is used to determine proper operation of the venturi scrubber.

The packed bed scrubber for RF-2 consists of a vertical up flow and cylindrical disengaging section followed by a packed bed section and a mist eliminator. The bottom portion of the

scrubber is used to de-entrain water droplets from the gas prior to entering the packed section of the scrubber. The packed bed scrubber is designed to remove a minimum of 99 percent of the incoming hydrogen chloride.

Scrubber water is supplied between the venturi scrubber and the packed bed scrubber via scrubber water supply lines and return lines.

The wet electrostatic precipitator for RF-2 is of a vertical tubular down-flow design with self-irrigating tubes. The wet electrostatic precipitator consists of inlet gas distribution and straightening devices, which are provided to distribute process gas flow entering the electrostatic precipitator, inlet and outlet plenums, a collecting electrode tube bundle, an intermittent flushing system, and a continuous drainage system. The electrostatic precipitator is also equipped with outboard high voltage insulator compartments. The wet electrostatic precipitator, in conjunction with the venturi scrubber, is designed to achieve a maximum outlet particulate matter grain loading of 0.015 gr/dscf adjusted to 7 percent oxygen.

The material of construction of the APCE for RF-2 is presented in Table 1 listing the units above.

Status and Wastes Managed

New APCE was purchased for RF-2. The start-up date for the APCE on RF-2 was July 1996, and it is currently active. As a component of the carbon regeneration system, the APCE on RF-2 is operating under RCRA interim status, and is subject to the RCRA permit decision.

Gases coming off the carbon regeneration furnace are managed in the APCE. Although the combustion process is expected to destroy much of the organic contaminants originally on the spent carbon, the list of hazardous constituents that may be in these gases includes, but is not limited to, VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

An induced draft fan is provided to exhaust combustion gases from the furnace and afterburner and through the air pollution control system. A high-level alarm system, a high temperature alarm, and a low flow alarm for the scrubber water supply are installed on the packed bed scrubber.

Devices in the venturi, packed bed, and WESP scrubber systems continuously monitor pressure drop of the gases exhausted from the furnace. If these monitors detect readings outside prescribed levels, the carbon feed system is automatically shut off. The pressure monitors are designed to protect against the release of acid gases or particulate emissions beyond concentration limits specified in the MACT standards.

The system also contains a CEMS, which monitors CO and O₂. The CEMS helps determine whether complete combustion occurs in the furnace and afterburner.

A bermed concrete pad is present under the APCE. The area is paved and slopes to grated trenches that lead to a sump. The water collected in the sump is routed to recirculation tank, T-9.

Release History

During a review of the facility's inspection logs during both VSIs, no evidence of unsatisfactory operating conditions were discovered. For more details about the release potential and the risk from this unit see Appendix XI in the Permit Application Reference 5.

No additional release history for this unit was identified in the file material during either VSIs.

Remedial Actions

No documented remedial actions have been performed at this unit.

Migration Pathways

(1) Soil to Groundwater Release Potential

RF-2 has a low potential to release directly to the soil and groundwater. The likelihood of release is reduced by the bermed concrete pad beneath and around the unit. The APCE reduces the contaminant emissions from the furnaces. For more details about the release potential and the risk from this unit see Appendix XI in the Permit Application Reference 5.

(2) <u>Surface Water Release Potential</u>

The potential to release directly to surface water from the APCE is low. The likelihood of release is reduced by the bermed concrete pad beneath the unit. The APCE reduces the contaminant emissions from the furnaces, and the distance to the nearest surface water body is greater than two miles. For more details about the release potential and the risk from this unit please see Appendix XI in the Permit Application Reference 5.

3) Air Release Potential

The air pollution control equipment reduces the potential of emissions of contaminants to the air, and a CEMS for CO and O₂ that evaluates proper functioning of the furnace alerts operators to potential upset conditions. For more details about the release potential and the risk from this unit see Appendix XI in the Permit Application Reference 5.

6.1.5 <u>HWMU 5 (Previously designated as SWMU 4):</u> Spent Carbon Unloading Hopper

Unit Description

H-1

Unloading hopper H-1 is located below-grade and is located at the north end of the facility adjacent to the spent carbon storage warehouse. The material of construction for H-1 is presented in Table 1 listing the units above.

Spent carbon is unloaded directly from trucks and large containers into H-1. Trucks are connected to a pipe that is adjacent to and outside of the roofed structure over the hopper. Spent carbon received in large containers such as roll-offs is typically transferred to the hopper by tipping the containers into feed hopper H-1.

The spent carbon flows by gravity through a grate into H-1. Water from Tank T-9 is added as the carbon passes through the hopper to facilitate the transfer of the spent carbon from the hopper via an eductor. The spent carbon slurry is then piped from H-1 to one of four slurry storage tanks (T-1, T-2, T-5, or T-6).

Eighty percent of the incoming spent carbon is handled at hopper H-1. The capacity of hopper H-1 is 5,000 pounds of spent carbon per unloading event.

Status and Wastes Managed

The start-up date for this unit was July 1996, and it is currently active. As a component of the spent carbon handling system, this unit is operating under RCRA interim status, and is subject to the RCRA permit decision.

Hazardous and nonhazardous spent carbon is managed in this unit. The list of hazardous constituents that may be adsorbed onto the spent carbon is very extensive and may include, but is not limited to, VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

H-1 is located below-grade and is equipped with a roofed and three-sided metal structure. The fourth side of the structure is a roof-to-ground sheet of rubber strips approximately five inches wide through which bulk shipments of spent carbon are unloaded. The rubber strips are pushed aside during the unloading of roll-off containers. H-1 is located within a bermed concrete pad with grated trenches and sumps that recycle any water back to tank T-9.

The system is designed to control emissions of VOCs and particulates during the unloading process. A fan pulls air along with organic vapors and particulates from the space formed by the roofed metal structure and the rubber strips. The air is routed via stainless steel piping through a baghouse for particulate removal and then through a large carbon adsorption canister (WS-2) for removal of organic vapors before being vented to the atmosphere.

The carbon in the WS-2 canister is replaced before breakthrough. It was determined through engineering calculations that the carbon in WS-2 needs to be replaced every 100 days at a maximum. The facility operator visually inspects WS-2 for leaks and proper operation on a daily basis. The facility operator also visually inspects the bags in the baghouse on a weekly basis to ensure the bags are in good condition and are operating properly and that the pressure drop across the system is acceptable. The bags are replaced as necessary.

Release History

EPA's *Compliance Evaluation Inspection Report* for February 1994 presented one concern regarding the potential for release of hazardous carbon particulates during unloading of drums and bulk loads to the hoppers, H-1 and H-2. During the inspection, there appeared to be a potential for release of fugitive particulates due to the design of the hood/vacuum that pulls air from the receiving and unloading areas to one of the baghouses, which is located at ground level between the two hoppers. In response to the 1994 inspection, the facility representatives stated that the practice of watering down the spent carbon as it is unloaded effectively controls fugitive particulates.

The facility's quarterly visual inspection form for February 24, 1996, reviewed during the VSI, indicated that on February 1, 1996 "water accumulation" that had come in contact with benzene-contaminated spent carbon had occurred outside of unloading hopper H-1. On February 1, 1996, the water was collected and routed to the recycle water tank T-9. This water accumulation occurred within the bermed concrete pad.

The facility's daily inspection records reviewed during the VSI revealed that on three occasions the carbon adsorption canister was not hooked to the hoppers (on September 21, 2000; on December 18, 2000; and on March 9, 2001). The facility records did not indicate how long the hoppers were unhooked during these incidents or whether unloading occurred during this time. However, according to facility personnel, the hoppers were likely unhooked for 24 hours or less at each of these incidents, since daily inspections are conducted and work orders are written upon discovery of a problem.

Review of the more recent records didn't show that these issues have occurred in the more recent years.

During both VSIs, the concrete pad appeared to be in good condition, and no releases were observed at this unit. For more details about the release potential and the risk from this unit see Appendix XI in the Permit Application Reference 5.

Remedial Actions

There are no documented remedial actions at this unit.

Migration Pathways

(1) Soil to Groundwater Release Potential

There is low release potential directly to soil and groundwater from this unit. The likelihood of release is reduced by the bermed concrete pad beneath this unit. For more details about the release potential and the risk from this unit please see Appendix XI in the Permit Application Reference 5.

(2) <u>Surface Water Release Potential</u>

There is low release potential directly to the surface water from this unit. The likelihood of release is reduced by the bermed concrete pad beneath this unit. Although there was a release of

contaminated water from H-1, it was contained by the bermed concrete pad. The distance to the nearest surface water is greater than two miles. For more details about the release potential and the risk from this unit see Appendix XI in the Permit Application Reference 5.

(3) Air Release Potential

There is release potential to air from hopper H-1. Air releases are minimized by the roofed, three-sided structure with rubber strips on the fourth side that surrounds the unloading hopper. However, there is a potential for release of contaminants through the rubber strips while unloading occurs. Air releases are also minimized by the water spray system, the baghouse, and the carbon adsorption canister (WS-2). However, the facility's files indicate that the carbon adsorption canister was unhooked on three occasions. Releases of organic vapors may have occurred to the air if carbon was unloaded to the hopper during these occasions. Review of the more recent records showed that these issues have not occurred in more recent years.

During both VSIs, the bermed concrete pad appeared to be in good condition, and no releases were observed at this unit. For more details about the release potential and the risk from this unit see Appendix XI in the Permit Application Reference 5.

6.1.6 <u>HWMU 6 (Previously designated as SWMU 5)</u>: Spent Carbon Unloading Hopper

Unit Description

<u>H-2</u>

Unloading hopper H-2 is located inside the spent carbon warehouse at the east wall. Twenty percent of all incoming spent carbon managed at the facility is handled at H-2. The capacity of H-2 is 500 lbs. per unloading event. The material of construction of this unit is presented in Table 1 listing the units above.

Various sized containers and drums containing spent carbon are removed from incoming trucks and stored in a bermed containment area within the spent carbon warehouse. The containers and drums are unloaded into H-2 by tipping the contents into the hopper. H-2 is equipped with a water spray system to wash out containers immediately following unloading. There is a lid on this hopper, which is kept closed except when spent carbon is being emptied into the hopper.

The spent carbon flows by gravity through a grate into the hopper. Water from Tank T-9 is added as the carbon passes through the hopper to facilitate the transfer of spent carbon from the hopper via an eductor. The spent carbon slurry is then piped from H-2 to one of four carbon slurry storage tanks (T-1, T-2, T-5, or T-6).

Status and Wastes Managed

The start-up date for this unit is 1992, and it is currently active. As a component of the spent carbon handling system, this unit is operating under RCRA interim status, and is subject to the RCRA permit decision.

Hazardous and nonhazardous spent carbon is managed in this unit. The list of hazardous constituents that may be adsorbed onto the spent carbon is very extensive and may include, but is

not limited to, VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

A collector system was installed at start-up in 1992 to control particulate and VOC emissions during the container unloading operation. VOCs and particulates, which are released during the unloading process at H-2, are drawn through a stainless steel pipe at the back of the hopper and routed to a baghouse designed to remove particulates and a carbon adsorption canister, WS-2, designed to remove VOCs.

This unit is located inside a warehouse. The floor of the warehouse is concrete with grated trenches that lead to a sump. Any liquids captured inside the warehouse are recycled to Tank T-9.

Release History

EPA's Compliance Evaluation Inspection Report for February 1994 presents one concern regarding the potential for release of hazardous carbon particulates during unloading of drums and bulk loads to the hoppers, H-1 and H-2. During the inspection, there appeared to be a potential for release of fugitive particulates due to the design of the hood/vacuum that pulls air from the receiving and unloading areas to one of the baghouses, which is located at ground level between the two hoppers. In response to the inspection, the facility representatives stated that the practice of watering down the waste carbon as it is unloaded effectively controls fugitive particulates.

The facility's daily inspection records reviewed during the VSI revealed that on three occasions the carbon adsorption canister was not hooked to the hoppers (on September 21, 2000; on December 18, 2000; and on March 9, 2001). The facility records did not indicate how long the hoppers were unhooked during these incidents or whether unloading occurred during this time. However, according to facility personnel, the hoppers were likely unhooked for 24 hours or less at each of these incidents, since daily inspections are conducted and work orders are written upon discovery of a problem.

Review of the more recent records didn't show that these issues have occurred in the more recent years.

There is low potential for a release from H-2 since a stainless steel pipe attached to H-2 draws vapors and particulates from the spent carbon as it is unloaded and routes them to a baghouse and carbon adsorption canister WS-2.

The carbon in the WS-2 canister is replaced before breakthrough. It was determined through engineering calculations that the carbon in WS-2 needs to be replaced every 100 days at a maximum. The facility operator visually inspects WS-2 for leaks and proper operation on a daily basis. The facility operator also visually inspects the bags in the baghouse on a weekly basis to ensure the bags are in good condition and are operating properly and that the pressure drop across the system is acceptable. The bags are replaced as necessary.

No releases were observed at this unit during both VSIs. During both VSIs, the bermed concrete pad appeared to be in good condition, and no releases were observed at this unit. For more details about the release potential and the risk from this unit see Appendix XI in the Permit Application Reference 5.

Remedial Actions

No documented remedial actions have been performed at this unit.

Migration Pathways

(1) Soil to Groundwater Release Potential

There is low potential of a release from this unit directly to the soil or groundwater since the unit is located inside the spent carbon warehouse and the floor of the warehouse appears to be in good condition. There is low release potential to soils though deposition from air releases (see item 3 below).

(2) Surface Water Release Potential

There is low potential for release directly to the surface water since the unit is located inside the spent carbon warehouse and the floor of the warehouse appears to be in good condition as stated above. In addition, any spilled liquids are piped to on-site recycle water tank T-9 via a sump located near trenches in the floor. The distance to the nearest surface water is greater than two miles. There is low release potential to surface water through deposition from air releases (see item 3 below).

(3) Air Release Potential

There is low potential for a release to air since a stainless steel pipe attached to H-2 draws vapors and particulates from the spent carbon as it is unloaded and routes them to a baghouse and carbon adsorption canister WS-2.

The carbon in the WS-2 canister is replaced before breakthrough. It was determined through engineering calculations that the carbon in WS-2 needs to be replaced every 100 days at a maximum. The facility operator visually inspects WS-2 for leaks and proper operation on a daily basis. The facility operator also visually inspects the bags in the baghouse on a weekly basis to ensure the bags are in good condition and are operating properly and that the pressure drop across the system is acceptable. The bags are replaced as necessary.

The facility files indicate that the carbon adsorption canister was unhooked on three occasions. Releases of VOCs may have occurred to the air if spent carbon was unloaded to the hopper during these occasions. Review of the more recent records showed that these issues have not occurred in the more recent years. No releases were observed at this unit during both VSIs.

6.1.7 HWMU 7 (Previously designated as SWMU 6): Hopper Air Pollution Control

Equipment (Piping and Baghouse)

Unit Description

HWMU 7 is a particulate and organic vapor collection system made of steel piping. The system has been installed to collect the particulates and organic vapors from hoppers H-1 and H-2. Particulates and organic vapors, which are released during the unloading process at H-1 and H-2, are drawn through stainless steel pipes at the back of the hoppers and routed first to a baghouse designed to remove particulates and then to a carbon adsorption canister (WS-2) designed to remove VOCs. Treated air is exhausted to the atmosphere. The material of construction of this unit is presented in Table 1 listing the units.

Status and Waste Managed

The start-up date for this unit was 1992, and it is currently active. It is operated to meet the fugitive emission (benzene) NESHAPs standards under the CAA. As a component of the spent carbon handling system, this unit is operating under RCRA interim status, and is subject to the RCRA permit decision.

Air containing particulates and organic vapors is managed in this unit. The list of hazardous constituents that may be present in the air is very extensive and may include, but is not limited to, VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

The system is inspected weekly to ensure the particulate collection bags in the baghouse are in good condition and the pressure drop across the system is adequate. A bermed concrete pad is present under the piping that runs outdoors.

Release History

EPA's *Compliance Evaluation Inspection Report* for February 1994 presents one concern regarding the potential for release of hazardous carbon particulates during unloading of drums and bulk loads to the hoppers, H-1 and H-2. During the inspection, there appeared to be a potential for release of fugitive particulates due to the design of the hood/vacuum that pulls air from the receiving and unloading areas to one of the baghouses located on top of the carbon regeneration unit. In response to the results of the inspection, the facility representatives stated that the practice of watering down the waste carbon as it is unloaded effectively controls fugitive particulates.

No release was observed at this unit during both VSIs.

Remedial Actions

There were no documented remedial actions performed at this unit.

Migration Pathways

(1) Soil to Groundwater Release Potential

There is low release potential directly to soil and groundwater from this unit. The likelihood of release is reduced by the bermed concrete pad beneath this unit. For more details about the release potential and the risk from this unit see Appendix XI in the Permit Application Reference 5. In addition, there is low release potential to soils through deposition from air releases (see item 3 below).

(2) Surface Water Release Potential

The potential to release from this unit directly to surface water is low because the unit is located over concrete pads and the distance to surface water is greater than two miles. In addition, there is low release potential to surface water through deposition from air releases (see item 3 below).

(3) Air Release Potential

The potential to release contaminants from this unit to air is low due to routine inspections of the air pollution control system including prompt replacement of any parts, particulate collection bags, and carbon in the carbon adsorber units as needed. The facility operator also visually inspects the bags in the baghouse on a weekly basis to ensure the bags are in good condition and are operating properly and that the pressure drop across the system is acceptable. The bags are replaced as necessary.

No releases were observed at this unit during either VSIs. During both VSIs, the bermed concrete pad appeared to be in good condition, and no releases were observed at this unit. For more details about the release potential and the risk from this unit see Appendix XI in the Permit Application Reference 5.

6.1.8 <u>HWMU 8 (Previously designated as SWMU 7): Spent Carbon Slurry and Recycle Water Transfer System</u>

Unit Description

This unit is used for transporting spent carbon slurry from unloading hoppers H-1 and H-2 to spent carbon slurry storage tanks T-1, T-2, T-5, and T-6, to reactivation feed tank T-18, and finally to reactivation furnace RF-2. The transfer equipment is located east of the spent carbon warehouse and includes eductor pumps, valves, steel piping, and flexible piping used to transfer the spent carbon slurry from unloading hoppers H-1 and H-2 to the spent carbon slurry storage tanks, from the spent carbon slurry storage tanks to reactivation furnace feed tank T-18, and from the reactivation furnace feed tank to reactivation furnace RF-2 (Appendix E).

The materials of construction for this system are presented in Table 1 listing the units above. The material for all valves is stainless steel. Spent carbon pipelines (inlets, outlets, and overflows) are also constructed of stainless steel. There is one flexible piping that is constructed of steel-reinforced rubber hose. The pipelines are not internally lined because they are compatible with the waste being handled at the facility.

During periodic inspections the pipelines were noted to be free from outside corrosion. All pipelines are supported throughout by hanger supports and steel bridge supports, and "U" bolts guide them.

Status and Wastes Managed

This transfer system was used for the RF-1 feed system from 1992 to 1996, and it has been used for RF-2 since 1996. The system is currently active. As a component of the spent carbon handling system, this unit is operating under RCRA interim status and is subject to the RCRA permit decision.

Hazardous waste in the form of spent carbon slurry, along with recycle water that has been in contact with the spent carbon, is managed in this unit. The list of hazardous constituents that may be present in slurry and recycle water is very extensive and may include, but is not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

In the treatment and storage areas, the permanent piping used to transfer spent carbon is rated for at least 125 percent of the nominal operating pressure. All piping and pumps are compatible with the waste that they come in contact with. Pumps are located within a concrete pad to control releases in the event of a leak. The pump motors are Teflon® to minimize chances of electrical shorting if liquids contact the motors. All rotating parts of the pumps are fitted with guards.

The facility operator inspects all transfer equipment weekly for signs of corrosion and leaks and for proper operation. If a problem is found, it is taken care of upon discovery or as soon as possible.

Release History

Based on a review of inspection logs and file material during both VSIs, there are no known records or reports of past releases from this unit. No releases were observed at this SWMU during both VSIs.

Remedial Actions

There are no documented remedial actions performed at this unit.

Migration Pathways

(1) Soil to Groundwater Release Potential

There is low potential of a release from this unit to the soil and groundwater since routine

inspections of the system are performed, and the unit is located within bermed concrete pads.

(2) Surface Water Release Potential

The distance to the nearest surface water is greater than two miles. There is low potential of release to the surface water from this unit since routine inspections of the system are performed, and the unit is located within bermed concrete pads.

(3) Air Release Potential

The air release potential is low because the unit is a closed-loop system that is inspected routinely for integrity to ensure that there are no leaks.

6.1.9 <u>HWMU 9 (Previously designated as SWMU 8): Spent Carbon Storage Warehouse (Container Storage Area)</u>

Unit Description

This warehouse is located in the northern portion of the facility. The hazardous waste storage portion of the warehouse has the capacity to store 100,000 gallons of containerized waste and 35,000 gallons of bulk hazardous waste. Currently, only containerized wastes (drums and filter canisters) are stored in the warehouse; the containers are stored on pallets. Samples collected from incoming spent carbon are also stored in the hazardous waste portion of the warehouse. The samples are stored in glass jars on metal shelves until the batch of spent carbon from which the samples were collected is reactivated. The samples are then poured into the hopper for processing, and the jars are triple-rinsed and reused.

The container storage area is designed to hold up to 100,000 gallons of RCRA spent carbon. The containment system is designed to hold a minimum of 10,000 gallons. The containment volume calculations are shown in Appendix VII of Permit Application Reference 5. The calculated containment volume is 19,418 gallons, which is larger than the minimum required 10,000 gallons. Because the container storage area is inside, run-on is not a consideration. If a container leaks, any liquids leaking from the container will drain into the sump via the trench system, where it will be transferred to recycle water tank T-9. Details of the container storage area floor, slope, sump, etc. can be found on the drawings contained in Appendix VII of the Permit Application Reference 5.

Facility history indicates that more than half of the containers received do not contain free liquids. All containers however are managed in the same manner, consistent with practices for containers with free liquids.

The warehouse slab-on-grade is designed for containment (prevention of release of any spills of hazardous waste to the environment). The slab is constructed of five-inch thick reinforced concrete (3,000 psi) on two-inch sand on a six-millimeter visqueen vapor barrier on a four-inch compacted gravel base. All construction and control joints in the slab are coated with a sealant. The slab is designed for warehouse storage use and light forklift traffic. The slab is sloped one-eighth of an inch per foot to trench drains, which flow into a concrete sump. The slab slope is from the perimeter to the interior trench drains (1 foot by 1 foot minimum). The trench drains

slope to a sump (3 feet by 3 feet by 3 feet), where any liquids that enter may be stored for subsequent removal.

Any spills within the containment area of the warehouse will drain to the sump. The sump is equipped with a pump that removes any accumulation in the sump to the recycled water storage tank T-9. In addition, a continuous six-inch high concrete curb is provided around the entire building.

All drums and containers stored in this warehouse are managed as "Subpart FF-affected wastes" (meaning the containers are subject to the requirements of the Clean Air Act ("CAA") air emission control provisions at 40 CFR Part 61, subpart FF) and meet DOT container requirements. The materials of construction of the spent carbon storage warehouse are presented in Tables 1 listing the units above.

Status and Wastes Managed

Use of the warehouse for container storage of hazardous waste began in 1992, and it remains active. The hazardous waste portion of the warehouse is operated under RCRA interim status and is subject to the RCRA permit decision.

Both hazardous and nonhazardous spent carbon is managed in this unit. The list of hazardous constituents that may be present on the spent carbon stored in the warehouse is very extensive and may include, but is not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

Facility personnel inspect the hazardous waste container storage area on a daily basis. The containment system is inspected for cracks, surface erosion, and the integrity of the surface coating. Cracks in the concrete floor of the spent carbon storage warehouse have been sealed with a polyresin, Sikadur-35® or equivalent. On the hazardous waste storage side, the floor is divided by a sump system that collects any spills or wash waters. Liquids collected in the sump system are pumped into the recycle water system. The Container Storage Area is inspected daily. The storage pad is checked for cracks and gaps that would prevent a spill from being contained. Trenches and the sump are checked for standing liquids. Aisles are inspected to make sure they are not blocked and that they allow inspection.

Drums and containers used to store spent carbon that are stored in this facility are visually inspected daily by facility personnel to ensure the absence of corrosion and leaks. To ensure that they are closed during storage, and that they are not leaking and have the required labels.

Release History

Hazardous spent carbon was observed within the containment area on the warehouse floor during EPA's October 1993 inspection, although the floor had been recently washed down. The spill

was inside the containment area, and may have been indicative of sloppy unloading of spent carbon into hopper H-2.

A review of the facility's quarterly visual inspection logs during the 2003 VSI revealed that in February 1996, a vent scrub tank in the hazardous waste storage area of the warehouse did not have a bottom plug. (A vent scrub tank is a vessel filled with carbon that a generator uses on their site to filter air. When the carbon is ready to be changed out, the entire vessel containing the spent carbon is shipped to the facility for regeneration of the spent carbon.) The problem was resolved upon discovery. No release of any liquid or spent carbon was reported.

During an EPA inspection conducted in June 2001, an open barrel of sample jars, some closed and others without lids, was observed in the hazardous waste storage area within the warehouse. It appeared that the samples may have been dumped into a barrel for storage until disposal or processing for reuse. The facility operator has corrected the problem.

Records reviewed during the 2003 VSI indicate that only one leaking drum has ever been discovered in the warehouse (September 8, 2000); the drum was pulled from the pallet and the contents dumped into hopper H-2. No release was observed at this unit during the 2014 VSI.

Remedial Actions

A plug was installed at the vent scrub tank on February 1, 1996. Also, the barrel of sample jars was removed, and facility personnel now empty the sample jars into the hopper H-2 rather than storing them in a drum.

Migration Pathways

(1) Soil to Groundwater Release Potential

The potential for release from this unit to the soil and groundwater is low because the unit includes secondary containment and is routinely inspected.

(2) Surface Water Release Potential

The distance to the nearest surface water is greater than two miles. There is low release potential to surface water because the unit includes secondary containment and is routinely inspected.

(3) Air Release Potential

The potential for release is low from this unit to air. The containers of spent carbon are kept tightly closed except to unload into hopper H-2. There is low potential for a release to air since a stainless steel pipe attached to H-2 draws vapors and particulates from the spent carbon as it is unloaded and routes them to a baghouse and carbon adsorption canister WS-2. The carbon in the WS-2 canister is replaced before breakthrough. It was determined through engineering calculations that the carbon in WS-2 needs to be replaced every 100 days at a maximum. The facility operator visually inspects WS-2 for leaks and proper operation on a daily basis. The facility operator also visually inspects the bags in the baghouse on a weekly basis to ensure the

bags are in good condition and are operating properly and that the pressure drop across the system is acceptable. The bags are replaced as necessary.

6.1.10 <u>HWMU 10-13</u> (Previously designated as <u>SWMUs 10-13</u>): Spent Carbon Slurry Tank System

Units Descriptions

The spent carbon slurry storage tanks are located outside and east of the spent carbon storage warehouse. These tanks are used to store carbon slurry from unloading hoppers H-1 and H-2. From the spent carbon storage tanks the carbon slurry is pumped to reactivation furnace feed tank T-18. The material of construction for all four tanks is stainless steel, specific grade 300 series, and each tank has a design capacity of 8,319 gallons. All four tanks are staged on skirt supports on a steel platform structure. Information on the tanks is presented in Table 1 listing the units above.

The tanks were assessed by a professional engineer in April 2012. For more details about the conditions of the tank, please see the Appendix IX dated April 2012 in the Permit Application Reference 3. In addition the facility does daily inspections of the tanks as described in Appendix XII of Permit Application Reference 4. Each tank is inspected for signs of corrosion, leaks, proper operation, etc. The secondary containment underneath the tanks is inspected for gaps, cracks, standing water, etc. The containment sump is also checked for cracks and standing water. If water is found it is pumped to recycle water tank T-9.

Status and Wastes Managed

The tanks were purchased as used tanks that were new in 1956. The start-up date for the tanks was in 1992, and they are currently active. The tanks are managed and operated under RCRA interim status and are subject to the RCRA permit decision.

Hazardous spent carbon slurry is managed in these units. The list of hazardous constituents that may be adsorbed to the spent carbon slurry is very extensive and may include, but is not limited to: VOCs, PAHs, phthaates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

The tanks are located on a secondary containment pad that has U-drains routed to recycle tank T-9. Piping systems and pumps for the four tanks are also located within the secondary containment area.

The tanks are directly attached to a carbon adsorber (for venting). Carbon adsorber WS-1 controls VOC emissions including potential benzene emissions from the tanks. WS-1 is designed to achieve control of benzene emissions by at least 98 percent, and the carbon is replaced before breakthrough on a calculated set schedule as described in the Subpart FF Compliance Plan, Appendix XXIII of the Permit Application Reference 5.

Typically, proper tank pressure will be maintained via tank "venting" through the carbon adsorber. However, should unacceptably high pressure build up in the tanks, it would be released through the three-inch diameter pressure relief valves with vacuum breaker installed on each tank. All the valves are set at eight ounces for pressure relief and at six ounces to break the vacuum. The pressure relief valves are not connected to a carbon adsorber and release directly to the air.

An overflow nozzle is installed on each tank, and the overflow lines are routed back to the recycle tank, T-9. High-level alarms for carbon levels are present on each of the tanks. The high-level alarm is used to alert operators to cease flow of spent carbon slurry to the tank.

The slurry storage tank system, including any valves and piping associated with these tank systems, are visually inspected daily by facility personnel for leaks, cracks, and external corrosion. The overfill protection systems, valve positions, and level monitoring systems are also visually inspected daily for proper operation. The facility operator also checks the tanks for markings indicating weathering, proper identification of tank contents, and signs of corrosion and pitting on external tank walls.

Release History

No evidence of a release from the tank system was observed during both VSIs, and the tanks were in good condition. Based on a review of inspection logs and file material during both VSIs, there is no known record or report of past release from the tank system. However, a review of the facility's carbon replacement logs revealed several instances historically, in which the carbon in WS-1 was not replaced within specified time periods [see WS-1 for details].

Remedial Actions

Documentation was found in the facility records that, subsequent to the February 1994 tank assessment, the facility operator has addressed the recommendation to install eight one-inch diameter bolts on the skirt supports of the tanks. Inspection of these tanks during both VSIs confirmed that the bolts were in place.

Migration Pathways

(1) Soil to Groundwater Release Potential

The potential for release from these units to the soil or groundwater is low due to the good condition of the tanks, daily inspection of the tanks, and the bermed secondary containment provided underneath the tanks.

(2) Surface Water Release Potential

The nearest surface water is greater than two miles away. The potential for release from these units to the surface water is low due to the good condition of the tanks, daily inspections of the tank systems, and the bermed secondary containment provided around the tanks.

(3) Air Release Potential

The potential for release from these units to the air is low due to the good condition of the tanks and daily inspection of the tanks. In addition, the tanks vent to carbon adsorber WS-1 to control emissions from the tank. The carbon in the WS-1 canister is replaced before breakthrough. It was determined through engineering calculations that the carbon in WS-1 needs to be replaced every 7.88 days at a maximum as described in the Subpart FF Compliance Plan, Appendix XXIII of Permit Application Reference 5. The facility operator visually inspects WS-1 for leaks and proper operation on a daily basis.

6.1.11 HWMU 14 (Previously designated as SWMU 14) RF-1 Furnace Feed System

HWMU 14 - RF-1 Furnace Feed System (RF-1 Feed Tank T-8, Dewatering Screw, and Weigh Belt Conveyor)

Unit Description

The furnace feed system is located in the RF-1 structures in the central process area of the facility. The RF-1 furnace feed system consists of the feed tank T-8 (capacity of 905 gallons), a dewatering screw, and a weigh belt conveyor. The furnace feed system for RF-1 was cleaned and has not been operated since RF-1 was shut down in 1996.

The materials of construction of this unit are presented in Table 1 listing the units above.

Status and Waste Managed

The feed tank to the reactivation furnace RF-1 (T-8) was new when it was installed. T-8 was operated from 1992 until 1996, when RF-1 was shut down.

Hazardous and spent carbon was managed in this unit. The list of hazardous constituents that may adsorbed to the spent carbon is very extensive and may include, but is not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

Tank T-8 was located within a bermed concrete pad, which was visually inspected daily for cracks, surface erosion, and signs of leakage to determine whether any liquids had accumulated.

According to facility personnel, the integrity of Tank T-8 was tested upon installation. The pipe from T-8 was vertical and contained a full-open/full-closed valve, which controlled the flow of carbon slurry to the dewatering screw. Waste feed cut-off systems were used to stop the feed of spent carbon into the reactivation furnace; these systems were visually inspected daily.

Tank T-8 was also attached to a carbon adsorber for emissions control when RF-1 was operating, but it was removed when RF-1 was shut down in 1996. The carbon adsorber was designed to

achieve control of benzene emissions by at least 98 percent, and the carbon was replaced before breakthrough.

Release History

In October 1993, during an EPA inspection, RF-1 was observed to fail to operate in a way that minimizes the possibility of a release of hazardous constituents/pollutants as evidenced by fugitive emissions observed coming from the top of the dewatering screw. The facility's inspection logs also indicated vapor emissions from above the dewatering screw on August 3, 1993. It is not known what, if any, corrective action occurred for the fugitive emissions for the dewatering screw for RF-1.

No evidence of a release from this SWMU was observed during 2003 VSI or during the 2014 VSI. None was expected since this unit has not been used since 1996.

Remedial Actions

It is not known what, if any, corrective action occurred for the fugitive emissions for the dewatering screw for RF-1 in October 1993. A fan was installed to the RF-2 dewatering screw in 1996 to add additional protection against potential releases of organic vapors. The fan routes gases and vapors into the afterburner rather than to the atmosphere. This helped prevent any future incidents similar to the RF-1 incident that happened in October 1993.

Migration Pathways

(1) Soil to Groundwater Release Potential

The potential is low for a release to the soil or groundwater from this unit due to the bermed concrete pad surrounding the unit.

(2) Surface Water Release Potential

The release potential from this unit to surface water was low due to the bermed concrete pad provided underneath the unit and the distance to the nearest surface water, which is greater than two miles.

(3) Air Release Potential

There is no current release potential to air from this unit since it has not been operated since 1996 and since it was cleaned. Past releases to the air from this unit occurred when fugitive emissions were released from the dewatering screw. The past release potential from Tank T-8 was low due to the controls that were in place to minimize fugitive emissions except for the incident that occurred in 1993 as was described above.

6.1.12 HWMU 15 (Previously designated as SWMU 15) RF-2 Furnace Feed System

<u>HWMU 15</u> - RF-2 Furnace Feed System (RF-2 Feed Tank T-18, Dewatering Screw, and Weigh Belt Conveyor)

Unit Descriptions

The furnace feed system is located in the RF-2 structure in the central process area of the facility. The RF-2 furnace feed system consists of the feed tank T-18 (capacity of 5,000 gallons), a dewatering screw, and a weigh belt conveyor, and it is currently active. The RF-2 furnace feed system feeds the carbon slurry to the RF-2 reactivation furnace. Details on the operation of this unit are given below.

Prior to introduction into the reactivation furnace, the water-carbon slurry is fed from the feed tank, T-18, via a pipe system to a dewatering screw at the top of RF-2 where the carbon is dewatered. The water from the dewatering screw is routed to the recycle water tank T-9, where it is then recycled through the spent carbon slurry and recycled water transport system. The dewatered spent carbon is then fed into the top hearth of the reactivation furnace by a weigh belt conveyor.

The materials of construction of this unit is presented in Table 1 listing the units above.

Status and Waste Managed

The feed tank, T-18, was new when it was installed. The furnace feed system to RF-2 has been in operation since July 1996 and is still active. As a component of the spent carbon handling system, the furnace feed system operate under RCRA interim status and are subject to the RCRA permit decision.

Hazardous spent carbon is managed in this unit. The list of hazardous constituents that may adsorb to the spent carbon is very extensive and may include, but is not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

Tank T-18 is located within a bermed concrete pad, which is visually inspected daily for cracks, surface erosion, and signs of leakage to determine whether any liquids have accumulated.

According to facility personnel, the integrity of this tank was tested upon installation. Tank T-18 was replaced with a double walled tank in 2006 as a result of the Consent Agreement and Final Order dated June 30, 2006. The pipe from T-18 is vertical and contains a full-open/full-closed valve, which controls the flow of carbon slurry to the dewatering screw. Waste feed cut-off systems are used to stop the feed of spent carbon into the reactivation furnace; these systems are visually inspected daily.

Carbon adsorber WS-3 is attached to Tank T-18 to control volatile emissions. Air displaced from Tank T-18 passes through WS-3 prior to being vented to the atmosphere. WS-3 is designed to achieve control of benzene emissions by at least 98 percent, and the carbon is replaced on a

pre-calculated interval (38 days maximum) before breakthrough. Please see Permit Application Reference 5 and Appendix XXIII, for more details.

A fan was installed to the dewatering screw in March 1999 to add additional protection against potential releases of organic vapors. The fan routes gases and vapors into the afterburner rather than to the atmosphere. This helped prevent any future incidents similar to the RF-1 incident that happened in October 1993.

Release History

During an EPA inspection in December 1998, a shallow pan containing residual drip material was observed on one level of the reactivation furnace structure. The facility representative stated the residue was from a valve and had accumulated over a period of weeks. The pan was used to prevent the material from dripping on workers below, as the material is possibly caustic. The inspector informed the facility representative that if this was hazardous waste, it could be considered satellite accumulation. No pan was present during both VSIs.

No evidence of a release from this unit was observed during both VSIs.

Remedial Actions

In March of 1999, equipment was ordered to vent potential emissions from the dewatering screw to the afterburner to prevent further fugitive emissions from the dewatering screw for RF-2. A review of the facility records during the 2003 VSI verified that a new fan had been ordered, received, and installed to vent emissions to the afterburner.

Migration Pathways

(1) Soil to Groundwater Release Potential

The potential is low for a release to the soil or groundwater from this unit due to the unit being a double walled tank.

(2) Surface Water Release Potential

The release potential from this unit to surface water is low due to the unit being double walled and the distance to the nearest surface water is greater than two miles.

(3) Air Release Potential

The release potential for this unit is low because controls are in place to minimize fugitive emissions. The fugitive emissions from the dewatering screw are now routed to the afterburner. Also Tank T-18 vents to carbon adsorber WS-3 before it vents to the atmosphere.

6.1.13 <u>HWMU 16 (Previously designated as SWMU 27): Wastewater Conveyance</u> Piping to Wastewater Treatment Tank

Unit Description

The conveyance piping system is located east of the RF-2 structure. The conveyance piping is made of polyvinyl chloride (PVC). Contaminated process water (slurry water/motive water), and other wastewaters are piped to the wastewater treatment tank, Tank T-11. The pipes are above ground. The materials of construction of the piping are presented above in Tables 1 listing the units above.

Status and Waste Managed

The conveyance piping system is located east of the RF-2 structure. The conveyance piping is made of polyvinyl chloride (PVC). Contaminated process water (slurry water/motive water), and other wastewaters are piped to the wastewater treatment tank, Tank T-11. The pipes are above ground. The list of hazardous constituents that may be adsorbed to the spent carbon, and thus may be in the wastewaters managed in this unit, is very extensive and may include, but is not limited to: VOCs, PAHs, phthalates, amines, pesticides and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

This unit is located on a bermed concrete pad. The facility routinely inspects the piping system for any corrosion, leakage, cracking, or metal fatigue. Any leaks from the piping system would be captured within the bermed concrete pad area and flow to grated trenches and sumps where water or spills are pumped to the recycle water tank, T-9.

Release History

A review of the facility records during both VSIs revealed no records of any releases from this conveyance piping system. No release from the conveyance piping system to the wastewater treatment tank was observed during both VSIs.

Remedial Actions

There is no record of remedial action on the conveyance piping system.

Migration Pathways

(1) Soil to Groundwater Release Potential

There is low potential of a release from this unit to the soil and groundwater since routine inspections of the system are performed, and the unit is located within a bermed concrete pad.

(2) Surface Water Release Potential

The distance to the nearest surface water is greater than two miles. There is low potential of release to the surface water from this unit since routine inspections of the system are performed, and the unit is located within bermed concrete pads.

(3) Air Release Potential

The air release potential is low because the unit is a closed-loop system that is inspected routinely for integrity to ensure that there are no leaks.

6.1.14 <u>HWMU 17 (Previously designated as SWMU 22): Spent Carbon Storage</u> Warehouse Barrel Washer

Unit Description

The barrel washer is located in the Spent Carbon Storage Warehouse next to hopper H-2. The barrel washer is a rack used to support an empty container such as a drum or barrel, the contents of which has already been unloaded into hopper H-2. Clean water is used to rinse residual spent carbon or contamination from the container. The rinse water is flushed with clean wash-down water and drains to a nearby grated trench, which flows to the sump system. The rinse water is then pumped from the sump to the recycle water Tank, T-9. The materials of construction of this unit are presented in Table 1 listing the units above.

Status and Waste Managed

The use of this unit began in 1998, and it is currently active. As a component of the spent carbon handling system, this unit is operating under RCRA interim status, and is subject to RCRA permitting.

Any of the hazardous constituents found in the spent carbon may be present in the rinse water after cleaning out the empty containers at the barrel washer. These may include, but are not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5 (see Appendix N).

Release Controls

The barrel washer is located within the Spent Carbon Storage Warehouse containment (the concrete floor), which is surrounded by a berm and drains to the grated trenches and sump.

Release History

There is no record of a release to the environment from the barrel washer area within the Spent Carbon Storage Warehouse. Residual rinse water was observed during the 2003 VSI around the barrel washer from a recent washout of barrels. This residual rinse water was within the containment area for the Spent Carbon Storage Warehouse. There was no residual rinse water observed during the 2014 VSI.

Remedial Actions

There is no record of remedial actions performed at this unit.

Migration Pathways

(1) Soil to Groundwater Release Potential

There is low release potential from this unit to the soil and groundwater. The barrel washer is located indoors, and containment, trenches, and a sump are present to capture rinse water from the barrel washer

(2) Surface Water Release Potential

There is low release potential from this unit to the surface water since containment, trenches, and a sump present to capture rinse water from the barrel washer. The distance to the nearest surface water is greater than two miles.

(3) Air Release Potential

There is low release potential from this unit to the air. Low concentrations of hazardous constituents may be present in the empty drums that are rinsed out at the barrel washer. However, most of the VOCs and particulates from the drums are released during unloading of the containers at Hopper H-2 and are controlled with the H-2 hopper air pollution control equipment.

6.1.15 <u>HWMU 18</u> (Previously designated as <u>SWMU 32</u>): Carbon Adsorber PV-50 or PV-1000. This unit doesn't exist anymore.

Unit Description

The carbon adsorber PV50 was part of the process wastewater treatment system with piping to Tank T-11. The canister was located adjacent to Tank T-12, the old motive water and rainwater collection tank which is no longer in use. The unit was used periodically to filter recycle/motive water from tank T-12 before discharging to Tank T-11 to the POTW. This unit doesn't exist anymore.

According to facility representatives, the installation of this unit was not a regulatory requirement for compliance with the CAA or RCRA. It was installed as an additional measure of treatment for recycle water. The designed control of contaminants (% removal of incoming contaminants) was not available from facility reports. The material of construction of this unit is presented in Table 1 listing the units above.

Status and Waste Managed

The list of hazardous constituents that were filtered through the carbon adsorber was very extensive and may have included, but was not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

According to the facility, the carbon in the carbon adsorber canister was changed out or sometimes a new carbon adsorber canister was taken out of inventory for replacement to prevent breakthrough. Replacement logs were kept to verify replacement. PV50 was located on a concrete pad surrounded by a berm, and grated trenches and sumps provide for capture of any spills. The unit was sealed and kept closed except during change-out of carbon.

Release History

A review of the carbon replacement logs revealed no documentation of a breach in the container, visible leakage, or corrosion of any carbon canister.

There are ongoing low emissions of benzene from this unit of an estimated two percent of the benzene entering the filter, this is based on the 98% efficiency concept. There was no other record of any release from this unit. Staining on the exterior of the canister was observed during the 2003 VSI; further visual inspection indicated that leaking from the top of the canister was apparent.

Remedial Actions

A review of the records revealed no remedial actions at the carbon adsorber PV50.

Migration Pathways

(1) Soil to Groundwater Release Potential

There was low release potential from this unit to the soil or groundwater. The unit was located on a concrete pad surrounded by a berm. Any releases that might have occurred when this unit was in operation, such as the leak observed from the canister during the 2003 VSI, would have been contained in the bermed concrete pad. In addition, the unit was sealed, closed, and only opened for change-out prior to breakthrough.

(2) Surface Water Release Potential

There was low release potential to the surface water from this unit, since the closest surface water was greater than two miles away. Additionally, the carbon adsorber canister was located within the bermed area and was sealed closed except for change-out of carbon before breakthrough.

(3) Air Release Potential

There could have been ongoing low levels of benzene (and possibly other organic constituents) released from this unit to the air. If carbon change-outs were performed on

schedule, there could have been low release potential to air from this unit. This could have been higher if the change-outs were not done on schedule.

6.1.16 HWMU 19 (Previously designated as SWMU 29): Carbon Adsorber WS-1

Unit Description

Carbon adsorber canister WS-1 is located beside the spent carbon storage tanks, east of the warehouse. The spent carbon storage tanks (T-1, T-2, T-5, and T-6) and the recycle water tank (T-9) vent to the WS-1 adsorber. Air vents through the carbon adsorber, is filtered and then released to the outside air.

WS-1 contains approximately 4,000 lbs. of activated carbon and is designed to achieve control of benzene emissions by at least 98 percent. Emissions calculations supporting the design of WS-1 are contained in the facility's Benzene NESHAPs Subpart FF Compliance Plan (See Appendix XXIII of Part B Application Reference 5). The capacity and material of construction of this unit are presented in Table 1 listing the units above.

Status and Waste Managed

WS-1 has been in operation since 1992, and it is currently active. The carbon canister subject to both RCRA and CAA. The list of hazardous constituents that may be filtered through the carbon adsorber is very extensive and may include, but is not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

This adsorber is changed out approximately every 7.88 days that the unit is in use at a maximum or more frequently (as described in the Table in Section 4.5 of Appendix XXIII of Permit Application Reference 5) to assure breakthrough does not occur. The spent carbon from WS-1 is unloaded into hopper H-1 for treatment in the reactivation furnace. Replacement logs are kept to verify replacement of spent carbon. WS-1 is located on a concrete pad surrounded by a berm, and grated trenches and sumps provide for capture of any spills. The unit is sealed and kept closed except for change-out of carbon.

Release History

During the 2003 VSI, a review was conducted of the carbon canister replacement log. This log is kept by the facility to ensure carbon replacement within specified time periods and to document any breach in the container, visible leakage, or corrosion. The review of the carbon replacement log revealed that the carbon unit (WS-1) was changed out on March 15, 2000, two days after the required date of March 13, 2000. Also, from July 9, 1996 to August 22, 1996, WS-1 was operated 13 days beyond the change-out period. No documentation of a breach in a canister, or visible leakage, or corrosion was observed in the logs from 1995 through 2000. In the 2014 VSI file review of the past 2 years of records, this was not repeated.

The facility did periodic monitoring of the WS-1 adsorber vent from June 2011 till August 2013 prior to the carbon change-outs. The logs are attached in Appendix P. The results show that the levels were below the 500 ppm above background with the highest level recorded at 223 ppm. As per the logs, change-outs take place every 2-3 days which is more frequently than the 7.88 days required by the engineering calculations.

A review of quarterly visual inspection records for the period of 1995 to 2001 during the VSI, revealed that in 1996, a cracked hose was identified at the top of the WS-1 carbon canister. Records indicate that the hose was replaced on February 1, 1996. The delays in carbon change-out and the cracked hose may have resulted in releases of unfiltered air from the tanks and carbon filter.

There are ongoing low emissions of benzene (and possibly other organic constituents) from this unit of an estimated two percent of the benzene entering the filter. There is no other record of any release from this unit. No evidence of release was observed during either VSIs at this unit.

Remedial Actions

The only documented remedial actions for WS-1 were that the spent carbon in the canister was changed out on the day of discovery of being past due for change-out, and the cracked hose was replaced.

Migration Pathways

(1) Soil to Groundwater Release Potential

There is low release potential from this unit to the soil or groundwater. The unit is located on a containment pad surrounded by a berm. In addition, the unit is sealed, closed, and only opened for change-out prior to breakthrough.

(2) Surface Water Release Potential

There is low release potential to surface water since the nearest surface water is greater than two miles away. Additionally, the carbon adsorber canister is located within secondary containment and is sealed closed except for change-out of carbon before breakthrough.

(3) Air Release Potential

Since the canister performs at a 98% efficiency, there could potentially have been ongoing low levels of benzene (and possibly other organic constituents) released from this unit to the air. If carbon change-outs are performed on schedule (before 7.88 days have passed), there would be low release potential to air from this unit. This could be higher if the carbon from the unit is not changed-out on schedule.

The 2003 VSI file review showed that, in at least two incidents, change-out did not occur on schedule. In the 2014 VSI file review of the past 2 years of records, this was not repeated.

The facility did periodic monitoring of the WS-1 adsorber vent from June 2011 till August 2013 prior to the carbon change-outs. The logs are attached in Appendix P. The results show that the levels were below the 500 ppm above background with the highest level recorded at 223 ppm. Most other results were much lower. The logs showed that change-outs normally take place every 2-3 days which is more frequently than the 7.88 days required by the engineering calculations.

6.1.17 HWMU 20 (Previously designated as SWMU 30): Carbon Adsorber WS-2

Unit Description

The WS-2 carbon adsorber canister is located east of the warehouse and on the process area bermed concrete pad. WS-2 controls VOC emissions from unloading hoppers H-1 and H-2. Until 1996, it also controlled VOC emissions from Tank T-8, the former feed tank to RF-1. The canister filters air collected from above the hoppers. This air flows through the carbon adsorber, is filtered, and then is released to the outside air.

WS-2 contains approximately 5,000 lbs. of activated carbon and is designed to achieve control of benzene emissions by at least 98 percent. The inlet concentration is 80 ppmv with a maximum flow rate of 2500 cfm. The engineering calculations are included in the facility's Benzene NESHAPs Subpart FF Compliance Plan (See Appendix XXIII of Part B Application Reference 5). The carbon adsorber is designed to achieve benzene control efficiency of at least 98 percent. The capacity and material of construction of this unit are presented in Table 1 listing the units above.

Status and Waste Managed

WS-2 began operating in 1992, and it is currently active. From 1992 until present, the unit has been used to control VOC emissions from the spent carbon unloaded into hoppers H-1 and H-2. From 1992 until 1996, it also controlled VOC emissions from Tank T-8. The carbon canister is subject to both RCRA and CAA.

The list of hazardous constituents that may be filtered through the carbon adsorber is very extensive and may include, but is not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

The carbon in the carbon adsorption canister is scheduled to be replaced before breakthrough as part of the facility's operation and maintenance procedures. The maximum number of days (100) before the carbon is replaced in the canister was determined by engineering calculations. The spent carbon from WS-2 is unloaded into hopper H-1 for treatment in the reactivation furnace. Replacement logs are kept to verify replacement of spent carbon. WS-2 is located on a containment pad surrounded by a berm, and grated trenches and sumps provide for capture of any spills. The unit is sealed and kept closed except for change-out of carbon.

Since the canister performs at a 98% efficiency, potentially, there could be ongoing low levels of benzene (and possibly other organic constituents) released from this unit to the air. If carbon change-outs are performed on schedule (before 100 days have passed), there would be low release potential to air from this unit.

The 2003 VSI file review showed that, in at least two incidents, change-out was not done on schedule. In the 2014 VSI file review of the past 2 years of records, this was not repeated. In addition, the facility did periodic monitoring of the WS-2 adsorber vent from July 2011 to June 2013 prior to the carbon change-outs. The logs are attached in Appendix P. The results show that the levels were below the 500 ppm background threshold with the highest level recorded at less than 2 ppm. The logs showed that change-outs normally take place before 90 days which is more frequent than the 100 days required by the engineering calculations.

Release History

Daily inspection records reviewed during the VSI revealed that on three occasions carbon adsorption canister WS-2 was not hooked to the hoppers (on September 21, 2000; on December 18, 2000; and on March 9, 2001). The facility records did not indicate how long the hoppers were unhooked during these incidents or whether unloading occurred during this time. However, according to facility personnel, the hoppers were likely unhooked for 24 hours or less at each of these incidents, since daily inspections are conducted and work orders are written upon discovery of a problem.

The facility did periodic monitoring of the WS-2 adsorber vent from July 2011 till June 2013 prior to the carbon change-outs. The logs are attached in Appendix P. The results show that the levels were below the 500 ppm above background with the highest level recorded at less than 2 ppm. As per the logs, change-outs take place every 91 days at the most which is more frequent than the 100 days required by the engineering calculations.

Since the canister performs at a 98% efficiency, potentially, there could have been ongoing low levels of benzene (and possibly other organic constituents) released from this unit to the air. If carbon change-outs are performed on schedule (before 100 days have passed), there would be low release potential to air from this unit. This could be higher if the change-outs are not done on schedule.

Remedial Actions

A review of the records revealed no remedial actions at WS-2. The facility logs do not indicate whether the canister was promptly re-hooked up to the hoppers on the dates noted above. The facility did periodic monitoring of the WS-2 adsorber vent from July 2011 to June 2013 prior to the carbon change-outs. The logs are attached in Appendix P. The results show that the levels were below the 500 ppm background threshold with the highest level recorded at less than 2 ppm. As per the logs, change-outs take place every 91 days at the most which is more frequent than the 100 days required by the engineering calculations.

Migration Pathways

(1) Soil to Groundwater Release Potential

There is low release potential from this unit to the soil or groundwater. The unit is located on a concrete pad surrounded by a berm. In addition, the unit is sealed, closed, and only opened for change-out prior to breakthrough.

(2) Surface Water Release Potential

There is low release potential to surface water since the closest surface water body is greater than two miles away. Additionally, the carbon adsorber canister is located within a concrete pad surrounded by a berm and is sealed closed except for change-out of carbon before breakthrough.

(3) Air Release Potential

Since the canister performs at a 98% efficiency, potentially, there could have been ongoing low levels of benzene (and possibly other organic constituents) released from this unit to the air. If carbon change-outs are performed on schedule (before 100 days have passed), there would be low release potential to air from this unit. This could be higher if the change-outs are not done on schedule.

The 2003 VSI file review showed that, in at least two incidents, change-out was not done on schedule. In the 2014 VSI file review of the past 2 years of records, this was not repeated. In addition, the facility did periodic monitoring of the WS-2 adsorber vent from June 2011 to August 2013 prior to the carbon change-outs. The logs are attached in Appendix P. The results show that the levels were below the 500 ppm background threshold with the highest level recorded at less than 2 ppm. Most other results were much lower. The logs showed that change-outs normally take place every 91 days which is more frequent than the 100 days required by the engineering calculations.

There could have been ongoing low levels of benzene (and possibly other organic constituents) released from this unit to the air, since the canister performs at a 98% efficiency. If carbon change-outs are performed on schedule, there would be low release potential to air from this unit. This could be higher if the change-outs are not done on schedule.

There are ongoing low levels of benzene (and possibly other organic constituents) released from this unit to the air. If carbon change-outs are performed on schedule (every 100 days at maximum), there is low release potential to air from this unit. If change-out is not done on schedule, there would be a higher potential for release to air. The 2003 VSI file review shows that WS-2 was not hooked up to the hoppers in several incidents. Releases of VOCs may have occurred to the air if carbon was unloaded to the hopper during these occasions. In the 2014 VSI file review of the past 2 years of records, this was not repeated.

6.1.18 HWMU 21 (Previously designated as SWMU 31): Carbon Adsorber WS-3

Unit Description

Carbon adsorber unit WS-3 is located on a bermed concrete pad beside the RF-2 structure. WS-3 is used to control VOC emissions from Tank T-18, the feed tank for carbon slurry to RF-2. The tank is vented to the adsorber. The air flows through the carbon adsorber, is filtered, and then released to the outside air.

The WS-3 unit contains approximately 1,000 lbs. of activated carbon and is designed to achieve control of benzene emissions at least 98 percent. Under worst-case conditions, it is expected that the maximum daily inlet flow rate to adsorber WS-3 is approximately 5.9 cubic feet per minute with a maximum benzene concentration of 4,589 ppmv. See the Subpart FF Compliance Plan that can be found in Appendix XXIII of Part B Application Reference 5. The material of construction of this unit is presented in Table 1 listing the units above.

Status and Waste Managed

WS-3 began operating in 1996, and it is currently active. The carbon canister is not RCRA-regulated, but it is subject to the applicable Benzene NESHAP Subpart FF requirement.

The list of hazardous constituents that may be filtered through the carbon adsorber is very extensive and may include, but is not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5

Release Controls

This adsorber is changed out approximately every 38 days to assure breakthrough has not occurred. Replacement logs are kept to verify replacement of spent carbon. WS-3 is located on a concrete pad surrounded by a berm, and grated trenches and sumps provide for capture of any spills. The unit is sealed and kept closed except for change-out of carbon.

Release History

A review of the Carbon Canister Replacement Logs during the VSI revealed that WS-3 was changed out on December 3, 1997, which was on the 40th day instead of the 38th day as required by the facility's Subpart FF plan (Appendix XXIII of Permit Application Reference 5.) Records indicate that the plant was down for maintenance for 10 days during this period. Therefore, although the change-out period was exceeded, this calculation is based on full production, and minimal emissions would have occurred due to the shutdown. Further, records reviewed during the 2003 VSI revealed that WS-3 was changed out on January 12, 1998, which was the 40th day instead of the 38th day as required by the facility's Subpart FF plan (Appendix XXIII of Permit Application Reference 5.) The plant was running at less than 95 percent of capacity at that time, so the calculations on which the change-out time is based would have allowed for the extension in time with no emissions. In the 2014 VSI file review of the previous 2 years of records, the change-out period for the carbon canisters was within the allotted temporal range.

Since the canister performs at a 98% efficiency, potentially, there could be ongoing low levels of benzene (and possibly other organic constituents) released from this unit to the air. If carbon

change-outs are performed on schedule (before 38 days have passed), there would be low release potential to air from this unit.

Remedial Actions

The spent carbon was changed out on the day of discovery of being past due or on the day it was due because of plant shutdown.

Migration Pathways

(1) Soil to Groundwater Release Potential

The potential to release from this unit to the soil or groundwater is low. The unit is located on a bermed concrete pad. In addition, the unit is sealed, closed, and only opened for change-out prior to breakthrough.

(2) Surface Water Release Potential

The potential to release to the surface water is low since the surface water is greater than two miles away. Additionally, the carbon adsorber canister is located within bermed concrete pad and is sealed closed except for change-out of carbon before breakthrough.

(3) Air Release Potential

There are ongoing low levels of benzene (and possibly other organic constituents) released from this unit to the air. If carbon change-outs are performed on schedule (every 38 days), the potential to release to air from this unit is low. If change-out is not done on schedule, there would be a higher potential for release to air.

6.1.19 <u>HWMU 22 (Previously designated as SWMU 33): Slurry Transfer Inclined Plate</u> Settler Tank. This unit was removed and doesn't exist anymore.

Unit Description

This tank was used to remove suspended solids from the scrubber water. It was located in the process area near the venturi scrubber and Tank T-11. The slurry transfer inclined plate settler tank was purchased new and installed in 1992. It was cleaned and removed two to three years later (around 1994 or 1995) because it never worked as advertised, according to facility representatives. The unit was a part of a wastewater treatment system and therefore was exempt from RCRA permitting requirements, with the exception of the fugitive emission requirements in Subpart CC of RCRA. The material of construction of the slurry transfer inclined plate settler tank is presented in Table 1 listing the units above.

Status and Waste Managed

The slurry transfer inclined plate settler tank was purchased new and installed in 1992. It was cleaned and removed two to three years later (around 1994 or 1995) because it never worked as

advertised, according to facility representatives. The unit was a part of a wastewater treatment system and therefore was exempt from RCRA permitting requirements, with the exception of the fugitive emission requirements in Subpart CC of RCRA.

Any contaminants present in the combustion gases in the APCE may also be transferred to the scrubber water blowdown managed in this unit. Although the combustion process is expected to destroy much of the organic contaminants originally on the spent carbon, the list of hazardous constituents adsorbed to the spent carbon and transferred to wastewater managed in this unit may include, but is not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5. Products of incomplete combustion could also be in the gases coming into contact with the scrubber water.

Release Controls

This tank was purchased new, and the equipment was monitored daily. It was located on a bermed concrete pad, and grated trenches and sumps were provided for capture of spills or leaks.

Release History

There is no record of any release from this unit.

Remedial Actions

There is no record of any remedial action at this unit.

Migration Pathways

(1) Soil to Groundwater Release Potential

There was low release potential to the soil and groundwater. The unit was located on a bermed concrete pad, and grated trenches and sumps provided for capture of any spills or leaks.

(2) Surface Water Release Potential

There was low release potential to the surface water. The unit was a closed system located on a bermed concrete pad, and surface water is greater than two miles away.

(3) Air Release Potential

There was low release potential to air since the unit was a closed system.

6.1.20 HWMU 23 (Previously designated as SWMU 34): Scrubber Recycle Settler Tank T-17. This unit has been removed and doesn't exist anymore.

Unit Description

This tank was the scrubber recirculation tank used on RF-1 as part of the wastewater treatment

system. The scrubber recycle settler tank was installed new in 1992. It was cleaned and removed four years later in 1996 when RF-1 was shutdown. This unit was part of a wastewater treatment unit. According to facility representatives, this unit never worked as advertised. The material of construction of the scrubber recycle settler tank is presented in Table 1 listing the units above.

Status and Waste Managed

The scrubber recycle settler tank was installed new in 1992. It was cleaned and removed four years later in 1996 when RF-1 was shutdown. This unit was part of a wastewater treatment unit and therefore was exempt from RCRA regulation, with the exception of the fugitive emission requirements in the RCRA air emission control provisions at 40 CFR Part 264, Subpart CC.

Any contaminants present in the combustion gases in the APCE may also be transferred to the scrubber water blowdown that was managed in this tank. Although the combustion process is expected to destroy much of the organic contaminants originally on the spent carbon, the list of hazardous constituents adsorbed to the spent carbon and transferred to wastewater managed in this tank may have included, but was not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5. Products of incomplete combustion could also be in the gases coming into contact with the scrubber water.

Release Controls

This tank was purchased new, and the equipment was monitored daily. It was located on a bermed concrete pad, and grated trenches and sumps provide for capture of spills or leaks.

Release History

A review of the records revealed no releases from this unit.

Remedial Actions

A review of the records revealed no remedial actions for the scrubber recycle settler tank.

Migration Pathways

(1) Soil to Groundwater Release Potential

There was low release potential to the soil and groundwater. The unit was located on a bermed concrete pad, and grated trenches and sumps provide for capture of any spills or leaks.

(2) <u>Surface Water Release Potential</u>

There was low release potential to the surface water. The unit was located on a bermed concrete pad, and the distance to surface water is greater than two miles.

(3) Air Release Potential

There was low release potential to the air since the unit was a closed system.

6.1.21 <u>HWMU 24</u> (Previously designated as <u>SWMU 35</u>): Filter Press. This unit has been removed and doesn't exist anymore.

Unit Description

The filter press, formerly located near RF-1 in the Process Area, was used to remove suspended solids from liquids in the scrubber system for RF-1. The filter press was installed new in 1992. It was cleaned and removed two years later in 1994 since it never worked as advertised, according to facility representatives. This unit was part of a wastewater treatment unit. The material of construction of this unit is presented in Table 1 listing the units above.

Status and Waste Managed

The filter press was installed new in 1992. It was cleaned and removed two years later in 1994 since it never worked as advertised, according to facility representatives. This unit was part of a wastewater treatment unit and therefore was exempt from RCRA regulation, with the exception of the fugitive emission requirements in the RCRA air emission control provisions at 40 CFR Part 264, Subpart CC.

The filter cakes made by the filter press may have contained hazardous constituents from the spent carbon. Although the combustion process is expected to destroy much of the organic contaminants originally on the spent carbon, the list of hazardous constituents adsorbed to the spent carbon and transferred to wastewater managed in this unit may have included, but was not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5. Products of incomplete combustion could also be in the gases coming into contact with the scrubber water.

Release Controls

The filter press was new when installed. The equipment was monitored and inspected daily. It was located on a bermed concrete pad, and grated trenches and sumps provided for capture of spills or leaks.

Release History

There is no record of any releases from this unit.

Remedial Actions

There is no record of any remedial action for this unit.

Migration Pathways

(1) Soil to Groundwater Release Potential

There was low release potential to the soil and groundwater. The unit was located on a bermed concrete pad, and grated trenches and sumps provided for capture of any spills or leaks.

(2) Surface Water Release Potential

There was low release potential to the surface water. The surface water is greater than two miles away, and the unit was located on a bermed concrete pad.

(3) Air Release Potential

There was low release potential to the air. The filter press was a closed system.

6.1.22 HWMU 25: New Facility Discharge Piping System

Unit Description

This lift station was operated from 1992 until early 1996. The new piping was installed in 1996 to bypass the old lift station. The lift station and the old and new piping systems are part of the wastewater treatment system that discharges to the POTW and are exempt from RCRA regulation.

This new conveyance piping system bypasses the lift station to the Public Owned Treatment Works (POTW) which is the joint venture owned by CRIT and the city of Parker. The conveyance piping is made of polyvinyl chloride (PVC). The materials of construction of the piping are presented above in Table 1 listing the units above.

Status and Waste Managed

The piping system is part of the wastewater treatment system that bypasses the lift station and discharges to the POTW and is exempt from RCRA regulation. Changeover occurred in 1996 from the old piping system and the lift station to a new piping system, a gravity flow system, which did not require pumps.

The list of hazardous constituents that may be adsorbed to the spent carbon, and thus may be in the wastewaters managed in this unit, is very extensive and may include, but is not limited to: VOCs, PAHs, phthalates, amines, pesticides and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

Scrubber blowdown from RF-2 air pollution control equipment is treated in the wastewater treatment unit, prior to discharge to the POTW. The discharge to the POTW is continuously monitored for pH, total dissolved solids, flow, and temperature to ensure compliance with the discharge limitations found in the facility's current industrial wastewater discharge permit. Because the new piping is located underground, it has not been physically inspected. No

evidence of release, such as stained soil, was observed during the VSI. A review of file material during the VSI uncovered no indication of leaks from the new underground piping system.

Release History

On February 15, 1996, the facility experienced a spill from its new piping system and discharge line to the POTW. A contractor relocating the natural gas line to the facility inadvertently punctured the newly installed piping system to the POTW. Facility personnel immediately responded to the accident by shutting off all flow to the line and performing repairs and remediation.

A review of file materials during the VSI revealed that no release is known to have occurred from the new piping system, except when it was punctured in 1996, as described above. The volume of water discharged from the facility and the volume received by the POTW are monitored continuously. No discrepancies are known to have occurred that would indicate leaking pipes somewhere along the piping system to the POTW.

Remedial Actions

On February 15, 1996, the facility experienced a spill from its new piping system and discharge line to the POTW. A contractor relocating the natural gas line to the facility inadvertently punctured the newly installed piping system to the POTW. Facility personnel immediately responded to the accident by shutting off all flow to the line and performing repairs and remediation.

Following the incident, on February 15, 1996, the operator removed all wetted soil from the punctured new piping system and placed it in drums, and the punctured section of the piping system was replaced. A total of six drums of soil (3,681 lbs) that contacted discharged water were stored on site pending analytical results. The soil was sent for incineration at Aptus in Utah. The operator collected samples of residual soil at the spill sites. Based on analytical results of soil samples, the operator determined that there was no residual contamination of concern at the site

Migration Pathways

(1) Soil to Groundwater Release Potential

There is low potential of a release from this unit to the soil and groundwater since the amount of flow discharged to the POTW is continuously monitored at both ends and any discrepancies are investigated. This unit will be further investigated at the time of closure and any contamination found will be remediated.

(2) Surface Water Release Potential

There is low release potential from the new underground piping system directly to the surface water since the distance to the nearest surface water is greater than two miles.

(3) Air Release Potential

There is low release potential from the new piping system since it is also underground and is not in contact with the atmosphere.

6.2 SOLID WASTE MANAGEMENT UNITS (SWMUs)

A SWMU is defined as any discernable unit at which solid wastes have been placed at any time, irrespective of whether the unit was intended for the management of solid or hazardous waste. Such units include any area at a facility at which solid wastes have been routinely and systematically released. A discernible unit in this context includes the types of units typically identified with the RCRA regulatory program, including landfills, surface impoundments, land treatment units, waste piles, tanks, container storage areas, incinerators, injection wells, wastewater treatment units, waste recycling units, and other physical, chemical or biological treatment units. [61 Fed. Reg. 19,432, 19,442-19,443 (May 1, 1996).]

In addition, EPA has interpreted the SWMU term to apply to areas contaminated by "routine, systematic, and deliberate discharges" of hazardous waste or hazardous constituents from process areas (a product may become a waste if it is discarded or abandoned). Routine and systematic releases constitute, in effect, management of wastes; the area at which this activity has taken place can thus reasonably be considered a SWMU. In addition to identifying releases from SWMUs, the RFA also investigates evidence of spills and/or other releases to any area resulting from waste management activities, which may not fit the definition of a SWMU release. The term "deliberate" is included in the SWMU definition to exclude from consideration under corrective action one-time accidental spills that cannot be linked to a discernible SWMU. An example of this type of release would be an accidental spill from a truck at a RCRA facility.

TABLE 2 - SOLID WASTE MANAGEMENT UNIT IDENTIFICATION

| No. | SWMU
Type/Designation | Location | General Description | Date Unit
was First
Operated | Identification of
Wastes Managed
in Unit | Releases
from Unit |
|-----|---|---|---|--|---|---|
| 1 | Bermed containment area | East of Warehouse | Approx. 180' x 55'; concrete | August 1992 | Spent activated carbon. See Part A Application for list of applicable waste codes | None. Will
be further
investigated
at the time
of closure |
| 2 | Sump by H-1 | South of H-1 | 3'-4" square;
concrete | July 1996 | Spent activated carbon. See Part A Application for list of applicable waste codes | None. Will
be further
investigated
at the time
of closure |
| 3 | Sump by storage tank, T-9 | East of warehouse in between T-9 and RF-2 | 3'-4" square sump; U-drain 30' long x 16"wide; concrete | August 1992
to present | Spent activated carbon. See Part A Application for list of applicable waste codes | None. Will
be further
investigated
at the time
of closure |
| 4 | Recycled motive water storage tank, T-9 | East of warehouse on containment | 10,500 gal
316 series stainless steel | 1996 to
present | Spent activated carbon. See Part A Application for list of applicable waste codes | None. Will
be further
investigated
at the time
of closure |
| 5 | Rainwater and motive water storage tank, T-12 | East of warehouse on containment | 25,080 gal
Mild steel | 1992.
Removed
from service
in 2002. | Spent activated carbon. See Part A Application for list of applicable waste codes | None. Will
be further
investigated
at the time
of closure |

TABLE 2 - SOLID WASTE MANAGEMENT UNIT IDENTIFICATION

| No. | SWMU
Type/Designation | Location | General Description | Date Unit
was First
Operated | Identification of
Wastes Managed
in Unit | Releases
from Unit |
|-----|---|--|---|------------------------------------|---|---|
| 6 | Wastewater storage tank,
T–11 System | East of the warehouse and south of RF -2 | 10' Dia x 20' H; Approx
12,000 gal fiberglass | August
1992 to
present | Spent activated carbon. See Part A Application for list of applicable waste codes | None. Will
be further
investigated
at the time
of closure |
| 7 | Sump by cooling screw under Venturi scrubber tank | East of warehouse beside RF-2 | 3'-4" square; concrete | July 1996 to
present | Spent activated carbon. See Part A Application for list of applicable waste codes | None. Will
be further
investigated
at the time
of closure |
| 8 | RF–2 scrubber water equalization tank, T-19 | Under RF-2
Structure | Approx. 1000 gal
Fiberglass | July 1996 to
present | Spent activated carbon. See Part A Application for list of applicable waste codes | None. Will
be further
investigated
at the time
of closure |
| 9 | Hazardous waste debris
bin | North of
warehouse on
asphalt pavement | 20 - 40 cubic yards
Mild steel | August 1992
to present | Spent activated carbon. See Part A Application for list of applicable waste codes | None. Will
be further
investigated
at the time
of closure |
| 10 | Spent carbon storage
warehouse grated trenches
and sump | Warehouse in containment area | Trench 3 ft, 4 in square sump U-drain 50 ft long, 16 in wide; cross drain sections 40 ft long 16 in wide Concrete | 1992 to
present | Spent activated carbon. See Part A Application for list of applicable waste codes | None. Will
be further
investigated
at the time
of closure |
| 11 | Hopper concrete pad | Outside H-1
structure | Approx 60' x 44'; concrete | July 1996 | Spent activated carbon. See Part A Application for list of applicable waste codes | None. Will
be further
investigated
at the time
of closure |

TABLE 2 - SOLID WASTE MANAGEMENT UNIT IDENTIFICATION

| No. | SWMU
Type/Designation | Location | General Description | Date Unit
was First
Operated | Identification of
Wastes Managed
in Unit | Releases
from Unit |
|-----|--|---|---|------------------------------------|---|---|
| 12 | WWTP | Inside warehouse | Fiberglass, mild steel
modular water treatment
system. Separate
containment. | October 2003
to present | Spent activated carbon. See Part A Application for list of applicable waste codes | None. Will
be further
investigated
at the time
of closure |
| 13 | Wastewater lift station and piping system (old) | At the end of access road to plant. Old piping from Tank T-11 to the Lift Station | Approx. height 15 ft; outside diameter 5 ft Lift Station: mild steel/concrete/fiberglass Old piping system PVC. | 1992 to 1996 | Spent activated carbon. See Part A Application for list of applicable waste codes | None. Will
be further
investigated
at the time
of closure |
| 14 | Spent carbon unloading and transfer area asphalt pad | North area of facility | Approx. 44 ft by 80 ft | August 1996
to present | Spent activated carbon. See Part A Application for list of applicable waste codes | None. Will
be further
investigated
at the time
of closure |
| 15 | Satellite Accumulation
Area | North side of warehouse | ≤ 55 gallons (metal or plastic) | August 1992
to present | Various Debris | None. Will
be further
investigated
at the time
of closure |
| 16 | Satellite Accumulation
Area | South side of drum containment | ≤ 55 gallons (metal or plastic) | August 1992
to present | Various Debris | None. Will
be further
investigated
at the time
of closure |
| 17 | Satellite Accumulation
Area | East of Control
Room | ≤ 55 gallons (metal or plastic) | August 1992
to present | Various Debris | None. Will
be further
investigated
at the time
of closure |

TABLE 2 - SOLID WASTE MANAGEMENT UNIT IDENTIFICATION

| No. | SWMU
Type/Designation | Location | General Description | Date Unit
was First
Operated | Identification of
Wastes Managed
in Unit | Releases
from Unit |
|-----|--------------------------------|-------------------------------------|---------------------------------|------------------------------------|--|---|
| 18 | Satellite Accumulation
Area | Laboratory in
Admin Building | ≤ 55 gallons (metal or plastic) | August 1996
to present | Laboratory Debris
and laboratory
Testing | None. Will
be further
investigated
at the time
of closure |
| 19 | Satellite Accumulation
Area | Underneath Spent
Carbon Baghouse | ≤ 55 gallons (metal or plastic) | August 1992
to present | Spent Carbon Dust
from Baghouse | None. Will
be further
investigated
at the time
of closure |

6.2.1 <u>SWMU 1 (Previously designated as SWMU 23)</u>: <u>Bermed Concrete in Process Area</u> (This includes the Secondary Containment Under the Spent Carbon Slurry Storage Tanks)

Unit Description

This bermed concrete pad in the process area is located east of the spent carbon storage warehouse and underlies the process (spent carbon treatment) area. Within this area is the secondary containment for the spent carbon slurry tanks. This bermed concrete pad is a large concrete pad that provides containment for numerous units that contain, transfer and regenerate hazardous and non-hazardous waste carbon.

The materials of construction of this unit are presented in Table 2 listing the units above.

Status and Waste Managed

Use of this unit began in 1992, and it is currently active. The unit is operating under RCRA interim status and is subject to the RCRA permit decision.

Hazardous spent carbon slurry and wastewaters are managed in the units within this bermed concrete area. The hazardous constituents in the slurry and the wastewaters may include, but are not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

This unit is constructed of concrete and surrounded by a berm. Within this area is the secondary containment for the spent carbon slurry tanks. Inspections by EPA of the secondary containment found numerous cracks in the pad. Visual inspection during the VSI and a review of file material reveal that cracks have been repaired and sealed by filling them in with a polyresin, Sikadur 35[®] or equivalent material. The facility routinely inspects and repairs the area, if necessary, upon discovery of a problem. On June 19-20, 2001, January 24, 2002, August 29, 2002, March 6-7, 2003, and February 12, 2004, EPA inspectors, accompanied by personnel from the Colorado River Indian Tribe Environmental Health Office, conducted RCRA compliance evaluation inspections at the Facility. Based upon the findings made during the inspections, and additional information obtained subsequent to the inspections the EPA entered with the facility in a Consent Agreement and Final Order (CAFO) in June 2006 to expand the size of the secondary containment to contain 100 percent of the capacity of the largest tank within its boundary and designed to have sufficient excess capacity to contain run-on or infiltration. The facility affirmed EPA that they continue to ensure that the secondary containment is free of cracks or gaps. So the facility periodically repairs cracks in the concrete of the bermed containment area with Sikadur 35[®] or equivalent material.

Release History

There is no record of a release from this concrete area. No evidence of a release was observed

during both VSIs at this unit other than the cracks in the concrete which will be further investigated at the time of closure. Please see right column for AOC Table in Section 6.3 below which describes the sampling to be done at the time of closure. Please also see Appendices XV, XVI, & XVII in Permit Application Reference 5.

Remedial Actions

On June 19-20, 2001, January 24, 2002, August 29, 2002, March 6-7, 2003, and February 12, 2004, EPA inspectors, accompanied by personnel from the Colorado River Indian Tribe Environmental Health Office, conducted RCRA compliance evaluation inspections at the Facility. Based upon the findings made during the inspections, and additional information obtained subsequent to the inspections the EPA entered with the facility in a Consent Agreement and Final Order (CAFO) in June 2006 to expand the size of the secondary containment to contain 100 percent of the capacity of the largest tank within its boundary and designed to have sufficient excess capacity to contain run-on or infiltration. The facility must ensure that the secondary containment is free of cracks or gaps. So the facility periodically repairs cracks in the concrete of the bermed containment area with Sikadur 35® or equivalent material. The cracks in the concrete will be further investigated at the time of closure. Please see right column for AOC Table in Section 6.3 below which describes the sampling to be done at the time of closure. Please also see Appendices XV, XVI, & XVII in Permit Application Reference 5

Migration Pathways

(1) Soil and Groundwater Release Potential

There are grated trenches and sumps in the bermed concrete area to capture any spills and rainwater. This unit will be further investigated at the time of closure. Please see right column for AOC Table in Section 6.3 below which describes the sampling to be done at the time of closure. Please also see Appendices XV, XVI, & XVII in Permit Application Reference 5

(2) Surface Water Release Potential

The nearest surface water body is greater than two miles away. There is low release potential to surface water due to the design and construction of the pad and the routine inspections and repairs.

(3) Air Release Potential

The potential for release to the air is low because spills to the pad are immediately washed down upon discovery and water is pumped to the recycle tank T-9.

6.2.2 SWMU 2 (Previously designated as SWMU 24): Sump by Unloading Hopper H-1

Unit Description

The sump is located adjacent to the unloading hopper H-1. The sump collects water from activities such as washing trucks used to transport spent carbon slurry, and from the surrounding containment area. Metal-grated concrete trenches in the containment area collect the wash-down

water and rainwater that then drains into the in-ground, square concrete sump. A pump in the sump directs the water through piping to Tank T-9. The grated trenches and sump also serve to collect any spills in the area. The materials of construction of this unit are presented in Table 2 listing the units above.

Status and Waste Managed

The sump is currently operational. The startup date for the sump adjacent to hopper H-1 was in 1996 when construction of the unloading hopper was completed to serve the new reactivation furnace RF-2. Prior to 1996, the unloading hopper H-2, trenches, and sump inside the spent carbon storage warehouse served the reactivation furnace RF-1 until it was deactivated in 1996. As a component of the spent carbon handling system, this unit is operating under RCRA interim status and is subject to RCRA permitting.

Any of the hazardous constituents found in the spent carbon may be present in the wash-down water or any spill that drains into this sump. These may include, but are not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

The sump pump immediately pumps water that enters the sump via piping to the recycle water tank T-9. No cracks in the concrete sump were observed during both VSIs.

The integrity of the sump pump and concrete is ensured by routine inspections. Any cracks discovered in the concrete are promptly sealed with a polyresin, Sikadur-35® or equivalent. If any mechanical problem were to occur with the sump pump, repair would occur promptly upon discovery.

Release History

Review of file material during both VSIs revealed that there is no record of a release or overflow of this sump. No evidence of overflow at the sump was observed during both VSIs.

Remedial Actions

There is no record of remedial action for this unit.

Migration Pathways

(1) Soil to Groundwater Release Potential

There is low release potential to soil and groundwater from this unit. The sump is located within concrete pad area, the integrity of the concrete is monitored by routine inspections, and any observed cracks are sealed by the facility. No unsealed cracks were noted during both VSIs.

(2) Surface Water Release Potential

There is low release potential to surface water from this unit. The sump is located within a concrete pad area, and liquid collected in the sump is immediately directed via a sump pump and piping system to the recycle water tank, T-9. Also, surface water is greater than two miles away.

(3) <u>Air Release Potential</u>

There is low release potential to the air from this unit. Only very low concentrations of VOCs are expected in the liquids collected in this sump.

6.2.3 SWMU 3 (Previously designated as SWMU 25): Sump by Storage Tank T-9

Unit Description

The sump is located east of the spent carbon storage warehouse between Tank T-9 and RF-2. Metal-grated concrete trenches in the bermed concrete pad collect any spilled process water and rainwater that then drains into this in-ground, square concrete sump. A pump in the sump directs the water through piping to Tank T-9. The materials of construction of this unit are presented in Table 2 listing the units above.

Status and Waste Managed

The sump is currently operational. Use of the sump began in 1992 to serve the reactivation furnace RF-1. After RF-1 was shutdown and RF-2 was put in use the sump continues to be used to support RF-2 operations. As a component of the spent carbon handling system, this unit is operating under RCRA interim status, and is subject to RCRA permitting.

Any of the hazardous constituents described for concrete pad may be present in the liquids collected in this sump. These may include, but are not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals, as well as products of incomplete combustion. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

The sump is located within the bermed concrete pad. Any process water or rainwater that flows into the sump is immediately pumped by a sump pump to the recycle water tank T-9. No cracks in the sump were observed during both VSIs.

The integrity of the sump pump and concrete is ensured by routine inspections. Any cracks discovered in the concrete are promptly sealed with a polyresin, Sikadur-35® or equivalent. If any mechanical problem were to occur with the sump pump, repair would occur promptly upon discovery.

Release History

Review of file material during both VSIs revealed that there is no record of a release or overflow of this sump. No evidence of overflow from this sump was observed during both VSIs. During the 2003 VSI, a small amount of wash-down water was observed adjacent to the trench that leads to the sump. None were observed during the 2014 VSI.

Remedial Actions

There is no record of remedial action at this unit.

Migration Pathways

(1) Soil to Groundwater Release Potential

There is low release potential to soil and groundwater from this unit. The sump is located within a bermed concrete pad area, the integrity of the concrete is monitored by routine inspections, and any observed cracks are sealed by the facility. No unsealed cracks were noted during both VSIs.

(2) Surface Water Release Potential

There is low release potential to surface water from this unit. The sump is located within a bermed concrete pad area, and liquid collected in the sump is immediately directed via a sump pump and piping system to the recycle water tank, T-9. Also, surface water is greater than two miles away.

(3) Air Release Potential

There is low release potential to the air from this unit. Only very low concentrations of VOCs are expected in the liquids collected in this sump.

6.2.4 <u>SWMU 4 (Previously designated as SWMU 16)</u>: Recycled Motive Water Storage <u>Tank T-9</u>

Unit Description:

Tank T-9 is a water storage tank that stores motive water and water from several other sources. Tank T-9 is located east of the storage warehouse above a bermed concrete pad. The capacity of Tank T-9 is 10,500 gallons. The materials of construction of this unit are presented in Table 2 listing the units above.

Tank T-9 collects water from the following sources. Just prior to introduction into the reactivation process, the dewatering screw dewaters the spent carbon, and the motive water is returned to Tank T-9. Process water overflow from the process storage feed tanks is returned to T-9 via a closed loop piping. Rainwater that falls within the concrete pads, along with spills and wash-down, as noted for the sumps, may be pumped to Tank T-9.

Status and Wastes Managed

The start-up date for this unit was in 1992, and it remains active. The motive regulatory status was initially addressed in a 1993 facility inspection conducted by EPA. Additionally, in several

revised Part A applications, and in the Part B permit applications submitted to EPA Region 9, the operator stated its position regarding the regulatory status of this tank that it is not a regulated unit under RCRA. EPA agrees with this analysis.

The list of hazardous constituents that may be adsorbed to the spent carbon, and thus may be in the motive water stored in this tank, is very extensive and may include, but is not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

According to facility personnel, the integrity of Tank T-9 was tested upon installation. The tank is inspected daily by the operator. A bermed concrete pad is present under Tank T-9, and a grated trench and sump are adjacent to Tank T-9. The T-9 tank overflow controls consist of a level sensor monitored by computer. An alarm notifies the operator if the tank level needs attention.

The tank has a pressure relief valve, which is vented to a carbon adsorber. Carbon adsorber WS-1 controls VOC emissions, including potential benzene emissions, from Tank T-9. WS-1 is designed to achieve control of benzene emissions by at least 98 percent. The spent carbon is changed out before breakthrough based on engineering calculations. The facility did periodic monitoring of the WS-1 adsorber vent from June 2011 till August 2013 prior to the carbon change-outs. The logs are attached in Appendix P. The results show that the levels were below the 500 ppm above background with the highest level recorded at 223 ppm. Most other results were much lower. The logs showed that change-outs normally take place every 2-3 days which is more frequent than the 7.88 days required by the engineering calculations.

The excess water from Tank T-9 is treated in a wastewater treatment plant prior to discharge to the POTW. The discharge to the POTW is continuously monitored for pH, total dissolved solids, flow and temperature to ensure compliance with the discharge limitations found in the facility's industrial wastewater discharge permit.

Release History

In February 1994, the recycled water pump located next to Tank T-9 was found to be leaking at the packing, which seals the pump shaft. The leak in the potable water line used for cooling and flushing the seal gland was repaired.

During the VSI, a review of the facility's carbon replacement logs revealed several instances in which the carbon in WS-1 was not replaced within specified time periods. In the 2014 VSI file review of the past 2 years of records, this was not repeated.

The facility did periodic monitoring of the WS-1 adsorber vent from June 2011 till August 2013 prior to the carbon change-outs. The logs are attached in Appendix P. The results show that the levels were below the 500 ppm above background with the highest level recorded at 223 ppm.

As per the logs, change-outs take place every 2-3 days which is more frequent than the 7.88 days required by the engineering calculations. See WS-1 for more details.

No evidence of release was observed at this unit during both VSIs.

Remedial Actions

No remedial actions have occurred at this unit.

Migration Pathways

(1) Soil to Groundwater Release Potential

The potential for release from this tank to the soil or groundwater is low due to bermed concrete pad, grated trenches, and a sump present at the tank. In addition, routine inspections are performed.

(2) Surface Water Release Potential

The distance to the nearest surface water is greater than two miles. The potential for release from this tank to the surface water is low due to routine inspections for leaks and corrosion, and the bermed concrete pad that is present.

(3) Air Release Potential

There is low release potential to air from this tank due to the good condition of the tank, and to daily inspection of the tank. In addition, APCE is present to control emissions from the tank [carbon adsorption canister WS-1]. However, breakthrough may have occurred in WS-1 in several instances when the carbon was not replaced within specified time periods. Also, it is unknown whether releases have occurred through the pressure relief valves, which would release tank gases directly to the air. Since the canister performs at a 98% efficiency, potentially, there could have been ongoing low levels of benzene (and possibly other organic constituents) released from this unit to the air. If carbon change-outs are performed on schedule (before 7.88 days have passed), there would be low release potential to air from this unit. This could be higher if the change-outs are not done on schedule.

The 2003 VSI file review showed that, in at least two incidents, change-out was not done on schedule. In the 2014 VSI file review of the past 2 years of records, this was not repeated.

6.2.5 <u>SWMU 5 (Previously designated as SWMU 17):</u> Rainwater, Dewatering Screw, and Motive Water Storage Tank T-12. This tank is no longer used.

Unit Description:

Tank T-12 is no longer used.

Status and Wastes Managed

The start-up date for this unit was in 1992. This unit is no longer in use and was removed in 1996.

The list of hazardous constituents that may be adsorbed to the spent carbon, and thus could have been in the motive water stored in this tank, is very extensive and may include, but is not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

According to facility personnel, the integrity of tank T-12 was tested upon installation. Facility personnel conducted daily inspections of Tank T-12 while it was in operation and its integrity (no corrosion or leaks) was documented on the inspection log sheets. Tank T-12 was on top of a bermed concrete pad.

Release History

According to facility personnel, no releases have occurred from Tank T-12. No evidence of any spill or release was observed during the 2003 VSI. Tank T-12 is no longer used.

During the 2003 VSI, a review of the facility's carbon replacement logs revealed several instances when the carbon in WS-1 was not replaced within specified time periods. In the 2014 VSI file review of the past 2 years of records, this was not repeated.

The facility did periodic monitoring of the WS-1 adsorber vent from June 2011 till August 2013 prior to the carbon change-outs. The logs are attached in Appendix P. The results show that the levels were below the 500 ppm above background with the highest level recorded at 223 ppm. As per the logs, change-outs take place every 2-3 days which is more frequent than the 7.88 days required by the engineering calculations. See WS-1 for more details.

Remedial Actions

There have been no documented remedial actions performed at this unit.

Migration Pathways

(1) Soil to Groundwater Release Potential

The potential for release to the soil or ground water from this unit is low due to the bermed concrete pad provided underneath the unit, and routine inspections are performed.

(2) Surface Water Release Potential

The distance to the nearest surface water is greater than two miles. The potential for release to surface water from this unit is low because it is inspected routinely for leaks and corrosion, and a bermed concrete pad is present.

(3) Air Release Potential

There is low release potential to air from this tank due to the good condition of the tank, and to daily inspection of the tank. In addition, APCE is present to control emissions from the tank [carbon adsorption canister WS-1]. However, breakthrough may have occurred in WS-1 in several instances when the carbon was not replaced within specified time periods. Also, it is unknown whether releases have occurred through the pressure relief valves, which would release tank gases directly to the air. Since the canister performs at a 98% efficiency, potentially, there could have been ongoing low levels of benzene (and possibly other organic constituents) released from this unit to the air. If carbon change-outs are performed on schedule (before 7.88 days have passed), there would be low release potential to air from this unit. This could be higher if the change-outs are not done on schedule.

The 2003 VSI file review showed that, in at least two incidents, change-out was not done on schedule. In the 2014 VSI file review of the past 2 years of records, this was not repeated.

6.2.6 SWMU 6 (Previously designated as SWMU 18): Wastewater Storage Tank T-11

Unit Description:

Tank T-11 is an industrial wastewater treatment and storage tank located east of the warehouse and south of RF-2. Tank T-11 is used to collect process wastewater prior to discharge to the sewer system under a discharge permit from the local publicly owned treatment works (POTW) operated by the Colorado River Sewage System Joint Venture. The volume discharged from Tank T-11 to the local POTW averages about 140,000 gallons per day (gpd). Tank T-11 has a capacity of approximately 20,000 gallons. The materials of construction of this unit are presented in Table 2 listing the units above.

Process wastewaters collected in Tank T-11 are scrubber water blow down from Tank T-19, cooling water blow down, and boiler water blow down. Tank T-11 also occasionally collects wastewaters from Tank T-9.

Status and Wastes Managed

The start-up date for Tank T-11 was in 1992, and it is currently operational. T-11 and its ancillary equipment is a wastewater treatment unit and therefore is exempt from RCRA regulation., with the exception of the fugitive emission requirements in Subpart CC of RCRA (*i.e.*, the RCRA regulatory requirements contained in 40 CFR Part 264, Subpart CC). It is tested annually for Subpart CC applicability.

The list of hazardous constituents that may be adsorbed to the spent carbon, and thus may be in the wastewaters managed in Tank T-11, is very extensive and may include, but is not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

According to facility personnel, the integrity of this tank was tested upon installation. The facility operator inspects Tank T-11 daily. Tank T-11 is located on a bermed concrete pad. The plant computer continuously monitors the water level of T-11. Audible alarms alert the operator of potential problems.

The facility monitors the water discharged from Tank T-11 to the POTW continuously for total dissolved solids (TDS), temperature, flow, and pH. Two times per month the operator takes 24-hour composite samples for total suspended solids (TSS) and chemical oxygen demand (COD). Once per year, the operator analyzes the wastewater for total toxic organics (TTOs). All monitoring and analytical results are submitted on a monthly basis to the local POTW manager to demonstrate compliance with the facility's discharge permit. The facility operator has also conducted additional tests of wastewater it discharges to the POTW and has detected the following priority pollutants: antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, zinc, chlorodibromomethane, dichlorobromomethane, 1,2-dichloroethane, 1,1,2-trichloroethane, phthalate (2-ethylhexyl).

Release History

The facility's test data from wastewater entering and exiting Tank T-11, demonstrate VOCs less than 500 ppmw (See Appendix XX of Part B Application Reference 5). The facility has also reported low inorganic concentrations for priority pollutants in their discharge to the POTW (Appendix R). Besides the facility's discharges, the POTW receives other industrial wastewater, as well as domestic sewage from Parker and portions of the Colorado River Indian Reservation. At the POTW, these wastewaters are combined, treated, and then released to a drainage canal, which in turn flows into the Colorado River. During treatment at the POTW, some of the contaminants contributed by Evoqua are likely to be removed from the wastewater (as well as contaminants from other dischargers to the POTW). The resulting concentrations of contaminants in the POTW's discharge to the drainage canal have been within the limits of the POTW's wastewater discharge permit.

During the VSI, condensation water was noted around Tank T-11, which the facility representative identified as a *de minimis* quantity of scrubber water blowdown. The facility representative explained that the scrubber water has tested to be nonhazardous (see most recent results in Appendix J). Since the outside temperature was 106° Fahrenheit during the 2003 VSI, the amount of water present would likely evaporate by the end of the day.

There is no other record of a release at this unit.

Remedial Actions

There is no record of remedial action at this unit.

Migration Pathways

(1) Soil to Groundwater Release Potential

There is low release potential to soil and groundwater from this unit. The tank is inspected daily, and bermed concrete containment underlies the tank.

(2) <u>Surface Water Release Potential</u>

The distance to the nearest surface water is greater than two miles. The tank is inspected daily, and bermed concrete containment underlies the tank. Therefore, the release potential directly to the surface water from this unit is low. However, ongoing releases of small amounts of contaminants likely occur through discharge of water from this tank to the POTW, which then discharges to a drainage canal, which in turn flows to the Colorado River. Please see Appendix XI of Part B Permit Application Reference 5 for more details

(3) Air Release Potential

There is low release potential to the air from Tank T-11. Although Tank T-11 vents directly to the atmosphere, the wastewaters it manages are expected to have very low concentrations of VOCs. The other wastewaters entering Tank T-11 are expected to have low levels of organic compounds. Please see Appendix XI of Part B Permit Application Reference 5 for more details

6.2.7 <u>SWMU 7 (Previously designated as SWMU 26)</u>: <u>Sump by Cooling Screw Under</u> Venturi Scrubber Tank

Unit Description:

The sump is located east of the storage warehouse beside the RF-2 structure within the bermed concrete pad area. The concrete sump collects spills from the cooling screw under the venturi scrubber tank and any other spills or rainwater in the process area and directs the liquid via a pump and piping to Tank T-9. The materials of construction of this unit are presented in Table 2 listing the units above.

Status and Waste Managed

Use of the sump began in 1996, and it is currently operational. As a component of the spent carbon handling system, this unit is operating under RCRA interim status and is subject to RCRA permitting.

Any of the hazardous constituents described for bermed concrete area may be present in the liquids collected in this sump. These may include, but are not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals, as well as products of incomplete combustion. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

The sump is located within a bermed concrete pad. Any process water or rainwater that flows into the sump is immediately pumped by a sump pump to the recycle water tank, T-9. No cracks in the sump were observed during both VSIs.

The integrity of the sump pump and concrete is ensured by routine inspections. Any cracks discovered in the concrete are promptly sealed with a polyresin, Sikadur-35® or equivalent. If any mechanical problem were to occur with the sump pump, repair would occur promptly upon discovery.

Release History

Review of file material during both VSIs revealed that there is no record of a release or overflow of this sump. No evidence of overflow from this sump was observed during both VSIs.

Remedial Actions

During both VSIs, no record was found of remedial action for this sump or sump pump.

Migration Pathways

(1) Soil to Groundwater Release Potential

There is low release potential to soil and groundwater from this unit. The sump is located within a bermed concrete area, the integrity of the concrete is monitored by routine inspections, and any observed cracks are sealed by the facility. No unsealed cracks were noted during both VSIs.

(2) Surface Water Release Potential

There is low release potential to surface water from this unit. The sump is located within a bermed concrete pad area, and liquid collected in the sump is immediately directed via a sump pump and piping system to the recycle water tank, T-9. Also, surface water is greater than two miles away.

(3) Air Release Potential

There is low release potential to the air from this unit. Only very low concentrations of VOCs are expected in the liquids collected in this sump.

6.2.8 <u>SWMU 8 (Previously designated as SWMU 19): RF-2 Scrubber Water</u> Equalization Tank T-19

Unit Description:

Tank T-19 is located under the RF-2 structure. Scrubber water is supplied to the APCE from the scrubber water tank, Tank T-19. While moving through the APCE, the scrubber water removes contaminants from the furnace gases. From the air pollution control equipment, the scrubber water is returned to T-19. The pH of the scrubber water is controlled by the introduction of acid or sodium hydroxide via a scrubber-metering pump into the scrubber water line just prior to introduction into the venturi and packed bed scrubbers. The materials of construction of this unit are presented in Table 2 listing the units above.

Status and Waste Managed

This unit began operation in 1996 and is currently active as part of the wastewater treatment system. The facility operator analyzed the scrubber water from Tank T-19, and reported nondetection of VOCs, SVOCs, organochlorine pesticides, polychlorinated biphenyls, and alcohols. Please see Appendix J for the latest results. The pH of the scrubber water ranges between 2.5 and 12.5.

Any contaminants present in the combustion gases in the APCE may also be transferred to the scrubber water blowdown that is managed in Tank T-19. Although the combustion process is expected to destroy much of the organic contaminants originally on the spent carbon, the list of hazardous constituents adsorbed to the spent carbon and transferred to wastewater managed in Tank T-19 includes, but is not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5. Products of incomplete combustion, are also in the gases coming into contact with the scrubber water. Please see Appendix XI of Part B Permit Application Reference 5 for more details.

Release Controls

According to facility personnel, the integrity of this tank was tested upon installation. A high and low alarm system was installed on the scrubber water equalization tank. The scrubber water blow down is discharged via piping to Tank T-11 and from T-11 it is sent through the Waste Water Treatment Plant before it is discharged to the POTW. The discharge to the POTW is continuously monitored for flow, pH, TDS, and temperature.

Release History

No documentation of releases from this unit was found in the facility records.

Remedial Actions

There is no record of remedial action at this unit.

Migration Pathways

(1) Soil to Groundwater Release Potential

There is low release potential to the soil and groundwater. Routine inspections and repairs are performed, and a bermed concrete pad is present underneath the unit.

(2) Surface Water Release Potential

The distance to the nearest surface water is greater than two miles. There is low release potential to the surface water from this unit. Routine inspections and repairs are performed as needed, and bermed concrete pad is present underneath the unit.

(3) Air Release Potential

There is low release potential to the air. The tank and ancillary equipment are inspected routinely.

6.2.9 SWMU 9 (Previously designated as SWMU 20): Hazardous Waste Debris Bin

Unit Description:

The hazardous waste debris bin is located north of the storage warehouse on the asphalt pavement. The location of this unit on the pavement is changed for convenience. Debris -- such as personal protective equipment, rags, spill cleanup wastes, and contaminated pallets -- is stored for less than 90 days in this hazardous waste debris bin. There are three areas inside the spent carbon storage warehouse where the debris is accumulated. This accumulated debris is then transferred to the debris bin. The debris bin is a roll-off container that is covered at all times except when debris is being added. The materials of construction of this unit are presented in Table 2 listing the units above.

Status and Waste Managed

This unit began operation in 1992 and is currently active. The unit stores hazardous waste for less than 90 days, and so is subject to generator requirements as per 40 CFR 262.

Hazardous waste debris may be contaminated with any of the hazardous constituents adsorbed to the spent carbon. These may include, but are not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

The lid on the debris bin is closed at all times except when waste is added. The hazardous waste debris is shipped off-site in less than 90 days from the date of initial accumulation in the bin. The facility operator performs routine inspections at this unit.

Release History

No documented releases from this unit have occurred. No evidence of any spill or release of hazardous constituents was observed during both VSIs.

Remedial Actions

There are no documented remedial actions performed at this unit.

Migration Pathways

(1) Soil and Groundwater Release Potential

There is low release potential to the soil and groundwater. Routine (daily) inspections are performed, and asphalt is present underneath the unit.

(2) Surface Water Release Potential

The nearest surface water body is greater than two miles away, routine inspections are performed, and asphalt is present underneath the unit. Therefore, there is low release potential to the surface water.

(3) Air Release Potential

The lid is kept closed except to add debris to the container, and the unit is routinely inspected. Therefore, there is low release potential to air from the hazardous waste debris bin.

6.2.10 <u>SWMU 10</u> (<u>Previously designated as SWMU 21</u>): <u>Spent Carbon Storage</u> <u>Warehouse Metal Grated Trenches and Sump</u>

Unit Description:

The grated trenches and sump are located inside the storage warehouse facing the east wall in the containment area of the spent carbon storage warehouse. Metal grated trenches in the spent carbon storage warehouse collect rinse water that is used to wash out empty drums of spent carbon after unloading into Hopper H-2. The trenches drain into an in-ground square-shaped sump that is equipped with a sump pump to direct water through piping to the recycle water storage tanks, T-9. The grated trenches and concrete sump also serve to collect any spills from leaking drums. The materials of construction of this unit are presented in Table 2 listing the units above.

Status and Waste Managed

This unit was constructed over a four-year time span, from 1992 to 1996, and it is currently active. As a component of the spent carbon handling system, this unit is operating under RCRA interim status and is subject to RCRA permitting.

Any of the hazardous constituents found in the spent carbon may be present in the rinse water or in spills from leaking containers in the spent carbon storage warehouse. These may include, but are not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

No unsealed cracks in the trenches or sump were observed at this unit during both VSIs. Water that enters the sump is pumped via piping to the recycle water tank, T-9.

The integrity of the sump pump, concrete trenches and sump is monitored by routine inspections by facility personnel. Any release draining to the unit would not be expected to exceed the capacity of the trenches and sump.

Release History

There is no record of overflow occurring from the grated trenches or sump. No history of build-up of liquid in the sump was found in the facility records. No evidence of overflow release was observed during both VSIs at the grated trenches and sump.

Records reviewed during the 2003 VSI indicated that only one leaking drum has ever been discovered in the hazardous waste storage warehouse (September 8, 2000); the drum was pulled from the pallet and the contents dumped into hopper H-2.

Remedial Actions

The hazardous material handlers cleaned up the area in the warehouse where the leak occurred on September 8, 2000, upon discovery; no contact occurred with soil or groundwater.

Migration Pathways

(1) Soil to Groundwater Release Potential

The potential to release to soil and groundwater is low. The integrity of the concrete is monitored by routine inspections. Any cracks in the concrete would be promptly repaired. No unsealed cracks were noted during both VSIs.

(2) Surface Water Release Potential

There is low release potential to surface water. The integrity of the concrete is monitored by routine inspections, and surface water is greater than two miles away.

(3) Air Release Potential

There is low release potential to the air. Only very low concentrations of VOCs are expected in the rinse water in the trenches and sump.

6.2.11 <u>SWMU 11 (This is a New Unit Split from the Old SWMU 23): Hopper Concrete</u> Pad (Outside H-1 Structure)

SWMU 11 Unit Description

The hopper pad area is a bermed concrete pad. There is a continuous six-inch high concrete berm around the pad, and it is equipped with a sump and transfer pump to remove any liquids collected on the pad.

This bermed concrete pad is protection in the event of spills of carbon or liquids during the unloading of waste carbon. The pad slopes to a sump, and liquids collected on the pad drain to

the sump. The sump is pumped to the recycle water tank, T-9. The materials of construction of this unit are presented in Table 2 listing the units above.

Status and Wastes Managed

The start-up date for the unit was in 1992, and the unit is currently active. As a component of the spent carbon handling system, the concrete pad is operated under RCRA interim status, and is subject to the RCRA permit decision.

Both hazardous and nonhazardous spent carbon is managed at the units within this concrete area. The list of hazardous constituents that may be adsorbed to the spent carbon is very extensive and may include, but is not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

This bermed concrete pad is protection in the event of spills of carbon or liquids during the unloading of waste carbon. The pad slopes to a sump, and liquids collected on the pad drain to the sump. The sump is pumped to the recycle water tank, T-9.

Release History

No evidence of release was observed at this unit during both VSIs. The concrete pad was in good condition. All cracks in the concrete have been sealed with an epoxy, Sikadur-35® or equivalent material.

Remedial Actions

The facility operator has repaired all cracks in the concrete pads and berm with an epoxy, Sikadur-35® or equivalent material and inspects the concrete pad and berm daily.

Migration Pathways

(1) Soil to Groundwater Release Potential

The potential for release is low from this unit to the soil and groundwater due to the design and construction of the pad and the routine (daily) inspections and repairs. At the time of closure this will be investigated further.

(2) Surface Water Release Potential

The nearest surface water body is greater than two miles away. There is low release potential to surface water due to the design and construction of the bermed concrete pad and the routine inspections and repairs.

(3) Air Release Potential

The potential for release to the air is low because spills to the pad are immediately washed down upon discovery and water is pumped to the recycle tank T-9.

6.2.12 SWMU 12 (New Unit): WWTP (located inside the warehouse)

Unit Description:

The Waste Water Treatment Plant (WWTP) is located inside the warehouse. It is a fiberglass and mild steel modular water treatment system. It has its own separate containment. The WWTP treats the scrubber blowdown from RF-2 air pollution control equipment. The WWTP discharges to the POTW. The discharge to the POTW is continuously monitored for pH, total dissolved solids, flow and temperature to ensure compliance with the discharge limitations found in the facility's industrial wastewater discharge permit. The discharge used to go through a lift station.

The lift station is now bypassed using a new underground PVC piping system with direct discharge to the POTW. Facility personnel use a manhole located behind the administration building at the facility to sample the wastewater prior to discharge under Permit No. 1002-96 to the POTW. The materials of construction of this unit are presented in Table 2 listing the units above.

Status and Waste Managed

The lift station and the old and new piping systems are part of the wastewater treatment system that discharges to the POTW and are exempt from RCRA regulation.

The list of hazardous constituents that may adsorbed to the spent carbon, and thus may be in the wastewaters managed in this unit, is very extensive and may include, but is not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

The WWTP is located inside the warehouse. It has its own separate secondary containment.

Release History

There is no history of release from the WWTP, other than what was described for the old piping with the overflow of the lift station. Please see the SWMU 13 for more details.

Remedial Actions

There were no remedial actions performed on this unit.

Migration Pathways

(1) Soil to Groundwater Release Potential

The WWTP is located inside the warehouse. It has its own separate secondary containment. The release potential to soil and groundwater is very low.

(2) <u>Surface Water Release Potential</u>

The WWTP is located inside the warehouse. It has its own separate secondary containment. The release potential to surface water from this unit is very low, since the distance to the nearest surface water is greater than two miles.

3) Air Release Potential

The WWTP is located inside the warehouse. The release potential air from this unit is very low.

6.2.13 <u>SWMU 13 (Previously designated as SWMU 28): Wastewater Lift Station and Piping Systems (Old Piping)</u>

Unit Description:

This lift station, located at the end of the access road to the facility off Mutahar Street, was formerly used to lift (pump) wastewater from WWTP via the old piping system to the local POTW collection line at the south edge of Evoqua property. The lift station also pumped domestic wastewater from the facility. The old piping system, which has not been removed, is made of either PVC or ductile iron.

The lift station is now bypassed using a new underground PVC piping system with direct discharge from the WWTP to the POTW. The new piping is discussed in Section 6.1.22 describing HWMU 25. Facility personnel use a manhole located behind the administration building at the facility to sample the wastewater prior to discharge under Permit No. 1002-96 to the POTW. The materials of construction of this unit are presented in Table 2 listing the units above.

Status and Waste Managed

This lift station was operated from 1992 until early 1996. The new piping was installed in 1996 to bypass the old lift station. The lift station and the old and new piping systems are part of the wastewater treatment system that discharges to the POTW and are exempt from RCRA regulation.

The list of hazardous constituents that maybe adsorbed to the spent carbon, and thus may be the wastewaters managed in this unit, is very extensive and may include, but is not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

The lift station had two pumps which alternated operating. When operational, one ran until the low level probe switched it off, and as soon as the high level probe was reached the other pump began operating. Changeover occurred in 1996 from the old piping system and the lift station to a new piping system, a gravity flow system, which did not require pumps.

Release History

On November 10, 1994, the facility experienced an overflow episode from the lift station located on-site. The facility lost power during the evening of November 9, 1994. Operations at the facility ceased. When the power was restored, a breaker to one of two lift station pumps was tripped. After operations restarted there was no evidence of problems with the lift station pumps. However, in the morning on November 10, 1994, an electrician at the facility was arriving at the plant and noticed that the lift station was overflowing. He immediately reset the breaker and stopped the overflow. Wastewater that is normally pumped to the POTW spilled from the lift station; this wastewater consisted of domestic waste and scrubber (discharge) blowdown.

A similar incident occurred on April 17, 1995 with a release of domestic sewage and wastewater to the soil. Based on the latest analytical results of the wastewater managed in Tank T-11, the facility determined that neither overflow incident from the lift station constituted a threat to human health or the environment. Since the wastewater may have been in contact with hazardous constituents, the soil was treated as hazardous during the remedial action response.

Because the old piping is located underground, it has not been physically inspected. No evidence of release, such as stained soil, was observed at the lift station during the 2003 VSI.

Remedial Actions

During the overflow incident on November 10, 1994, the facility operator made a soil dike on Mutahar Street to stop flow from running north and to contain the spill. On November 11, 1994, the operator removed the impacted soil around the lift station (approximately six to twelve inches of top soil) and placed it in drums. Approximately 133 drums (55 gallons/each) or 15.4 cubic yards of soil were labeled as hazardous waste and stored within the facility containment pad pending analytical results. Facility personnel collected samples of residual soil at the spill site. Based on analytical results of soil samples, the facility determined that there was no residual contamination of concern at the site. The soil analytical data generated from the cleanup of impacted soil is included as Appendix I.

After the overflow incident on April 17, 1995, the facility operator excavated an estimated 30 cubic yards of soil and placed it in drums labeled as hazardous pending analytical results. The operator collected samples of residual soil at the spill site. Analytical results of soil samples documented no residual contamination of concern. The soil analytical data generated from the cleanup of impacted soil is included as Appendix I.

Migration Pathways

(1) Soil to Groundwater Release Potential

There is no current release potential to soil and ground water from the lift station and old piping system since they have been taken out of operation. The past releases to the soil that occurred were remediated.

(2) <u>Surface Water Release Potential</u>

There is currently no release potential to the surface water from the lift station and old piping system since they are no longer operational. The past release potential from the lift station and the old piping system directly to surface water was low due to the distance to surface water.

There is low release potential from the new underground piping system directly to the surface water since the distance to the nearest surface water is greater than two miles.

3) Air Release Potential

There is no current release potential to the air from the old piping system and the lift station because they are no longer operational. The old unit had low release potential to air when active because it was not in contact with the atmosphere.

6.2.14 <u>SWMU 14 (Previously designated as SWMU 9): Spent Carbon Unloading and Transfer Area Asphalt Pavement</u>

<u>Unit Description</u>

The transfer area asphalt pavement has a continuous six-inch high berm around the part of the asphalt pavement closest to the building.

This area is part of a larger continuous asphalt pavement area that borders the concrete process area. The materials of construction of this unit are presented in Table 2 listing the units above.

Status and Wastes Managed

The unit is currently active as a component of the spent carbon handling area.

Both hazardous and nonhazardous spent carbon are handled at this unit within this asphalt area. The list of hazardous constituents that may be adsorbed to the spent carbon is very extensive and may include, but is not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

There is a continuous six-inch high concrete berm around unloading and transfer area part of the asphalt pavement. The operators waste carbon management practices and timely responses to spills will be the first line of release control.

Release History

Two plausible release areas were identified during the Preliminary Report. The first is the land surrounding the spent carbon unloading and transfer area, where carbon dust/particulate deposition may have occurred and continue to occur, and the second is the area where a spill from a tank truck occurred in September 1998.

In August 1996, Evoqua conducted soil testing inside the fenced area of the facility, including areas where carbon dust and particulate deposition may have occurred prior to paving. Analytical results indicated that the soil had not been impacted or contaminated by the operations at the facility. No soil samples exhibited the toxicity characteristic, and no detectable levels of semi volatile, volatile, or organochlorine pesticides and PCBs were found in the soil. However, this whole area will be further investigated at the time of closure.

Regarding the second area, on September 26, 1998 a spill occurred from a truck on site that contained recycle water from the plant that was used to slurry hazardous spent carbon in the treatment process plant. The spill was caused by the driver opening a valve and accidentally discharging the recycle water onto the soil just outside the main gate of the plant. Approximately 100 gallons were released to the soil. The Facility Operator immediately started containment and cleanup procedures. Fifty-six drums of impacted rocks and soil were excavated and managed as hazardous waste and manifested (Manifest Document No. 12239) for shipment off site to be incinerated at APTUS in Aragonite, Utah. The Facility Operator tested the remaining soil for metals, VOCs, and SVOCs. Analytical results revealed no residual contamination above background concentrations at the spill site (Appendix I). A visual inspection of these areas on July 12, 2001, during the VSI, revealed no evidence of stained surface soil, and a review of facility records document cleanup of the past spills.

No evidence of release was observed at this unit during both VSIs.

Remedial Actions

Please see the discussion on the truck spill and cleanup discussed in the section above.

Migration Pathways

(1) Soil to Groundwater Release Potential

The potential for release is low from this unit because the carbon containers are not opened in this area. At the time of closure this unit and the soil underneath it will be investigated further as per the Closure Plan, Appendix XV in Permit Application Reference 5.

(2) Surface Water Release Potential

The nearest surface water body is greater than two miles away. There is low release potential to surface water due to the carbon containers not being opened in this area.

(3) Air Release Potential

The potential for release to the air is low because the carbon containers are not opened in this area.

6.2.15 <u>SWMU 15</u> (This is a New Unit): <u>Satellite Accumulation Area (North Side of Warehouse)</u>

Located at the north end of the container storage area and is used to accumulate various debris which may include respirator cartridges, gloves, PPE, trash and floor sweepings. The container is a drum containing less than or equal to 55 gallons.

Status and Waste Managed

The unit stores hazardous waste for less than 90 days, and so is subject to generator requirements as per 40 CFR 262.

Hazardous waste debris may be contaminated with any of the hazardous constituents adsorbed to the spent carbon. These may include, but are not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

The lid on the debris container is closed at all times except when waste is added. The hazardous waste debris is emptied periodically into the debris bin and is shipped off-site in less than 90 days from the date of initial accumulation in the bin. The facility operator performs routine inspections at this unit.

Release History

No documented releases from this unit have occurred. No evidence of any spill or release of hazardous constituents was observed during 2014 VSI.

Remedial Actions

There are no documented remedial actions performed at this unit.

Migration Pathways

(1) Soil and Groundwater Release Potential

There is low release potential to the soil and groundwater since this unit is located at the north end of the container storage area. Routine (daily) inspections are performed, and concrete is present underneath the unit.

(2) Surface Water Release Potential

The nearest surface water body is greater than two miles away, routine inspections are performed, and this unit is located at the north end of the container storage area. Therefore, there is low release potential to the surface water.

(3) Air Release Potential

The lid is kept closed except to add debris to the container, and the unit is routinely inspected. Therefore, there is low release potential to air from this unit.

6.2.16 <u>SWMU 16 (This is a New Unit)</u>: <u>Satellite Accumulation Area (South Side of Drum Containment)</u>

Located at the south end of the container storage area and is used to accumulate various debris which may include respirator cartridges, gloves, PPE, trash and floor sweepings. The container is a drum containing less than or equal to 55 gallons.

Status and Waste Managed

The unit stores hazardous waste for less than 90 days, and so is subject to generator requirements as per 40 CFR 262.

Hazardous waste debris may be contaminated with any of the hazardous constituents adsorbed to the spent carbon. These may include, but are not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

The lid on the debris container is closed at all times except when waste is added. The hazardous waste debris is emptied periodically into the debris bin and is shipped off-site in less than 90 days from the date of initial accumulation in the bin. The facility operator performs routine inspections at this unit.

Release History

No documented releases from this unit have occurred. No evidence of any spill or release of hazardous constituents was observed during 2014 VSI.

Remedial Actions

There are no documented remedial actions performed at this unit.

Migration Pathways

(1) Soil and Groundwater Release Potential

There is low release potential to the soil and groundwater since this unit is located at the south end of the container storage area. Routine (daily) inspections are performed, and concrete is present underneath the unit.

(2) <u>Surface Water Release Potential</u>

The nearest surface water body is greater than two miles away, routine inspections are performed, and this unit is located at the south end of the container storage area. Therefore, there is low release potential to the surface water.

(3) Air Release Potential

The lid is kept closed except to add debris to the container, and the unit is routinely inspected. Therefore, there is low release potential to air from this unit.

6.2.17 <u>SWMU 17 (This is a New Unit)</u>: <u>Satellite Accumulation Area (East of Control Room)</u>

Located outside the east end of the control room door. This is used to accumulate various debris which may include respirator cartridges, gloves, PPE, trash and floor sweepings. This is a container containing less than or equal to 55 gallons.

Status and Waste Managed

The unit stores hazardous waste for less than 90 days, and so is subject to generator requirements as per 40 CFR 262.

Hazardous waste debris may be contaminated with any of the hazardous constituents adsorbed to the spent carbon. These may include, but are not limited to: VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

The lid on the debris container is closed at all times except when waste is added. The hazardous waste debris is emptied periodically into the debris bin and is shipped off-site in less than 90 days from the date of initial accumulation in the bin. The facility operator performs routine inspections at this unit.

Release History

No documented releases from this unit have occurred. No evidence of any spill or release of hazardous constituents was observed during 2014 VSI.

Remedial Actions

There are no documented remedial actions performed at this unit.

Migration Pathways

(1) Soil and Groundwater Release Potential

There is low release potential to the soil and groundwater since this unit is located outside the east end of the control room door. Routine (daily) inspections are performed, and concrete is present underneath the unit.

(2) Surface Water Release Potential

The nearest surface water body is greater than two miles away, routine inspections are performed, and this unit is located outside the east end of the control room door. Therefore, there is low release potential to the surface water.

(3) Air Release Potential

The lid is kept closed except to add debris to the container, and the unit is routinely inspected. Therefore, there is low release potential to air from this unit.

6.2.15 <u>SWMU 18 (This is a New Unit)</u>: <u>Satellite Accumulation Area (Lab in Admin</u> Building)

Located in the testing lab in the administration building. This is used to accumulate debris from laboratory testing of samples and is a 5 gallon container.

Status and Waste Managed

The unit stores hazardous waste for less than 90 days, and so is subject to generator requirements as per 40 CFR 262.

Hazardous waste debris may be contaminated with any of the hazardous constituents adsorbed to the spent carbon. These may include, but are not limited to, VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

The lid on the debris container is closed at all times except when waste is added. The hazardous waste debris is emptied periodically into the debris bin and is shipped off-site in less than 90 days from the date of initial accumulation in the bin. The facility operator performs routine inspections at this unit.

Release History

No documented releases from this unit have occurred. No evidence of any spill or release of hazardous constituents was observed during 2014 VSI.

Remedial Actions

There are no documented remedial actions performed at this unit.

Migration Pathways

(1) Soil and Groundwater Release Potential

There is low release potential to the soil and groundwater since this unit is located in the testing lab in the administration building. Routine (daily) inspections are performed, and concrete is present underneath the unit.

(2) Surface Water Release Potential

The nearest surface water body is greater than two miles away, routine inspections are performed, and this unit is located in the testing lab in the administration building. Therefore, there is low release potential to the surface water.

(3) Air Release Potential

The lid is kept closed except to add debris to the container, and the unit is routinely inspected. Therefore, there is low release potential to air from this unit.

6.2.19 <u>SWMU 19 (This is a New Unit)</u>: <u>Satellite Accumulation Area (Underneath Spent Carbon Baghouse)</u>

Located under the baghouse that services H-1 and H-2 hoppers. This is used to accumulate spent carbon dust/fines captured by the baghouse. The container is a drum containing less than or equal to 55 gallons.

Status and Waste Managed

The unit stores hazardous waste for less than 90 days, and so is subject to generator requirements as per 40 CFR 262.

Hazardous waste debris may be contaminated with any of the hazardous constituents adsorbed to the spent carbon. These may include, but are not limited to, VOCs, PAHs, phthalates, amines, pesticides, and metals. The complete list of hazardous wastes and RCRA-regulated waste codes acceptable for reactivation at the facility is provided in Appendix I of Part B Permit Application Reference 5.

Release Controls

The lid on the debris container is closed at all times except when waste is added. The hazardous waste debris is emptied periodically into the debris bin and is shipped off-site in less than 90

days from the date of initial accumulation in the bin. The facility operator performs routine inspections at this unit.

Release History

No documented releases from this unit have occurred. No evidence of any spill or release of hazardous constituents was observed during 2014 VSI.

Remedial Actions

There are no documented remedial actions performed at this unit.

Migration Pathways

(1) Soil and Groundwater Release Potential

There is low release potential to the soil and groundwater since this unit is located under the baghouse that services H-1 and H-2 hoppers on top of a bermed concrete pad. Routine (daily) inspections are performed, and concrete is present underneath the unit.

(2) Surface Water Release Potential

The nearest surface water body is greater than two miles away, routine inspections are performed, and this unit is located under the baghouse that services H-1 and H-2 hoppers on top of a bermed concrete pad. Therefore, there is low release potential to the surface water.

(3) Air Release Potential

The lid is kept closed except to add debris to the container, and the unit is routinely inspected. Therefore, there is low release potential to air from this unit.

6.3 <u>AOCs</u>

Area of Concern (AOC): Any area of a facility under the control or ownership of an owner or operator where a release to the environment of hazardous wastes or hazardous constituents has occurred, is suspected to have occurred, or may occur, regardless of the frequency or duration. [63 Fed. Reg. 56710, n.1 (Oct.22, 1998).] Areas of concern include areas that have experienced one-time spills of hazardous waste or hazardous constituents that have not been adequately cleaned up. [61 Fed. Reg. 19,432, 19,443 (May 1, 1996).]

TABLE 3 - AREAS OF CONCERN (AOC) IDENTIFICATION TABLE, NEW UNIT NAME

| No. | Description of AOC | Location | Management Requirements at
Closure | |
|-----|---|--|---|--|
| 1 | Spent carbon unloading and transfer area. | AOC 1 is entirely contained within SWMU14. | Sampling. See Closure Plan Tank Area and Unloading Area Sample Locations 5 & 7. | |
| 2 | Tank area concrete containment pad | AOC 2 is entirely contained within SWMU 1. | Sampling. See Closure Plan Tank Area and Unloading Area Sample Location 3. | |
| 3 | Receiving area/pad | AOC 3 is entirely contained within SWMU14. | Sampling. See Closure Plan Tank Area and Unloading Area Sample Location 8. | |
| 4 | Hopper H-1 loading/unloading area | See HWMU 5 for more detail on this unit | Sampling. See Closure Plan Tank Area and Unloading Area Sample Locations 4 & 5. | |
| 5 | Hopper H-2 loading/unloading area | See HWMU 6 for more detail on this unit | Sampling. See Closure Plan Container
Area Sample Locations 1 & 2. | |
| 6 | Spent carbon storage warehouse | See HWMU 9 for more detail on this unit | Sampling. See Closure Plan Container
Area Sample Locations 1, 2, & 3. | |
| 7 | Furnace feed systems | See HWMUs 14 and 15 for more details on these units | Sampling. See Closure Plan RF-1 and RF-2 Process Area Sample Locations 1 & 2 | |
| 8 | Recycled motive water tank T-9 | See SWMU 4 for more details on this unit | Sampling. See Closure Plan Tank Area and Unloading Area Sample Location 6. | |
| 9 | Rainwater, Dewatering Screw,
and Motive Water Storage Tank
T-12 | See SWMU 5 for more details on this unit | Sampling. See Closure Plan Tank Area and Unloading Area Sample Location 2. | |
| 10 | Spent carbon storage warehouse barrel washer | See HWMU 17 for more details on this unit | Sampling. See Closure Plan Container
Area Sample Locations 1, 2, & 3. | |
| 11 | Bermed concrete pad in process area | AOC 2 is entirely contained within SWMU 1. See SWMU 1 for more detail on this unit | Sampling. See Closure Plan RF-1 and RF-2 Process Area Sample Locations 1, 2, & 3. | |
| 12 | Sump by unloading hopper H-1 | See SWMU 2 for more details on this unit | Sampling. See Closure Plan Tank Area and Unloading Area Sample Location 4. | |
| 13 | Sump by storage tank T-9 | See SWMU 3 for more details on this unit | Sampling. See Closure Plan Tank Area and Unloading Area Sample Location 6. | |
| 14 | Spent carbon storage tanks and carbon adsorbers | Please see HWMUs 10, 11, 12, & 13 and HWMUs 19, 20, & 21 for more details on these units | Sampling. See Closure Plan Tank Area and Unloading Area Sample Locations 1, 2, & 3. | |

<u>TABLE 4 – OLD SWMUs UNIT NAMES AND HOW THEY CORRESPOND</u> WITH THE NEW UNIT NAMES FOR SWMUs AND HWMUs

(First column from the left uses the old unit name and the first column from the right corresponds it with the new unit name).

| | SWMU | New Name for the
SWMUs as a result
of splitting out
HWMUs |
|----|--|--|
| 1 | Spent Carbon Reactivation Furnace RF-1 and Associated Equipment (Dewater screw) | HWMU 1 |
| 2 | Spent Carbon Reactivation Furnace RF-2 and Associated Equipment (Dewater Screw and Weigh Belt) | HWMU 2 |
| 3 | Air Pollution Control Equipment for RF-1 (Afterburner, Venturi scrubber, packed bed scrubber, and emissions stack) | HWMU 3 |
| 3 | Air Pollution Control Equipment for RF-2 (Afterburner, Venturi scrubber, packed bed scrubber, wet electrostatic precipitator, induced draft fan, and emission stack) | HWMU 4 |
| 4 | Spent Carbon Unloading Hopper H-1 | HWMU 5 |
| 5 | Spent Carbon Unloading Hopper H-2 | HWMU 6 |
| 6 | Hopper Air Pollution Control Equipment piping and baghouse | HWMU 7 |
| 7 | Spent Carbon Slurry and Recycle Water Transfer System | HWMU 8 |
| 8 | Spent Carbon Storage Warehouse | HWMU 9 |
| 9 | Transfer Area Concrete Pad | SWMU 14 |
| 10 | Spent Carbon Slurry Storage Tank T-1 | HWMU 10 |
| 11 | Spent Carbon Slurry Storage Tank T-2 | HWMU 11 |
| 12 | Spent Carbon Slurry Storage Tank T-5 | HWMU 12 |
| 13 | Spent Carbon Slurry Storage Tank T-6 | HWMU 13 |
| 14 | RF-1 Furnace Feed System (Tank T-8, Dewatering Screw, and Weigh Belt Conveyor) | HWMU 14 |
| 15 | RF-2 Furnace Feed System (Tank T-18, Dewatering Screw, and Weigh Belt Conveyor) | HWMU 15 |
| 16 | Recycled Motive Water Storage Tank T-9 | SWMU 4 |
| 17 | Rainwater, Dewatering Screw, and Motive Water Storage Tank T-12 | SWMU 5 |
| 18 | Wastewater Storage Tank T-11 | SWMU 6 |
| 19 | RF-2 Scrubber Water Equalization Tank T-19 | SWMU 8 |
| 20 | Hazardous Waste Debris Bin | SWMU 9 |
| 21 | Spent Carbon Storage Warehouse Grated Trenches and Sump | SWMU 10 |
| 22 | Spent Carbon Storage Warehouse Barrel Washer | HWMU 17 |
| 23 | Bermed Containment Area Under Spent Carbon Slurry Storage Tanks | SWMU 1 |
| 24 | Sump By Unloading Hopper H-1 | SWMU 2 |
| 25 | Sump By Storage Tank T-9 | SWMU 3 |
| 26 | Sump By Cooling Screw Under Venturi Scrubber Tank | SWMU 7 |

| | SWMU | New Name for the
SWMUs as a result
of splitting out
HWMUs |
|----|---|--|
| 27 | Wastewater Conveyance Piping to Wastewater Treatment Tank | HWMU 16 |
| 28 | Wastewater Lift Station and Piping System (Old and New) | SWMU 13 |
| 29 | Carbon | HWMU 19 |
| | Adsorber | |
| | WS-1 | |
| | | |
| 30 | Carbon Adsorber WS-2 | HWMU 20 |
| 31 | Carbon Adsorber WS-3 | HWMU 21 |
| 32 | Carbon Adsorber PV-1000 | HWMU-18 |
| 33 | Slurry Transfer Inclined Plate Settler Tank | HWMU 22 |
| 34 | Scrubber Recycle Tank T-17 | HWMU 23 |
| 35 | Filter Press | HWMU 24 |
| | New Facility Discharge Piping System | HWMU 25 |
| 9 | Hopper Concrete Pad (Outside H-1 Structure). Used to be part of old | SWMU 11 |
| | SWMU 23 | |
| | WWTP (located inside the warehouse) | SWMU 12 |

7.0 EXPOSURE PATHWAYS AND HUMAN AND ENVIRONMENTAL RECEPTORS

7.1 Surface Water

The Colorado River is the closest major surface water body to the site and is greater than two miles northwest of the facility. Due to the distance a release would have to travel to reach the Colorado River, and containment structures on site, there is a low potential for surface water impacts directly from the facility.

The facility discharges its wastewaters to the local POTW. At the POTW, the wastewater is treated along with industrial wastewater and domestic sewage from other sources, and is discharged to a nearby canal. The canal flows into the Colorado River.

The facility tests its wastewaters before discharge to the POTW, and submits the data to the POTW. The POTW Discharge Report is provided in Appendix L and demonstrates that POTW permit limits were not exceeded for TDS, temperature, pH, flow, COD, and TSS (Appendix L).

The potential for atmospheric deposition of airborne contaminants from stack emissions to the surface water is ongoing, but low due to the air pollution control equipment. The potential for atmospheric deposition of airborne contaminants from fugitive emissions from all operations to the surface water is also ongoing about low due to the waste management practices at the facility. For more details about the potential for adverse health impacts please see the Human Health and Ecological Risk Assessment Report provided in Permit Application Reference 5 and Appendix XI.

7.2 Groundwater

The depth to groundwater at the facility is 80 to 100 feet. The drinking water from four wells within four miles of the facility meets all primary water quality standards in the CWA. These four wells are on CRIT property. The Town of Parker's water source is groundwater. The depth to the surface of the groundwater is approximately 75 feet near the center of town (90 feet at the well in the northeast corner of town, which is on higher ground). The 2000 water quality testing yielded only one non-acute violation for distribution system water quality.

Although spills within and outside secondary containment areas have occurred in the past or may occur in the future at the facility, the potential for exposure of human or environmental receptors to hazardous constituents via groundwater is unlikely, due to the depth of groundwater, the high evaporation rate, the promptness in the facility's response and clean up, and the distance to the drinking water wells.

The release potential from the former underground piping system to the lift station is unknown because documentation of the integrity of the piping system was not provided or found in the facility files during the VSI. There is low release potential from the new underground piping due to the age of the piping system.

7.3 On-site Surface Soil

There are no documented releases to the surface soil at the facility with the exception of the three spills in 1994, 1995, and 1996, and the punctured pipe in the piping system to the POTW in 1998. The spills and release from the piping system were documented as cleaned up, and tests on remaining soils showed no contamination (Appendix I).

In August 1996, according to the Sample Plan formulated on August 7, 1996 for sampling soils inside the fence of the facility prior to paving, the facility operator collected samples from 10 separate 10 foot by 10 foot grids chosen at random. Based on the soil analytical results for metals, SVOCs, VOCs, organochlorine pesticides, PCBs, and alcohol, and the comparison of concentration levels to risk-based screening levels, the soil within the fenced area of the facility has not been impacted or contaminated by the operations of the facility (Appendix I). Atmospheric deposition of airborne contaminants to the soil may occur from fugitive emissions of dust/particulates from unloading spent carbon at hopper H-1. However, there is low potential that residual soil contamination could pose an exposure threat to on-site human or environmental receptors. For more details about potential health impacts please see the Human Health and Ecological Risk Assessment Report provided in Permit Application Reference 5 and Appendix XI.

The potential for atmospheric deposition of airborne contaminants from stack emissions to the soil is ongoing, but low due to the air pollution control equipment. The potential for atmospheric deposition of airborne contaminants from fugitive emissions from all operations to the soil is also ongoing about low due to the waste management practices at the facility. For more details about potential health impacts please see the Human Health and Ecological Risk Assessment Report provided in Permit Application Reference 5 and Appendix XI.

7.4 Air

The facility has installed air pollution control equipment on the reactivation furnace. This equipment considerably reduces the level of hazardous pollutants emitted to the air from the reactivation furnace through the stack. However, stack emissions are ongoing during operations at the facility.

Records from the daily inspections performed by the facility operator of the thermal treatment equipment, tanks, sumps, piping, and other equipment indicate mechanical integrity of all equipment has been maintained except on a few occasions where problems with hoses, hook-ups, and insufficient draft have occurred. Carbon adsorption canisters on equipment also minimize the release of volatile organics at the facility. Occasionally, a delay in change-out of carbon in accordance with the schedule to avoid breakthrough has occurred. Low level, intermittent releases to the air from tanks, sumps, hoppers, carbon canisters, and the piping systems are likely to occur. However, there appear to be sufficient controls in place to keep such fugitive emissions from the facility at a minimum. Therefore, there are ongoing fugitive emissions to the air at fairly low levels from operations at the facility. For more details about potential health impacts please see the Human Health and Ecological Risk Assessment Report provided in Permit Application Reference 5 and Appendix XI.

7.5 Facility Emissions

For more details about potential health impacts from the facility emissions please see the Human Health and Ecological Risk Assessment Report provided in Permit Application Reference 5 and Appendix XI.

8.0 <u>VISUAL SITE INSPECTION</u>

8.1 Purpose of the Visual Site Inspections

A Visual Site Inspection (VSI) is conducted after the initial information-gathering step of the RFA process is complete. The purpose of the VSI is to visit the facility to obtain site characterization information that was not completely disclosed in the file review. During the VSI, the focus is to identify SWMUs and AOCs, to collect visual evidence of releases at the facility, and to identify exposure pathways. The site characterization information gathered during the VSI is evaluated along with the information gathered during the Preliminary Review step to determine the probability that a release has occurred or could occur at the facility. A VSI was conducted at the facility in Parker, Arizona on July 12, 2001. Photo documentation of the 2001 VSI can be found in Appendix B.

8.1.1 Visual Site Inspection Participants

The following personnel were present during the VSI:

Andrea L. Austin

Booz Allen Hamilton, Environmental Scientist

Monte McCue

Plant Manager, Evoqua Water Technologies

Roy Provins Environmental Health & Safety Manager,

Evoqua Water Technologies

Karen Scheuermann EPA Region 9, USEPA, Environmental

Engineer/Project Manager

8.1.2 <u>Summary of the Visual Site Inspection</u>

The RFA VSI included a visual inspection of present and former (where possible) waste streams, identification of SWMUs and AOCs, and collection of information necessary to assess the potential for release of hazardous constituents to the environment. The inspection was conducted on an extremely hot, sunny day. The temperature was approximately 106° Fahrenheit.

The VSI included the following activities:

Development of a detailed site base map which depicts site features and SWMU locations; A facility visual inspection and photographic documentation of all SWMUs and a search for related releases and identification of exposure pathways;

An interview with facility representatives and a review of specific documents and file records on-site to fill the site characterization gaps identified during the preliminary review.

8.2 <u>Purpose of the Second Visual Site Inspections</u>

A second VSI was conducted by the USEPA Project manager in March 2014 (Appendix A). EPA invited the CRIT Environmental Protection Office (EPO) to participate in the VSI, however the CRIT EPO office declined and requested a debriefing, of the EPA findings, on the last day of the VSI. The debriefing took place at the EPO office on Friday, March 14, 2014.

The purpose of the second VSI was to verify and document the conditions of all the units at this facility (HWMUs, SWMUs, and AOCs) since the last VSI was over twelve years old.

8.2.1 Visual Site Inspection Participants

The following personnel were present during the VSI:

Monte McCue Plant Manager, Evoqua Water Technologies Roy Provins Environmental Health & Safety Manager,

Evoqua Water Technologies

"Mike" Mahfouz Zabaneh EPA Region 9, USEPA, Environmental

Engineer/Project Manager

8.2.2 Summary of the Visual Site Inspection

During the second VSI, EPA inspected the facility and documented the conditions of the SWMUs, HWMUs, and AOCs. The Project Manager reviewed the last three (3) years of the facility's operating records, inspection records, and calibration records. The new VSI photographic documentation can be found in Appendix A.

9.0 SUGGESTIONS FOR FURTHER ACTION

The findings of this RFA show that there is no need for immediate corrective action at this facility. The waste management units and AOCs at this facility will be further investigated and if need be and cleaned up at the time of the facility closure.

10.0 REFERENCES

Inspection Records Reviewed During the VSI

1995 to 2001: Benzene NESHAP Quarterly Visual Inspection Records for Process Equipment Assessment for Potential Emissions (Documentation of Mechanical Integrity and Corrective Actions); the Carbon Adsorbers; Drums, Vessels, or Bags in Storage; Recycle and Spent Carbon Tank; Dewater Screw; Afterburner; and the Slurry Piping

1995 to 2001: Daily Inspection Checklist of Structural Features and Storage Facilities; Operating Equipment Except Thermal Treatment; Thermal Treatment System; and Safety Equipment; Satisfactory and Unsatisfactory Categories; Unsatisfactory Checks Require a Work Order; Work Orders 4/26/01 for Cut-off Valve Above Waste Feed Tank T-5 and Oxygen Analyzer for the CEMS

1995 to 2001: Weekly Inspection Checklist of Structural Features and Storage Facilities; Operating Equipment Except Thermal Treatment; Thermal Treatment System; and Safety Equipment; Work Order 09/08/00, Pallet Containing Leaking Drum was Pulled and Dumped into H-2 to Feed Process

1995 to 2001: Monthly Inspection Checklist for Safety Equipment; Pumps and Valves Plant-Wide; and Dust Collection System; Monthly Inspection 12/10/99 and Work Order 12-16-99 for Berm in Hazardous Waste Storage Area—Repaired

1995 to 2001: Carbon Adsorber Replacement Logs for WS-1, WS-2, and WS-3

Other File Material and Facility Records Reviewed for the RFA

April 1, 1990: Business Lease, Lease No. B-1122-CR, Colorado Indian Tribes, U.S. Department of Interior, Bureau of Indian Affairs, and Evoqua Water Technologies

February 1991: Final Environmental Assessment (EA), Carbon Reactivation Plant at the Colorado River Indian Tribes Industrial Park, Parker, Arizona.

April 30, 1991: EPA Form 8700-12, First Notification of Regulated Waste Activity

August 12, 1991: EPA Form 8700-23, Hazardous Waste Permit Application

July 1, 1992: Coating Inspection Services Report on Tank T-8

September 21, 1992: Preliminary Assessment Summary Memorandum submitted to EPA Region 9

February 4, 1993: RCRA Closure Plan for RF-1 and RF-2, Evoqua Carbon-Arizona, Inc.

August 18, 1993: Memorandum from Ray Fox to Larry Bowerman

December 8, 1993: Letter from Evoqua to USEPA Region XI Re: EPA Inspection

February 15, 1994: Determination of Violation, Compliance Order and Notice of Right to Request a Hearing ("Complaint")

February 24, 1994: Inspection Report and Certification Signed by a Registered Professional Engineer for the Spent Carbon Storage Tank and the Furnace Feed Tank and their Ancillary Equipment; That These Tank Systems Have Sufficient Structural Integrity and are Capable of Handling Hazardous Waste

March 1994: RCRA Compliance Evaluation Inspection Report, Westates Carbon-Arizona, Inc., for the October 27, 1993 inspection

June 3, 1994: Letter from EPA Region 9 to Westates Carbon-Arizona Inc., Re: Westates Carbon Hazardous Waste Treatment Facility, in Response to Questions Raised at a Meeting Held on January 6, 1994; Attached Application for Approval, Modification of the Westates-Carbon-Arizona, Inc., Parker Facility

June 17, 1994: Screening Human Health Risk Assessment for the Westates Carbon-Arizona, Inc. Carbon Reactivation Facility in Parker, Arizona with Wind Rose

July 13, 1994: <u>Warning Letter</u>, from Greg Czajkowski, Chief, EPA Region IX, to Jeffery Walsh, Westates Carbon-Arizona, Inc., regarding hazardous waste investigation on March 15, 1994

October 21, 1994: Compliance Evaluation Inspection Report (for October 27, 1993 CEI) March 1994 and Cover Letter from SAIC to EPA Region 9

November 22, 1994: Letter from Westates Carbon-Arizona, Inc. to EPA Region IX; Re: Notice of Implementation of Contingency Plan (spill from the lift station (domestic sewage and scrubber water blowdown, November 10, 1994)

March 9, 1995: RCRA Compliance Evaluation Inspection Report

April 27, 1995: Letter from Westates Carbon-Arizona, Inc. to EPA Region IX Re: Notice of Implementation of Contingency Plan (spill from the lift station (domestic sewage and scrubber water blowdown, April 17, 1995)

July 1995: Consent Agreement and Final Order, Westates Carbon-Arizona, Inc., Docket No. RCRA-09-04-0001, July 1995

May 31, 1995: RCRA Compliance Evaluation Inspection Report

November 1995: RCRA Part B Permit Application, Westates Carbon, Parker, Arizona

September 19, 1995: RCRA Compliance Evaluation Inspection Report

February 20, 1996: Letter from Westates Carbon-Arizona, Inc., to EPA Region IX, Re: Notice of Implementation of Contingency Plan (spill at lift station, ruptured pipe, facility discharge line to the POTW February 15, 1996)

May 8, 1996: Cover letter, Permit and Fact Sheet for the Colorado River Sewage System Joint Venture for the Industrial Wastewater Discharge Permit No.: 1002-96

October 16, 1996: Letter from Westates Carbon-Arizona, Inc., to EPA Region 9, Re: Notice of Change of Ownership and Hazardous Waste Permit Application, Part A, Form 8700-23

December 3, 1996: Subpart CC Compliance Plan, Westates Carbon-Arizona, Inc. Facility, Parker, Arizona

December 19, 1996: Letter from Arlene Kabei, Chief Compliance Monitoring and Enforcement Section, EPA Region IX to Monte McCue, Plant Manager, Westates Carbon-Arizona, Inc. with Appendix of RCRA Compliance Evaluation Inspection Report, December 18, 1996

August 7, 1996: Memorandum from Westates Carbon to Soil Testing File Re: Sampling Plan Prior to Paving "Inside the Fence Area" of the Facility; Testing of Soil Samples Will Consist of Metals, Semi-Volatile Organics, Volatile Organics, Organochlorine Pesticides and PCB's, and Alcohol Scan

August 23, 1996: Memorandum from Westates Carbon to Soil Testing File; Summary of Analytical Results

October 5, 1998: Letter from Monte McCue, Plant Manager, to Felicia Marcus, Regional Administrator, EPA Region IX Re: Westates Carbon-Notice of Implementation of Contingency Plan

January 20, 1999: Purchase Requisition for Fan (Cook #12 CVB, ¾ HP, 460/3 Phase TEFC with Weather Cover, Epoxy Coat, and Spring Hangers) for Ventilation to Afterburner

1999: Letter and EPCRA Form R for 1999, from Roy Provins, EH & S Manager to Daniel Eddy, Jr., Colorado River Indian Tribes

January 26, 2000: Letter from Monte McCue, Plant Manager, US Filter/Westates Carbon to USEPA Region IX; Re: 1999 Air Emission Report for Westates Carbon-Arizona, Inc. Under EPA Potential to Emit Transition Policy for Part 71 Implementation in Indian Country; Applicability of 40 CFR Part 63 Subpart EEE for RCRA Permitting Requirements at Westates

January 31, 2000: Letter from Frances Schultz, Chief, RCRA Enforcement Section to Monte

McCue, Plant Manager, Westates Carbon-Arizona, Inc. and a Copy of the Inspection Report for December 9-10, 1998

June 26, 2000: Letter from Roy Provins to Daniel Eddy, Jr., Chairman, Colorado River Indian Tribes with Attachment of the toxic Release Inventory Report (Form R) for Reporting Year 1999; also furnished to EPCRA Reporting Center

August 22, 2000: Letter from Karen Scheuermann, Permits and Technical Assistance Office, Waste Management Division, EPA Region IX to Bradley Angel, Greenaction; Re: Biennial Reporting System data from 1993, 1995, and 1997 for Westates Carbon

October 19, 2000: Letter from EPA Region IX to Westates Carbon, Re: Applicability of Title V of the Clean Air Act to the Westates Carbon facility

November 8, 2000: DelMar Analytical Laboratory Report for Scrubber Water Blowdown; Documentation for Determining Nonhazardous Waste

November 9, 2000: Open House Questions and Answers about Westates

January 16, 2001, Wastewater Permit Application, Submitted by Westates Carbon to the Colorado River Sewage System Joint Venture, Priority Pollutant Information

January 18, 2001: Letter from Jeff Scott, Acting Director, Waste Management Division, to Monte McCue, Plant Manager, Westates Carbon-Arizona, Inc., and Re: Applicability of 40 CFR Part 63 Subpart EEE for RCRA Permitting Requirements at Westates

February 2001: Enclosure to Letter from Karen Scheuermann, EPA Region IX to Dave Harper, Mojave Elders and Bradley Angel, Greenaction: Westates Carbon Emission Tests, Draft

February 21, 2001: Letter from Monte McCue, Director, Plant Operations, US Filter/Westates Carbon, to Mr. Daniel Eddy, Chairman, Colorado River Indian Tribes, Re: US Filter Westates Carbon RCRA Part B Permit Application

February 22, 2001: Letter from Monte McCue, Director, Plant Operations, US Filter/Westates Carbon, to Karen Scheuermann, USEPA Region IX, Re: Preliminary Internal RF-2 Stack Test Data October 25-26, 2000

February 26, 2001: Letter from US Filter/Westates Carbon, Roy Provins, EH and S Manager to Karen Scheuermann, USEPA Region IX with Appendix of analytical documentation for spills that occurred at Westates Carbon

February 28, 2001: Response Letter with Enclosure from Karen Scheuermann, EPA to Dave Harper, Mojave Elders and Bradley Angel, Director of Greenaction; Summary of Emissions Data From Tests Conducted in 1993/1994 and in 2000

March 13, 2001: Letter from Monte McCue, Director of Plan Operations to Karen Scheuermann, EPA: Clarification of Statements Attached to EPA's Letter dated February 28,

2001 to David Harper, Mojave Elders and Bradley Angel, Greenaction, Regarding the Summary of 1993/1994 Emissions Tests

Spring 2001, covering Year 2000 Water Quality Testing: Third Annual Drinking Water Quality Report, Town of Parker, Public Water System #15-013

July 20, 2001, Baseline Report required per the Centralized Waste Treatment discharge regulations with Appendices of analytical results (pending) for wastewater

August 21, 2001: Letter with Enclosures from EPA to Westates Carbon-Arizona, Inc. requesting submittal of Westates' Air Emissions Test Plan and Risk Assessment Work Plan

September 7, 2001: Letter with enclosures from EPA to the Director of the Environmental Protection Office of the Colorado River Indian Tribes (Elena Etcitty) regarding Superfund wastes received at Westates

September 17, 2001: Letter from Monte McCue to EPA, response to EPA's August 21, 2001 letter requesting submittal of Westates' Air Emissions Test Plan and Risk Assessment Work plan

September 26, 2001: Letter from EPA to Westates Carbon-Arizona, US Filter, Inc., applicability of the centralized waste treatment rules under the Clean Water Act (CWA) 40 CFR 437.2 (c)

November 15, 2001: Letter from EPA to the Chairman of the Colorado River Indian Tribes (Daniel Eddy, Jr.), invitation to Meeting regarding Westates Carbon, November 19, 2001

December 3, 2001: Andrea Austin, Booz Allen Hamilton, personal communication with Karen Scheuermann, EPA Region 9, Environmental Engineer, regarding emissions tests results in 1993 and 1994, and October 2000 for Westates Carbon

December 17, 2001: Letter from EPA to U.S. Filter Westates Carbon with Inspection Report for June 2001 enclosed

January 16, 2002: Newspaper article, Parker Pioneer, Water Use Down In Parker

February 4, 2002: Letter from the EPA Contractor, Booz Allen Hamilton, to Eric Shepard, Attorney General's Office, Colorado River Indian Tribes and to Elena Etcitty, Director Environmental Protection Office, Colorado River Indian Tribes requesting information and data from the CRIT files relevant to the RFA

February 01, 2002 - February 28, 2002: Westates Carbon-Arizona, Inc. POTW Discharge Report

February 19, 2002: Phone Response from Eric Shepard, Attorney General's Office, Colorado Indian Tribes, to EPA Contractor, Booz Allen Hamilton: No additional information or data relevant to the RFA is in the CRIT files

March 12, 2001: E-mail Response from Monte McCue. Additional information and data relevant to the RFA

 $August \ 9, 2002; \ E\text{-mail Response from Monte McCue}. \ Additional information relevant to the RFA$

September 6, 2002: E-mail Response from Monte McCue. Additional information relevant to the RFA

Appendix A

2014 VSI Photographic Documentation with New Unit Names

TABLE - SOLID WASTE MANAGEMENT UNITS VISUAL SITE INSPECTION BY MIKE ZABANEH

MARCH 11, 2014

| SWMU
No. | SWMU
Type/Designation | Picture of Unit |
|-------------|---|-----------------|
| 1 | Bermed concrete in process area (this includes the secondary containment for slurry storage tanks) – LOCATION: East of Warehouse | |
| 2 | Sump by Hopper H-1 LOCATION: South of H-1 | |

TABLE - SOLID WASTE MANAGEMENT UNITS

VISUAL SITE INSPECTION BY MIKE ZABANEH MARCH 11, 2014

| SWMU | SWMU | MARCH 11, 2014 Picture of Unit |
|------|---|---------------------------------|
| No. | Type/Designation | Ficture of Offic |
| 3 | Sump by storage tank, T–9 LOCATION: East of warehouse in between T-9 and RF-2 | SIEME |
| 4 | Recycled motive water storage tank, T–9 LOCATION: East of warehouse on containment | T-9 |

TABLE - SOLID WASTE MANAGEMENT UNITS VISUAL SITE INSPECTION

BY MIKE ZABANEH MARCH 11, 2014

| SWMU | SWMU | Picture of Unit |
|------|--|--|
| No. | Type/Designation | |
| 5 | Rainwater and motive water storage tank, T–12 LOCATION: East of warehouse on containment | This Tank was removed from service in 2002 |
| 6 | Wastewater storage tank, T–11 System LOCATION: East of the warehouse and south of RF -2 | T-11 |

| SWMU
No. | SWMU
Type/Designation | Picture of Unit |
|-------------|---|-----------------|
| 7 | Sump by cooling screw under Venturi scrubber tank LOCATION: East of warehouse beside RF-2 NOTES: Used for washdown and rainwater drainage | |
| 8 | RF–2 scrubber water equalization tank, T- 19 LOCATION: Under RF-2 Structure | T-19 |

| SWMU
No. | SWMU
Type/Designation | Picture of Unit |
|-------------|--|------------------------|
| 9 | Hazardous waste debris bin LOCATION: North of warehouse on asphalt pavement. Location of this unit on the asphalt changes for convenience | CHHT 40041 CleanHarbit |
| 10 | Spent carbon storage warehouse grated trenches and sump LOCATION: Warehouse in containment area | |

| SWMU
No. | SWMU
Type/Designation | Picture of Unit |
|-------------|---|-----------------|
| | Picture of the sump inside the spent carbon storage warehouse (This is part of SWMU 10) | |
| 11 | Hopper H-1 concrete pad LOCATION: Outside Hopper H-1 structure | |

| SWMU
No. | SWMU
Type/Designation | Picture of Unit |
|-------------|--|-----------------|
| 12 | WWTP LOCATION: Inside warehouse | |
| 13 | Wastewater lift station and piping system (old) LOCATION: At the end of access road to plant. Old piping from Tank T-11 to the Lift Station | |

| SWMU
No. | SWMU
Type/Designation | Picture of Unit |
|-------------|---|-----------------|
| 14 | Spent carbon unloading/transfer area asphalt pavement LOCATION: North area of facility | |
| 15 | Satellite Accumulation
Area
LOCATION: North
Side of warehouse | D SPULMENT |

| SWMU
No. | SWMU
Type/Designation | Picture of Unit |
|-------------|--|-----------------|
| 16 | Satellite Accumulation
Area LOCATION: South
Side of drum
containment | SIEVIEW |
| 17 | Satellite Accumulation
Area LOCATION: East of
Control Room | |

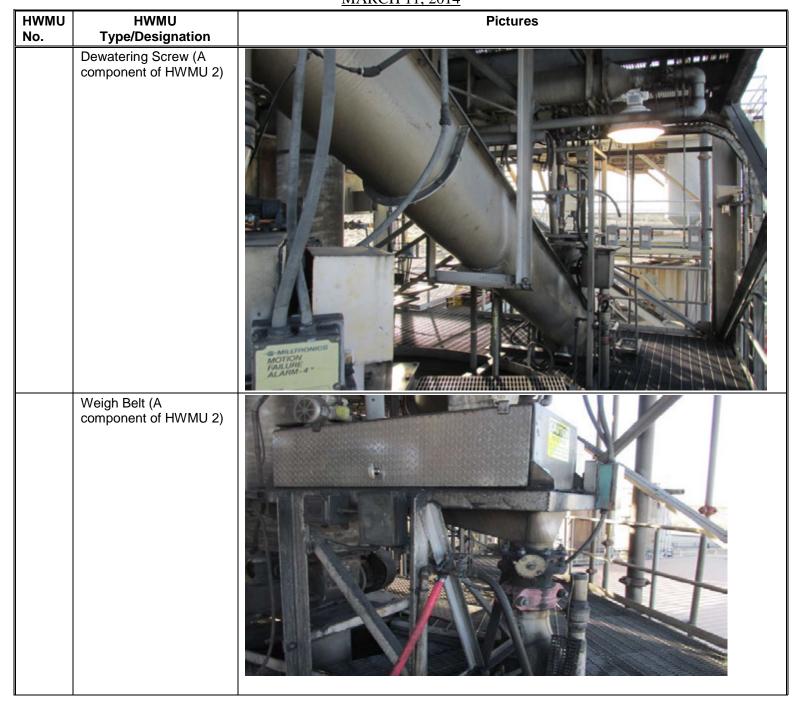
| SWMU
No. | SWMU
Type/Designation | Picture of Unit |
|-------------|---|-----------------|
| 18 | Satellite Accumulation
Area LOCATION: Laboratory in Admin Building | |
| 19 | Satellite Accumulation
Area LOCATION: Underneath the Spent
Carbon Baghouse | |

| HWMU | нwми | Pictures |
|------|---|---|
| No. | Type/Designation | 1.5341.55 |
| 1 | Spent carbon
reactivation furnace -
RF-1 and Associated
Equipment (Dewater
screw) | |
| | LOCATION: South of RF-2 | |
| | Dewatering Screw for
RF-1 (A component of
HWMU 1) | PPANT AND THE PROPERTY OF THE |

| HWMU
No. | HWMU
Type/Designation | Pictures |
|-------------|---|----------|
| 2 | Spent carbon reactivation furnace RF- 2 and Associated Equipment (Dewater Screw, Weigh Belt) LOCATION: East of warehouse | |

TABLE - HAZARDOUS WASTE MANAGEMENT UNITS VISUAL SITE INSPECTION

BY MIKE ZABANEH MARCH 11, 2014



| | _ | MARCH 11, 2014 |
|-------------|--|----------------|
| HWMU
No. | HWMU
Type/Designation | Pictures |
| 3 | 3 RF-1 Air pollution contr | ol equipment |
| | Afterburner (A component of HWMU 3) | |
| | Venturi scrubber (A component of HWMU 3) | |

TABLE - HAZARDOUS WASTE MANAGEMENT UNITS VISUAL SITE INSPECTION BY MIKE ZABANEH MARCH 11, 2014

| HWMU
No. | HWMU
Type/Designation | Pictures |
|-------------|--------------------------|----------|
| | Packed bed scrubber | |

| HWMU
No. | HWMU
Type/Designation | Pictures |
|-------------|---|-----------|
| | Emissions stack (was removed. This is a picture of where it was.) | |
| 4 | RF–2 Air pollution control Afterburner | equipment |

TABLE - HAZARDOUS WASTE MANAGEMENT UNITS VISUAL SITE INSPECTION BY MIKE ZABANEH MARCH 11, 2014

| HWMU
No. | HWMU
Type/Designation | Pictures |
|-------------|--------------------------|----------|
| | Venturi scrubber | |
| <u>l</u> | | |

| HWMU
No. | HWMU
Type/Designation | Pictures |
|-------------|---|---------------------|
| | Packed bed scrubber and Wet electrostatic precipitator (WESP) | Packed Bed Scrubber |
| | Induced draft fan | |

TABLE - HAZARDOUS WASTE MANAGEMENT UNITS VISUAL SITE INSPECTION BY MIKE ZABANEH MARCH 11, 2014

| HWMU
No. | HWMU
Type/Designation | Pictures |
|-------------|---|----------|
| | Emissions stack | |
| 5 | Spent carbon unloading hopper H-1 LOCATION: North end of facility on containment | |

| HWMU
No. | HWMU
Type/Designation | Pictures |
|-------------|--|----------|
| 6 | Spent carbon unloading hopper H-2 LOCATION: Inside warehouse facing east wall | |
| 7 | Hopper air pollution control equipment piping and baghouse LOCATION: North end of facility on containment | |

TABLE - HAZARDOUS WASTE MANAGEMENT UNITS VISUAL SITE INSPECTION BY MIKE ZABANEH MARCH 11, 2014

| HWMU
No. | HWMU
Type/Designation | Pictures |
|-------------|--|----------|
| 8 | Spent carbon slurry and recycle water transfer system LOCATION: Inside warehouse on containment | |
| | LOCATION: Outside on concrete pad | |

| HWMU
No. | HWMU
Type/Designation | Pictures |
|-------------|---|----------|
| 9 | Spent carbon storage warehouse LOCATION: Inside warehouse | |
| 10 | Spent carbon slurry storage tank, T–1 LOCATION: East of warehouse within secondary containment | |

| | | MARCH 11, 2014 |
|-------------|--|----------------|
| HWMU
No. | HWMU
Type/Designation | Pictures |
| 11 | Spent carbon slurry storage tank, T–2 LOCATION: East of warehouse within secondary containment | T-6 1-2 |
| 12 | Spent carbon slurry storage tank, T–5 LOCATION: East of warehouse within secondary containment NOTES: | Ti-51 |

| HWMU
No. | HWMU
Type/Designation | Pictures |
|-------------|--|----------|
| 13 | Spent carbon slurry storage tank, T–6 LOCATION: East of warehouse within secondary containment NOTES: | T-6 1-2 |

| HWMU
No. | HWMU
Type/Designation | Pictures |
|-------------|--|------------------|
| 14 | Furnace Feed System Tank T-8 and Ancillary Equipment LOCATION: RF-1 Structure | SPRII CARBUIT TO |
| 15 | T-18 and Ancillary Equipment LOCATION: RF-2 structure | |

TABLE - HAZARDOUS WASTE MANAGEMENT UNITS VISUAL SITE INSPECTION BY MIKE ZABANEH

MARCH 11, 2014

| HWMU
No. | HWMU
Type/Designation | Pictures |
|-------------|---|----------|
| 16 | Wastewater conveyance piping to wastewater treatment tank LOCATION: East of RF-2 structure | |
| 17 | Spent carbon storage warehouse barrel washer LOCATION: Next to H-2 in warehouse | |

TABLE - HAZARDOUS WASTE MANAGEMENT UNITS VISUAL SITE INSPECTION BY MIKE ZABANEH

MARCH 11, 2014

| HWMU | HWMU | Pictures |
|-------------|---|--|
| No . | Type/Designation Carbon adsorber - | For in an anti-day and a sint an arrange |
| 10 | PV1000 | Equipment does not exist anymore |
| | LOCATION: | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| 19 | Carbon adsorber WS-1. | |
| | These are two adsorbers in series (lead – lag | |
| | configuration) LOCATION: Beside | |
| | spent carbon storage tank | Les Milles |
| | a | SIEMENS SIEME |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| HWMU | HWMU | Pictures |
|---------------|--|----------|
| No. 20 | Type/Designation Carbon adsorber WS-2 | |
| | LOCATION: Beside
Hopper H-1 | |
| 21 | Carbon adsorber WS-3 LOCATION: Beside RF-2 | SIEME |

TABLE - HAZARDOUS WASTE MANAGEMENT UNITS VISUAL SITE INSPECTION BY MIKE ZABANEH MARCH 11, 2014

| HWMU | HWMU | Pictures |
|------|--|---------------------------------|
| No. | Type/Designation | |
| 22 | Slurry transfer inclined plate settler tank LOCATION: Adjacent to the venturi scrubber | Equipment doesn't exist anymore |
| 23 | Scrubber recycle tank T-
17
LOCATION: Beside RF-
1 | Equipment doesn't exist anymore |
| 24 | Filter press LOCATION: Next to scrubber system for RF-1 | Equipment doesn't exist anymore |
| 25 | New Facility Discharge Piping System LOCATION: New piping bypasses Lift Station to POTW | |

| No. | AOC Type/Designation/Location | Management Requirements at Closure |
|-----|---|------------------------------------|
| 1 | Spent carbon unloading and transfer area. LOCATION: | |
| 2 | Tank area concrete containment pad LOCATION: | |

| No. | AOC Type/Designation/Location | Management Requirements at Closure |
|-----|---|------------------------------------|
| 3 | Receiving area/pad LOCATION: | |
| 4 | Hopper H-1 loading/unloading area LOCATION: | |

| No. | AOC Type/Designation/Location | Management Requirements at Closure |
|-----|--|------------------------------------|
| 5 | Hopper H-2 loading/unloading area LOCATION: | |
| 6 | Spent carbon storage warehouse LOCATION: | |

| No. | AOC | Management Requirements at Closure |
|-----|--|-------------------------------------|
| | Type/Designation/Location | · |
| 7A | Furnace feed system –
Dewatering screw | |
| | LOCATION: | AMLIFICANTS PACTION FAILURE ALARM-4 |
| 7B | Furnace feed system – Weigh Belt LOCATION: | |

| No. | AOC Type/Designation/Location | Management Requirements at Closure |
|-----|---|--|
| 8 | Recycled motive water tank T-9 LOCATION: | |
| 9 | Rainwater, dewatering screw, and motive water tank T-12 LOCATION: Was removed. Doesn't exist anymore | Tank was removed. Doesn't exist anymore. |

| No. | AOC Type/Designation/Location | Management Requirements at Closure |
|-----|--|------------------------------------|
| 10 | Spent carbon storage warehouse barrel washer LOCATION: | |
| 11 | Bermed containment area in process area LOCATION: | |

| | T | |
|-----|--|------------------------------------|
| No. | AOC Type/Designation/Location | Management Requirements at Closure |
| 12 | Sump by unloading hopper H-1 LOCATION: | |
| 13 | Sump by tank T-9 LOCATION: | SIENE |

| No. | AOC Type/Designation/Location | Management Requirements at Closure |
|-----|---|------------------------------------|
| 14 | Spent carbon storage tanks and carbon adsorbers LOCATION: | |

Appendix B

2003 VSI Photographic Documentation with Old Unit Names

Photograph No.: F-1

Photographer: Andrea Austin

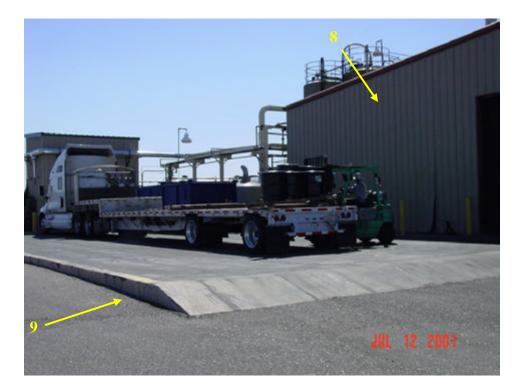
SWMU No.: 9

SWMU Name: Transfer Area

Containment Pad

Date: 07/12/2001

SWMU Description: Concrete loading pad with secondary containment berm adjacent to the spent carbon storage warehouse (SWMU8). No evidence of spills.



Photograph No.: F-2

Photographer: Andrea Austin

SWMU No.: 9

SWMU Name: Transfer Area

Containment Pad

Date: 07/12/2001

SWMU Description: Concrete loading pad adjacent to the spent carbon storage warehouse (SWMU 8). No evidence of spills.



Photograph No.: F-3

Photographer: Andrea Austin

SWMU No.: 20

SWMU Name: Hazardous Waste

Debris Bin

Date: 07/12/2001 SWMU Description: Debris bin at spent carbon transfer area containment (SWMU 9); cracks in concrete filled in with a polyresin, Sikadur 35. Debris such as personal protective equipment is stored for less than 90 days. There are three areas inside the spent carbon storage warehouse where the debris is accumulated before putting into the dumpster. Debris bin is closed at all times except to add debris. No evidence of any spill.



Photograph No.: F-4

Photographer: Andrea Austin

SWMU No.: 8

SWMU Name: Spent Carbon

Storage Warehouse 07/12/2001

Date: 07/12/2001
SWMU Description: About 10 rows plus 10-20 bag filter canisters. Tightly closed / labeled 55-gallon drums of hazardous and non-hazardous waste.
Authorized to store 100,000 gallons (approximately 1,818 drums of hazardous waste). Drums are stacked on and separated by wooden pallets. There are four drums per pallet therefore using a total of twenty-four pallets. Crack in floor repaired with a polyresin, Sikadur 35[®]. Grated trenches collect any spill.



Photograph No.: F-5

Photographer: Andrea Austin

SWMU No.: 8

SWMU Name: Spent Carbon

Storage Warehouse

Date: 07/12/2001

SWMU Description: Storage area for spent carbon. Spills are washed into trenches that drain to a sump and vault (SWMU 21). Water in sump is recycled to T-9 (SWMU 16) and T-12 (SWMU 17), the water recycle storage tank. Water was observed on the floor from recent wash-out of empty drums. White vessels are filter canisters, each containing approximately 1000 (?) lbs of spent carbon.



Photograph No.: F-6

Photographer: Andrea Austin

SWMU No.:

SWMU Name: Spent Carbon

Unloading Hopper

(H-2)

Date: 07/12/2001

SWMU Description: Drums of spent carbon are emptied into this feed hopper. Forty percent of waste is handled at H-2. The capacity of H-2 is 500 lbs. No evidence of spills were observed.



Photograph No.: F-7

Photographer: Andrea Austin

SWMU No.: 7

SWMU Name: Carbon Slurry and Recycle Water

Transfer System

Date: 07/12/2001

SWMU Description: Piping conveyance system from unloading hopper (H-2) (SWMU 5) to spent carbon slurry

storage tanks (SWMUs 10 through 13).





Photograph No.: F-8

Photographer: Andrea Austin

SWMU No.: 5

SWMU Name: Spent Carbon Unloading Hopper

(H-2)

Date: 07/12/2001

SWMU Description: Piping behind H-2 that draws organic vapors and particulates from spent carbon. The pipe leads to the baghouse and carbon adsorber WS-2 (SWMU 30).

Photograph No.: F-9

Photographer: Andrea Austin

SWMU No.: 21

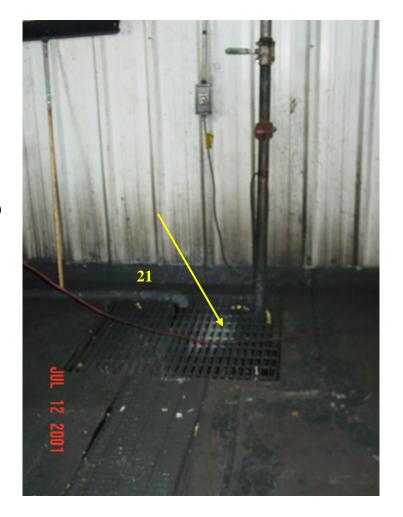
SWMU Name: Spent Carbon Storage Warehouse:

Metal Grated Trenches, Sump, and

Vault.

Date: 07/12/2001

SWMU Description: Grating over trenches for collecting water used to wash out empty drums at the barrel washer (SWMU 22). Also the collection point for washdown of the spent carbon transfer area containment pad (SWMU 9) just outside the warehouse entrance. The liquid is collected in the sump, then pumped to Tank T-9 (SWMU 16) or Tank T-12 (SWMU 17). Crack in concrete has been sealed with a polyresin, Sikadur 35[®]. No history of build-up of liquid in the sump and vault. No evidence of release around the sump and vault in the warehouse.



Photograph No.: F-10

Photographer: Andrea Austin

SWMU No.: 22

SWMU Name: Spent Carbon

Storage Warehouse Barrel Washer 07/12/2001

Date: 07/12/2001 SWMU Description: Barrel washer adjacent to H-2 (SWMU 5). Water used to rinse empty drums drains into trenches and flows to the sump and vault (SWMU 21) (Photograph No. F-9). From there the water is recycled to tank T-9 (SWMU 16) or (SWMU 17) T-12. Water observed on the floor from recent wash-out of empty drums.



Photograph No.: F-11

Photographer: Andrea Austin

SWMU No.: 21

SWMU Name: Spent Carbon Storage Warehouse:

Grated Trenches

Date: 07/12/2001

SWMU Description: The grated trenches in the spent carbon storage warehouse are present to capture any spills. The dark wet area on the concrete is water from recently washing out empty drums. The trenches lead to the sump and vault and transport the wastewater via a pipe system to Tank T-9 (SWMU 16) and T-12 (SWMU 17) where water is recycled.



Photograph No.: F-12

Photographer: Andrea Austin

SWMU No.: 8

SWMU Name: Spent Carbon

Storage

Warehouse

Date: 07/12/2001 SWMU Description: Containment berm separating the container storage area from the maintenance area.



Photograph No.: F-13

Photographer: Andrea Austin

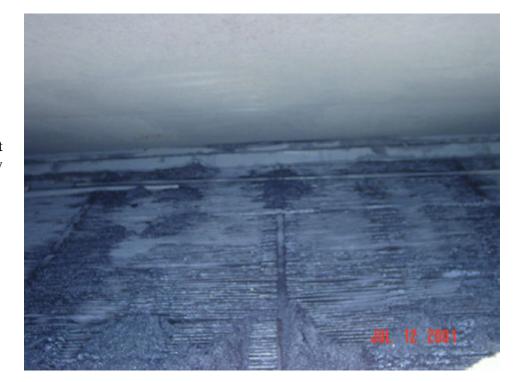
SWMU No.: 4

SWMU Name: Unloading

Hopper (H-1)

Date: 07/12/2001

SWMU Description: Inside unloading hopper (H-1); the grate onto which spent carbon is unloaded. Approximately sixty percent of the spent carbon is handled at H-1. The capacity of H-1 is 5,000 lbs. Residual spent carbon was observed on the grate of H-1.



Photograph No.: F-14

Photographer: Andrea Austin

SWMU No.: 4

SWMU Name: Connection Pipe

for Slurry Trucks to Unload to

Date:

07/12/2001

SWMU Description: Slurry Trucks unload by connecting to pipe. Spent carbon falls through grate into the hopper; eductor at the bottom moves the carbon into slurry transfer system (SWMU 7).



Photograph No.: F-15

Photographer: Andrea Austin

SWMU No.: 4 and 6 SWMU Name: Hopper Air

Pollution Equipment

07/12/2001 Date: SWMU Description: Outside of

unloading hopper (H-1). Heavy rubber strips/curtain minimizes escape of

dust/particulates and organic vapors during unloading of spent carbon. Water was observed on the transfer area containment pad (SWMU 9). There is a fan that pulls air off H-1, drawing organic vapors and particulates from spent carbon in the hopper. Air pollution control equipment draws particulates and organic vapors; piping leads to the baghouse and then to a carbon adsorber. Silver pipes draw from H-1; white pipes draw from H-2.



Photograph No.: F-16

Photographer: Andrea Austin

SWMU No.:

SWMU Name: Air Pollution Control Equipment

and Piping to the Baghouse for H-1

and H-2

07/12/2001 Date:

SWMU Description: Unloading hopper H-1 showing silver piping leading to air pollution control equipment (SWMU 6). Bags of reactivated carbon (nonhazardous) are staged adjacent to H-1; used for on-site carbon adsorber canisters.



Photograph No.: F-17

Photographer: Andrea Austin Location: Paved Area

> Outside Process Area. Not a

SWMU.

Date: 07/12/2001

Description: Staging area for empty filter canisters to be recycled offsite. No evidence of any spills. This area is not used to store waste, and is not within a containment pad. White filter canisters have 1000 lb. spent carbon capacity; blue filter canisters have 2000 lb. spent carbon capacity.



Photograph No.: F-18

Photographer: Andrea Austin

SWMU No.: 17

SWMU Name: Motive Water

and Rainwater Collection Tank

(T-12)

Date: 07/12/2001 SWMU Description: Tank T-12 receives excess recycle water, rain water, and washdown water. The water from this tank is recirculated to the slurry piping system. No evidence of release. Tank and pipe system is closelooped. Blue tank is carbon adsorber PV 50. This adsorber filters recycle water that is discharged to the POTW.



Photograph No.: F-19

Photographer: Andrea Austin SWMU Nos.: 10, 11, 12, 13,

and 29

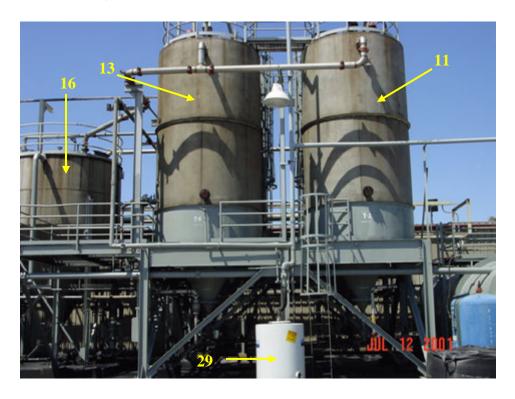
SWMU Name: Spent Carbon

Slurry Storage Tanks: T-1, T-2, T-5, T-6, and

Carbon Adsorber WS-1 (SWMU

29).

Date: 07/12/2001 SWMU Description: Four spent storage tanks; Tank T-1 (SWMU 10) is behind Tank T-2 (SWMU 11); Tank T-5 (SWMU 12) is behind Tank T-6 (SWMU 13). Carbon adsorber tank (WS-1) [the white carbon canister], used to control volatile emissions from tanks T-1, T-2, T-5, T-6, T-9 (SWMU 16), and T-12 (SWMU 17). WS-1 is



emptied into the spent carbon unloading hopper (H-1) (SWMU 4) when the carbon inside reaches its adsorption capacity. Tank T-9 (SWMU 16) also appears in the photo.

Photograph No.: F-20

Photographer: Andrea Austin

SWMU No.: 16

SWMU Name: Recycled Motive Water Storage

Tank (T-9)

Date: 07/12/2001

SWMU Description: Motive water for creating a carbon slurry is supplied from Tank T-9 and moves the spent carbon through the pipe conveyance system. Bermed containment area in the Process Area (SWMU 23) is interconnected with the bermed area for the Transfer Containment Area (SWMU 9). No evidence of release to the ground/concrete. Tank T-6 (SWMU 13) also appears in the photo.



Photograph No.: F-21

Photographer: Andrea Austin

SWMU No.: 23

SWMU Name: Bermed Containment Area in

Process Area

Date: 07/12/2001

SWMU Description: Concrete pad and bermed secondary containment area under platforms for the reactivation furnaces. Cracks have been sealed with a polyresin,

Sikadur 35[®]. No evidence of a spill.



Photograph No.: F-22

Photographer: Andrea Austin

SWMU No.: 24

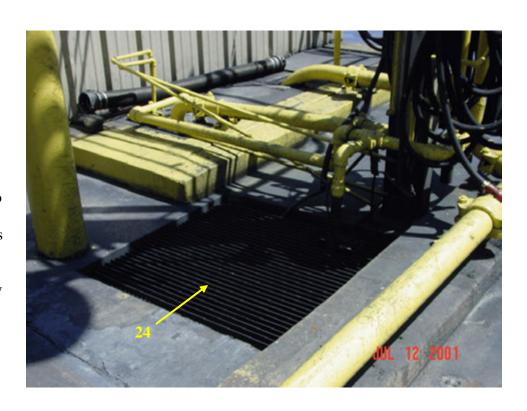
release to the ground.

SWMU Name: Sump by

Unloading Hopper No. 1

(H-1)

Date: 07/12/2001 SWMU Description: Sump collects wastewater such as washdown water from trucks unloading spent carbon into unloading hopper (H-1) (SWMU 4), and from (SWMU 9). Captured liquid is then transferred to Tank T-9 (SWMU 16) and T-12 (SWMU 17) via a closed piping system. No evidence of overflow



Photograph No.: F-23

Photographer: Andrea Austin SWMU No.: 2, 3, and 31

SWMU Name: SWMU 2: Reactivation Furnace

No. 2 (RF-2)

SWMU 3: Air Pollution Control

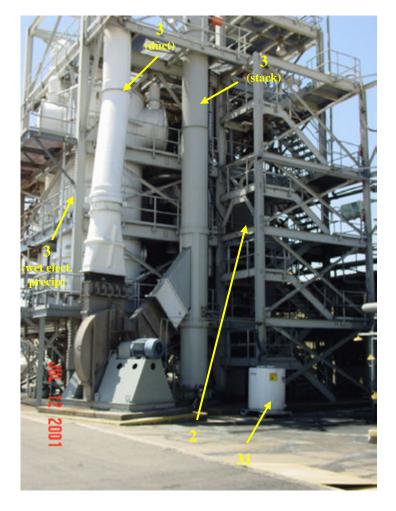
Equipment

SWMU 31: Carbon Adsorber No. 3

(WS-3)

Date: 07/12/2001

SWMU Description: RF-2 (SWMU 2) is the gray vessel at the center of the photograph, inside the platform. On the left-hand side is the wet electrostatic precipitator. The wide white duct comes from the top of the wet electrostatic precipitator and goes to the bottom of the stack for RF-2. The small carbon canister (SWMU 31) at the foot of the platform is the carbon adsorber used to control volatile emissions from Tank T-18 (SWMU 15), the feed tank to the reactivation furnace, RF-2. No evidence of release was observed.



Photograph No.: F-24

Photographer: Andrea Austin SWMU No.: 25 and 31 SWMU Name: Sump by Tank

T-9 and Carbon Adsorber No. 3

(WS-3)

Date: 07/12/2001 SWMU Description: The trench and sump drain the bermed containment area (SWMU 23) of water or spills. Small pools of water were observed adjacent to trench. Rainwater also flows into trench and sump to be conveyed to Tank T-12 (SWMU 16) or T-9 (SWMU17).



Photograph No.: F-25

Photographer: Andrea Austin

SWMU No.: 23

SWMU Name: Repaired

Containment

Area

Date: 07/12/2001 SWMU Description: Cracks in the Process Area have been filled in and patched with a polyresin, Sikadur 35[®].



Photograph No.: F-26

Photographer: Andrea Austin

SWMU No.: 19

SWMU Name: RF-2 Scrubber

Water

Equalization

Tank T-19

Date: 07/12/2001 SWMU Description: Treatment of

scrubber water from air pollution equipment. Cracks near Tank T-19 have been sealed with a polyresin, Sikadur 35[®]. No evidence of a release.



Photograph No.: F-27

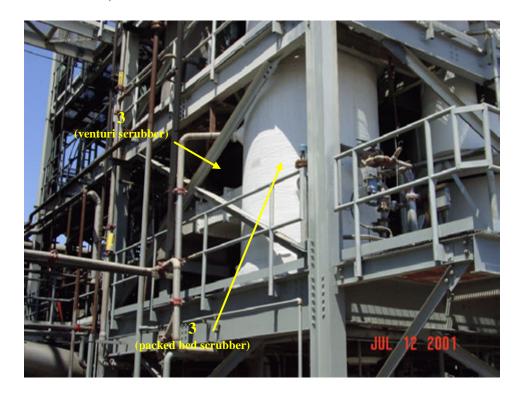
Photographer: Andrea Austin

SWMU No.: 3

SWMU Name: Air Pollution

Control Equipment (RF-2)

Date: 07/12/2001 SWMU Description: Left vessel (brown/gray) is the venturi scrubber. White vessel on the right is the packed bed scrubber. The venturi scrubber is designed to remove particulates, and the packed bed scrubber is designed to remove acid gases from the gases leaving the afterburner. Equipment in excellent condition. No evidence of leaks in the air pollution control



Photograph No.: F-28

equipment.

Photographer: Andrea Austin

SWMU No.: 26

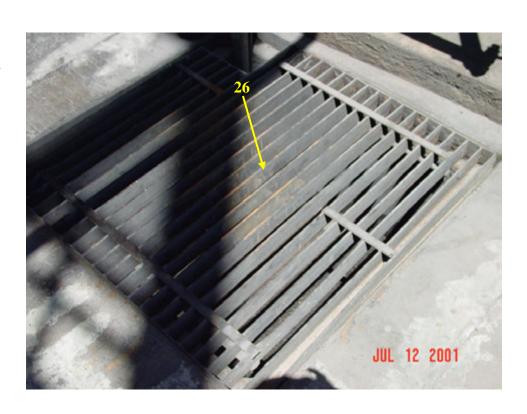
SWMU Name: Sump under the

Venturi Scrubber

by cooling screw

Date: 07/12/2001 SWMU Description: Collects spilled

process water and rain water from the process containment area. Water is recycled via piping back to Tank T-9 (SWMU 16) or T-12 (SWMU 17). No evidence of overflow from the sump.



Photograph No.: F-29

Photographer: Andrea Austin

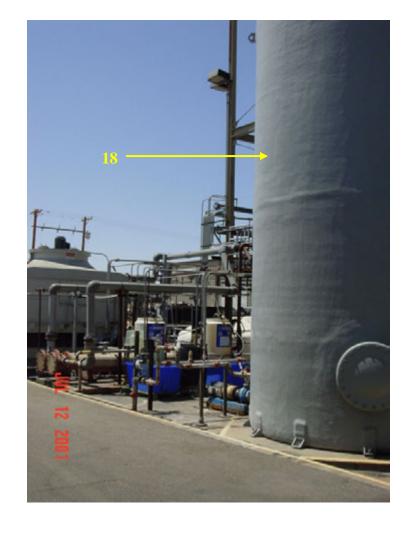
SWMU No.: 18

SWMU Name: Wastewater Storage Tank (T-11)

Date: 07/12/2001

SWMU Description: Wastewater going to the Publicly Owned Treatment Works (POTW) goes through Tank T-11. All cracks in secondary containment have been

repaired with a polyresin, Sikadur 35[®].





Photograph No.: F-30

Photographer: Andrea Austin

SWMU No.:

SWMU Name: Reactivation Furnace No. 1 (RF-1)

Date: 07/12/2001

SWMU Description: The idle RF-1 within the platform structure on secondary containment in the Process Area. No evidence of release of hazardous constituents to the

containment area under the platform.

Photograph No.: F-31

Photographer: Andrea Austin

SWMU No.: 27

SWMU Name: Wastewater

Conveyance
Piping to
Wastewater
Treatment Tank

Date: 07/12/2001

SWMU Description: Heat Exchanger,

cooling tower, and piping for

wastewater discharged to the local

POTW. The water originates from T-11 (SWMU 18).



Photograph No.: F-32

Photographer: Andrea Austin

SWMU No.: 28

SWMU Name: Wastewater Lift

Station

Date: 07/12/2001

SWMU Description: At entrance road

to the facility on the eastside. Wastewater treated onsite was

Wastewater treated onsite was conveyed by piping system to this lift station where the wastewater was lifted/pumped to the POTW. No evidence of release, such as stained soil, was observed. Lift station not used since early 1996.



Photograph No.: F-33

Photographer: Andrea Austin Location: Entrance to

Facility. Not a

SWMÚ.

Date: 07/12/2001

Description: At road entering plant (off Mutahar Street), monitoring well for POTW testing for discharge limits, located adjacent to the Lift

Station.



Photograph No.: F-34

Photographer: Andrea Austin Location: Eastside of the

Facility.

07/12/2001 Date: SWMU Description: Facility at entrance gate, off of Mutahar Street

(road entering plant).



Photograph No.: F-35

Photographer: Andrea Austin
Direction: Northeast
Name: Main Office
Date: 07/12/2001
Description: Entrance to the
Westates Carbon Reactivation Facility.
Black bags at right (background) contain reactivated carbon.



Photograph No.: F-36

Photographer: Andrea Austin

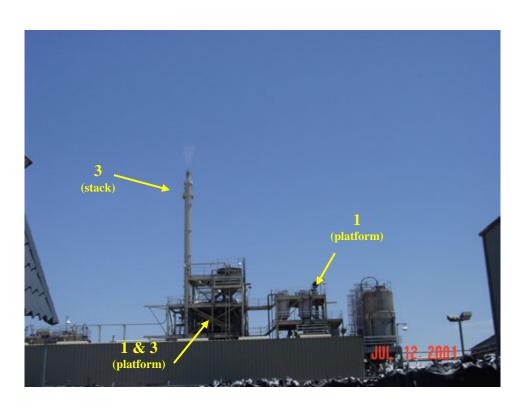
SWMU No.: 1, 2, 3 SWMU Name: Air Pollution

Control Equipment

Date: 07/12/2001

SWMU Description: Facing

Northwest, platform structures for RF-1 and RF-2 and air pollution control equipment. (SWMUs 1, 2, and 3 not clearly visible.) Exhaust from the stack is barely visible. Tanks to the right of RF-1 platform hold reactivated carbon. Black Bags of reactivated carbon visible in foreground.



Photograph No.: F-37

Photographer: Andrea Austin SWMU No.: 1, 2, and 3 (not

visible)

SWMU Name: Platform structure

for RF-2 and RF-

1 and air

pollution control

equipment

(SWMU 3) Stack

on the

Reactivation Furnace No. 2

(RF-2).

Date: 07/12/2001

SWMU Description: Exhaust emitted

from RF-2 air pollution control equipment via the stack is barely

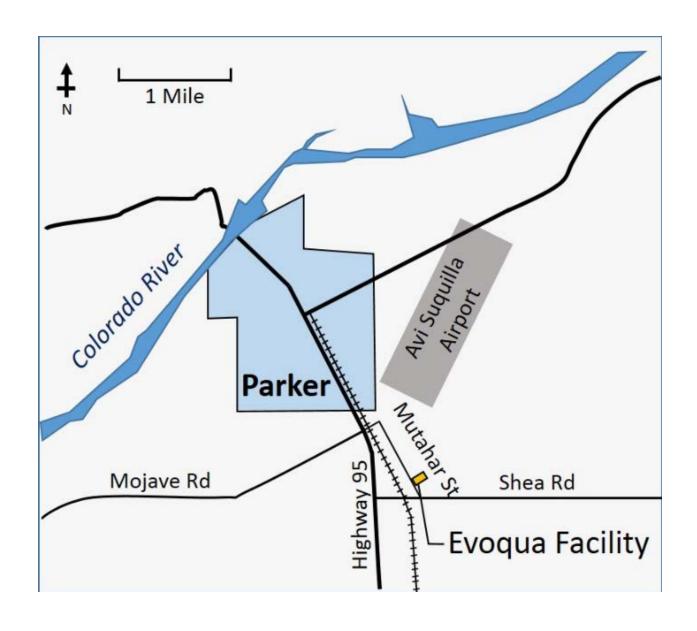
visible.



END OF PHOTOGRAPHIC DOCUMENTATION

Appendix C

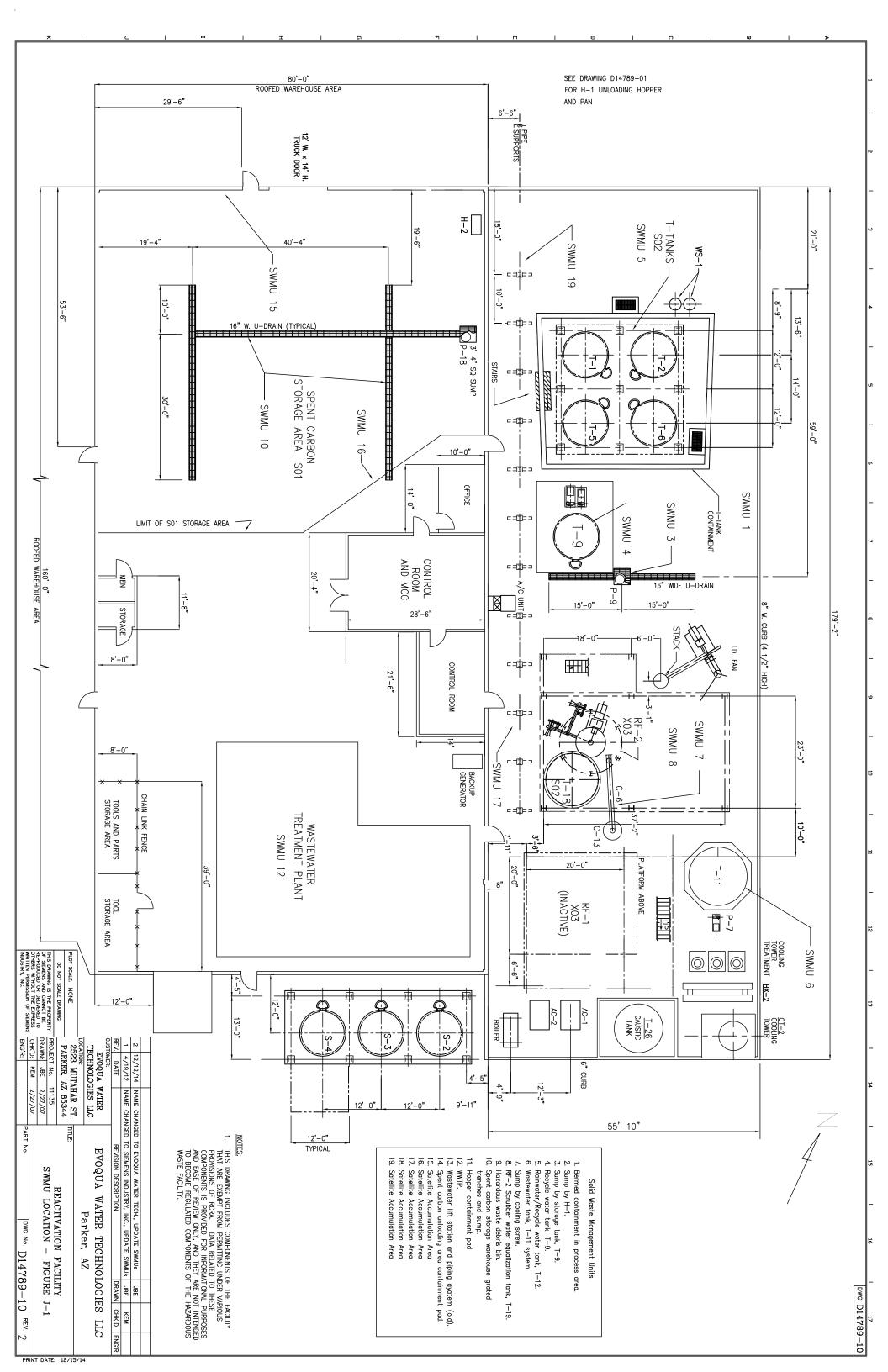
Site Location Map

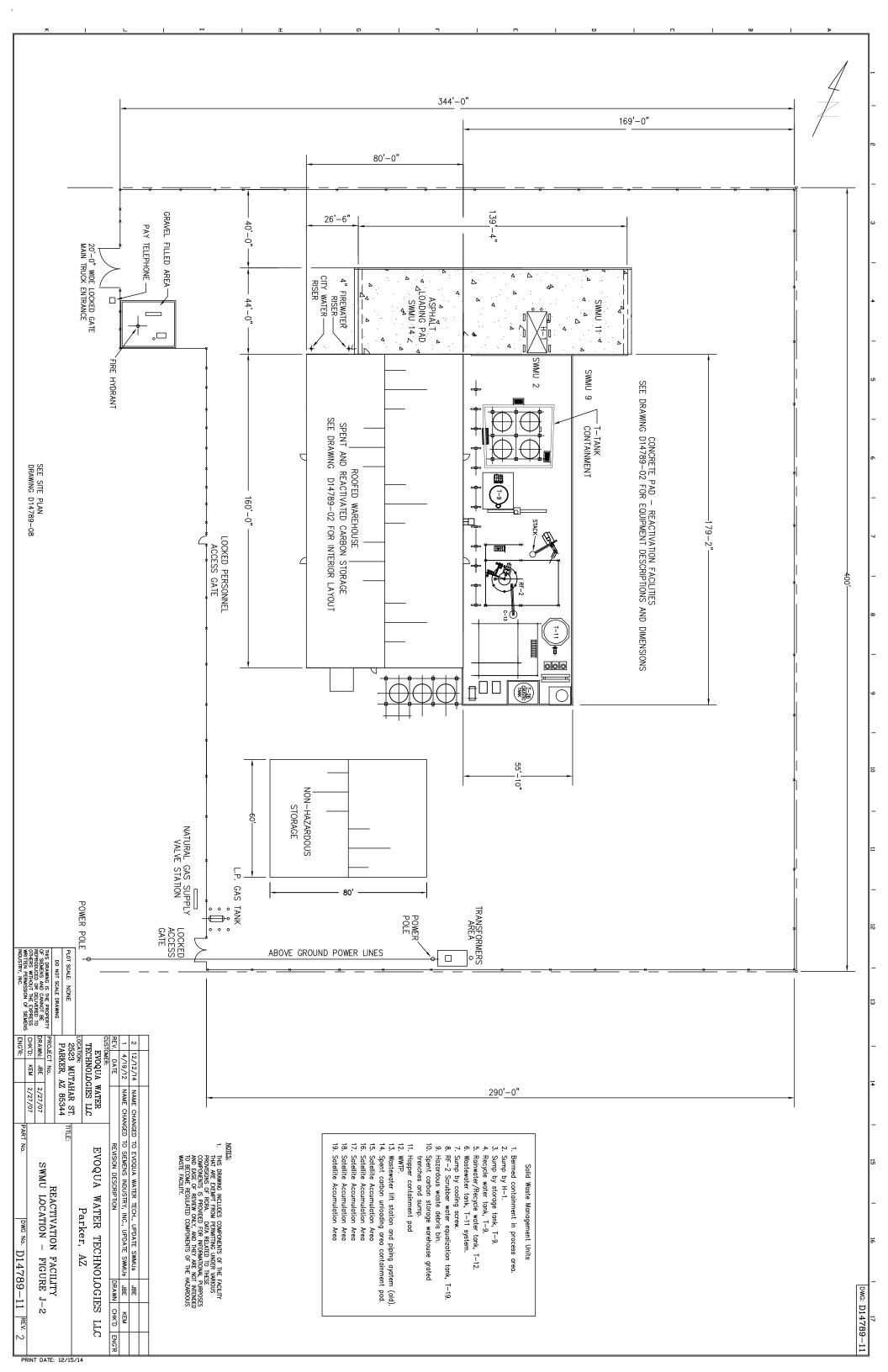


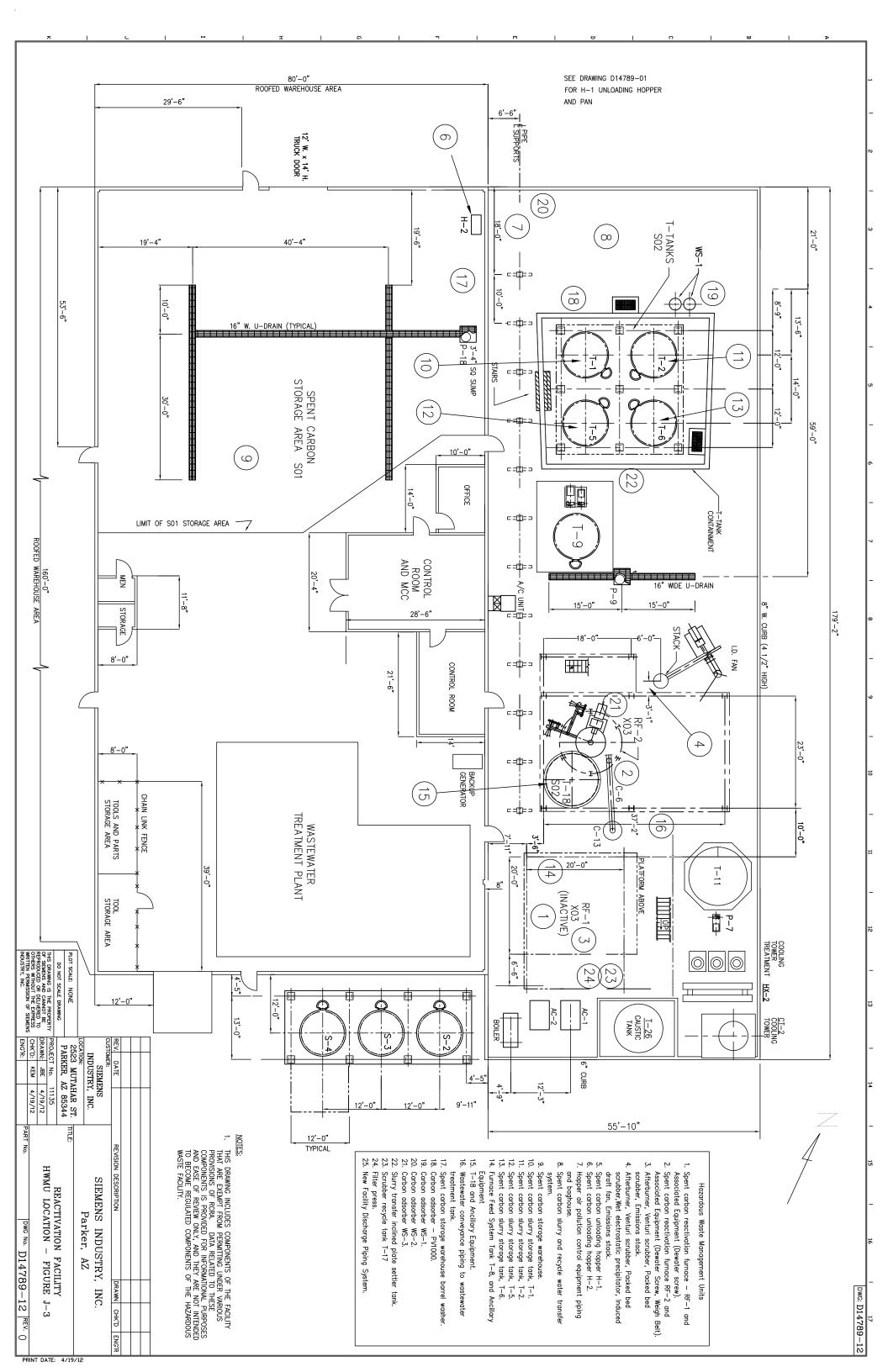
Evoqua Facility Map

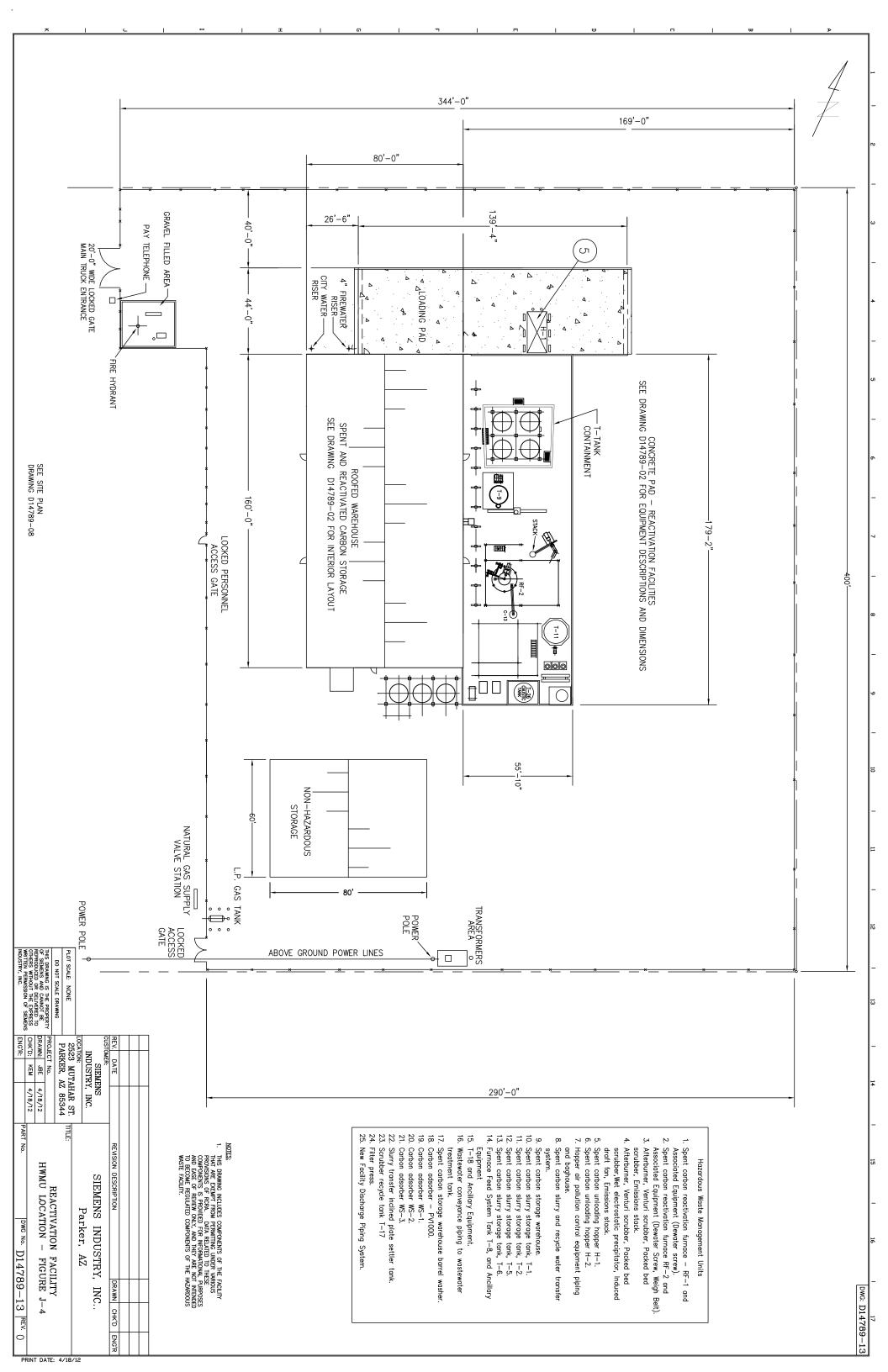
Appendix D1

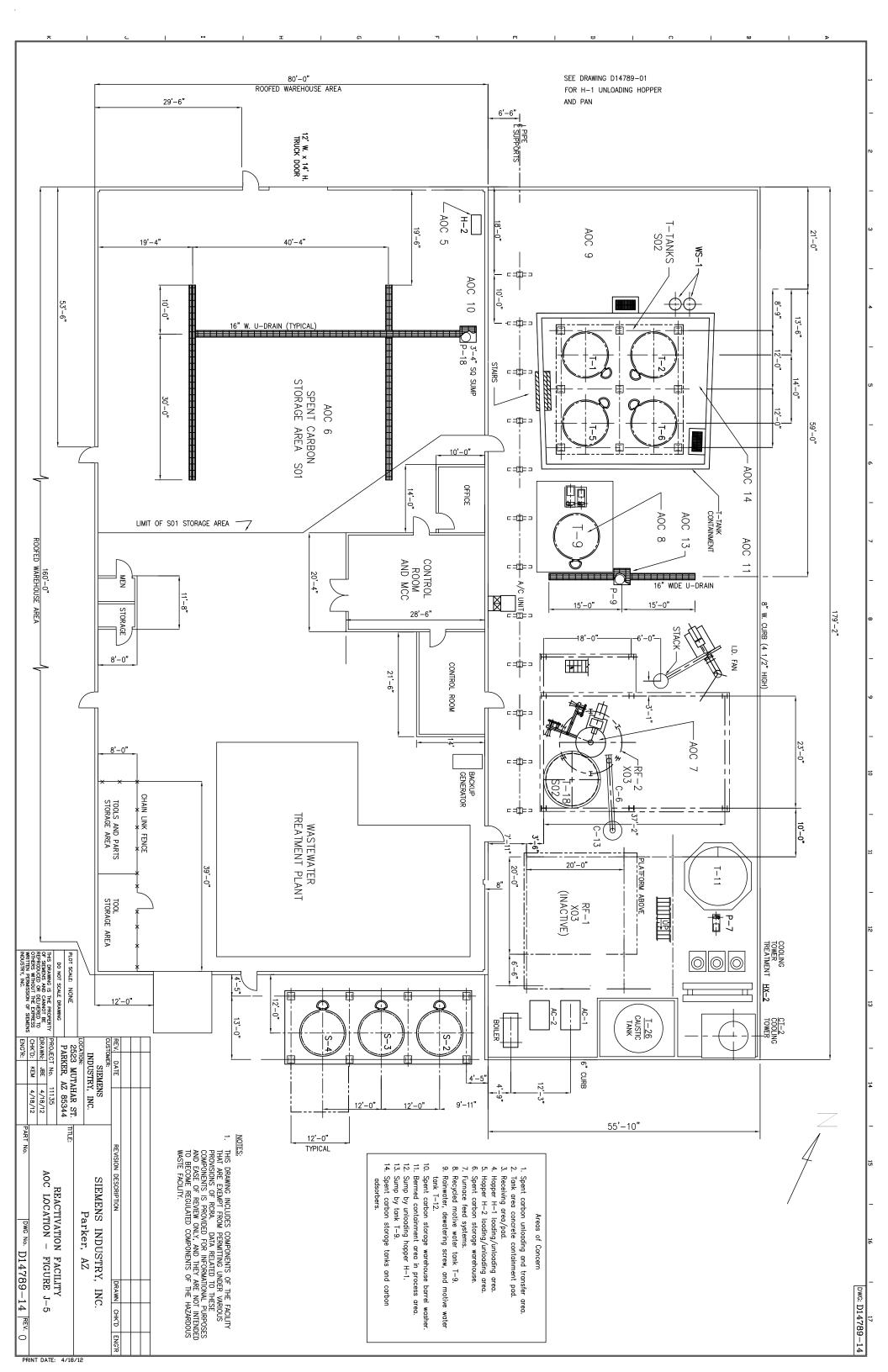
HWMUs, SWMUs, and AOC Location Map (New Unit Names) (Figures J-1 to J-7 of Application Section J)

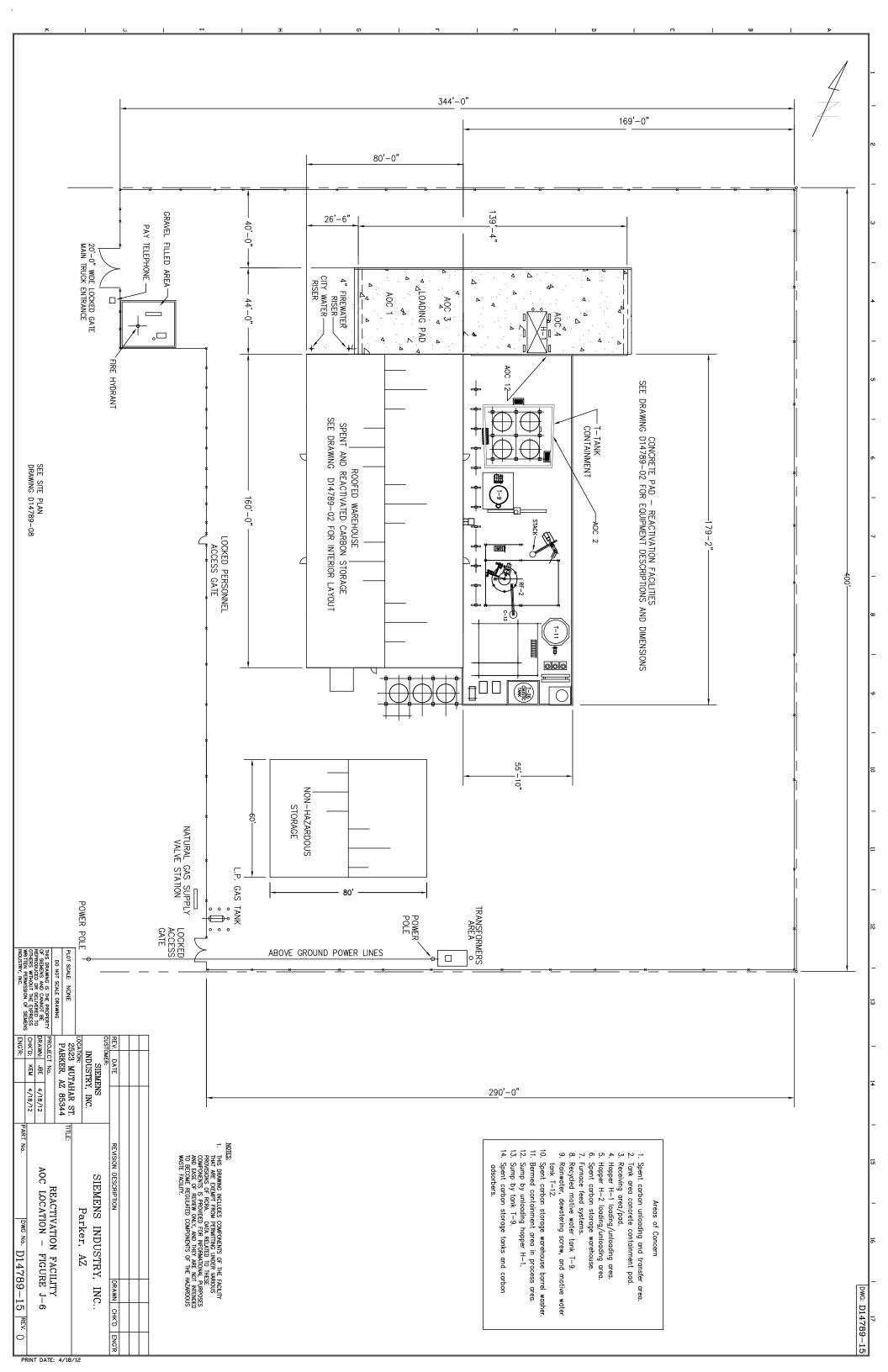


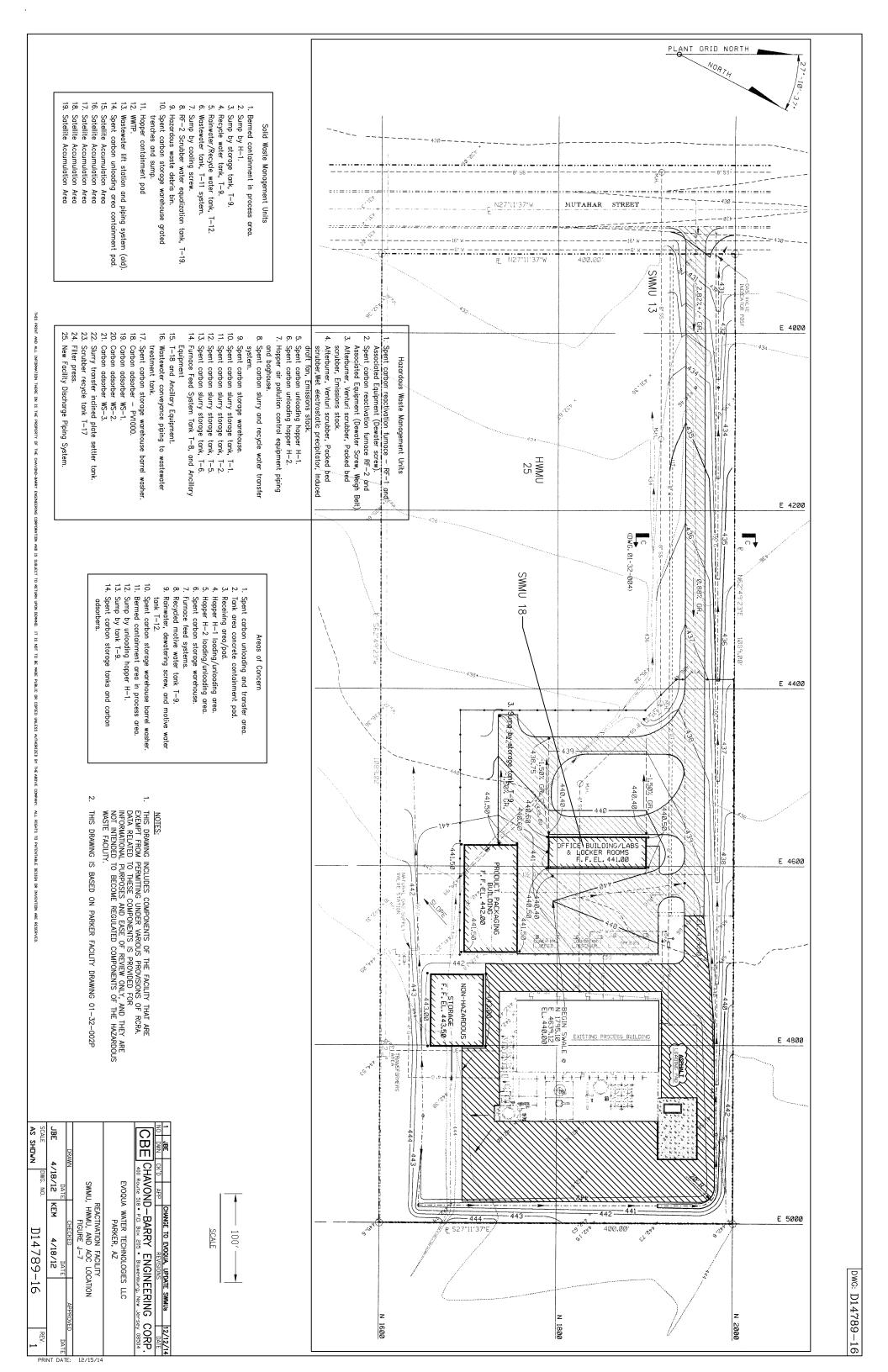






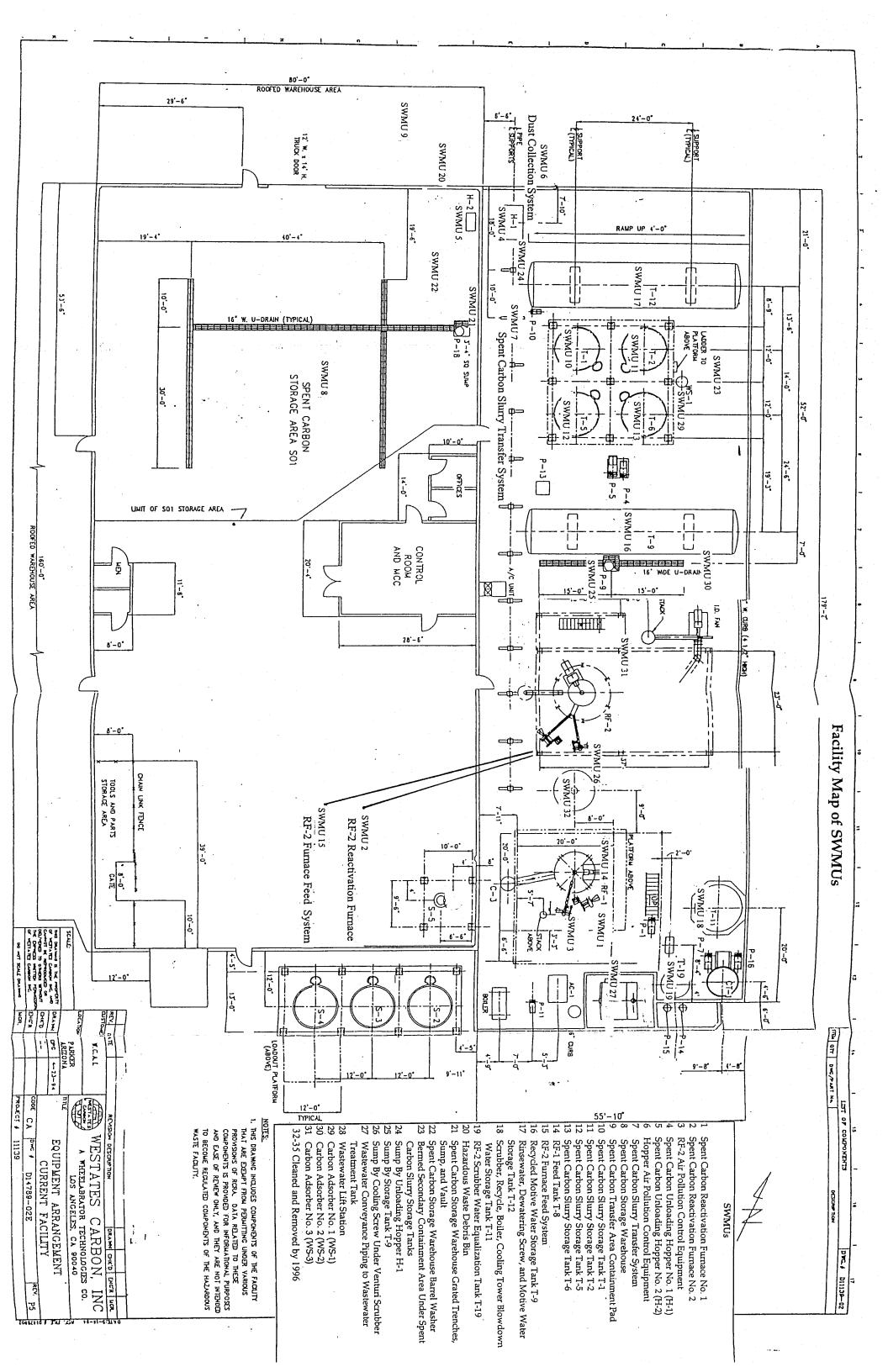


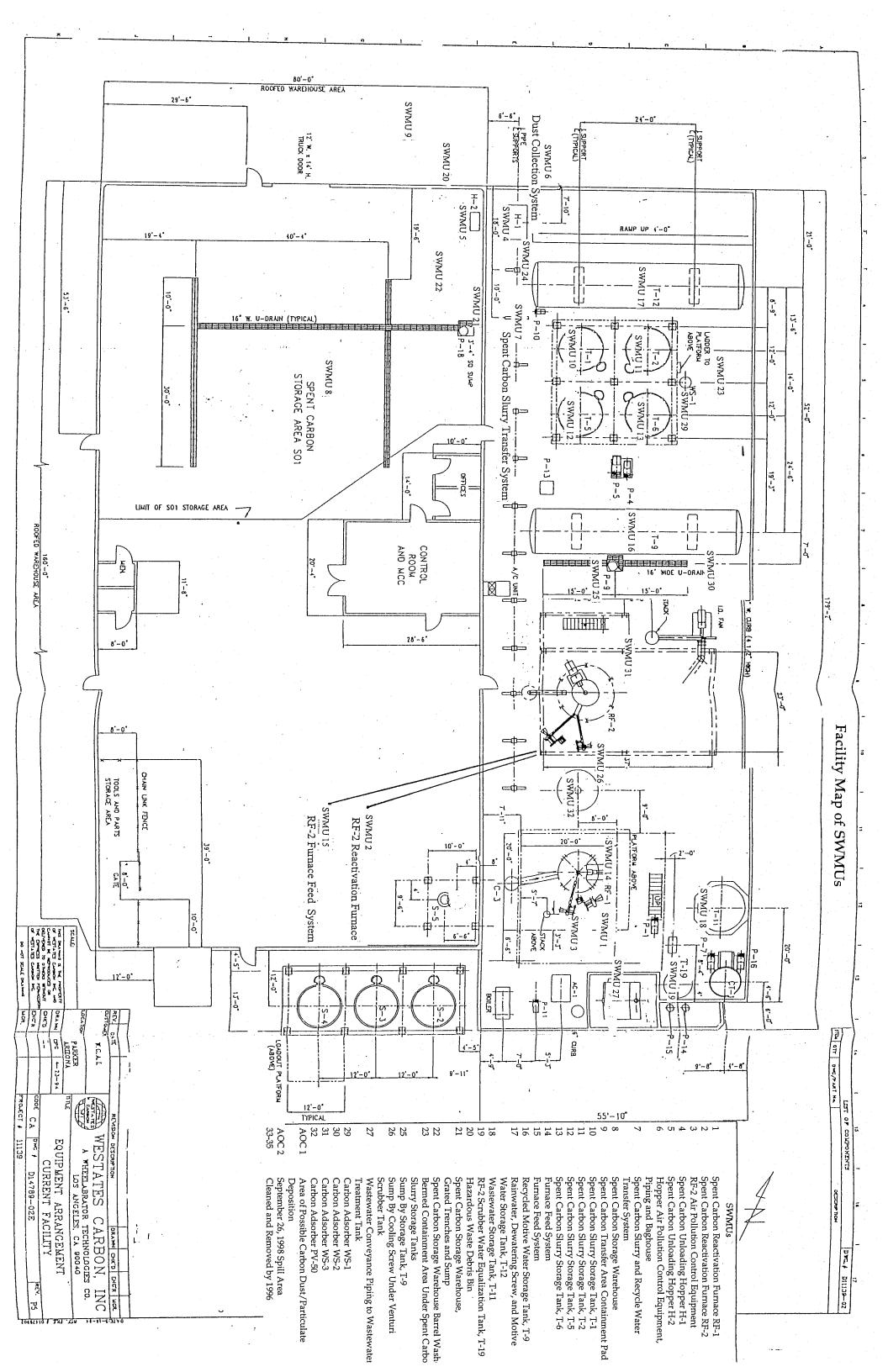




Appendix D2

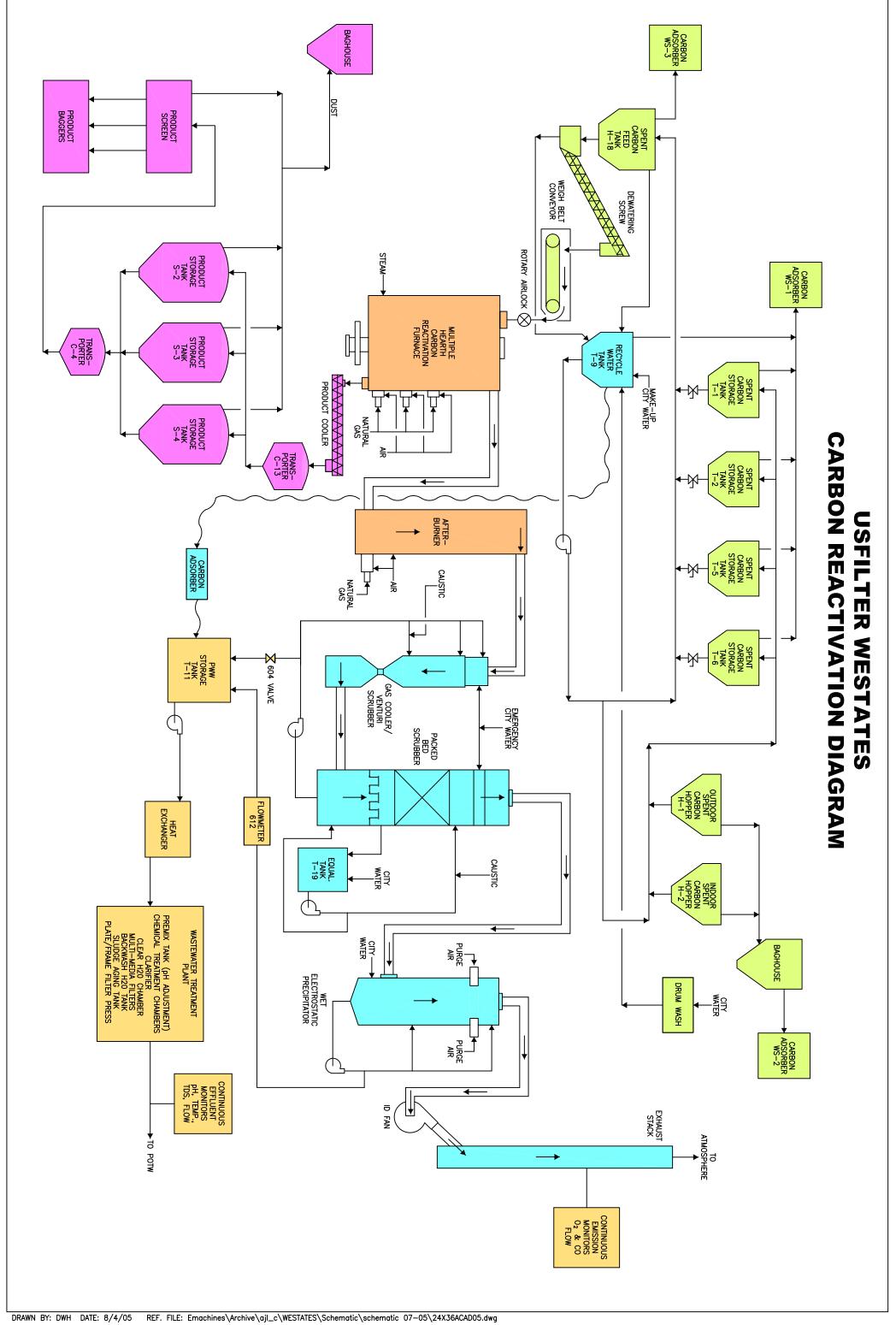
SWMUs Location Map (Old Unit Names)





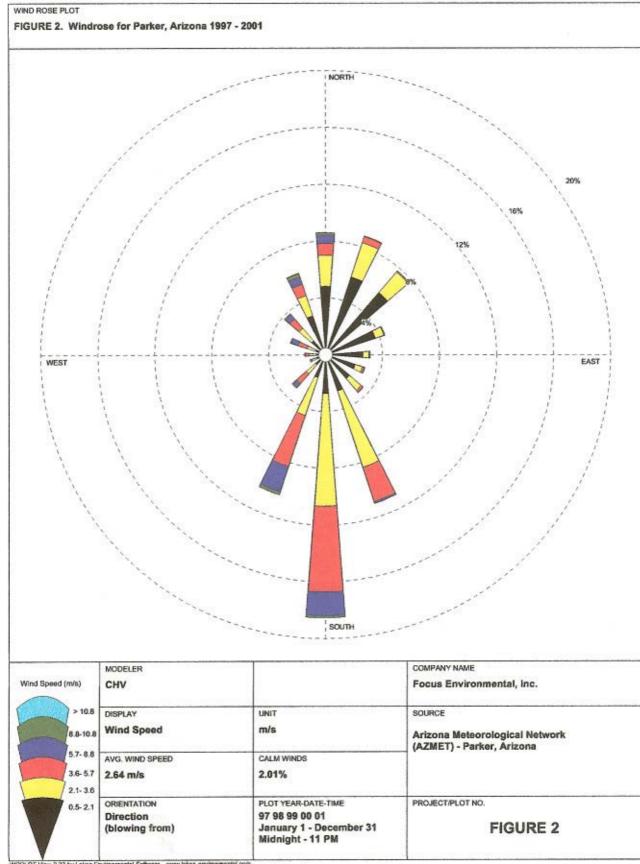
Appendix E

Carbon Reactivation Flow Diagrams



Appendix F

Wind Rose – From Appendix II of Application Reference 5



Appendix G

August 1996 Soil Testing and Analytical Results Prior to Paving "Inside the Fence Area" of the Facility Date: August 7, 1996

FILE COPY

1

To:

File

From: Monte McCue

Re: Sampling Plan Prior To Paving

A sampling plan has been developed for the "inside the fence" area of the facility prior to paving.

The plan consists of taking ten (10) samples from randomly chosen grids. Attachment A reflects the random numbers generated on a Lotus spreadsheet.

Attachment B shows grids which are 10' x 10' in size and cover all areas that are currently indigenous soil but will be paved.

Attachment C, Drawing 01-32-001, is a more detailed arrangement of the grids

Testing on each of the ten (10) soil samples will consist of:

- 1. Metals (6010)
 - a. Barium
 - b. Cadmium
 - c. Chromium, total
 - d. Lead
 - e. Arsenic
- 2. Semi-Volatile Organics (EPA 8270)
- 3. Volatile Organics (EPA 8260)
- 4. Organochlorine Pesticides and PCB's (EPA 8080)
- 5. Alcohol Scan (EPA 8015 Modified)

ATT CHMENT

WESTATES CARBON-ARIZONA, INC. RANDOM NUMBER GENERATOR FOR SOIL SAMPLES

MN-196

NUMBER OF10' SQUARES:

715

DATE:

8/7/96

Number generated on Lotus spreadsheet using the formula - @INT(@RAN*+\$G\$7)

RANDOM NUMBERS FOR 10' GRIDS

| * | 136 | 211 | 166 |
|-----|-----|-----|-----|
| * | 67 | 415 | 661 |
| * | 84 | 76 | 251 |
| * | 6 | 473 | 534 |
| * | 620 | 55 | 608 |
| * | 239 | 393 | 692 |
| * | 203 | 23 | 538 |
| · * | 236 | 188 | 379 |
| * | 267 | 392 | 635 |
| * | 568 | 690 | 212 |
| | 707 | 171 | 320 |
| | 515 | 715 | 518 |
| | 442 | 154 | 619 |
| | 521 | 559 | 39 |
| | 498 | 702 | 468 |
| | 617 | 399 | 98 |
| | 560 | 368 | 5 |
| | 634 | 402 | 423 |
| | 656 | 30 | 641 |

2523 Mutahar Street Post Office Box E Parker, AZ 85344 Tel. 520-669-5758

Date:

August 23, 1996

Fax. 520-669-5775/5776

To:

August 8, 1996

Soil Testing File

cc:

Bill Carlson (w/o attachments)

Matt Killeen (w/o attachments)

Steve Richmond (w/o attachments)

From:

FILE COPY

Re:

Summary Of August 8, 1996 Soil Analyses

According to the Sample Plan formulated on August 7, 1996 for sampling soils "inside the fence" prior to paving, samples were taken from 10 separate 10'x10' grids chosen at random. The following is a summary of the results which were analyzed by Del-Mar Analytical in Irvine, California and the conclusions based on those results:

1. Metals (Method 6010)

| Sample
Description | Arsenic
(D:L = 1.0 ppm) | Barium
(D.L≔0.5 ppm) | Cadmium
(D.L.≡0.1 ppm) | Chromium,
Total
(D.L.=0.5 ppm) | Lead
(D.L.=1.0 ppm |
|-----------------------|----------------------------|-------------------------|---------------------------|--------------------------------------|-----------------------|
| Grid 006 | 2.1 | 120 | <0.10 | 4.8 | 4.9 |
| Grid 067 | 3.1 | 140 | <0.10 | 4.2 | 3.6 |
| Grid 084 | 6.9 | 140 | <0.10 | 9.0 | 7.1 |
| Grid 136 | 3.1 | 120 | <0.10 | 5.7 | 4.1 |
| Grid 203 | 4.4 | 100 | <0.10 | 5.7 | 4.1 |
| Grid 236 | 8.1 | 130 | <0.10 | 7.3 | 4.4 |
| Grid 239 | 1.8 | 52 | <0.10 | 3.1 | 2.6 |
| Grid 267 | 4.2 | 150 | <0.10 | 6.7 | 6.2 |
| Grid 568 | 1.8 | 48 | <0.10 | 2.8 | 3.1 |
| Grid 620 | 1.8 | 61 | <0.10 | 3.5 | 3.5 |

Metals Conclusion:

The highest result for each metal clearly falls below the TCLP levels (using the divide by 20 A. rule --- see USEPA December 31, 1987 letter from Gail Ann Hansen - Methods Section WR-562B to Ms. Joanna Cole) found in 40 CFR 261.24:

ATTACHMENT P

Westates Carbon-Arizona, Inc. Sample Plan Prior To Paving

| 1 | 2 | 3 | 4 | 5 | ×86 | _7 | 8 | 9 | 10 | 11 | _12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | n/s | ก/ร | î/\$ | n/s | ฟริไ |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|------------|-------|---------|------|-------|-------|-------|--------|-----|------|--------|-------|-----|--------|--------|-----|-----|------|----------|-----|-------|-------|--------|----------|--------|--------------------|
| 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | _59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | NS. | n/st | ms. | n/s | กับรา |
| 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | ₹84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | | 100 | 101 | 102 | (n) | n/s | 門高 | n/s. | n/si |
| 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | TIS | M/st | HIS. | n/s; | กร |
| 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 而並 | Mis. | 體 | III(S) | n's |
| 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | n's | 常語 | TIS. | n/8 | n/s |
| 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | | | | 235 | 236 | 237 | 238 | | | n/s | | |
| 239 | 240 | 241 | 242 | | | | | | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | | | | Tro | | |
| 268 | 269 | 270 | 271 | | | | | | | | | | | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | | | | r/s | | |
| 297 | 298 | 299 | 300 | | | | | | | 302 | | 304 | | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 'n/s | n/3 | n/s | ท/ร่า | iv/s |
| 326 | 327 | 328 | 329 | | | | | | 330 | 331 | 332 | 333 | 334 | | 336 | | | | | | | | | 345 | | | 348 | 349 | 350 | 351 | 352 | 353 | 354 | n/s | n/s | ก/รา | 'n/s | n/s. |
| 355 | 356 | 357 | 358 | | | | | | | | | | | | | | | | | | | | | | | | 359 | 360 | 361 | 362 | 363 | 364 | 365 | nis | ที่ใช้ | 118 | n/s | n/s |
| 366 | 367 | 368 | 369 | | | | | | | | | | | | | | | | | | | | | | | | | | 372 | | | | 376 | ท/รั | ins: | n/s | n/s | ก/ร:: ^เ |
| 377 | 378 | 379 | 380 | | | | | | | | | * | | | | | | | | | | | | | | | 381 | 382 | 383 | 384 | 385 | 386 | 387 | n/s | inst | ์กั/ธั | n/s | n/s: |
| 388 | 389 | 390 | 391 | | | | | | | | | | | | | | | | | | | | | | | | | 393 | 394 | 395 | 396 | 397 | 398 | เพรา | Tist. | n/s | n/s | |
| 399 | 400 | 401 | 402 | | | | | | | | | | | | | | | | | | | | | | | | 403 | 404 | 405 | 406 | 407 | 408 | 409 | in/s | 常計 | n/s | n/s | n/s |
| 410 | 411 | 412 | 413 | | | | | | | | | | | | | | | 4 | M | | | | | | | | 414 | 415 | 416 | 417 | 418 | 419 | 420 | n/s | WS. | nisi. | n/s | ñ/s .i |
| 421 | 422 | 423 | 424 | | | | | | | | | | 1254 | 6 8 | Brs. | f | a Gig | D' | W | | | | | | | | 425 | 426 | 427 | 428 | 429 | 430 | 431 | n/s | in's | n/s | n/s | n/s |
| 432 | 433 | 434 | 435 | | | | | | | | | | 6 , | | P | | g (j) | D, | Ħ | | | | | | | | 436 | 437 | 438 | , | | | | | | n/s | n/ś: | n/s |
| 439 | 440 | 441 | 442 | | | | | | | | | | | | 72 1609 | • | , – | | | | | | | | | | | 444 | | | | | | | | n/s | n/s | พร |
| 446 | 447 | 448 | 449 | | | | | | | | | | | | | | | | | | | | | | | | 450 | 451 | 452 | | | | | | | | ำเวรา | |
| 453 | 454 | 455 | 456 | · | | | | i | | | | | | | | | | | | | | | | | | | 457 | 458 | 459 | | | | | | | n/s | n/s | n/s i |
| 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | | | | | | | | | | | | | | | | | | | | 468 | 469 | 470 | | | | | | | n/s | n/s | n/s i |
| 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | | | | | | | | | | | | | | | | | | | | 479 | 480 | 481 | | | | | | | l n/s'il | ก/s | n/s |
| 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | | | | | | | | | | | | | | | | | | | | 490 | 491 | 492 | | | | | | | n/s | n/s | n/s r |
| 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | | | | | | | | | | | | | | | | | | | | 501 | 502 | 503 | | | | | | | n/s | n/s | n/s i |
| 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 | 524 | 525 | 526 | 527 | 528 | 529 | 530 | 531 | 532 | 533 | • | | | | | | n/s | 'n/s | n/s r |
| 534 | 535 | 536 | 537 | 538 | 539 | 540 | 541 | 542 | 543 | 544 | 545 | 546 | 547 | 548 | 549 | 550 | 551 | 552 | 553 | 554 | 555 | 556 | 557 | 558 | 559 | 560 | 561 | 562 | 563 | | | | | | | n/s | ก/ร | n/s n
n/s n |
| 564 | 565 | 566 | | | | 570 | 571 | 572 | 573 | 574 | 575 | 576 | 577 | 578 | 579 | 580 | 581 | 582 | 583 | 584 | 585 | 586 | 587 | 588 | 589 | 590 | 591 | 592 | 593 | | | | | | | ŋ/s | n/s | n/s n |
| 594 | 595 | 596 | | 598 | _ | | 601 | | | 604 | 605 | 606 | 607 | 608 | 609 | 610 | 611 | 612 | 613 | 614 | 615 | 616 | 617 | 618 | 619 | 620 | 621 | 622 | 623 | n/s | ก/ร | n/s | in/s | n/s | n/s | n/s | n/s | n/ร ก |
| 624 | 1- | 626 | | 628 | | | | _ | | 634 | 635 | 636 | 637 | 638 | 639 | 640 | 641 | 642 | 643 | 644 | 645 | 646 | 647 | 648 | 649 | 650 | 651 | 652 | 653 | ivs. | 17/37 | ñ/s | 11/51 | in/s, | ivs! | :n/s | n/s | n/s n |
| 654 | 655 | 656 | 657 | 658 | 659 | 660 | 661 | 662 | 663 | 664 | 665 | 666 | 667 | 668 | 669 | 670 | 671 | 672 | 673 | 674 | 675 | 676 | 677 | 678 | 679 | 680 | 681 | 682 | 683 | n/s | 常
n/s | n/s | n/s | n/s | n/s | กไร้ | n/s | n/s n |
| | | 686 | | | _ | | | | | | | | | | | | | | | | | | - | | | | | | | | | | | | | | | |
| 692 | 693 | 694 | 695 | 696 | 697 | 698 | 699 | | | 1. | Grids | mea | sure | 10' x | 10° a | nd a | e an | appro | oxima | tion - | see | Draw | ving O | 1-32- | 001 | for de | tails. | | | | | | | | | | | |

- 1. Grids measure 10' x 10' and are an approximation see Drawing 01-32-001 for details.
- 2. Bold outline denotes grid sampled per random number generator.
- 3 n/s denotes no sample taken due to the area is not paved.

| Metal | Highest August 8, 1996
Result (6010) (ppm) | Result Divided By 20
(For TCLP) (ppm) | RCRATCLP (ppm)
40 CFR 261.24 |
|----------|---|--|---------------------------------|
| Arsenic | 8.1 | 0.40 | 5.0 |
| Barium | 150 | 7.70 | 100.0 |
| Cadmium | <0.10 | <0.005 | 1.0 |
| Chromium | 9.0 | 0.45 | 5.0 |
| Lead | 7.1 | 0.36 | 5.0 |

It is clear from the above table that, at worse case, no soil exhibits the toxicity characteri Additionally, the WCAI facility has not accepted, to date, any wastes that were listed hazardous wastes due to metal contents and therefore none of the analytical results suggests that the soil samples contained any listed hazardous wastes.

- B. The attached calculations, performed by Jay Berry (WTI-Hampton), show that statistically the level of *chromium* and *lead* are similar (using the National Bureau of Standards' Experimental Statistics Handbook) to the non-impacted samples of soil collected and analyzed in November 1994 and April 1995. Consequently, the chromium and lead levels in the sampled soils are consistent with background levels detected previously at this site.
- C. The following comparisons were made using the state of New York's *Determination of Soil Cleanup Objectives and Cleanup Levels*, the state of Connecticut's *Remediation Standard*, EPA's *Proposed RCRA Corrective Action Guidelines* and EPA Region IX *Preliminary Remediation Goals (PRG's) 1996:*

| Metal | :WCAI
Highest
Result | State Of New York Determination Of Soil Cleanup | | Connecticut
ion Standard | Proposed RCRA
Corrective
Action | EPA
Region IX
Preliminary |
|----------|-------------------------------------|---|----------------------|-----------------------------|--|--|
| | Aug 8, 1996
(EPA 5010))
(ppm) | Objectives And
Cleanup Levels
(ppm) | Residential
(ppm) | | Guidelines (ppm)
FR 30865-66
July 27, 1990 | Remediation
Goals:(PRG's)
1996 (ppm) |
| Arsenic | 8.1 | 7.5 or SB* | 10 | 10 | 80 | 220 |
| Barium | 150 | 300 or SB* | 4,700 | 140,000 | 4000 | 100,000 |
| Cadmium | <0.10 | 1 or SB* | 34 | 1000 | 40 | 8,500 |
| Chromium | 9.0 | 10 or SB* | 100 | 100 | 400 (Cr VI) | 450 |
| Lead | 7.1 | 4-61 or
200-500 | 500 | 1000 | None Listed | 1,000 |

Notes: SB is Site Background In PPM

SB's - Arsenic -3-12, Barium-15-600, Cadmium-0.1-1, Chromium 1.5-40, Lead 4-61.

The August 1996 analytical results establish for each analyte either there has been no change from background metal levels or that the metal levels are considerably less than the required levels of soil cleanup objectives.

2. Semi-Volatile Organics (EPA Method 8270)

Conclusion: The attached analytical reflects no detectable levels of semi-volatile organics in the soil.

3. Volatile Organics (EPA 8260)

Conclusion: The attached analytical reflects no detectable levels of volatile organics in the soil.

4. Organochlorine Pesticides and PCB's (EPA Method 8080)

The only organochlorine pesticides and PCB's analyte that was detected was 4,4'-DDE (5.3 ppb (0.0053 ppm) which is 0.3 ppb above the detection limit). This occurred in Sample Grid - 267.

Conclusion: 4,4'-DDE is neither a toxicity characteristic nor a listed waste and WCAI has no record of receiving 4,4'-DDE. The surrounding community does have intensive agricultural activities and it appears that the soil did not contain the analyte as a result of WCAI's operation. The following is a comparison of the levels of 4,4'-DDE found in WCAI's soil, the state of New York's Recommended Soil Cleanup Objectives, EPA's Proposed RCRA Corrective Action Guidelines and EPA Region IX Preliminary Remediation Goals (PRG's) 1996:

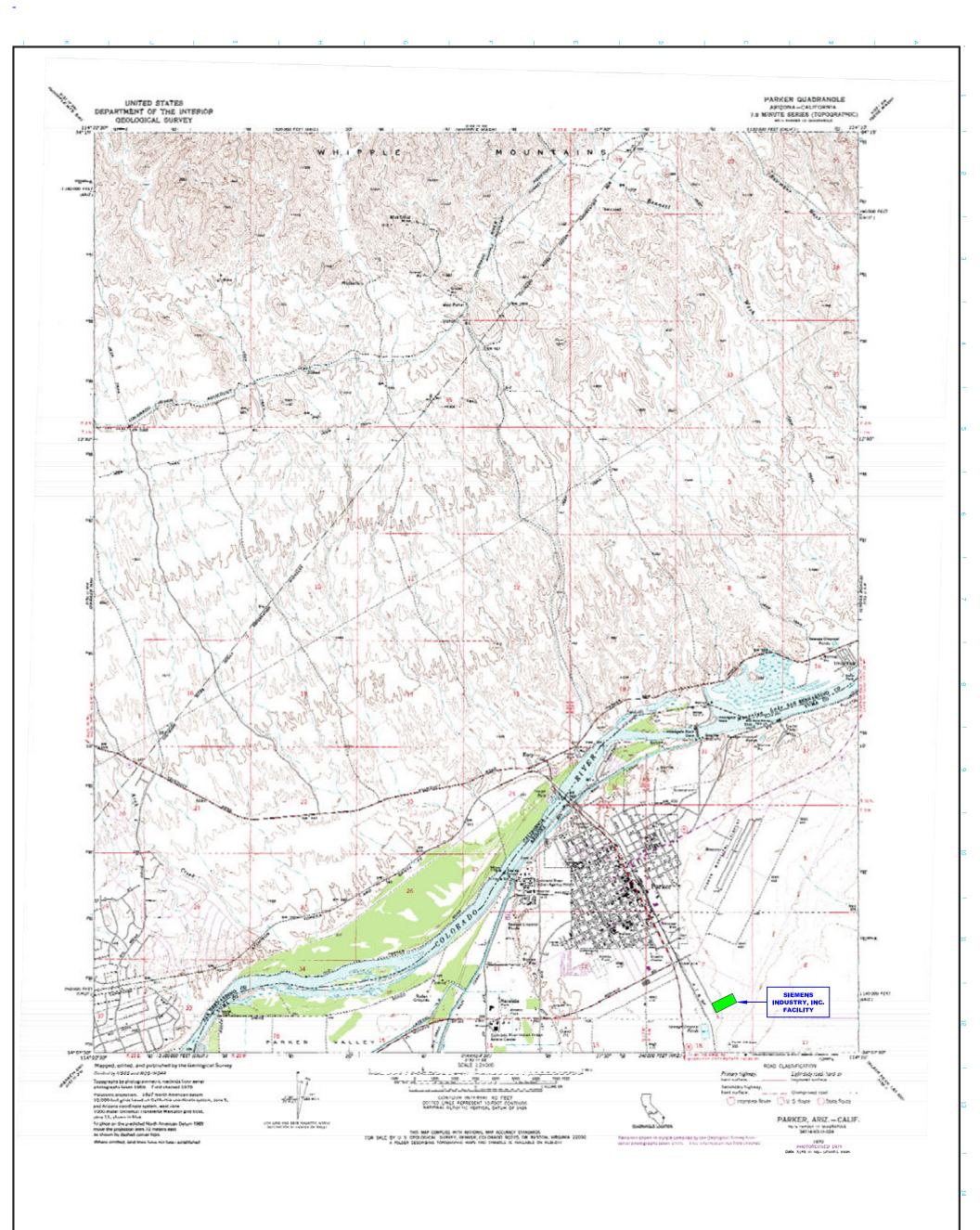
| Analyte | WCAI
Sample
Result
(ppm) | New York's
January 24, 1994
Recommended Soil
Cleanup Objectives
(ppm) | EPA's July 27,1990 Proposed RCRA Corrective Action Guidelines (FR 30866) (ppm) | EPA Region IX
Preliminary Remediation
Goals (PRG's) 1996
(ppm) |
|----------|-----------------------------------|---|--|---|
| 4,4'-DDE | 0.0053 | 2.1 | 2.0 | 5.6 |

Final Conclusion

Based on the analytical results received and the above comparisons and conclusions, the soil at the WCAI facility ("inside the fence") has not been impacted or contaminated by the operations of WCAI.

Appendix H

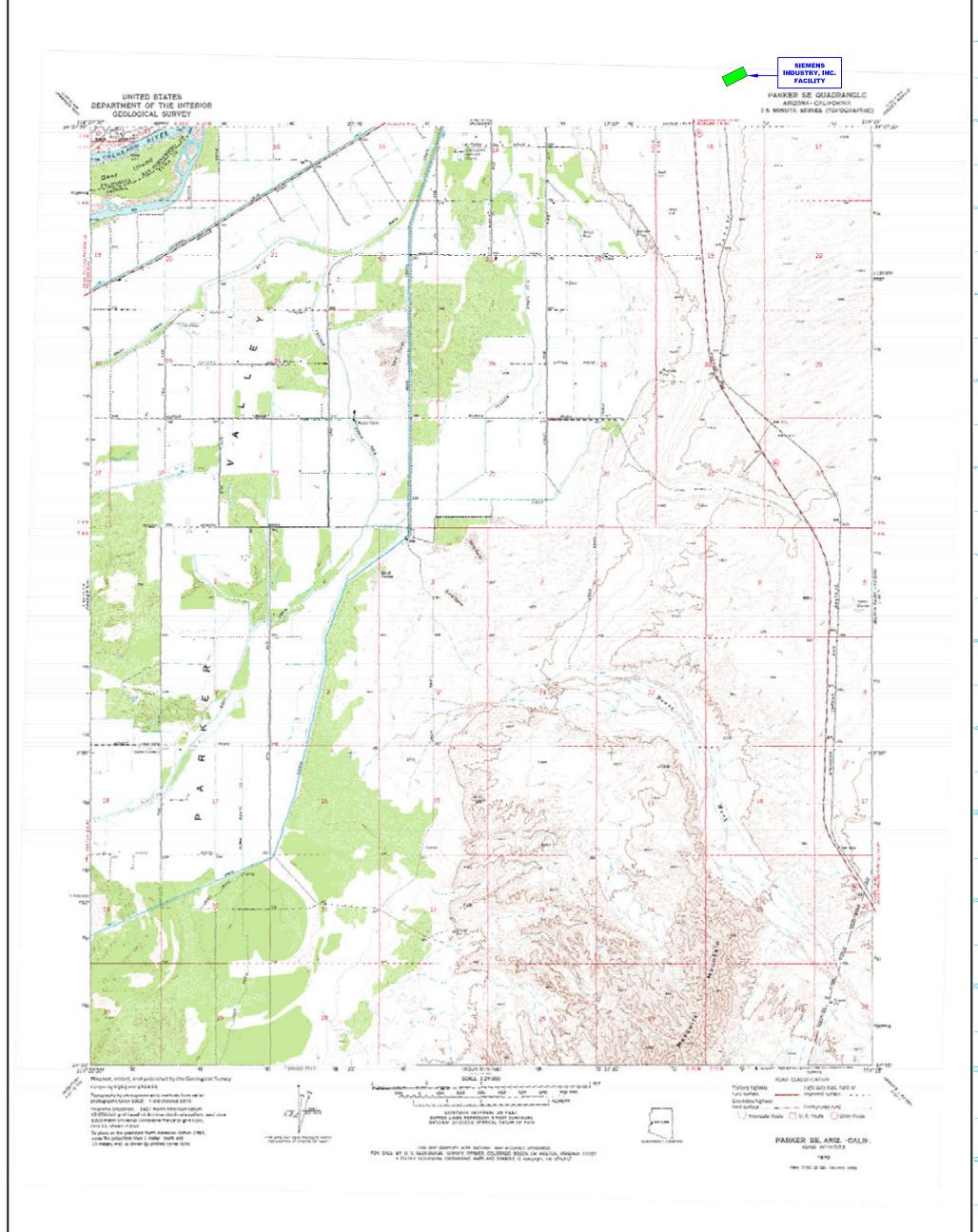
Surface Flow Diagram and Topographic Map



NOTES:

- SEE ATTACHED SIEMENS INDUSTRY, INC. DRAWING D-14789-02 FOR DETAILED LOCATION OF S01, S02, AND X03.
- 2. THERE ARE NO INJECTION WELLS ASSOCIATED WITH THIS FACILITY.
- THERE ARE NO SPRINGS, DRINKING WATER WELLS, NOR SURFACE WATER BODIES LOCATED WITHIN 1/4 MILE OF THIS FACILITY.

| | | | | | | | LOCATION | SIEM
DUSTF | ENS
RY, INC. | SIEMENS INDUSTRY, INC.
Parker, AZ |
|---|------|---------|--|-------|-------|--|----------|---------------|----------------------|--|
| | | | | | | PLOT SCALE: AS NOTED | | | ADAR 51.
AZ 85344 | TITLE: |
| _ | | | | | | DO NOT SCALE DRAWING | | | 00011 | U.S.G.S. SURVEY – PARKER, AZ |
| | | | | | | THIS DRAWING IS THE PROPERTY | PROJEC | T No. | | · • |
| l | | | | | | OF SIEMENS AND CANNOT BE
REPRODUCED OR DELIVERED TO | DRAWN: | JBE | 1/22/07 | TOPOGRAPHIC MAP |
| ľ | 1 | 3/15/12 | NAME CHANGED TO SIEMENS INDUSTRY, INC. | JBE | KEM | OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF SIEMENS | CHK'D: | KEM | 1/22/07 | |
| | REV. | DATE | REVISION DESCRIPTION | DRAWN | CHK'D | INDUSTRY, INC. | ENG'R: | | | DWG No. C-100604 SHEET No. 1 of 2 REV. 1 |
| | | | | | | | | | | PRINT DATE: 4/19/12 |



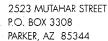
NOTES:

- 1. SEE ATTACHED SIEMENS WATER TECHNOLOGIES CORP. DRAWING D-14789-02 FOR DETAILED LOCATION OF S01, S02, AND X03.
- 2. THERE ARE NO INJECTION WELLS ASSOCIATED WITH THIS FACILITY.
- 3. THERE ARE NO SPRINGS, DRINKING WATER WELLS, NOR SURFACE WATER BODIES LOCATED WITHIN 1/4 MILE OF THIS FACILITY.

| | | | | | | | LOCATIO | SIEMI
DUSTR | Y, INC. | | | INDUSTRY, INC. |
|------|---------|--|-------|-------|-------|--|---------|----------------|----------------------|---------|--------------|-------------------------|
| | | | | | | PLOT SCALE: AS NOTED DO NOT SCALE DRAWING | | | AHAR ST.
AZ 85344 | TITLE: | IISGS SIIRVI | EY – PARKER SE, AZ |
| | | | | | | | PROJEC | T No. | | | | • |
| | | | | | | OF SIEMENS AND CANNOT BE
REPRODUCED OR DELIVERED TO | DRAWN: | JBE | 1/22/07 | | TOPOG. | RAPHIC MAP |
| 1 | 3/15/12 | NAME CHANGED TO SIEMENS INDUSTRY, INC. | JBE | KEM | | | CHK'D: | KEM | 1/22/07 | | | Tauran |
| REV. | DATE | REVISION DESCRIPTION | DRAWN | CHK'D | ENG'R | INDUSTRY, INC. | ENG'R: | | | DWG No. | C-100604 | SHEET No. 2 of 2 REV. 1 |

Appendix I

Lift Station and Facility Motive Water Spill Responses





TELEPHONE 520-669-5758
FACSIMILE 520-669-5775

February 26, 2001

VIA Certified Mail - 7099 3400 0017 6279 6347

Ms. Karen Scheuermann USEPA Region IX Mail Code WST-4 75 Hawthorne Street San Francisco, CA 94105

Ms. Scheuermann:

Attached please find the analytical documentation you requested for the following two spills which occurred at Westates Carbon:

- November 10th, 1994
- April 17th, 1995

Please note that the analytical covers impacted and non-impacted soils which is noted on the analytical sheets.

If you have any questions please call me at (520)669-5758.

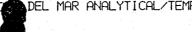
Sincerely,

Roy Provins

EH and S Manager

el Mar Analytical





n Ave., Irvine, CA 92714 1014 E. Cooley Dr., Suite A. Colton, CA 92324

2465 W. 12th St., Suite 1, Tempe, AZ 85281

(909) 370-4667 FAX (909) 370-1

16525 Sherman Way, Suite C-11, Van Nuys, CA 91406

(818) 779-1844 FAX (818) 779-1 (602) 968-8272 FAX (602) 968-1

(714) 261-1022 FAX (714) 261-1

#Westates Carbon Arizona 2523 Mutahar St., P.O. Box E Parker, AZ 85344

Client Project ID: Westates Carbon

Sampled: Received: Nov 10, 1994 Nov 10, 1994

Attention: Marcia Going

Sample Descript: Soil, Background Lab Number: 4110611

'Analyzed: Nov 14, 1994 Reported: Nov 14, 1994

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

| Analyte | Detection | Sample | Analyte : | Detection | Sample |
|-----------------------------|-----------|--------|----------------------------|-----------|--------|
| Allalyte | Limit | Result | Allalyte | Limit | Result |
| | / µg/Kg / | µg/Kg | | µg/Kg | ug/Kg |
| | (ppb) | (ppb) | | (ppb) | (ppb) |
| | (PPD) | (PPO) | | (666) | (550) |
| Acenaphthene | 200 | N.D. | · Dimethyl phthalate | 200 | N.D. |
| Acenaphthylene | 200 | N.D. | 4,6-Dinitro-2-methylphenol | \$00 | N.D. |
| Aniline | 300 | N.D. | 2,4-Dinitrophenol | 500 | N.D. |
| Аптигаселе | 200 | N.D. | 2,4-Dinitrotoluene | 200 | N.D. |
| Azobenzene | 300 | N.D. | 2,6-Dinitrotoluene | 200 | N.D. |
| Benzidine | 2,000 | N.D. | Di-N-octyl phthalate | 1,000 | N.D. |
| Benzolc Acid | :1,000 | N.D. | Fluoranthene | 200 | N.D. |
| Benz(a)anthracene | 200 | N.D. | Fluorene | 200 | N.D. |
| Benzo(b)fluoranthene | 400 | N.D. | Hexachlorobenzene | 200 | N.D. |
| Benzo(k)fluoranthene | 400 | N.D. | Hexachlorobutadiene | 200 | N.D. |
| Benzo(g,h,i)perylene | 300 | N.D. | Hexachlorocyclopentadiene | 1,000 | N.D. |
| Benzo(a)pyrene | 400 | N.D. | Hexachloroethane | 400 | N.D. |
| Benzyl alcohol | 400 | N.D. | Indeno(1,2,3-cd)pyrene | 400 | N.D. |
| Bis(2-chloroethoxy)methane | 200 | N.D. | Isophorone | 200 | N.D. |
| Bis(2-chloroethyf)ether | 200 | N.D. | 2-Methylnaphthalene | 200 | N.D. |
| Bis(2-chloroisopropyl)ether | 200 | N.D. | 2-Methylphenol | 300 | N.D. |
| Bis(2-ethylhexyl)phthalate | 500 | N.D. | 4-Methylphenol | 300 | N.D. |
| 4-Bromophenyl phenyl ether | 300 | N.D. | Naphthalene: | 300 | N.D. |
| Butyl benzyl phthalate | 1,000 | N.D. | 2-Nitroaniline | 400 | N.D. |
| 4-Chloroaniline | 200 | N.D. | 3-Nitroaniline | 400 | N.D. |
| 2-Chloronaphthalene | 200 | N.D. | 4-Nitroaniline | 1,000 | N.D. |
| 4-Chloro-3-methylphenol | 200 | N.D. | Nitrobenzene | 1,000 | N.D. |
| 2-Chlorophenol | 500 | N.D. | 2-Nitrophenol | 200 | N.D. |
| 4-Chlorophenyl phenyl ether | 200 | N.D. | 4-Nitrophenol | 1,000 | N.D. |
| Chrysene | 200 | N.D. | N-Nitrosodiphenylamine | 400 | N.D. |
| Dibenz(a,h)anthracene | 500 | N.D. | N-Nitroso-di-N-propylamine | 300 | N.D. |
| Dibenzofuran | 200 | N.D. | Pentachlorophenol | 1,000 | N.D. |
| Di-N-butyl phthalate | 500 | N.D. | Phenanthrene | 200 | , N.D. |
| 1,3-Dichlorobenzene | 200 | N.D. | Phenol | 300 | N.D. |
| 1,4-Dichlorobenzene | 200 | N.D. | Pyrene | 300 | N.D. |
| 1,2-Dichlorobenzene | 200 | N.D. | 1,2,4-Trichlorobenzene | 200 | N.D. |
| 3,3-Dichlorobenzidine | 1,000 | N.D. | 2,4,5-Trichlorophenol | 300 | N.D. |
| 2,4-Dichlorophenol | 200 | N.D. | 2,4,6-Trichlorophenol | 300 | N.D. |
| Diethyl phthalate | 200 | N.D. | | | |
| 2,4-Dimethylphenol | 500 | N.D. | | : | i . |
| | | | • | | 1 ' |

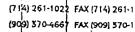
Analysis completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 2.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Laboratory Manager

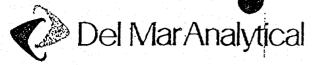
| Surrogate Standard Recoveries (Accept. Limits | s): |
|---|-----|
| 2-Fluorophenol (25-121) | 56% |
| Phenol-d6 (24-113) | 58% |
| 2,4,6-Tribromophenol (19-122) | 68% |
| Nitrobenzene-d5 (23-120) | 66% |
| 2-Fluorobiphenyl (30-115) | 69% |
| Terphenyl-d14 (18-137) | 85% |



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Westates Carbon Arizona 2523 Mutahar St., P.O. Box E

Client Project ID: Westates Carbon

Sampled: Nov 10, 1994 Received: Nov 10, 1994

Parker, AZ 85344
Attention: Marcia Going

Sample Descript: Soil, Background Lab Number. 4110611

Analyzed: Nov 14, 1994 Reported: Nov 14, 1994

SEMI-VOLATILE ORGANICS by GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

No additional peaks > 250 μg/kg were identified by the Mass Spectral Library.

Analysis completed at Del Mar Analytical-IRV (NE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Michael R. Giles
Laboratory Manager

Please Note:

All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

Results pertain only to samples tested in the laboratory. This report shall not be

KITÄRTE WOALKROFTÄTS



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(714) 261-1022 FAX (714) 261-1228

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E Parker, AZ 85344

Attention: Marcia Going

Sample Descript: Soil, Spill Soil Lab Number:

Client Project ID: Westates Carbon

Nov 10, 1994# Sampled: Nov 10, 1994# Received: Analyzed: Nov 14, 1994 Reported: Nov 14, 1994

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

4110526

| Analyte | Detection
Limit
µg/Kg
(ppb) | Sample
Result
µg/Kg
(ppb) | Analyte | Detection
Limit
µg/Kg
(ppb) | Sample
Result
µg/Kg
(ppb) |
|--|--------------------------------------|------------------------------------|-----------------------------|--------------------------------------|------------------------------------|
| | (PPD) | (PPD) | | (PPD) | ((000) |
| Acenaphthene | 100 | N.D. | Dimethyl phthalate | 100 | N.D. |
| Acenaphthylene | 100 | N.D. | 4,6-Dinitro-2-methylphenol, | | N.D. |
| Aniline | 150 | N.D. | 2,4-Dinitrophenol | 250 | N.D. |
| Anthracene | 100 | N.D. | 2,4-Dinitrotoluene | 100 | N.D. |
| Azobenzene | 150 | N.D. | 2,6-Dinitrotoluene | 100 | N.D. |
| Benzidine | 1,000 | N.D. | Di-N-octyl phthalate | 500 | N.D. |
| Benzoic Acid | 500 | N.D. | Fluoranthene | 100 | N.D. |
| Benz(a)anthracene, | 100 | N.D. | Fluorene | 100 | N.D. |
| Benzo(b)fluoranthene | 200 | N.D. | Hexachlorobenzene | 100 | N.D. |
| Benzo(k)fluoranthene | 200 | N.D. | Hexachlorobutadiene | hoo | N.D. |
| Benzo(g,h,i)perylene | 150 | N.D. | Hexachlorocyclopentadiene, | 500 | N.D. |
| Benzo(a)pyrene | 200 | N.D. | Hexachloroethane | 200 | N.D. |
| Benzyl alcohol | 200 | N.D. | Indeno(1,2,3-cd)pyrene | 200 | N.D. |
| Bis(2-chloroethoxy)methane | 100 | N.D. | Isophorone | 100 | N.D. |
| Bis(2-chloroethyl)ether | 100 | N.D. | 2-Methylnaphthalene | 100 | N.D. |
| Bis(2-chloroisopropyl)ether | 100 | N.D. | 2-Methylphenol | 150 | N.D. |
| Bis(2-ethylhexyl)phthalate | 250 | N.D. | 4-Methylphenol | 150 | N.D. |
| 4-Bromophenyl phenyl ether | 150 | N.D. | Naphthalene | 150 | N.D. |
| Butyl benzyl phthalate | 500 | N.D. | 2-Nitroaniline | 200 | N.D. |
| 4-Chloroaniline | 100 | N.D. | 3-Nitroaniline. | 200 | N.D. |
| 2-Chloronaphthalene | 100 | N.D. | 4-Nitroaniline. | 500 | N.D. |
| 4-Chioro-3-methylphenol | 100 | N.D. | Nitrobenzene | 500 | N.D. |
| 2-Chlorophenol | 250 | N.D. | 2-Nitrophenol | 100 | N.D. |
| 4-Chlorophenyl phenyl ether | 100 | N.D. | 4-Nitrophenol | 500 | N.D. |
| Chrysene | 100 | N.D. | N-Nitrosodiphenylamine | 200 | N.D. |
| Dibenz(a,h)anthracene | 250 | N.D. | N-Nitroso-di-N-propylamine | 150 | N.D. |
| Dibenzofuran | 100 | N.D. | Pentachlorophenol | 500 | N.D. |
| Di-N-butyl phthalate | 250 | N.D. | Phenanthrene | 100 | N.D. |
| 1,3-Dichlorobenzene | 100 | N.D. | Phenol | 150 | N.D. |
| 1,4-Dichlorobenzene | 100 | N.D. | Pyrene | 150 | N.D. |
| 1,2-Dichlorobenzene | 100 | N.D. | 1,2,4-Trichlorobenzene | 100 | N.D. |
| 3,3-Dichlorobenzidine | 500 | N.D. | 2,4,5-Trichlorophenol | 150 | N.D. |
| 2,4-Dichlorophenol | 100 | N.D. | 2,4,6-Trichlorophenol | 150 | N.D. |
| Diethyl phthalate | 100 | N.D. | | | 7 - 7 - 7 |
| 2,4-Dimethylphenol | 250 | N.D. | | | |
| Analytes reported as N.D. were not present | | | | . | |

Analysis completed at Del Mar Analytical-IRVINE (AZ0428) DEL MAR ANALYTIÇAL, PHOENIX (AZ0426)

Michael R. Giles Laboratory Manager

| | |
|--|-------------|
| Surrogate Standard Recoveries (Accept. Limit | s): |
| 2-Fluorophenol (25-121) | 58% |
| Phenol-d6 (24-113) | 63% |
| 2,4,6-Tribromophenol (19-122) | 73% |
| Nitrobenzene-d5 (23-120) | 64% |
| 2-Fluorobiphenyl (30-115) | 66% |
| Terphenyl-d14 (18-137) | 64% |

Results pertain only to samples tested in the laboratory. This report shall not be



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(602) 968-8272 FAX (602) 968-133

Westates Carbon Arizona
2523 Mutahar St., P.O. Box E

Parker, AZ 85344 Attention: Marcia Going Client Project ID: Westates Carbon

Sample Descript: Soil, Spill Soil Lab Number: 4110526 Sampled:

Nov 10, 1994 Nov 10, 1994

Received: Analyzed:

Nov 11, 1994

Reported: Nov 14, 1994

SEMI-VOLATILE ORGANICS by GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

Analyte

Detection Limit µg/Kg (ppb) Sample Result

μg/Kg (ppb)

No additional peaks > 250 µg/kg were identified by the Mass Spectral Library.

Analysis completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Michael R. Giles
Laboratory Manager

Please Note:

All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.



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Westates Carbon Arizona 2523 Mutahar St., P.O. Box E Parker, AZ 85344

Attention: Marcia Going

Client Project ID: Westates Carbon

Sampled: Received:

Nov 10, 1994 Nov 10, 1994

Lab Number:

Sample Descript: Soil, Background 4110611

Analyzed: Reported:

Nov 11, 1994 Nov 14, 1994

VOLATILE ORGANICS by GC/MS (EPA 8260)

| | (, , , , | | | by come (E. A czec) | • | |
|-----------------------------|------------------|---|------------------|--------------------------------|--------------------|--------|
| Analyte | Detect
Limi | | Sample
Result | Analyte | Detection
Limit | Sample |
| | μg/K | | µg/Kg | | | Result |
| | | | | | μg/Kg | μg/Kg |
| | (ppb | , | (ppb) | | (ppb) | (ppb) |
| Benzene | 2.0 | | N.D. | Isopropylbenzene | 2.0 | N.D. |
| Bromobenzene | 5.0 | | N.D. | p-isopropyltoluene | 2.0 | N.D. |
| Bromochloromethane | 5.0 | | N.D. | Methylene chloride | 10 | N.D. |
| Bromodichioromethane | 2.0 | | N.D. | Naphthalene | 5.0 | N.D. |
| Bromoform | 2.0 | | N.D. | n-Propylbenzene | 2.0 | N.D. |
| Bromomethane | ÷ 5.0 | | N.D. | Styrene | 2.0 | N.D. |
| n-Butylbenzene | 5.0 | | N.D. | 1,1,1,2-Tetrachloroethane | 5.0 | N.D. |
| sec-Butylbenzene | 5.0 | | N.D. | 1,1,2,2-Tetrachloroethane | 2.0 | N.D. |
| tert-Butylbenzene | 5.0 | | N.D. | Tetrachloroethene | 2.0 | N.D. |
| Carbon tetrachloride | 5.0 | | N.D. | Toluene | 2.0 | N.D. |
| Chlorobenzene | 2.0 | | N.D. | 1,2,3-Trichlorobenzene | 5.0 | N.D. |
| Chloroethane | 5.0 | | N.D. | 1,2,4-Trichlorobenzene | 5.0 | ! N.D. |
| Chloroform | 2.0 | | N.D. | 1,1,1-Trichloroethane | 2.0 | N.D. |
| Chloromethane | 5.0 | | N.D. | 1,1,2-Trichloroethane | 2.0 | N.D. |
| 2-Chlorotolueno | 5.0 | | N.D. | Trichioroethene | 2.0 | N.O |
| 4-Chlorotoluene | 5.0 | | N.D. | Trichlorofluoromethan= | 5.0 | N.D |
| Dibromochloromethane | 2.0 | | N.D. | 1,2,3-Trichloropropane | 10 ' | N.O |
| 1,2-Dibromo-3-chloropropare | 5.0 | | N.D. | 1,2,4-Trimethylbenzene | S 0 | M.D |
| 1,2-Dibromoethane | 2.0 | | N.D. | 1,3,5-Trimethylbenzene | 3.0 | N.O. |
| Dibromomethane | 2.0 | | N.D. | Vinyl chloride | 5.0 | N.D. |
| 1,2-Dichlorobenzene | 2.0 | | N.D. | o-Xylena | 2.5 | NO |
| 1,3-Dichlorobenzene | 2.0 | | N.D. | m,p-Xylenes | 2.0 | N.D. |
| 1,4-Dichlorobenzene | 2.0 | | N.D. | | | |
| Dichlorodifluoromethane | 5.0 | | N.D. | | | |
| 1,1-Dichloroethane | 2.0 | | N.D. | | | |
| 1,2-Dichloroethane | 2.0 | | N.D. | | | |
| 1,1-Dichloroethene | 5.0 | | N.D. | | | |
| cis-1,2-Dichloroethene | 2.0 | | N.D. | | İ | ! |
| trans-1,2-Dichloroethene | 2.0 | | N.D. | | : | 1 |
| 1,2-Dichloropropane | 2.0 | | N.D. | | | |
| 1,3-Dichloropropane | 2.0 | | N.D. | | ; | : |
| 2,2-Dichloropropane | 2.0 | | N.D. | | | |
| 1,1-Dichloropropene | 2.0 | | N.D. | | | |
| Ethylbenzene | 2.0 | | N.D. | | | |
| Hexachlorobutadiene | 5.0 | | N.D. | the first of the second second | | |

Analytes reported as N.D. were not present above the stated limit of detection.

Analysis completed at Del Mar Analytical-IRVINE (AZ0428)

DEL MAR ANALYTICAL, PHOENIX (AZ # AZ0426)

Michael R. Giles Laboratory Manager

| Surrogate Standard Recoveries (Accept, Limits): | | | |
|---|------|--|--|
| Dibromofluoromethane (80-120) | 95% | | |
| Тоічепе-d8 (81-117) | 93% | | |
| 4-Bromofluoroberizene (74-121) | 105% | | |

Results pertain only to samples tested in the laboratory. This report shall not be







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(602) 968-8272 FAX (602) 968-

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E

Parker, AZ 85344

Client Project ID: Westates Carbon

Sampled: Nov 10, 1994 Received: Nov 10, 1994

Attention: Marcia Going Sample Descript: Soil, Background Lab Number: 4110611

Analyzed: Nov 11, 1994 Reported: Nov 14, 1894

VOLATILE ORGANICS by GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

No additional peaks > 250 µg/kg were identified by the Mass Spectral Library.

Analysis completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Laboratory Manager

All Identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

Remarks pertain only to exemplay testion in the behavior, or. This remark shirt may be



re., Irvine, CA 92714 -1014 E. Coolcy Dr., Suite A. Colton. CA 92324

16525 Shorman Way, Suite C-11, Van Nuys, CA 91406 2465 W, 12th St., Suite 1, Tempe, AZ 85281 (714) 261-1022: FAX (714) 261-122-(909) 370-4667; FAX (909) 370-104 (818) 779-1844: FAX (818) 779-184 (602) 968-8272 FAX (602) 968-133

Westates Carbon Arizona 🖁 2523 Mutahar St., P.O. Box E Parker, AZ 85344 Attention: Marcia Going

Client Project ID: Westates Carbon

Sample Descript: Soil, Spill Soil

Lab Number: 4110526

Sampled: Nov 10, 1994 Received: Nov 10, 1994 Analyzed: Nov 11, 1994

Nov 14, 1994 Reported:

VOLATILE ORGANICS by GC/MS (EPA 8260)

| Analyte | Detection
Limit
µg/Kg
(ppb) | Sample
Result
µg/Kg
(ppb) | Analyte | Detection
Limit
µg/Kg
(ppb) | Sample
Result
µg/Kg
(ppb) |
|-----------------------------|--------------------------------------|------------------------------------|---------------------------|--------------------------------------|------------------------------------|
| Benzene | 2.0 | N.D. | Isopropylbenzene | 2.0 | N.D. |
| Bromobenzene | 5.0 | N.D. | p-Isopropyltoluene | 2.0 | N.D. |
| Bromochloromethane | 5,0 | N.D. | Methylene chloride | 10 | N.D. |
| Bromodichloromethane | 2.0 | N.D. | Naphthalene | 5.0 | N.D. |
| Bromoform | 2.0 | N.D. | n-Propylbenzene | 2.0 | N.D. |
| Bromomethane | 5.0 | N.D. | Styrene | 2.0 | N.D. |
| n-Butylbenzene | 5.0 | N.D. | 1,1,1,2-Tetrachloroethane | 5.0 | N.D. |
| sec-Butylbenzene | 5.0 | N.D. | 1,1,2,2-Tetrachloroethane | 2.0 | N.D. |
| tert-Butylbenzene | 5.0 | N.D. | Tetrachloroethene | 2.0 | N.D. |
| Carbon tetrachloride | 5.0 | N.D. | Toluene | 2.0 | N.D. |
| Chlorobenzene | 2,0 | N.D. | 1,2,3-Trichlorobenzene | 5.0 | N.D. |
| Chloroethane | 5.0 | N.D. | 1,2,4-Trichlorobenzene | 5.0 | N.D. |
| Chloroform | 2.0 | N.D. | 1,1,1-Trichloroethane | 2.0 | N.D. |
| Chloromethane | 5.0 | N.D. | 1,1,2-Trichloroethane | 2.0 | N.D. |
| 2-Chlorotoluene | 5.0 | N.D. | Trichloroethene | 2.0 | N.D. |
| 4-Chlorotoluene | 5.0 | N.D. | Trichlorofluoromethane | 5.0 | N.D. |
| Dibromochloromethane | 2.0 | N.D. | 1,2,3-Trichloropropane | 10 , | N.D. |
| 1,2-Dibromo-3-chloropropane | 5.0 | N.D. | 1,2,4-Trimethylbenzene | 2.0 | N.D. |
| 1,2-Dibromoethane | : 2.0 | N.D. | 1,3,5-Trimethylbenzene | 2.0 | N.D. |
| Dibromomethane | 2.0 | N.D. | Vinyl chloride | 5.0 | N.Ď. |
| 1,2-Dichlorobenzene | 2.0 | N.D. | o-Xylene | 2.0 | N.D. |
| 1,3-Dichlorobenzene | 2.0 | N.D. | m,p-Xylenes | 2.0 | N.D. |
| 1,4-Dichlorobenzene | 2.0 | N.D. | | | |
| Dichlorodifluoromethane | 5.0 | N.D. | | | |
| 1,1-Dichloroethane | 2.0 | N.D. | | | |
| 1,2-Dichloroethane | 2.0 | N.D. | | , | |
| 1,1-Dichloroethene | 5.0 | N.D. | | į | |
| cis-1,2-Dichloroethene | 2.0 | N.D. | | | |
| trans-1,2-Dichloroethene | 2.0 | N.D. | | | |
| 1,2-Dichloropropane | 2.0 | N.D. | | | |
| 1,3-Dichloropropane | 2.0 | N.D. | | | : |
| 2,2-Dichloropropane | 2.0 | N.D. | • | | |
| 1,1-Dichloropropene | 2.0 | N.D. | | | |
| Ethylbenzene | 2.0 | N.D. | | | |
| Hexachlorobutadiene | 5.0 | N.D. | | | |

Analytes reported as N.D. were not present above the stated limit of detection.

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

DEL MAR ANALYTICAL, PHOENIX (IAZ # AZ0426)

Laboratory Manager

| Surrogate Standard Recoveries (Accept | t. Limits): |
|---------------------------------------|-------------|
| Dibromofluoromethane (80-120) | 92% |
| Toluene-d8 (81-117) | 92% |
| 4-Bromofluorobenzene (74-121) | 108% |



2852 A ... Irvine, CA 92714

16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 2465 W. 12th St., Suite 1, Tempe, AZ 85281 (714) 261-1022 FAX (714) 261-1228 (909) \$70-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (602) 968-8272 FAX (602) 968-1338

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E Client Project ID: Westates Carbon

Sampled: Nov 10, 1994 Received: Nov 10, 1994

Parker, AZ 85344 Attention: Marcia Going Sample Descript Soil, Spill Soil Lab Number: 4110526

Analyzed: Nov 14, 1994 Reported; Nov 14, 1994

SEMI-VOLATILE ORGANICS by GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

Analyte

Detection Limit µg/Kg (ppb) Sample Result

(bbp)

No additional peaks > 250 µg/kg were identified by the Mass Spectral Library.

Analysis completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

WWWWWW Michael R. Giles Laboratory Manager Please Note:

All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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4 10515,WCA <11 of 18>

Sampled:



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Nov 10, 1994

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el Mar Analytical

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E Parker, AZ 85344 Attention: Marcia Going

Client Project ID: Westates Carbon

Sample Descript Soil, Background Lab Number:

Received: Nov 10, 1994 Analyzed: Nov 14, 1994 Reported: Nov 14, 1994

ORGANOCHLORINE PESTICIDES AND PCBs (EPA 8080)

| Analyte | Detection Limit
µg/Kg
(ppb) | | Sample Result
µg/Kg
(ppb) |
|---------------------|-----------------------------------|---|---------------------------------|
| Aldrin | 5.0 | 1111111111111 | N.D. |
| alpha-BHC | 5.0 | *********************************** | N.D. |
| beta-BHC | 5,0 | ******* | N.D. |
| delta-BHC | 10 | ************************************** | N.D. |
| gamma-BHC (Lindane) | 5.0 | ******* | N.D. |
| Chlordane | 10 | *************************************** | N.D. |
| 4,4'-DDD. | 10 | | N.D. |
| 4,4'-DDE | 5.0 | 441414444444444444444444444444444444444 | N.D. |
| 4,4'-DDT | 10 | *************************************** | N.D. |
| Dieldrin | 5.0 | ****************************** | N.D. |
| Endosulfan I | 10 | ********** | N.D. |
| Endosulfan II. | 5.0 | | N.D. |
| Endosulfan sulfate. | 50 | ********** | N.D. |
| Endrin | 10 | | N.D. |
| Endrin aldehyde | 15 | *************************************** | N.D. |
| Heptachlor, | 5.0 | | N.D. |
| Heptachlor epoxide | 5.0 | | N.D. |
| Methoxychlor | 150 | | N.D. |
| Toxaphene | 180 | | , N.D. |
| PCB-1018 | 50 | | i N.D. |
| PCB-1221 | 50 | | N.D. |
| PCB-1232 | 50 | | N.D. |
| PCB-1242 | 50 | ************ | N.D. |
| PCB-1248 | 50 | ************ | N.D. |
| PCB-1254 | 50 | *********** | N.D. |
| PCB-1260 | 50 | *************************************** | N.D. |

Analysis completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

LYTICAL_PHOENIX (AZ0426)

Michael R. Giles Laboratory Manager

Results pertain only to earniplies tested in the laboratory. This report shall not be



1014 E. Cooley Dr., Suite A. Colton, CA 92324

(909) 370-4667 FAX (909) 370-1046 (818) 779-1844 'FAX (818) 779-1843

16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 2465 W. 12th St., Suite 1, Tempe, AZ 85281

(602) 968-8272 FAX (602) 968-1338

(714) 261-1022 FAX (714) 261-1268

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E

Parker, AZ 85344 Attention: Marcia Going Client Project ID: Westates Carbon

Sample Descript: Soil, Spill Soil Lab Number: 4110526

Nov 10, 1994 Sampled: Received: Nov. 10, 1994 3

Analyzed: Nov 14, 1994 Reported: Nov 14, 1994

ORGANOCHLORINE PESTICIDES AND PCBs (EPA 8080)

| Analyte | Detection Limit
µg/Kg | | Sample Result
µg/Kg |
|---------------------|--------------------------|---|------------------------|
| | (ppb) | | (ppb) |
| Aldrin | 5.0 | *************************************** | N.D. |
| alpha-BHC | 5.0 | P************************************* | N.D. |
| beta-BHC | 5.0 | | N.D. |
| delta-BHC | 10 | *************************************** | N,D. |
| gamma-BHC (Lindane) | 5.0 | ********** | N.D. |
| Chlordane | 10 | *************************************** | N.D. |
| 4,4'-DDD | 10 | *********** | N.D. |
| 4,4'-DDE | 5.0 | *********** | N.D. |
| 4,4'-DDT | - 10 | *************************************** | N.D. |
| Dieldrin | 5.0 | *************************************** | N.D. |
| Endosulfan I | 10 | *************************************** | N.D. |
| Endosulfan II | 5.0 | ****************************** | N.D. |
| Endosulfan sulfate | 50 | | N.D. |
| Endrin | 10 | *************************************** | N.D. |
| Endrin aldehyde | 15 | | N.D. |
| Heptachlor | 5.0 | *************************************** | N.D. |
| Heptachlor epoxide | 5.0 | | N.D. |
| Methoxychlor | 150 | | N.D. |
| Toxaphene | 180 | | N.D. |
| PCB-1016 | 50 | *************************************** | N.D. |
| PCB-1221 | 50 | | N.D. |
| PCB-1232 | 50 | | N.D. |
| PCB-1242 | 50 | | N.D. |
| PCB-1248 | 50 | | N.D. |
| PCB-1254 | 50 | | N.D. |
| PCB-1260 | 50 | *************************************** | N.D. |

Analysis completed at Del Mar Analytical (RVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

VALYTICAL, PHOENIX (AZ0426)

Michael R. Giles Laboratory Manager Westates Carbon Inc.

2523 Mutahar Street Parker, AZ 85344 Attention: Marcia Going



2852 Alton Ave., Invine, CA 92714 1014 E. Cooley Dr., Suite A. Cotton, CA 92524 16525 Sherman Way, Suite C-11, Van Huys, CA 91406

2465 W. 12th St., Suite 1, Tempo, AZ 85281

(714) 261 1022 FAX (714) 261-1278 (2009) 370-4667 FAX (909) 370 1046 (818) 779-1844 FAX (810) 779-1843 (602) 968-8277 FAX (602) 968-1338

Client Project ID: WCAI

Sample Descript: Soil

First Sample #: DL01185

Sampled: Dec 6, 1994 Received: Dec 7, 1984

Received: Dec 7, 1994 Analyzed: Dec 19, 1994 Reported: Dec 20, 1994

LEAD (EPA 6010)

| Laboratory
Number | Sample
Description | Detection Limit
mg/Kg
(ppm) | Sample
Result
mg/Kg
(ppm) |
|----------------------|-----------------------|-----------------------------------|------------------------------------|
| DL01185 | Impacted I | 0.50 | 1.2 |
| DL01186 | Impacted II | 0.50 | 1.6 |
| DL01187 | Impacted III | 0.50 | 2.0 |
| DL01188 | Impacted IV | 0,50 | 1.0 |
| DL01189 | Impacted V | 0.50 | 1.8 |
| DL01190 | Impacted VI | 0.50 | 1.3 |
| DL01191 | Soil | 0.50 | 1.3 |
| DL01192 | Soil II | 0.50 | 1.5 |
| DL01193 | Soll III | 0.50 | 1.7 |
| DL01194 | Soil IV | 0.50 | 1.2 |

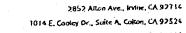
Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Del Mar Analytical

;12-20-94 ; 16:45 ;

IRVINE 71426



(909) 370-4667 TAX (909) 370-1046 (816) 779-1844 FAX (818) 779-1843

2465 W. 12th St., Suite 1, Tempe, AZ 85281

16525 Sherman Way, Suite C-11, Van Nuys, CA 91406

(602) 968-8277 FAX (602) 966-1358

Westates Carbon Inc. 2523 Mutahar Street

Parker, AZ 85344 Attention: Marcia Going

Client Project ID: WCAI

Sample Descript: Soil First Sample #: DL01195

Dec 6, 1994 g Sampled: Dec 7, 1994 Received: Analyzed: Dec 19, 1994

Dec 20, 1994 Reported:

LEAD (EPA 6010)

| Laboratory
Number | Sample
Description | Detection Limit
mg/Kg
(ppm) | Sample
Result
mg/Kg
(ppm) |
|----------------------|-----------------------|-----------------------------------|------------------------------------|
| DL01195 | Soil V | 0.50 | N.D. |
| DL01196 | Soil VI | 0.50 | 1.8 |

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)



2852 Alton Ave., Irvinc, CA 92714 1014 E. Cooley Dr., Sulte A, Cotton, CA 92324

[714] 261 1032 FAX [714] 261-1228 (909) 370-4667 FAX (909) 570-1046

16525 Sherman Way, Suite C-11, Van Noys, CA 91406 2465 W. 12th St., Suite 1, Temps, AZ 85281 (818) 779-1844 FAX (818) 779-1843 (607) 968-8272 FAX (CO2) 968-1336

Westates Carbon Inc. 2523 Mutahar Street Parker, AZ 85344 Attention: Marcia Going Client Project ID: WCAI

Sample Descript: Soll

First Sample #: DL01185

Sampled: Dec 6, 1994 # Dec 7, 1994 Received:

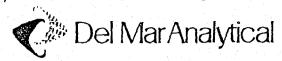
Dec 19, 1994 Analyzed: Dec 20, 1994 2 Reported:

CHROMIUM (EPA 6010)

| Laboratory
Number | Sample
Description | Detection Limit
mg/Kg
(ppm) | Sample
Result
mg/Kg
(ppm) |
|----------------------|-----------------------|-----------------------------------|------------------------------------|
| DL01185 | Impacted I | 0.50 | 4.8 |
| DL01186 | Impacted II | 0.50 | 2.5 |
| DL01187 | Impacted III | 0.50 | 2.8 |
| DL01188 | Impacted IV | 0.50 | 3.8 |
| DL01189 | Impacted V | 0.50 | 3.8 |
| DL01190 | Impacted VI | 0.50 | 4.6 |
| DL01191 | Soil I | 0.50 | 5.0 |
| DL01192 | Sail II | 0.50 | 3.9 |
| DL01193 | Soil III | 0.50 | 2.6 |
| DL01194 | Soil IV | 0.50 | 4.0 |

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)



2852 Alton Ave., Invine, CA 97714 (714) 261 1072 FAX (714) 261-1278 1014 E. Caoley Dr., Suite A. Colton, CA 97524 (909) 370 4667 FAX (909) 370 1046

(818) 779-1844 FAX (818) 779-1845

16525 Sherman Way, Stirr C-11, Van Nisys, CA 91406 2465 W. 12th SL, Suite 1, Tempe, AZ 85781

(607) 060-8272 FAX (602) 968-1338

Westates Carbon Inc. #2523 Mutahar Street ËParker, AZ 85344 EAttention: Marcla Going

Client Project ID: WCAI

Sample Descript: Soil First Sample #: DL01195

Sampled: Dec 6, 1994 # Dec 7, 1994 Received:

Analyzed: Dec 19, 1994 Dec 20, 1994 # Reported:

CHROMIUM (EPA 6010)

| Laboratory
Numb e r | Sample
Description | Detection Limit
mg/Kg
(ppm) | Sample
Result
mg/Kg
(ppm) | | | |
|-----------------------------------|-----------------------|-----------------------------------|------------------------------------|--|--|--|
| DL01195 | Soil V | 0.50 | 4.2 | | | |
| DL01196 | Soil VI | 0.50 | 4.7 | | | |

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)



2852 Alton Ave., Irvine, CA 92/14 1014 E. Cooley Dr., Suite A. Colton, CA 92524 [714] 261-1072 FAX (714) 261-1228 DOS 370 4667 FAX 1909 5 10-1046

16525 Sherman Way, Suite C 11, Van Nuys, CA 91406 2465 W. 12th St., Suite 1, Tempe, A7, 85281 (815) 779-1844 FAX (616) 779-1843 (602) 968 8277 FAX (602) 968-1338

Westates Carbon Inc. 2523 Mutahar Street Parker, AZ 85344 Attention; Marcia Going Client Project ID: WCAI

Sample Descript Soil First Sample #: DL01185

Sampled: Received:

Dec 6, 1894

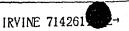
Analyzed: Reported: Dec 6, 1894 Dec 7, 1994 Dec 19, 1994 Dec 20, 1994

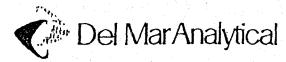
BARIUM (EPA 6010)

| Laboratory
Number | Sample
Description | Detection Limit
mg/Kg
(ppm) | Sample
Result
mg/Kg
(ppm) |
|----------------------|-----------------------|-----------------------------------|------------------------------------|
| DL01185 | Impacted I | 0.50 | 78 |
| DL01186 | Impacted II | 0.50 | 46 |
| DL01187 | impacted III | 0.50 | 66 |
| DL01188 | Impacted IV | 0.50 | 57 |
| DL01189 | Impacted V | 0.50 | 64 |
| DL01190 | Impacted VI | 0.50 | 58 |
| DL01191 | Soil | 0.50 | 73 |
| DL01192 | Soil II | 0.50 | 71 |
| DL01193 | Sollil | 0.50 | 60 |
| DL01194 | Soil IV | 0.50 | .71 |

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)





2852 Alton Ave., Irvino, CA 92714 1014 F. Cooley Dr., Suite A. Colton, CA 92324

(714) 261-1022 FAX (714) 261-1228 (909) 370 4667 FAX (909) 370-1046 (818) 779 1844 FAX (818) 779-1845

16525 Shorman Way, Suite C-11, Van Nuye, CA 91406 2465 W, 12th St., Sulle 1, Temps, AZ 85281

(602) 968-8272 FAX (602) 968-1334

Westates Carbon Inc. 2523 Mutahar Street Parker, AZ 85344 Attention: Marcia Going Client Project ID: WCAI

Sample Descript Soil First Sample #: DL01195

Dec 6, 1994 E Dec 7, 1994 E Dec 19, 1994 E Dec 20, 1994 E Sampled: Received: Analyzed: Reported:

BARIUM (EPA 6010)

| Laboratory
Number | Sample
Description | Detection Limit
mg/Kg
(ppm) | Sample
Result
mg/Kg
(ppm) |
|----------------------|-----------------------|-----------------------------------|------------------------------------|
| DL01195 | Soil V | 0.50 | 63 |
| DL01196 | Soil VI | 0.50 | 73 |

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)



Ave., Irving, CA 92714

(7) 4) 261-1072 FAX (714) 261-(909) 370-4667 FAX (909) 370-

1014 E. Cooley Dr., Suite A. Colton, CA 92324 16525 Sherman Way, Suite C-11, Van Nuys, CA 91406

(8) 8) 779-1844 FAX (818) 779-

2465 W. 12th St., Suite 1, Tempe, AZ 85281

(602) 968-82 72 FAX (602) 968-

Westates Carbon Arizona

Parker, AZ 85344

Client Project ID: Westates Carbon

Sampled: Nov 10, 1994

2523 Mutahar St., P.O. Box E

Sample Descript: Soil, Background

Received: Nov 10, 1994 Analyzed:

Lab Number: 4110611

Nov 14, 1994 Reported: Nov 14, 1994

ALCOHOL SCAN by GC/FID (EPA 8015 Modified)

| Analyte | Detection Limit
mg/Kg
(ppm) | | Sample Result
mg/Kg
(ppm) |
|--------------------------------------|-----------------------------------|---|---------------------------------|
| 1-Butanol | 5.0 | *************************************** | N.D. |
| 2-Butanol | 5.0 | *************************************** | N.D. |
| Ethanol | 5.0 | | N.D. |
| Isobutanol (2-Methyl-1-Propanol) | 5.0 | | N.D. |
| Isopropanol | 5.0 | *************************************** | N.D. |
| Methanol | 5.0 | | N.D. |
| 2-Methyl-1-Butanol | 5.0 | *************************************** | N.D. |
| 2-Methyl-2-Butanol | 5.0 | *************************************** | N.D. |
| 3-Methyl-1-Butanol (Isoamyl Alcohol) | 5.0 | ********* | N.D. |
| 2-Methyl-2-Propanol | 5.0 | ********** | N.D. |
| 1-Pentanol | 5.0 | *************************************** | N.D. |
| 3-Pentanol | 5.0 | 4348444444 | N.D. |
| 1-Propanol | 5.0 | *************************************** | N.D. |

Analysis completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Laboratory Manager

Results pertain only to samples tested in the teboratory. This report shall not be



16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 2465 W, 12th St., Suite 1, Tempe, AZ 85081 (714) 261-1022 FAX (714) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1842 (602) 968-8272 FAX (602) 968-1538

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E

Parker, AZ 85344
Attention: Marcia Going

Client Project ID: Westates Carbon

Sample Descript: Soil, Spill Soil Lab Number: 4110526

Received: Analyzed:

Sampled:

Nov 10, 1994 Nov 10, 1994 Nov 14, 1994

Reported: Nov 14, 1994

ALCOHOL SCAN by GC/FID (EPA 8015 Modified)

| Analyte | | Detection Limit
mg/Kg
(ppm) | | Sample Result
mg/Kg
(ppm) |
|--------------------------------------|----------------|-----------------------------------|---|---------------------------------|
| 1-Butanol | | 5.0 | | N.D. |
| 2-Butanoi | 4 | 5.0 | | N.D. |
| Ethanol |
 | 5.0 | | N.D. |
| Isobutanol (2-Methyl-1-Propanol) | | 5.0 | *************************************** | N.D. |
| Isopropanol | | 5,0 | | N.D. |
| Methanol | İ | 5.0 | | N.D. |
| 2-Methyl-1-Butanol | | 5.0 | | N.D. |
| 2-Methyl-2-Butanol | | 5.0 | | N.D. |
| 3-Methyl-1-Butanol (Isoamyl Alcohol) | | 5.0 | | N.D. |
| 2-Methyl-2-Propanol | ,,,,,,, | 5.0 | | N.D. |
| 1-Pentanol | ********** | 5.0 | | N.D. |
| 3-Pentanol | | 5.0 | | N.D. |
| 1-Propanol | | 5.0 | j | N.D. |

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Michael R. Giles Laboratory Manager

2852 A ve., Irvine, CA 92714 1014 E. Cooley Dr. A. Colton, CA 92324 (7)4) 261-1022 FAX (7)4) 261-122-1909) 370-4667 FAX (909) 370-104-

16525 Sherman Way, Suite C-11, Van Nuys, CA 9 406 (818) 779-1844 FAX (818) 779-1847 : 2465 W, 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Del MarAnalyical

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E Parker, AZ 85344 Attention: Marcia Going

Client Project ID: Westates Carbon

Sample Descript: Soil, Background

Lab Number: 4110611

Sampled: N Relogged: N

Nov 10, 1994 Nov 21, 1994 Nov 23, 1994

Analyzed: Reported:

Dec 1, 1994

LABORATORY ANALYSIS

| Analyte | | EPA
Method | Detection
Limit
mg/Kg
(ppm) | Sample
Result
mg/Kg
(ppm) |
|-----------------------|---|------------------------------|--------------------------------------|------------------------------------|
| BariumCadmiumChromium | : | 6010
6010
6010
6010 | 0.50
0.10
0.50
1.0 | 41
N.D.
3.1
3.9 |

Analysis was completed at Del Mar Analytical-Irvine (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Michael R. Giles Laboratory Manager

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4110526.WCA <2 of 3>

Reported:



(714) 261-1022 FAX (714) 261-1-2: (909) 370-4667 FAX (909) 370-10

(818) 779-1844 FAX (818) 779-18



16525 Sherman Way, Suite C-11, Van Nuys, CA 9 406 1 2465 W. 12th St., Suite 1, Tempe, AZ 85281

(602) 968-8272 FAX (602) 968

Dec 1, 1994

Westates Carbon Arizona \$2523 Mutahar St., P.O. Box E

Parker, AZ 85344 Attention: Marcia Going Client Project ID: Westates Carbon

Sample Descript: Soil, Spill Soil Lab Number: 4110526

Sampled: Nov 10, 1994 Relogged: Nov 21, 1994 Nov 23, 1994 Analyzed:

LABORATORY ANALYSIS

| Analyte | EPA
Method | Detection
Limit
mg/Kg
(ppm) | | Sample
Result
mg/Kg
(ppm) |
|-----------|---------------|--------------------------------------|------|------------------------------------|
| Barium | 6010 . | 0.50
0.10 |
 | 83
N.D. |
| Chromium. | 6010 | 0.50 | | 4.4 |

Analysis was completed at Del Mar Analytical-Irvine (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Michael R. Glles Laboratory Manager

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4110526.WCA <1 of 3>

FINAL CONCLUSIONS FOR NOVEMBER 10, 1994 LIFT STATION INCIDENT

It is very apparent, based on the analysis of organics and metals for both the impacted and non-impacted soil are statistically the same. Therefore, there is no supporting evidence of contamination to the soil due to the spill which occurred at the Westates Carbon-Arizona, Inc. lift station on November 10, 1994.

Attached to this conclusion are two methods of statistic evaluation for the metals which show the hypothesis is accepted.

The soil will be handled as a clean material.

| | 1), | 1. |
|-------|----------|-----------|
| برگو_ | <u> </u> | CHOOSE OL |

LET CL = 0.05 (95% CONFINENCE INTERVAL, 1.0 THE
INTERVAL MICLUSES THE TOUR AVERAGE "95% OF THE TIME.

(2) N = 7 $|b'_1 - \alpha|_2 = 0.347 \quad \text{(From Table A-13)}$

 $(3) \overline{X}_{A} = 13.1/7 = 1.87 = 1MPACTED$ $\overline{X}_{B} = 11.9/7 = 1.70 = NON-IMPACTED$

(4) WA = 4.2-1 = 3.2

We = 39-5=34

 $(5) = \frac{1}{2} + \frac{1}{2} = \frac{1}{2}$

(C) IF 18/ >P-0/2, CONCLUDE THAT THE AVERAGES OF THE

PRODUCT DIRECT OTHERWISE THERE IS NO REACOND

(7) SINCE DOSIS IS NOT LARLER THAN 0.306 THERE IS NO REASON TO RELIEVE THAT THE AVERAGE OF THE IMPACTED

SAMPLES WOLLES From THE NOW-IMPACTED.

MPKins

SENT BY:

4-28-95

12:10;

MAR→

2465 W. 12th SL, Suito 1, Tempo, AZ 85281

1 602 669 5775;# 4/21

92324 (9

(909) 370-4661 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843

1014 E. Cooley Dr., Sutte A, Collon, CA 92324 16525 Sherman Way, Sulto C-11, Van Nuys, CA 91406

[602] 960-8272 FAX (602) 968-1338

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E

Del Mar Analytical

Parker, AZ 85344 Attention: Marcia Going Client Project ID: Lift Station Release

Sample Descript: Soil, 18' non Lab Number: 5040625 Sampled: Received:

Apr 17, 1995

Analyzed: Reported:

Apr 20, 1995 Apr 28, 1995

TOTAL METALS

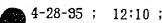
| Analyte | EPA
Method | Detection
Limit
mg/Kg
(ppm) | Sample
Result
mg/Kg
(ppm) |
|----------|---------------|--------------------------------------|------------------------------------|
| Barium | 6010 | 0.50 |
83 |
| Chromium |
6010 | 0.50 | 6.2 |
| Lead |
6010 | 0.50 |
4.6 |

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

REL MAR ANALYTICAL, PHOENIX (AZ0426)

Denise Van Rooy Project Manager





1 602 669 5775;# 6/2.

1014 F. Cooky Dr., Suite A, Colton, CA 92324 16525 Sherman Way, Suite C-11, Van Nuys, CA 91406

2465 W. 12th St., Suite: 1, Tempo, AZ 85281

(909) 370-1667 FAX (909) 370-104 (810) 779 1844 FAX (818) 779-184 (602) 960-8272 FAX (602) 960-1353

Del Mar Analytical

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E Parker, AZ 85344 Attention: Marcia Going Client Project ID: Lift Station Release

Sample Descript: Soil, 59' non Lab Number: 5040627 Sampled: Apr 17, 1995
Received: Apr 17, 1995
Analyzed: Apr 20, 1995
Reported: Apr 28, 1995

TOTAL METALS

| Analyte | EPA
Method | Detection
Limit
mg/Kg
(ppm) | | Sample
Result
mg/Kg
(ppm) |
|----------|---------------|--------------------------------------|---|------------------------------------|
| Barium | 6010 · | 0.50 | | 63 |
| Chromium | 6010 | 0.50 | | 3.5 |
| Lead | 6010 | 0.50 | *************************************** | 3.0 |

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Denise Van Rooy Project Manager FILE COPY

4-28-95 ;

12:11;

602 669 5775;# 7/21

1014 F. Cooley Dr., Suite A, Colton, CA 92324 16525 Sherman Way, Suite C-11, Van Nuys, CA 91406

(909) 370 4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779 1843

2465 W. 12th St., Suite 1, Tompe, AZ 85281

(602) 968-8272 FAX (607) 968-1338

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E

Del Mar Analytical

Client Project ID: Lift Station Release

Apr 17, 1995 Apr 17, 1995 Apr 20, 1995 Sampled: Received:

Parker, AZ 85344 Rattention: Marcia Going

Sample Descript: Soil, 483' non Lab Number: 5040628

Analyzed: Reported: Apr 28, 1995

TOTAL METALS

| Analyte | EPA
Method | Detection
Limit
mg/Kg
(ppm) | | Sample
Result
mg/Kg
(ppm) |
|----------|---------------|--------------------------------------|---|------------------------------------|
| Barium | 6010 : | 0.50 | | 53 |
| Chromium | 6010 | 0.50 | *************************************** | 6.3 |
| Lead | 6010 | 0.50 | ·
 | 2.5 |

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

'UEL MAR ANALYTICAL, PHOENIX (AZ0426)

Denise Van Rooy Project Manager

writes tested in the inhoratory. This recort shall rail be

12:11;

1 602 669 5775;# 9/21

c., Irvine, CA 92714

1014 E. Cooloy Dr., Suite A. Colton, CA 92324 16525 Shorman Way, Suite C 11, Van Nuys, CA D1406

(909) 370 4667 FAX (909) 570-1046 (818) 779 1844 FAX (818) 179 1843

2465 W. 12th St., Suite 1, Tempe, AZ 85281

(602) 968-8272 FAX (602) 968-1338

(714) 261-1022 FAX (714) 261-1228

∰Westates Carbon Arizona 2523 Mutahar St., P.O. Box E Parker, AZ 85344 Attention: Marcia Going

Del Mar Analytical

Client Project ID: Lift Station Release

Sample Descript: Soil, Road End Non Lab Number:

5040630

Sampled: Apr 17, 1995 Received: Apr 17, 1995 Analyzed:

Apr 26, 1995 Reported: Apr 28, 1995

TOTAL METALS

| Analyte | EPA
Method | Detection
Limit
mg/Kg
(ppm) | Sample
Result
mg/Kg
(ppm) |
|--------------------|----------------------|--------------------------------------|------------------------------------|
| BariumChromiumLead | 6010
6010
6010 | 0.50
0.50
1.0 | 28
1.9
2.1 |

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Debise Van Rooy Project Manager





1014 E. Cooley Dr., Sutto A. Colton, CA 92524

(818) 779-1844 FAX (818) 779-1843

16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 2465 W. 17th St., Suite 1, Temps, AZ 85781 (GO2) 968 8272 FAX (GO2) 968 1338

₩Westates Carbon Arizona 🛱 2523 Mutahar St., P.O. Box E

Del Mar Analytical

Client Project ID: Lift Station Release

Sampled: Received:

Apr 17, 1995 Apr 17, 1995

[®]Parker, AZ 85344 Attention: Marcia Going

Sample Descript: Soil, 20' impacted Lab Number.

5040626

Analyzed: Reported:

Apr 20, 1995 € Apr 28, 1995∰

TOTAL METALS

| Analyte | EPA
Method | Detection
Limit
mg/Kg
(ppm) | | Sample
Result
mg/Kg
(ppm) |
|----------|---------------|--------------------------------------|--------------|------------------------------------|
| Barium | 6010 | 0,50 | | 97 |
| Chromium | 6010 | 0.50 | ************ | 9.5 |
| Lead | 6010 | 0.50 | ************ | 5.4 |

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Denise Van Rooy Project Manager

" SENT BY:

4-28-95; 12:11;

1 602 669 5775;# 8/21,

lyc., Irvine, CA 92714

[/14] 261 1022 FAX (714) 261-1228 (909) 370-4667 FAX (909) 370 1046

16525 Sherman Way, Sulte C-11, Van Nuys, CA 91406 2465 W. 12th St., Suite 1, Tempe, AZ 85281

1014 E. Conley Dr., Suite A. Cultun, CA 02324

IB181 779-1844 FAX (818) 779-1843 (602) 968-8272 FAX (602) 968-1558

Del Mar Analytical

Client Project ID: Lift Station Release

Sampled: Apr 17, 1995∰ Received: Apr 17, 1995 Analyzed:

Sample Descript: Soil, Road End Impacted

Reported:

Apr 20, 1995 Apr 28, 1995

Parker, AZ USS Attention: Marcia Going Parker, AZ 85344

Westates Carbon Arizona

2523 Mutahar St., P.O. Box E

Lab Number: 5040629

TOTAL METALS

| Analyte | EPA
Method | Detection
Limit
mg/Kg
(ppm) | | Sample
Result
mg/Kg
(ppm) |
|----------|---------------|--------------------------------------|---|------------------------------------|
| Barium |
6010 | 0.50 | | 54 |
| Chromium |
6010 | 0.50 | | 3.5 |
| Load |
6010 | 0.50 | *************************************** | 2.1 |

Analysis was completed at Dei Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

nise Van Rooy Project Manager

1 602 669 5775;#11/21

1014 E. Cooley Dr., Suite A, Colton. CA 92324

[714] 261-1022 FAX [714] 261-1221 (909) 370-4667 FAX (909) 370-1044

16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 2465 W. 12th St., Suite 1, Tempe, AZ 85281 (818) 779-1844 FAX (818) 779-1841 (GO2) 9G8-8272 FAX (GO2) 9G8-1334

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E Parker, AZ 85344 Attention: Marcia Go

Attention: Marcia Going

Del Mar Analytical

Client Project ID: Lift Station Release

Sampled: Received:

Apr 17, 1995 Apr 17, 1995

Sample Descript: Water, 483' impacted Lab Number:

Analyzed:

Apr 20, 1995

Reported:

Apr 28, 1995

TOTAL METALS

| Analyte | | EPA
Method | Detection
Limit
mg/L
(ppm) | | Sample
Result
mg/L
(ppm) |
|---------|-------------|---------------|-------------------------------------|---|-----------------------------------|
| Barium | | 200.7 | 0.050 | | 0.24 |
| | *********** | 200.7 | 0.0050 | | 0.013 |
| | | 239.2 | 0.0050 | *************************************** | 0.029 |

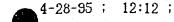
5040631

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

ĎEL MAR ANALYTICAL, PHOENIX (AZ0426)

denise Van Rooy Project Manager



1 602 669 5775;#10/21

1014 E. Cooley Dr., Suite A. Colton, CA 92324

2465 W. 12th St., Suite 1, Tempe, AZ 85281

16525 Shorman Way, Suite C 11, Van Nuys, CA 91406

(909) 570-4667 FAX (909) 570-1046 (818) 779-1844 FAX (818) 779-18-3

(602) 968 8272 FAX (602) 968-1338

[/14] 261-1022 FAX (714) 2G1-1226



Westates Carbon Arizona 囊2523 Mutahar St , P.O. Box E

🖁 Attention: Marcia Going Client Project ID: Lift Station Release

Sample Descript: Water, Road End Impacted

Lab Number: 5040629 Sampled: Apr 17, 1995

Received: Apr 17, 1995

Analyzed: Apr 20, 1995 Reported: Apr 28, 1995

TOTAL METALS

| Analyte | EPA
Method | Detection
Limit
mg/L
(ppm) | Sample
Result
mg/L
(ppm) |
|----------|---------------|-------------------------------------|-----------------------------------|
| Chromium | 200.7 | 0.050
0.0050
0.0050 |
0.33
N.D.
N.D. |

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

ĘL MAR ANALYTICAL, PHOENIX (AZ0426)

Denise Van Rooy Project Manager

THE PARTY OF THE P

4-28-95; 12:12;

Lab Number:

DELMAR-

1 602 669 5775;#12/21

28 n Ave., Irvine, CA 92/14

[714] 261-1022 FAX [714] 261-122 (909) 370 4667 FAX (909) 370-104

(010) 779-1044 FAX (R18) 779-184 2465 W. 12th St., Suite 1, Temps, A7 85281 (602) 968-8272 FAX (602) 968-135

1014 E. Cooley Dr., Suite A. Collon, CA 92324 16525 Sherman Way, Suite C 11, Van Nuys, CA 91406

Westates Carbon A 2523 Mutahar St., P Parker, AZ 85344 Westates Carbon Arizona 2523 Mutahar St., P.O. Box E #Attention: Marcia Going

Del Mar Analytical

Client Project ID: Lift Station Release

Sample Descript Soil, 18' non 5040625

Sampled: Received:

Apr 17, 1995 Apr 17, 1995

Reported:

Analyzed: Apr 21-22, 1995 Apr 28, 1995

ALCOHOL SCAN by GC/FID (EPA 8015 Modified)

| Analyte | Detection Limit
mg/Kg
(ppm) | | Sample Result
mg/Kg
(ppm) |
|--------------------------------------|-----------------------------------|---|---------------------------------|
| 1-Butanol | 5,0 | | N.D. |
| 2-Butanol | | | N.D. |
| Ethanol | • | | N.D. |
| Isobutanol (2-Methyl-1-Propanol) | | *************************************** | N.D. |
| Isopropanol | | ******* | N.D. |
| Methanol | | *************************************** | N.D. |
| 2-Methyl-1-Butanol | . 5.0 | *************************************** | N.D. |
| 2-Methyl-2-Butanol | . 5.0 | | N.D. |
| 3-Methyl-1-Butanol (Isoamyl Alcohol) | | | N.D. |
| 2-Methyl-2-Propanol | . 5.0 | | N.D. |
| 1-Pentanol. | | *********** | N.D. |
| 3-Pentanol | 5.0 | *************************************** | N.D. |
| 1-Propanol | . 5.0 | | N.D. |

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Laboratory Director

4-28-95; 12:13;

1 602 669 5775; #14/21

1014 E. Cooley Dr., Suite A. Colton, CA 92324

(909) 370-4667 FAX (909) 370-1046 (NIN) 779-1844 FAX (B18) 779-1845,

(714) 261 1022 FAX (714) 261-1220

2465 W. 12th St., Suite 1, Tempe, AZ 85281

16525 Sherman Way, Suite C-11, Van Nuys, CA 91406

(602) 968-8272 FAX (602) 968-1338

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E Parker, AZ 85344

Del Mar Analytical

Client Project ID: Lift Station Release

Sampled: Received:

Apr 17, 1995 Apr 17, 1995

Attention: Marcia Going

Sample Descript: Soil, 59' non

Analyzed: Apr 21-22, 1995 Apr 28, 1995

Lab Number:

5040627

Reported:

ALCOHOL SCAN by GC/FID (EPA 8015 Modified)

| Analyte | Detection Limit
mg/Kg
(ppm) | | Samplo Rosult
mg/Kg
(ppm) |
|--------------------------------------|-----------------------------------|---|---------------------------------|
| 1-Butanol | 5.0 | ••••• | N.D. |
| 2-Butanol | 5.0 | | N.D. |
| Ethanol | 5.0 | ************ | N.D. |
| Isobutanol (2-Methyl-1-Propanol) | 5.0 | *************************************** | N.D. |
| Isopropanol | 5.0 | | N.D. |
| Methanol | 5.0 | | N.D. |
| 2-Methyl-1-Butanol | 5.0 | | N.D. |
| 2-Methyl-2-Butanol | 5.0 | ************* | N.D. |
| 3-Methyl-1-Butanol (Isoamyl Alcohol) | 5.0 | ********* | N.D. |
| 2-Methyl-2-Propanol | 5.0 | *************************************** | N.D. |
| 1-Pentanol | 5.0 | *************************************** | N.D. |
| 3-Pentanol | 5.0 | *************************************** | N.D. |
| 1-Propanol | 5.0 | *************************************** | N.D. |

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Steube boratory Director

4-28-95; 12:13;

DELMAR→

1 602 669 5775;#15/21

(714) 261 1022 FAX (714) 261-1228 (909) 370-4667 FAX (909) 370-1046

1014 E. Cooley Dr., Suite A. Colton, CA 92324 16525 Sherman Way, Suite C-11, Van Nuys, CA 91406

(H1m) 779-1844 FAX (818) 779-1843

2465 W. 12th St., Suite 1, Tempe, AZ RS281

(602) 968-8272 FAX (602) 968 1558

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E Parker, AZ 85344

Del MarAnalytical

Client Project ID: Lift Station Release

Sampled: Received: Apr 17, 1995₽ Apr 17, 1995

Attention: Marcia Going

Sample Descript: Soil, 483' non Lab Number: 5040628

Reported:

Analyzed: Apr 21-22, 1995 Apr 28, 1995

ALCOHOL SCAN by GC/FID (EPA 8015 Modified)

| Analyte | Detection Limit
mg/Kg
(ppm) | | Sample Rosult
mg/Kg
(ppm) |
|--------------------------------------|-----------------------------------|---|---------------------------------|
| 1-Butanol | 5.0 | *************************************** | N.D. |
| 2-Butanol | 5.0 | *************************************** | N.D. |
| Ethanol., | 5.0 | ************************ | N.D. |
| Isobutanol (2-Methyl-1-Propanol) | 5.0 | ************************* | N.D. |
| Isopropanol | 5.0 | *********** | N.D. |
| Methanol | 5.0 | *************************************** | N.D. |
| 2-Methyl-1-Butanol | 5.0 | · | N.D. |
| 2-Methyl-2-Butanol | 5.0 | | N.D. |
| 3-Methyl-1-Butanol (Isoamyl Alcohol) | 5.0 | | N.D. |
| 2-Methyl-2-Propanol | 5.0 | | N.D. |
| 1-Pentanol | 5.0 | | N.D. |
| 3-Pentanol | 5.0 | *************************************** | N.D. |
| 1-Propanol | 5.0 | *************************************** | N.D. |

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

aboratory Director

4-28-95; 12:14;

DELMAR→

1 602 669 5775;#17/21

Ave., Irvine, CA 92714

(714) 261 1022 FAX (714) 261- 2

1014 E. Couley Dr., Suite A. Colton, CA 92524

(909) \$70 4667 FAX (909) \$70 10 (R18) 779 1844 FAX (B18) 779-18

1652S Sherman Way, Suite C-11, Van Nuys, CA 91406 2465 W. 12th St., Snite 1, Tempe, AZ 85281

(602) 968-8272 FAX (602) 968-13:

🖁 2523 Mutahar St., P.O. Box E Parker, AZ 85344

Client Project ID: Lift Station Release

Sampled: Received:

Apr 17, 1995 Apr 17, 1995

Sample Descript: Soil, Road End Non

Analyzed:

Apr 26, 1995

Attention: Marcia Going

Del MarAnalytical

Lab Number: 5040630 Reported:

Apr 28, 1995

ALCOHOL SCAN by GC/FID (EPA 8015 Modified)

| Analyte | Detection Limit
mg/Kg
(ppm) | | Sample Result
mg/Kg
(ppm) |
|--------------------------------------|-----------------------------------|---|---------------------------------|
| | | | |
| 1-Butanol | 5.0 | | N.D. |
| 2-Butanol | 5.0 | *************************************** | 37 |
| Ethanol | 5,0 | | N.D. |
| Isobutanol (2-Methyl-1-Propanol) | 5.0 | | N.D. |
| Isopropanol | 5.0 | *************************************** | 25 |
| Methanol | 5.0 | *************************************** | N.D. |
| 2-Methyl-1-Butanol | 5.0 | *************************************** | N.D. |
| 2-Methyl-2-Butanol | 5.0 | ************* | N.D. |
| 3-Methyl-1-Butanol (Isoamyl Alcohol) | 5.0 | | N.D. |
| 2-Methyl-2-Propanol | 5.0 | | N.D. |
| 1-Pentanol | 5.0 | | N.D. |
| 3-Pentanol. | 5.0 | *************************************** | N.D. |
| 1-Propanol | 5.0 | | N.D. |

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

REL MAR ANALYTICAL, PHOENIX (AZ0426)

Steube Laboratory Director

4-28-95 ; 12:13 ;

DELMAR→

1 602 669 5775;#13/21

Ave., Irvine, CA 92714

1014 E. Cooley Dr., Suite A. Calton, CA 92324 16525 Sherman Way, Suite C-11, Van Nuys, CA 91406

(818) 779 1844 FAX (818) 779-184

2465 W. 12th St., Suite 1, Tempe, A7 85281

(909) 370-4667 FAX (909) \$70-104 [602] 968-8277 FAX (G02) 968-133

(714) 261-1022 FAX (714) 261 123

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E

Del Mar Analytical

Client Project ID: Lift Station Release

Sampled: Received:

Apr 17, 1995 Apr 17, 1995

Parker, AZ 85344 Attention: Marcia Going

Sample Descript: Soil, 20' Impacted Lab Number: 5040626

Reported:

Analyzed: Apr 21-22, 1995 Apr 28, 1995

ALCOHOL SCAN by GC/FID (EPA 8015 Modified)

| Analyte | Detection Limit
mg/Kg
(ppm) | | Sample Result
mg/Kg
(ppm) |
|--------------------------------------|-----------------------------------|---|---------------------------------|
| 1-Butanol | 5.0 | 4444444444444 | N.D. |
| 2-Butanol | 5.0 | *************************************** | N.D. |
| Ethanol | 5.0 | | N.D. |
| Isobutanol (2-Methyl-1-Propanol) | 5.0 | | N.D. |
| Isopropanol | 5.0 | | N.D. |
| Methanol | 5.0 | **!*** | N.D. |
| 2-Methyl-1-Butanol | 5.0 | | N.D. |
| 2-Methyl-2-Butanol | 5.0 | | N.D. |
| 3-Methyl-1-Butanol (Isoamyl Alcohol) | 5.0 | | N.D. |
| 2-Methyl-2-Propanol | 5.0 | | N.D. |
| 1-Pentanol | 5.0 | ************* | N.D. |
| 3-Pentanol | 5.0 | ********* | N.D. |
| 1-Propanol | 5.0 | , | N.D. |

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

BEL MAR ANALYTICAL, PHOENIX (AZ0426)

Laboratory Director

Results partain only to samples tested in the laboratory. This report shall not be

12:14 ;

ELMAR→

1014 E. Cooley Dr., Suite A. Culton, CA 92324

1 602 669 5775;#16/21

(714) 261-1022 FAX (714) 261-122 1909) 570-4667 FAX (909) 370-104

(810) 779-1844 FAX (818) 779 124

16525 Sherman Way, Suite C 11, Van Nuys, CA 91406 2465 W. 12th St., Suite 1, Tempe, A7 85281

(602) 968-6272 FAX (602) 968-133

Del Mar Analytical

Westales Carbon Arizona 2523 Mutahar St., P.O. Box E

Parker, AZ 85344 Attention: Marcia Going Client Project ID: Lift Station Release

Sample Descript: Soil, Road End Impacted

Lab Number. 5040629 Sampled:

Apr 17, 1995

Received: Apr 17, 1995 Analyzed: Apr 21-22, 1995

Reported: Apr 28, 1995

ALCOHOL SCAN by GC/FID (EPA 8015 Modified)

| Analyte | Detection Limit
mg/Kg
(ppm) | Sample Result
mg/Kg
(ppm) |
|--------------------------------------|-----------------------------------|---------------------------------|
| 1-Butanol | 5.0 | N.D. |
| 2-Butanol | 5.0 | N.D. |
| Ethanol | 5,0 | N.D. |
| Isobutanol (2-Methyl-1-Propanol) | 5.0 | , N.D. |
| Isopropanol | 5.0 | N.D. |
| Methanol | 5.0 | N.D. |
| 2-Methyl-1-Butanol | 5.0 | N.D. |
| 2-Methyl-2-Butanol | 5,0 | , N.D. |
| 3-Methyl-1-Butanol (Isoamyl Alcohol) | 5.0 | N.D. |
| 2-Methyl-2-Propanol | 5.0 | N.D. |
| 1-Pentanol | 5.0 | N.D. |
| 3-Pentanol | 5.0 | N.D. |
| 1-Propanol | 5.0 | N.D. |

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

aboratory Director

2465 W, 12th St., Suite 1, Tempe, AZ 85281

16525 Sherman Way, Suite C-11, Van Nuys, CA 91406

Avc., Invine, CA 92714

1/14) 261 1022 FAX (714) 261-122 (909) 370-4667 FAX 1909) 370 104 (818) 779-1844 FAX (918) 779-104

(602) 96B-8272 FAX (602) 968 133



Westates Carbon Arizona

Parker, AZ 85344

Attention: Marcia Going

2523 Mutahar St., P.O. Box E

Client Project ID: Lift Station Release

Sample Descript: Water, 483' impacted Lab Number:

5040631

Sampled: Apr 17, 1995 Apr 17, 1995 Received: Analyzed: Apr 21-22, 1995 Reported: Apr 28, 1995

ALCOHOL SCAN by GC/FID (EPA 8015 Modified)

| Analyte | Detection Limit
mg/L
(ppm) | | Sample Result
mg/L
(ppm) |
|--------------------------------------|----------------------------------|---|--------------------------------|
| 1-Butanol | . 5.0 | *************************************** | N.D. |
| 2-Butanol | . 5.0 | ****** | N.D. |
| Ethanol | . 5.0 | , | N.D. |
| Isobutanol (2-Methyl-1-Propanol) | 5.0 | | N.D. |
| Isopropanol | 5.0 | *************************************** | N.D. |
| Methanol | 5.0 | *************************************** | N.D. |
| 2-Methyl-1-Butanol | 5.0 | •••••• | N.D. |
| 2-Methyl-2-Butanol | 5.0 | | N.D. |
| 3-Methyl-1-Butanol (Isoamyl Alcohol) | 5.0 | ******************************* | N.D. |
| 2-Methyl-2-Propanol | 5.0 | **** | N.D. |
| 1-Pentanol | | *************************************** | N.D. |
| 3-Pentanol | 5.0 | 4117,74 | N.D. |
| 1-Propanol | 5.0 | *************************************** | N.D. |

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Van Rooy Project Manager

4-28-95; 12:15 ; DELMAR→

1 602 669 5775;#18/21

2852 Ave., Irvine, CA 92/14 1014 E. Cooley Dr., Suite A. Colton, CA 92524

(714) 261-1022 FAX (714) 261-131 (909) 370-4667 FAX (909) 370-104 (818) 779-1844 FAX (818) 779-104.

16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 2465 W. 12th St., Suite 1, Tempo, A7 85281 (602) 968-8272 PAX (602) 968-1331



#Westates Carbon Arizona 2523 Mutahar St., P.O. Box E

Parker, AZ 85344 Attention: Marcia Going Client Project ID: Lift Station Release

Sample Descript: Water, Road End Impacted

Lab Number: 5040629

Sampled: Received:

Apr 17, 1995 Apr 17, 1995

Reported:

Apr 21-22, 1995 Analyzed: Apr 28, 1995

ALCOHOL SCAN by GC/FID (EPA 8015 Modified)

| Analyte | Detection Limit
mg/L
(ppm) | | Sample Result
mg/L
(ppm) |
|--------------------------------------|----------------------------------|---|--------------------------------|
| 1-Butanol | 5.0 | 444418444444444444444444444444444444444 | N.D. |
| 2-Butanol | 5.0 | *************************************** | N.D. |
| Ethanol | 5.0 | *************************************** | N.D. |
| Isobutanol (2-Methyl-1-Propanol) | 5.0 | | N.D. |
| Isopropanol | | | N.D. |
| Methanol | | ********** | N.D. |
| 2-Methyl-1-Butanol | 5.0 | | N.D. |
| 2-Methyl-2-Butanol | 5.0 | | N,D. |
| 3-Methyl-1-Butanol (Isoamyl Alcohol) | | | N.D. |
| 2-Methyl-2-Propanol | | | N.D. |
| 1-Pentanol | 5.0 | ***** | N.D. |
| 3-Pentanol | | ********** | N.D. |
| 1-Propanol | 5.0 | *************************************** | N.D. |

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

e Van Rooy Project Manager

2465 W. 12th St., Suito 1, Tempe, AZ 85281

16525 Sherman Way, Suite C-11, Van Nuys, CA 91406

1 602 669 5775;# 4 (714) 261-1022 FAX (714) 261-122:

(909) 570 4667 FAX (909) 370 104 (818) 779-1844 FAX (818) 779-184:

(602) 968 8272 FAX (602) 968 133



Westates Carbon Arizona 2523 Mutahar St., P.O. Box E Parker, AZ 85344 Attention: Marcia Going

Client Project ID: Lift Station Release

Sample Descript: Soil, 18' Non Lab Number: 5040625

Sampled: Apr 17, 1995 3 Received: Apr 17, 1995

Analyzed: Apr 20, 1995 Reported: Apr 28, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

| Acenaphthene | Analyte | Detection
Limit
µg/Kg
(ppb) | Sample
Result
µg/Kg
(ppb) | Analyte | Detection
Limit
µg/Kg
(ppb) | Sample
Result
µg/Kg
(ppb) |
|--|---------------------------------------|--------------------------------------|------------------------------------|--|--------------------------------------|------------------------------------|
| Acenaphthylene | | | | | | |
| Anilline | | | | | | |
| Anthracene | * . * | • | | * | | |
| Azobenzene | Aniline | | | • | | |
| Benzidine | Anthracene | | | · · · · · · · · · · · · · · · · · · · | 100 | N.D. |
| Benzoic Acid | Azobenzene | 150 | | 2,6-Dinitrotoluene | 100 | N.D. |
| Benz(a)anthracene | Benzidine | 1,000 | N.D. | Di-N-octyl phthalate | 500 | N.D. |
| Benzo(b)fluoranthene | Benzoic Acid | 500 | N.D. | Fluoranthene | 100 | N,D. |
| Benzo(k)fluoranthene 200 N.D. Hexachlorobutediene 100 N.D. Benzo(g),h.i)perylene 150 N.D. Hexachlorocytopentadiene 500 N.D. Benzo(a)pyrene 200 N.D. Hexachlorocytopentadiene 200 N.D. Benzyl alcohol 200 N.D. Indeno(1,2,3-cd)pyrene 200 N.D. Bis(2-chloroethoxy)methane 100 N.D. Isophorone 100 N.D. Bis(2-chloroisopropyl)ether 100 N.D. 2-Methylphaphthalene 100 N.D. Bis(2-chloroisopropyl)ether 100 N.D. 2-Methylphenol 150 N.D. Bis(2-chloroisophenyl phenyl ether 150 N.D. 2-Nitrophinol 150 N.D. Butyl benzyl phthala | Benz(a)anthracene | 100 | N.D. | Fluorene | 100 | N.D. |
| Benzo(g,h.i)perylene | Benzo(b)fluoranthene | 200 | N.D. | Hexachlorobenzene | 100 | N.D. |
| Benzo(a)pyrene | Benzo(k)fluoranthene | 200 | N.D. | Hexachlorobutediene | 100 | N.D. |
| Benzyl alcohol 200 N.D. Indeno(1,2,3-cd)pyrene 200 N.D. | Benzo(g,h,i)perylene | 150 | N.D. | Hexachlorocyclopentadiene | 500 | N.D. |
| Bis(2-chloroethoxy)methane | Benzo(a)pyrene | 200 | N.D. | Hexachloroethane | 200 | N.D. |
| Bis(2-chloroethoxy)methane | Benzyl alcohol | 200 | N.D. | Indeno(1,2,3-cd)pyrene | 200 | N.D. |
| Bis(2-chloroisopropyl)ether. 100 N.D. 2-Methylphenol. 150 N.D. Bis(2-ethylnexyl)phthalate. 250 N.D. 4-Methylphenol. 150 N.D. 4-Bromophenyl phenyl ether. 150 N.D. N.D. Naphthalene. 150 N.D. Butyl berzyl phthalate. 500 N.D. 2-Nitroaniline. 200 N.D. 4-Chloroaniline. 100 N.D. 3-Nitroaniline. 200 N.D. 2-Chloronaphthalene. 100 N.D. 4-Nitroaniline. 500 N.D. 2-Chloro-3-methylphenol. 100 N.D. 4-Nitroaniline. 500 N.D. 2-Chlorophenol. 250 N.D. N.D. Nitrobenzene. 500 N.D. 2-Chlorophenol. 250 N.D. N.D. N.D. N.D. N.D. 4-Chlorophenol. 250 N.D. 4-Nitrophenol. 500 N.D. Chrysene. 100 N.D. N.D. N-Nitrosodiphenylamine. 200 N.D. Dibenz(a | | 100 | N.D. | Isophorone | 100 | N.D. |
| Bis(2-chloroisopropyl)ether. 100 N.D. 2-Methylphenol. 150 N.D. Bis(2-ethylnexyl)phthalate. 250 N.D. 4-Methylphenol. 150 N.D. 4-Bromophenyl phenyl ether. 150 N.D. N.D. Naphthalene. 150 N.D. Butyl berzyl phthalate. 500 N.D. 2-Nitroaniline. 200 N.D. 4-Chloroaniline. 100 N.D. 3-Nitroaniline. 200 N.D. 2-Chloronaphthalene. 100 N.D. 4-Nitroaniline. 500 N.D. 2-Chloro-3-methylphenol. 100 N.D. 4-Nitroaniline. 500 N.D. 2-Chlorophenol. 250 N.D. N.D. Nitrobenzene. 500 N.D. 2-Chlorophenol. 250 N.D. N.D. N.D. N.D. N.D. 4-Chlorophenol. 250 N.D. 4-Nitrophenol. 500 N.D. Chrysene. 100 N.D. N.D. N-Nitrosodiphenylamine. 200 N.D. Dibenz(a | Bis(2-chloroethyl)ether | 100 | N.D. | 2-Methylnaphthalene | 100 | N.D. |
| Bis(2-ethylhexyl)phthalate | | 100 | N.D. | 2-Methylphenol | 150 | N.D. |
| 4-Bromophenyl phenyl ether 150 N.D. Naphthalene 150 N.D. Butyl berzyl phthalate 500 N.D. 2-Nitroaniline 200 N.D. 4-Chtoroaniline 100 N.D. 3-Nitroaniline 200 N.D. 2-Chloronaphthalene 100 N.D. 4-Nitroaniline 500 N.D. 4-Chloro-3-methylphenol 100 N.D. N.D. N.D. N.D. 2-Chlorophenol 250 N.D. N.D. 2-Nitrophenol 100 N.D. 4-Chlorophenyl phenyl ether 100 N.D. 4-Nitroshenol 500 N.D. 4-Chlorophenyl phenyl ether 100 N.D. 4-Nitroshenol 500 N.D. Chrysene 100 N.D. 4-Nitroshenol 500 N.D. Dibenz(a,h)anthracene 250 N.D. N-Nitroso-di-N-propylamine 150 N.D. Dibenz(a,h)anthracene 250 N.D. N.D. N-Nitroso-di-N-propylamine 150 N.D. Dibenz(a,h)anthracene 250 N.D. N.D. N.D. Pentachlorophenol 150 N.D | Bis(2-ethylhexyl)phthalate | 250 | N.D. | - · | 150 | N.D. |
| Butyl benzyl phthalate 500 N.D. 2-Nitroaniline 200 N.D. 4-Chtoroaniline 100 N.D. 3-Nitroaniline 200 N.D. 2-Chloropaphthalene 100 N.D. 4-Nitroaniline 500 N.D. 4-Chloro-3-methylphenol 100 N.D. N.D. Nitrobenzene 500 N.D. 2-Chlorophenol 250 N.D. 2-Nitrophenol 100 N.D. 4-Chlorophenyl phenyl ether 100 N.D. 4-Nitrophenol 500 N.D. 4-Chlorophenyl phenyl ether 100 N.D. 4-Nitrophenol 500 N.D. 4-Chlorophenyl phenyl ether 100 N.D. 4-Nitrophenol 500 N.D. Chrysene 100 N.D. N-Nitrosodiphenylamine 200 N.D. Dibenz(a,h)anthracene 250 N.D. N-Nitrosodiphenylamine 150 N.D. Dibenzofuran 100 N.D. N.D. Pentachlorophenol 500 N.D. 1,3-Dichlorobenzene 100 | 4-Bromophenyl phenyl ether | 150 | N.D. | | 150 | N.D. |
| 4-Chloroaniline 100 N.D. 3-Nitroaniline 200 N.D. 2-Chloronaphthalene 100 N.D. 4-Nitroaniline 500 N.D. 4-Chloro-3-methylphenol 100 N.D. N.D. Nitrobenzene 500 N.D. 2-Chlorophenol 250 N.D. 2-Nitrophenol 100 N.D. 4-Chlorophenyl phenyl ether 100 N.D. 4-Nitrophenol 500 N.D. Chrysene 100 N.D. N-Nitrosodiphenylamine 200 N.D. Dibenz(a,h)anthracene 250 N.D. N-Nitroso-di-N-propylamine 150 N.D. Dibenzofuran 100 N.D. Pentachlorophenol 500 N.D. Di-N-butyl phthalate 250 N.D. Phenanthrene 100 N.D. 1,3-Dichlorobenzene 100 N.D. Phenol 150 N.D. 1,4-Dichlorobenzene 100 N.D. Pyrene 150 N.D. 1,2-Dichlorobenzene 100 N.D. 1,2,4-Trichlorophenol 150 N.D. 2,4-Dichlorophenol 100 N. | Butyl berrzyl phthalate | 500 | N.D. | | 200 | N.D. |
| 4-Chloro-3-methylphenol 100 N.D. Nitrobenzene 500 N.D. 2-Chlorophenol 250 N.D. 2-Nitrophenol 100 N.D. 4-Chlorophenyl phenyl ether 100 N.D. 4-Nitrophenol 500 N.D. Chrysene 100 N.D. N-Nitrosodiphenylamine 200 N.D. Dibenz(a,h)anthracene 250 N.D. N-Nitroso-di-N-propylamine 150 N.D. Dibenzofuran 100 N.D. Pentachlorophenol 500 N.D. Di-N-butyl phthalate 250 N.D. Phenanthrene 100 N.D. 1,3-Dichlorobenzene 100 N.D. Phenol 150 N.D. 1,4-Dichlorobenzene 100 N.D. Pyrene 150 N.D. 1,2-Dichlorobenzene 100 N.D. 1,2,4-Trichlorobenzene 100 N.D. 3,3-Dichlorobenzidine 500 N.D. 2,4,5-Trichlorophenol 150 N.D. 2,4-Dichlorophenol 100 N.D. 2,4,6-Trichloropheno | 4-Chloroaniline | 100 | N.D. | 3-Nitroaniline | 200 | N.D. |
| 4-Chloro-3-methylphenol 100 N.D. Nitrobenzene 500 N.D. 2-Chlorophenol 250 N.D. 2-Nitrophenol 100 N.D. 4-Chlorophenyl phenyl ether 100 N.D. 4-Nitrophenol 500 N.D. Chrysene 100 N.D. N-Nitrosodiphenylamine 200 N.D. Dibenz(a,h)anthracene 250 N.D. N-Nitroso-di-N-propylamine 150 N.D. Dibenzofuran 100 N.D. Pentachlorophenol 500 N.D. Di-N-butyl phthalate 250 N.D. Phenanthrene 100 N.D. 1,3-Dichlorobenzene 100 N.D. Phenol 150 N.D. 1,4-Dichlorobenzene 100 N.D. Pyrene 150 N.D. 1,2-Dichlorobenzene 100 N.D. 1,2,4-Trichlorobenzene 100 N.D. 3,3-Dichlorobenzidine 500 N.D. 2,4,5-Trichlorophenol 150 N.D. 2,4-Dichlorophenol 100 N.D. 2,4,6-Trichloropheno | 2-Chloronaphthalene | 100 | N.D. | 4-Nitroaniline | 500 | N.D. |
| 2-Chlorophenot 250 N.D. 2-Nitrophenol 100 N.D. 4-Chlorophenyl phenyl ether 100 N.D. 4-Nitrophenol 500 N.D. Chrysene 100 N.D. N-Nitrosodiphenylamine 200 N.D. Dibenz(a,h)anthracene 250 N.D. N-Nitroso-di-N-propylamine 150 N.D. Dibenzofuran 100 N.D. Pentachlorophenol 500 N.D. Di-N-butyl phthalate 250 N.D. Phenanthrene 100 N.D. 1,3-Dichlorobenzene 100 N.D. Phenol 150 N.D. 1,4-Dichlorobenzene 100 N.D. Pyrene 150 N.D. 1,2-Dichlorobenzene 100 N.D. 1,2,4-Trichlorobenzene 100 N.D. 3,3-Dichlorobenzidine 500 N.D. 2,4,5-Trichlorophenol 150 N.D. 2,4-Dichlorophenol 100 N.D. 2,4,6-Trichlorophenol 150 N.D. Diethyl phthalate 100 N.D. 2,4,6-Trichloroph | • | 100 | N.D. | Nitrobenzene | \$00 | , N,D |
| 4-Chlorophenyl phenyl ether 100 N.D. 4-Nitrophenol 500 N.D. Chrysene 100 N.D. N-N. Nitrosodiphenylamine 200 N.D. Dibenz(a,h)anthracene 250 N.D. N-Nitroso-di-N-propylamine 150 N.D. Dibenzofuran 100 N.D. Pentachlorophenol 500 N.D. Di-N butyl phthalate 250 N.D. Phenanthrene 100 N.D. 1,3-Dichlorobenzene 100 N.D. Phenol 150 N.D. 1,4-Dichlorobenzene 100 N.D. Pyrene 150 N.D. 1,2-Dichlorobenzene 100 N.D. 1,2,4-Trichlorobenzene 100 N.D. 3,3-Dichlorobenzidine 500 N.D. 2,4,5-Trichlorophenol 150 N.D. 2,4-Dichlorophenol 100 N.D. 2,4,6-Trichlorophenol 150 N.D. Diethyl phthalate 100 N.D. N.D. 1,4,6-Trichlorophenol 150 N.D. | - · | 250 | N.D. | 2-Nitrophenol | 100 | N.D. |
| Chrysene 100 N.D. N-Nitrosodiphenylamine 200 N.D. Dibenz(a,h)anthracene 250 N.D. N-Nitroso-di-N-propylamine 150 N.D. Dibenzofuran 100 N.D. Pentachlorophenol 500 N.D. Di-N-butyl phthalate 250 N.D. Phenanthrene 100 N.D. 1,3-Dichlorobenzene 100 N.D. Phenol 150 N.D. 1,4-Dichlorobenzene 100 N.D. Pyrene 150 N.D. 1,2-Dichlorobenzene 100 N.D. 1,2,4-Trichlorobenzene 100 N.D. 3,3-Dichlorobenzidine 500 N.D. 2,4,5-Trichlorophenol 150 N.D. 2,4-Dichlorophenol 100 N.D. 2,4,6-Trichlorophenol 150 N.D. Diethyl phthalate 100 N.D. N.D. 150 N.D. | | 100 | | | 500 | |
| Dibenz(a,h)anthracene 250 N.D. N-Nitroso-di-N-propylamine 150 N.D. Dibenzofuran 100 N.D. Pentachlorophenol 500 N.D. Di-N-butyl phthalate 250 N.D. Phenanthrene 100 N.D. 1,3-Dichlorobenzene 100 N.D. Phenol 150 N.D. 1,4-Dichlorobenzene 100 N.D. Pyrene 150 N.D. 1,2-Dichlorobenzene 100 N.D. 1,2,4-Trichlorobenzene 100 N.D. 3,3-Dichlorobenzidine 500 N.D. 2,4,5-Trichlorophenol 150 N.D. 2,4-Dichlorophenol 100 N.D. 2,4,6-Trichlorophenol 150 N.D. Diethyl phthalate 100 N.D. N.D. N.D. N.D. N.D. | | 100 | | | 200 | N.D. |
| Dibenzofuran 100 N.D. Pentachlorophenol 500 N.D. Di-N. butyl phthalate 250 N.D. Phenanthrene 100 N.D. 1,3-Dichlorobenzene 100 N.D. Phenol 150 N.D. 1,4-Dichlorobenzene 100 N.D. Pyrene 150 N.D. 1,2-Dichlorobenzene 100 N.D. 1,2,4-Trichlorobenzene 100 N.D. 3,3-Dichlorobenzidine 500 N.D. 2,4,5-Trichlorophenol 150 N.D. 2,4-Dichlorophenol 100 N.D. 2,4,6-Trichlorophenol 150 N.D. Diethyl phthalate 100 N.D. N.D. N.D. N.D. N.D. | | 250 | N.D. | | 150 | N.D. |
| Di-N-butyl phthalate | · · · · · · · · · · · · · · · · · · · | 100 | N.D. | | 500 | N.D. |
| 1,3-Dichlorobenzene 100 N.D. Phenol 150 N.D. 1,4-Dichlorobenzene 100 N.D. Pyrene 150 N.D. 1,2-Dichlorobenzene 100 N.D. 1,2,4-Trichlorobenzene 100 N.D. 3,3-Dichlorobenzidine 500 N.D. 2,4,5-Trichlorophenol 150 N.D. 2,4-Dichlorophenol 100 N.D. 2,4,6-Trichlorophenol 150 N.D. Diethyl phthalate 100 N.D. | | | | The state of the s | 100 | N.D. |
| 1,4-Dichlorobenzene 100 N.D. Pyrene 150 N.D. 1,2-Dichlorobenzene 100 N.D. 1,2,4-Trichlorobenzene 100 N.D. 3,3-Dichlorobenzidine 500 N.D. 2,4,5-Trichlorophenol 150 N.D. 2,4-Dichlorophenol 100 N.D. 2,4,6-Trichlorophenol 150 N.D. Diethyl phthalate 100 N.D. | - · | | | | | |
| 1,2-Dichlorobenzene | | | | | | N.D. |
| 3,3 Dichlorobenzidine | • | | | • | | |
| 2,4-Dichlorophenol | | | | | | |
| Diethyl phthalate | • | | | | | |
| | | | | | | |
| | 2,4-Dimethylphenol | 250 | N.D. | | | |

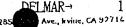
Analytics reported as N.D. were not present above the stated limit of detection.

Analysis completed at Del Mar Analytical-IRVINE (AZ0428) DEL MAR ANALYTICAL, PHOENIX (AZ0426)

e∕Van Rooy Project Manager

| Surrogate Standard Recoveries (Accept. Limit | 3): |
|--|-----|
| 2 Fluorophenol (25-121) | 72% |
| Phenol-d6 (24-113) | 68% |
| 2,4,6-Tribromophenol (19-122) | 76% |
| Nitrobenzene-d5 (23-120) | 66% |
| 2-Fluorobiphenyl (30-115) | 73% |
| Terphenyl-d14 (18-137) | 85% |

4-28-95; 12:22 ;



1 602 669 5775;# 6

1014 E. Cooley Dr., Suite A. Colton, CA 92324

(909) 370-4667. FAX (909) 370-104 (81m) 779-1844 FAX (81m) 779-18/6

16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 2465 W. 12th St., Suite 1, Tempo, AZ 85281

(602) 960-8272 FAX (602) 968-133

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E

el MarAnalytical

Client Project ID: Lift Station Release

Sampled: Received:

Apr 17, 1995 Apr 17, 1995

Parker, AZ 85344 Attention: Marcia Going

Sample Descript: Soil, 59' Non Lab Number: 5040627

Analyzed: Reported: Apr 20, 1995 Apr 28, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

| Analyte | Detection
Limit
µg/Kg | Sample
Result
µg/Kg | Analyte | Detection
Limit
µg/Kg | Sample
Result
µg/Kg |
|-----------------------------|-----------------------------|---------------------------|----------------------------|-----------------------------|---------------------------|
| | (ppb) | (ppb) | | (ppb) | (ppb) |
| Acenaphthene | 100 | N.D. | Dimethyl phthalate | 100 | N.D. |
| Acenaphthylene | 100 | N.D. | 4,6-Dinitro-2-methylphenol | | N.D. |
| Aniline | 150 | N.D. | 2,4-Dinitrophenol | 250 | N.D. |
| Anthracene | 100 | N.D. | 2,4-Dinitrotoluene | 100 | N.D. |
| Azobenzene | 150 | N.D. | 2,6-Dinitrotoluene | 100 | N.D. |
| Benzidine | 1,000 | N.D. | Di-N-octyl phthalate | 500 | N.D. |
| Benzoic Acid | 500 | N.D. | Fluoranthene | 100 | N.D. |
| Benz(a)anthracene | 100 | N.D. | Fluorene | 100 | N.D. |
| Benzo(b)fluoranthene | 200 | N.D. | Hexachlorobenzene | 100 | N.D. |
| Benzo(k)fluoranthene | 200 | N.D. | Hexachlorobutadiene | 100 | N.D. |
| Benzo(g,h,i)pcrylene | 150 | N.D. | Hexachlorocyclopentadiene | 500 | N.D. |
| Benzo(a)pyrene | 200 | N.D. | Hexachloroethane | 200 | N.D. |
| Benzyl alcohol | 200 | N.D. | Indeno(1,2,3-cd)pyrene | 200 | N.D. |
| Bis(2-chloroethoxy)methane | 100 | N.D. | Isophorone | 100 | N.D. |
| Bis(2-chloroethyl)other | 100 | N.D. | 2-Methylnaphthalene | 100 | N.D. |
| Bis(2-chloroisopropyl)ether | 100 | N.D. | 2-Methylphenol | 150 | N.D. |
| Bis(2-ethylhexyl)phthalate | 250 | N.D. | 4-Methylphenol | 150 | N.D. |
| 4-Bromophenyl phenyl ether | 150 | N.D. | Naphthalene | 150 | N.D. |
| Butyl benzyl phthalate | 500 | N.D. | 2-Nitroaniline | 200 | N.D. |
| 4-Chloroaniline | 100 | N.D. | 3-Nitroaniline | 200 | N.D. |
| 2-Chloronaphthalene | 100 | N.D. | 4-Nitroaniline | 500 | N.D. |
| 4-Chloro-3-methylphenol | 100 | N.D. | Nitrobenzene | 500 | N.D. |
| 2-Chlorophenol | 250 | N.D. | 2-Nitrophenol, | 100 | N.D. |
| 4-Chlorophenyl phenyl ether | 100 | N.D. | 4-Nitrophenol | 500 | N.D. |
| Chrysene | 100 | N.D. | N-Nitrosodiphenylamine | 200 | N.D. |
| Dibenz(a,h)anthracene | 250 | N.D. | N-Nitroso-di-N-propylamine | 150 | N.D. |
| Dibenzofuran | 100 | N.D. | Pentachlorophenol | 500 | N.D. |
| Di-N-butyl phthalate | 250 | N.D. | Phenanthrene | 100 | N.D. |
| 1,3-Dichlorobenzene | 100 | N.D. | Phenol | 150 | N.D. |
| 1,4-Dichlorobenzene | 100 | N.D. | Pyrene | 150 | N.D. |
| 1,2-Dichlorobenzene | 100 | N.D. | 1,2,4-Trichlorobenzene | 100 | N.D. |
| 3,3-Dichlorobenzidine | 500 | N.D. | 2,4,5-Trichlorophenol | 150 | N.D. |
| 2,4-Dichlorophenol | 100 | N.D. | 2,4,6-Trichlorophenol | 150 | N.D. |
| Diethyl phthalate | 100 | N.D. | = 1 d= 1 transactables | | |
| 2,4-Dimethylphenol | 250 | N.D. | | | • |
| a, anioug pronouncement | 200 | 17.0. | • | | |

Analytes reported as N.D. were not present above the stated limit of detection.

Analysis completed at Del Mar Analytical-IRVINE (AZ0428) DÈLMAR ANALYTICAL, PHOENIX (AZ0426)

Denise Van Rooy Project Manager

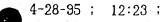
| Surrogate Standard Recoveries (Accept Limits) |): |
|---|-----|
| 2-Fluorophenol (25-121) | 71% |
| Phenal-d6 (24-113) | 65% |
| 2,4,6-Tribromophenal (19-122) | 82% |
| Nitrobenzene-d5 (23-120) | 65% |
| 2-Fluorobiphenyl (30-115) | 76% |
| Terphenyl-d14 (18-137) | 91% |

∰Westates Carbon Arizona

Parker, AZ 85344

Attention: Marcia Going

2523 Mutahar St., P.O. Box E





2465 W. 12th St., Suite 1, Tempe, AZ 85281

16525 Sherman Way, Suite C-11, Van Nuys, CA 91406

1 602 669 5775;# 7

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[818] 779-1844 FAX [818] 779-1843 (602) 968-8272 FAX (602) 968-1338

Del Mar Analytical

Client Project ID: Lift Station Release

Sample Descript: Soil, 483' Non Lab Number.

5040628

Sampled: Apr 17, 1995 Received: Apr 17, 1995

Analyzed: Apr 20, 1995 Reported: Apr 28, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

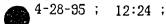
| Analyte | Detection
Limit
µg/Kg
(ppb) | Sample
Result
µg/Kg
(ppb) | Analyte | Detection
Limit
µg/Kg
(ppb) | Sample
Result
µg/Kg
(ppb) |
|-----------------------------|--------------------------------------|------------------------------------|----------------------------|--------------------------------------|------------------------------------|
| | (PPD) | (PPD) | | (PPB) | (ppb) |
| Acenaphthene | 100 | N.D. : | Dimethyl phthalate | 100 | N.D. |
| Acenaphthylene | 100 | N.D. | 4,8-Dinitro-2-methylphenol | 250 | N.D. |
| Aniline | 150 | N.D. | 2,4-Dinitrophenol | 250 | N.D. |
| Anthracene | 100 | N.D. | 2,4-Dinitrotoluene | 100 | N.D. |
| Azobenzene | 150 | N.D. | 2,6-Dinitrotoluene | 100 | N.D. |
| Benzidine | 1,000 | N.D. | Di-N-octyl phthalate | 500 | N.D. |
| Benzoic Acid | 500 | N.D. | Fluoranthene | 100 | N.D. |
| Benz(a)anthracene | 100 | N.D. | Fluorene | 100 | N.D. |
| Benzo(b)fluoranthene | 200 | N.D. | Hexachlorobenzene | 100 | N.D. |
| Benzo(k)fluoranthene | 200 | N.D. | Hexachlorobutadiene | 100 | N.D. |
| Benzo(g,h,i)perylene | 150 | N.D. | Hexachlorocyclopentadiene | 500 | N.D. |
| Велго(а)ругеле | 200 | N.D. | Hexachloroethane | 200 | N.D. |
| Benzyl alcohol | 200 | N.D. | Indeno(1,2,3-cd)pyrene | 200 | N.D. |
| Bis(2-chloroethoxy)methane | 100 | N.D. | Isophorone | 100 | N.D. |
| Bis(2-chloroethyl)ether | 100 | N.D. | 2-Methylnaphthalene | 100 | N.D. |
| Bis(2-chloroisopropyl)ether | 100 | N.D. | 2-Methylphenol | 150 | N.D. |
| Bis(2-ethylhexyl)phthalate | 250 | N.D. | 4-Methylphenal | 150 | N.D. |
| 4-Bromophenyl phenyl ether | 150 | N.D. | Naphthalene | 150 | N.D. |
| Bulyl benzyl phthalate | 500 | N.D. | 2-Nitroaniline | 200 | N.D. |
| 4-Chloroaniline | 100 | N.D. | 3-Nitroaniline | 200 | N.D. |
| 2-Chloronaphthalane | 100 | N.D. | 4-Nitroaniline | 500 | N.D. |
| 4-Chloro-3-methylphenol | 100 | N.D. | Nitrobenzene | 500 | N.D. |
| 2-Chlorophenol | 250 | N.D. | 2-Nitrophenol | 100 | N.D. |
| 4-Chlorophenyl phenyl ether | 100 | N.D. | 4-Nitrophenol | 500 | N.D. |
| Chrysene | 100 | N.D. | N-Nitrosodiphenylamine | 200 | N.D. |
| Dibenz(a,h)anthracene | 250 | N.D. | N-Nitroso-di-N-propylamine | 150 | N.D. |
| Dibenzofuran | 100 | N.D. | Pentachlorophenol | 500 | N.D. |
| Di-N-butyl phthalate | 250 | N.D. | Phenanthrene | 100 | N.D. |
| 1,3-Dichlorobenzene | 100 | N.D. | Phenol | 150 | N.D. |
| 1,4-Dichlorobenzene | 100 | N.D. | Pyrene | 150 | N.D. |
| 1,2-Dichlorobenzene | 100 | N.D. | 1,2,4-Trichlorobenzene | 100 | N.D. |
| 3,3-Dichlorobenzidine | 500 | | 2,4,5-Trichlorophenol | 150 | N.D. |
| 2,4-Dichlorophenol | 100 | | 2,4,6-Trichlorophenol | 150 | N.D. |
| Diethyl phthalate | 100 | N.D. | | | |
| 2,4-Dimethylphenol | 250 | N.D. | | | |
| • | | | | | |

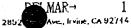
Analytes reported as N.D. were not present above the stated limit of detection.

Analysis completed at Del Mar Analytical-IRVINE (AZ0428) ĎĘL MAR ANALYTICAL, PHOENIX (AZ0426)

enise Van Rooy Project Manager

| Surrogate Standard Recoveries (Accept, Limit | s): |
|--|-----|
| 2 Fluorophenol (25-121) | 80% |
| Phenol-d6 (24-113) | 77% |
| 2,4,6-Tribromophenol (19-122) | 88% |
| Nitrobenzene-d5 (23-120) | 76% |
| 2-Fiuorobiphenyl (30-115) | 81% |
| Terphenyl-d14 (18-137) | 95% |





1 602 669 5775;# 9 (714) 261 1022 FAX (714) 261-1228

1014 F. Cooley Dr., Suite A. Colton, CA 92324 16525 Shorman Way, Suite C 11, Van Nuys, CA 91406

2465 W. 12th St., Sulte 1, Tompe, AZ 85281

(909) 370-4667 FAX (909) 370-1046 (818) 779 1844 FAX (818) 779-18/53

(602) 968-8272 FAX (602) 968-1338



∰Westates Carbon Arizona

Attention: Marcia Going

Parker, AZ 85344

2523 Mutahar St., P.O. Box E

Client Project ID: Lift Station Release

Received: Analyzed: Apr 17, 1995 Apr 17, 1995 ₽ Apr 26, 1995

Lab Number.

Sample Descript: Soil, Road End Non 5040630

Reported:

Sampled:

Apr 28, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

THE CONTROL OF THE CO

| Analyte | Detection
Limit | Sample
Result | Analyte | Detection
Limit | Sample
Result |
|-----------------------------|--------------------|------------------|----------------------------|--------------------|------------------|
| | µg/Kg | µg/Кд | | µg/Kg | μg/Kg |
| | (ppb) | (ppb) | | (bbp) | (ppb) |
| Acenaphthene | 100 | N.D. | . Dimethyl phthalate | 100 | N.D. |
| Acenaphthylene | 100 | N.D. | 4,6-Dinitro-2-methylphenol | 250 | N.D. |
| Aniline | 150 | N.D. | 2,4-Dinitrophenol | 250 | N.D. |
| Anthracene | 100 | N.D. | 2,4-Dinitrotoluene | 100 | N.D. |
| Azobenzene | 150 | N.D. | 2,6-Dinitrotoluene | 100 | N.D. |
| Benzidine | 1,000 | N.D. | Di-N-octyl phthalate | 500 | N.D. |
| Benzoic Acid | 500 | N.D. | Fluoranthene | 100 | N.D. |
| Benz(a)anthracene | 100 | N.D. | Fluorene | 100 | N.D. |
| Benzo(b)fluoranthene | 200 | N.D. | Hexachlorobenzene | 100 | N.D. |
| Benzo(k)fluoranthene | 200 | N.D. | Hexachlorobutadiene | 100 | N.D. |
| Benzo(g,h,i)pcrylene | 150 | N.D. | Hexachlorocyclopentadiene | 500 | N.D. |
| Benzo(a)pyrene | 200 | N.D. | Hexachloroethane | 200 | N.D. |
| Benzyl alcohol | 200 | N.D. | Indeno(1,2,3-cd)pyrene | 200 | N.D. |
| Bis(2-chloroethoxy)methane | 100 | N.D. | Isophorone | 100 | N.D. |
| Bis(2-chloroethyl)ether | 100 | N.D. | 2-Methylnaphthalene | 100 | N.D. |
| Bis(2-chloroisopropyl)ether | 100 | N.D. | 2-Methylphenol | 150 | N.D. |
| Bis(2-ethylhexyl)phthalate | 250 | N.D. | 4-Methylphenol | 150 | N.D. |
| 4-Bromophenyl phenyl ether | 150 | N.D. | Naphthalene | 150 | N.D. |
| Butyl benzyl phthalate | 500 | N.D. | 2-Nitroaniline | 200 | N.D. |
| 4-Chloroaniline | 100 | N.D. | 3-Nitroaniline | 200 | N.D. |
| 2-Chloronaphthalene | 100 | N.D. | 4-Nitroaniline | 500 | N.D. |
| 4-Chloro-3-methylphenol | 100 | N.D. | Nitrobenzene | 500 | N.D. |
| 2-Chlorophenol | 250 | N.D. | 2-Nitrophenol | 100 | N.D. |
| 4-Chlorophenyl phenyl ether | 100 | N.D. | 4-Nitrophenol | 500 | N.D. |
| Chrysene | 100 | N.D. | N-Nitrosodiphenylamine | 200 | N.D. |
| Dibenz(a,h)anthracene | 250 | N.D. | N-Nitroso-di-N-propylamine | 150 | N.D. |
| Dibenzofuran | 100 | N.D. | Pentachlorophenol | 500 | . N.D. |
| Di-N-butyl phthalate | 250 | N.D. | Phenanthrene | 100 | N.D. |
| 1,3-Dichlorobenzene | 100 | N.D. | Phenol | 150 | N.D. |
| 1,4-Dichlorobenzene | 100 | N.D. | Pyrene | 150 | N.D. |
| 1,2-Dichlorobenzene | 100 | N.D. | 1,2,4-Trichlorobenzene | 100 | N.D. |
| 3,3-Dichlorabenzidine | 500 | N.D. | 2,4,5-Trichlorophenol | 150 | N.D. |
| 2,4-Dichlorophenol | 100 | N.D. | 2,4,8-Trichlorophenol | 150 | N.D. |
| Diethyl phthalate | 10 0 | N.D. | • | | |
| 2,4-Dimethylphenol | 250 | N.D. | | | |

Analytes reported as N.D. were not present above the stated limit of detection.

Analysis completed at Del Mar Analytical-IRVINE (AZ0428) DEL MAR ANALYTICAL, PHOENIX (AZ0426)

ise Van Rooy Project Manager

| Surrogate Standard Recoveries (Accept, Limite | a): |
|---|-----|
| 2-Fluorophenol (25-121) | 83% |
| Phenol-d6 (24-113) | 87% |
| 2,4,6-Tribromophenol (19-122) | 90% |
| Nitrobenzene-d5 (23-120) | 80% |
| 2-Fluorobiphenyl (30-115) | 86% |
| Terphenyl-d14 (18-137) | 82% |

2465 W. 12th St., Suito 1, Tempe, AZ 85281

16525 Sherman Way, Suite C-11, Van Nuys, CA 91406



Westates Carbon Arizona 2523 Mutahar St., P.O. Box E

2523 Mutahar St., P.O. Box E Parker, AZ 85344 Attention: Marcia Going Client Project ID: Lift Station Release

Sample Descript: Soil, 20' Impacted Lab Number: 5040626

Sampled: Received:

Apr 17, 1995 Apr 17, 1995

Analyzed: Apr 20, 1995 Reported: Apr 28, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

| Analyte | Detection
Limit
µg/Kg
(ppb) | Sample
Result
µg/Kg
(ppb) | Analyte | Detection
Limit
µg/Kg
(ppb) | Sample
Result
µg/Kg
(ppb) |
|-----------------------------|--------------------------------------|------------------------------------|----------------------------|--------------------------------------|------------------------------------|
| Acenaphthene | 100 | N.D. | Dimethyl phthalate | 100 | N.D. |
| Acenaphthylene | 100 | N.D. | 4,6-Dinitro-2-methylphonol | 250 | N.D. |
| Aniline | 150 | N.D. | 2,4-Dinitrophenol | 250 | N.D. |
| Anthracene | 100 | N.D. | 2,4-Dinitrotoluene | 100 | N.D. |
| Azobenzene | 150 | N.D. | 2,6-Dinitrotoluene | 100 | N.D. |
| Benzidine | 1,000 | N.D. | Di-N-octyl phthalate | 500 | N.D. |
| Benzoic Acid | 500 | N.D. | Fluoranthene | 100 | N.D. |
| Benz(a)anthracene | 100 | N.D. | Fluorene | 100 | N.D. |
| Benzo(b)fluoranthene | 200 | N.D. | Hexachlorobenzene | 100 | N.D. |
| Benzo(k)fluoranthene | 200 | N.D. | Hexachlorobutadiene | 100 | N.D. |
| Benzo(g,h,i)perylenc | 150 | N.D. | Hexachlorocyclopentadiene | 500 | N.D. |
| Benzo(a)pyrene | 200 | N.D. | Hexachloroethane | 200 | N.D. |
| Benzyl akohol | 200 | N.D. | Indeno(1,2,3-cd)pyrene | 200 | N.D. |
| Bis(2-chloroethoxy)methane | 100 | N.D. | Isophorone | 100 | N.D. |
| Bis(2-chloroethyl)ether | 100 | N.D. | 2-Methylnaphthalene | 100 | N.D. |
| Bis(2-chloroisopropyl)ether | 100 | N.D. | 2-Methylphenol | 150 | N.D. |
| Bis(2-ethylhexyl)phthalate | 250 | N.D. | 4-Methylphenol | 150 | N.D. |
| 4-Bromophenyl phenyl ether | 150 | N.D. | Naphthalene | 150 | N.D. |
| Butyl benzyl phthalate | 500 | N.D. | 2-Nitroaniline | 200 | N,D. |
| 4-Chloroaniline | 100 | N.D. | 3-Nitroaniline | 200 | N.D. |
| 2-Chloronaphthalene | 100 | N.D. | 4-Nitroaniline | 500 | N.D. |
| 4-Chloro-3-methylphenol | 100 | N.D. | Nitrobenzene | 500 | N.D. |
| Z-Chlorophenol | 250 | N.D. | 2-Nitrophenol | 100 | N.D. |
| 4-Chlorophenyl phenyl ether | 100 | N.D. | 4-Nitrophenol | 500 | N.D. |
| Chrysene | 100 | N.D. | N-Nitrosodiphenylamine | 200 | N.D. |
| Dibenz(a,h)anthracene | 250 | N.D. | N-Nitroso-di-N-propylamine | 150 | N.D |
| Dibenzofurari | 100 | N.D. | Pentachlorophenol | 500 | N.D. |
| Di-N-butyl phthalate | 250 | N.D. | Phenanthrene | 100 | N.D. |
| 1,3-Dichlorobenzene | 100 | N.D. | Phenol | 150 | N.D. |
| 1,4-Dichlorobenzene | 100 | N.D. | Pyrene | 150 | N.D. |
| 1,2-Dichlorobenzene | 100 | N.D. | 1,2,4-Trichlorobenzene | 100 | N.D. |
| 3,3-Dichlorobenzidine | 500 | N.D. | 2,4,5-Trichlorophenol | 150 | N.D. |
| 2,4-Dichlorophenol | 100 | N.D. | 2,4,6-Trichlarophenol | 150 | N.D. |
| Diethyl phthalate | 100 | N.D. | | | |
| 2,4-Dimethylphenol | 250 | N.D. | | | |

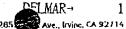
Analytes reported as N.D. were not present above the stated limit of detection.

Analysis completed at Del Mar Analytical-IRVINE (AZ0428)
DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Denise Van Rooy Project Manager

| Surrogate Standard Recoveries (Accept. Limit | 3): |
|--|-----|
| 2-Fluorophenol (25-121) | 73% |
| Phenol-d6 (24-113) | 69% |
| 2,4,6-Tribromophenol (19-122) | 78% |
| Nitrobenzene-d5 (23-120) | 65% |
| 2-Fluorobiphenyl (30-115) | 70% |
| Terphonyl-d14 (18-137) | 83% |

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1 602 669 5775;# 8 (/14) 261-1022 FAX (/14) 261-1228

1014 F., Cooley Dr., Suite A, Colton, CA 92574 16525 Sherman Way, Stitte C-11, Van Nuys, CA 91406

2465 W. 12th St., Suite 1, Tempe, AZ 85281

(909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (B18) 779-1845 (602) 968-8272 FAX (602) 968-1336



Del MarAnalytical

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E

ÿParker, AZ 85344 Attention: Marcia Going Client Project ID: Lift Station Release

Sample Descript: Soil, Road End Impacted

Lab Number: 5040629

Sampled: Received:

Apr 17, 1995 Apr 17, 1995

Analyzed: Reported:

Apr 20, 1995 Apr 28, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

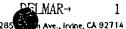
| Analyte | Detection
Limit
µg/Kg
(ppb) | Sample
Result
µg/Kg
(ppb) | Analyte | Detection
Limit
µg/Kg
(ppb) | Sample
Result
µg/Kg
(ppb) |
|--|--------------------------------------|------------------------------------|----------------------------|--------------------------------------|------------------------------------|
| | | | | | |
| Acenaphthene | 100 | N.D. | . Dimethyl phthalate | 100 | N.D. |
| Acenaphthylene | 100 | N.D. | 4,6-Dinitro-2-methylphenol | 250 | N.D. |
| Anlline | 150 | N.D. | 2,4-Dinitrophenol | 250 | N.D. |
| Anthracene | 100 | N.D. | 2,4-Dinitrotoluene | 100 | N.D. |
| Azobenzene | 150 | N.D. | 2,6-Dinitrotoluene | 100 | N.D. |
| Benzidine | 1,000 | N.D. | Di-N-octyl phthalate | 500 | N.D. |
| Benzolc Acid | 500 | N.D. | Fluoranthene | 100 | N.D. |
| Senz(a)anthracene | 100 | N.D. | Fluorene | 100 | N.D. |
| Benzo(b)fluoranthene | 200 | N.D. | Hexachlorobenzene | 100 | N.D. |
| Benzo(k)fluoranthene | 200 | N.D. | Hexachlorobutadiene | 100 | N.D. |
| Benzo(g,h,i)perylene | 150 | N.D. | Hexachlorocyclopentadiene | 500 | N.D. |
| Benzo(a)pyrene | 200 | N.D. | Hexachloroethane | 200 | N.D. |
| Benzyl alcohol | 200 | N.D. | Indeno(1,2,3-cd)pyrene | 200 | N.D. |
| Bis(2-chloroethoxy)methane | 100 | N.D. | Isophorone | 100 | N.D. |
| Bis(2-chloroethyf)ether | 100 | N.D. | 2-Methylnaphthalone | 100 | N.D. |
| Bis(2-chloroisopropyl)ether | 100 | N.D. | 2-Methylphenol | 150 | N.D. |
| Bis(2-ethylhexyl)phthalate | 250 | N.D. | 4-Methylphenol | 150 | N.D. |
| 4-Bromophenyl phenyl ether | 150 | N.D. | Naphthalene | 150 | N.D. |
| Butyl benzyl phthalate | 500 | N.D. | 2-Nitroaniline | 200 | N.D. |
| 4-Chloroaniline. | 100 | N.D. | 3-Nitroaniline | 200 | N.D. |
| 2-Chloronaphthalene | 100 | N.D. | 4-Nitroaniline | 500 | N.D. |
| 4-Chloro-3-methylphenol | 100 | N.D. | Nitrobenzene | 500 | N.D. |
| 2-Chlorophenal | 250 | N.D. | 2-Nitrophenol | 100 | N.D. |
| 4-Chlorophenyl phenyl ether | 100 | N.D. | 4-Nitrophenol | 500 | N.D. |
| Chrysene | 100 | N.D. | N-Nitrosodiphenylamine | 200 | N.D. |
| Dibenz(a,h)anthracene | 250 | N.D. | N-Nitroso-di-N-propylamine | 150 | N.D. |
| Dibenzofuran | 100 | N.D. | Pentachlorophenol | 500 | N.D. |
| Di-N-butyl phthalate | 250 | N.D. | Phenanthrene | 100 | N.D. |
| 1,3-Dichlorobenzene | 100 | N.D. | Phenol | 150 | N.D. |
| 1,4-Dichlorobenzene | 100 | N.D. | Pyrene | 150 | N.D. |
| 1,2-Dichlorobenzene | 100 | N.D. | 1,2,4-Trichlorobenzenc | 100 | N.D. |
| 3,3-Dichlorobenzidine | 500 | N.D. | 2,4,5-Trichlorophenol | 150 | N.D. |
| 2,4-Dichlorophenol | 100 | N.D. | 2,4,6-Trichlorophenol | 150 | N.D. |
| Diethyl phthalate | 100 | N.D. | 2,7,0-1 Holdolophenol | 100 | 11,0. |
| 2,4-Dimethylphenol | 250 | N.D. | and the second second | | |
| The state of the s | | 14.0. | | | |

Analytes reported as N.D. were not present above the stated limit of detection.

Analysis completed at Del Mar Analytical-IRVINE (AZ0428) DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Van Rooy Project Manager

| Surrogate Standard Recoveries (Accept, Limi | ts): |
|---|------|
| 2-Fluorophenol (25-121) | 78% |
| Phenol-d6 (24-113) | 88% |
| 2,4,6-Tribromophenol (19-122) | 81% |
| Nitrobenzene-d5 (23-120) | 65% |
| 2-Fluorobiphenyl (30-115) | 77% |
| Terphenyl-d14 (18-137) | 125% |



1 602 669 5775;#11

1014 E. Coaley Dr., Suite A. Cotton, CA 92324

[714] 261-1022 FAX (114) 261-12 (909) 570-4667 FAX (909) 370-10

16525 Sherman Way, Suite C 11, Van Nuys, CA 91406 2465 W. 19th SL., Sulte 1, Tempo, AZ 85981

(818) 779-1844 FAX (818) 779-18 [602] 968 8272 FAX (602) 968-15



Client Project ID: Lift Station Release

Sampled: Apr 17, 1995 Received: Apr 17, 1995

2523 Mutahar St., P.O. Box E Parker, AZ 85344 Attention: Marcia Going

Westates Carbon Arizona

Sample Descript: Water, 483' Impacted

Analyzed: Apr 21, 1995

Lab Number: 5040631 Reported: Apr 28, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

| µg/L (ppb) Qpb Qpb | ple
ult |
|---|------------|
| Acenaphthene 20 N.D. Dimethyl phthalate 20 N.D. Acenaphthylene 20 N.D. 4,6-Dinitro-2-methylphenol 80 N.D. Aniline 20 N.D. 2,4-Dinitrotoluene 200 N.D. Anthracene 20 N.D. 2,4-Dinitrotoluene 20 N.D. Azobenzene 40 N.D. 2,6-Dinitrotoluene 20 N.D. Benzidine 200 N.D. Di-N-octyl phthalate 80 N.D. Benzoic Acid 200 N.D. Fluoranthene 20 N.D. Benzoica)anthracene 20 N.D. Fluorene 20 N.D. Benzo(b)fluoranthene 20 N.D. Hexachlorobenzene 20 N.D. Benzo(s)fluoranthene 20 N.D. Hexachlorocyclopentadiene 80 N.D. Benzo(a)pyrene 20 N.D. Hexachlorocethane 20 N.D. Benzyl alcohol 40 N.D. Indeno(1,2,3-cd)pyrene 40 N.D. | |
| Acenaphthylene 20 N.D. 4,6-Dinitro-2-methylphenol 80 N.D. Aniline 20 N.D. 2,4-Dinitrophenol 200 N.D. Anthracene 20 N.D. 2,4-Dinitrotoluene 20 N.D. Azobenzene 40 N.D. 2,6-Dinitrotoluene 20 N.D. Benzidine 200 N.D. Di-N-octyl phthalate 80 N.D. Benzoic Acid 200 N.D. Fluoranthene 20 N.D. Benzo(a)anthracene 20 N.D. Fluorene 20 N.D. Benzo(b)fluoranthene 20 N.D. Hexachlorobenzene 20 N.D. Benzo(k)fluoranthene 20 N.D. Hexachlorobutadiene 20 N.D. Benzo(a, h, i)perylene 20 N.D. Hexachlorocyclopentadiene 80 N.D. Benzo(a)pyrene 20 N.D. Hexachlorocthane 20 N.D. Benzyl alcohol 40 N.D. Indeno(1,2,3-cd)pyrene 40 N.D.< | (د |
| Acenaphthylene 20 N.D. 4,6-Dinitro-2-methylphenol 80 N.D. Aniline 20 N.D. 2,4-Dinitrophenol 200 N.D. Anthracene 20 N.D. 2,4-Dinitrotoluene 20 N.D. Azobenzene 40 N.D. 2,6-Dinitrotoluene 20 N.D. Benzidine 200 N.D. Di-N-octyl phthalate 80 N.D. Benzoic Acid 200 N.D. Fluoranthene 20 N.D. Benzo(a)anthracene 20 N.D. Fluorene 20 N.D. Benzo(b)fluoranthene 20 N.D. Hexachlorobenzene 20 N.D. Benzo(k)fluoranthene 20 N.D. Hexachlorobutadiene 20 N.D. Benzo(a, h, i)perylene 20 N.D. Hexachlorocyclopentadiene 80 N.D. Benzo(a)pyrene 20 N.D. Hexachlorocthane 20 N.D. Benzyl alcohol 40 N.D. Indeno(1,2,3-cd)pyrene 40 N.D.< | J |
| Anthracene 20 N.D. 2,4-Dinitrotoluene 20 N.D. Azobenzene 40 N.D. 2,6-Dinitrotoluene 20 N.D. Benzidine 200 N.D. Di-N-octyl phthalate 80 N.D. Benzoic Acid 200 N.D. Fluoranthene 20 N.D. Benzo(a)anthracene 20 N.D. Fluorene 20 N.D. Benzo(b)fluoranthene 20 N.D. Hexachlorobenzene 20 N.D. Benzo(s,hiloeranthene 20 N.D. Hexachlorobutadiene 20 N.D. Benzo(g,h,i)perylene 20 N.D. Hexachlorocyclopentadiene 80 N.D. Benzo(a)pyrene 20 N.D. Hexachlorocthane 20 N.D. Benzyl alcohol 40 N.D. Indeno(1,2,3-cd)pyrene 40 N.D. | |
| Anthracene 20 N.D. 2,4-Dinitrotoluene 20 N.D. Azobenzene 40 N.D. 2,6-Dinitrotoluene 20 N.D. Benzidine 200 N.D. Di-N-octyl phthalate 80 N.D. Benzoic Acid 200 N.D. Fluoranthene 20 N.D. Benzo(a)anthracene 20 N.D. Fluorene 20 N.D. Benzo(b)fluoranthene 20 N.D. Hexachlorobenzene 20 N.D. Benzo(g,h,i)perylene 20 N.D. Hexachlorocyclopentadiene 80 N.D. Benzo(a)pyrene 20 N.D. Hexachlorocthane 20 N.D. Benzyl alcohol 40 N.D. Indeno(1,2,3-cd)pyrene 40 N.D. |). |
| Benzidine 200 N.D. Di-N-octyl phthalate 80 N.D. Benzoic Acid 200 N.D. Fluoranthene 20 N.D. Benz(a)anthracene 20 N.D. Fluorene 20 N.D. Benzo(b)fluoranthene 20 N.D. Hexachlorobenzene 20 N.D. Benzo(k)fluoranthene 20 N.D. Hexachlorobutadiene 20 N.D. Benzo(g,h,i)perylene 20 N.D. Hexachlorocyclopentadiene 80 N.D. Benzo(a)pyrene 20 N.D. Hexachlorocethane 20 N.D. Benzyl alcohol 40 N.D. Indeno(1,2,3-cd)pyrene 40 N.D. | ı. |
| Benzoic Acid 200 N.D. Fluoranthene 20 N.D. Benz(a)anthracene 20 N.D. Fluorene 20 N.D. Benzo(b)fluoranthene 20 N.D. Hexachlorobenzene 20 N.D. Benzo(k)fluoranthene 20 N.D. Hexachlorobutadiene 20 N.D. Benzo(g,h,i)perylene 20 N.D. Hexachlorocyclopentadiene 80 N.D. Benzo(a)pyrene 20 N.D. Hexachloroethane 20 N.D. Benzyl alcohol 40 N.D. Indeno(1,2,3-cd)pyrene 40 N.D. | |
| Benzoic Acid 200 N.D. Fluoranthene 20 N.D. Benz(a)anthracene 20 N.D. Fluorene 20 N.D. Benzo(b)fluoranthene 20 N.D. Hexachlorobenzene 20 N.D. Benzo(k)fluoranthene 20 N.D. Hexachlorobutadiene 20 N.D. Benzo(g,h,i)perylene 20 N.D. Hexachlorocyclopentadiene 80 N.D. Benzo(a)pyrene 20 N.D. Hexachloroethane 20 N.D. Benzyl alcohol 40 N.D. Indeno(1,2,3-cd)pyrene 40 N.D. | |
| Benzo(b)fluoranthene 20 N.D. Hexachlorobenzene 20 N.D. Benzo(k)fluoranthene 20 N.D. Hexachlorobutadiene 20 N.D. Benzo(g,h,i)perylene 20 N.D. Hexachlorocyclopentadiene 80 N.D. Benzo(a)pyrene 20 N.D. Hexachlorocethane 20 N.D. Benzyl alcohol 40 N.D. Indeno(1,2,3-cd)pyrene 40 N.D. | |
| Benzo(b)fluoranthene | |
| Benzo(k)fluoranthene 20 N.D. Hexachlorobutadiene 20 N.D. Benzo(g,h,i)perylene 20 N.D. Hexachlorocyclopentadiene 80 N.D. Benzo(a)pyrene 20 N.D. Hexachlorocethane 20 N.D. Benzyl alcohol 40 N.D. Indeno(1,2,3-cd)pyrene 40 N.D. | |
| Benzo(g,h,i)perylene 20 N.D. Hexachlorocyclopentadiene 80 N.D. Benzo(a)pyrene 20 N.D. Hexachloroethane 20 N.D. Benzyl alcohol 40 N.D. Indeno(1,2,3-cd)pyrene 40 N.D. | |
| Benzyl alcohol | |
| | |
| | |
| Bis(2-chloroethoxy)methane 20 N.D. Isophorone | |
| Bis(2-chloroethyl)ether | |
| Bis(2-chloroisopropyl)ether | |
| Bis(2-ethylhexyl)phthalate | |
| 4-Bromophenyl phenyl ether 20 N.D. Naphthalene | |
| Butyl benzyl phthalate | |
| 4-Chloroaniline 20 N.D. 3-Nitroaniline 40 N.D. | |
| 2-Chloronaphthalene | |
| 4-Chloro-3-methylphenol | |
| 2-Chlorophenol | |
| 4-Chlorophenyl phenyl ether 20 N.D. 4-Nitrophenol | |
| Chrysene | |
| Dibenz(a,h)anthracene | |
| Dibenzofuran | |
| Di-N-butyl phthalate | |
| 1,3-Dichlorobenzene 20 N.D. Phenol 20 N.D. | |
| 1,4-Dichlorobenzene | |
| 1,2-Dichlorobenzene | |
| 3,3-Dichlorobenzidine | |
| 2,4-Dichlorophenol | |
| Diethyl phthalate 20 N.D. | |
| 2,4-Dimethylphenol | |

Analysis completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects end/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 2.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

≨é Van Rooy Project Manager

Surrogate Standard Recoveries (Accept, Limits): 63% 2-Fktorophenol (21-100)..... 62% Phenol-d6 (10-94)..... 81% 2,4,6-Tribromophenal (10-123)...... 61% Nitrobenzene-d5 (35-114)..... 72% 2-Fluorobiphenyl (43-116)..... 86% Terphenyl-d14 (33-141).....

1014 E. Coulcy Dr., Sutte A, Colton, CA 92324 16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 2465 W. 12th St., Suite 1, Tempe, AZ 85281

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THE REPORT OF THE PERSON OF TH

Del Mar Analytical

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E Parker, AZ 85344 Attention: Marcia Going

Client Project ID: Lift Station Release

Sample Descript Water, Road End Impacted Lab Number. 5040629

Sampled: Apr 17, 1995 Received: Apr 17, 1995

Analyzed: Apr 21, 1995 Reported: Apr 28, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

| Analyte | Detection
Limit | Sample
Result | Analyte | Detection
Limit | Sample
Result |
|-----------------------------|--------------------|------------------|-----------------------------|--------------------|------------------|
| | µg/L | μg/L | | μg/L | µg/L |
| | (bbp) | (bbp) | | (ppb) | (ppb) |
| | M I - 7 | 11.1 | | | , |
| Acenaphthene | 21 | N,D. | Dimethyl phthalate | 21 | N.D. |
| Acenaphthylene | 21 | N.D. | 4,6-Dinitro-2-methylphenol | 85 | N.D. |
| Aniline | 21 | N.D. | 2,4-Dinitrophenol | 210 | N.D. |
| Anthracene | 21 | N.D. | 2,4-Dinitrotoluene | 21 | N.D. |
| Azobenzene | 43 | N.D. | 2,6-Dinitrotoluene | 21 | N.D. |
| Benzidine | 210 | N.D. | Di-N-octyl phthalale | 85 | N.D. |
| Benzoic Acid | 210 | N.D. | Fluoranthene | 21 | N.D. |
| Benz(a)anthracene | 21 | N.D. | Fluorene | 21 | N.D. |
| Benzo(b)fluoranthene | 21 | N.D. | Hexachlorobenzene | 21 | N.D. |
| Benzo(k)fluoranthene | 21 | N.D. | Hexachlorobutadiene | 21 | N.D. |
| Benzo(g,h,i)perylene | 21 | N.D. | Hexachlorocyclopentadiene. | 85 | N.D. |
| Benzo(a)pyrene | 21 | N.D. | Hexachloroethane | 21 | N.D. |
| Benzyl alcohol | 43 | N.D. | Indeno(1,2,3-cd)pyrene | 43 | N.D. |
| Bis(2-chloroethoxy)methane | 21 | N.D. | Isophorone | 21 | N.D. |
| Bis(2-chloroethyl)ether | 21 | N.D. | 2-Methylnaphthalene | 21 | N.D. |
| Bis(2-chloroisopropyl)ether | 21 | N.D. | 2-Methylphenol | 21 | N.D. |
| Bis(2-ethylhexyl)phthalate | 43 | N.D. | 4-Methylphenol | . 21 | N.D. |
| 4-Bromophenyl phenyl ether | 21 | N.D. | Naphthalene | 21 | N.D. |
| Butyl benzyl phthalate | 43 | N.D. | 2-Nitroaniline | 43 | N.D. |
| 4-Chloroaniline | 21 | N.D. | 3-Nitroaniline | 43 | N.D. |
| 2-Chloronaphthalene | 21 | N.D. | 4-Nitroaniline | 210 | N.D. |
| 4-Chloro-3-methylphenol | 43 | N.D. | Nitrobenzene | 85 | N.D. |
| 2-Chlorophenol | 21 | N.D. | 2-Nitrophenol | 21 | N.D. |
| 4-Chlorophenyl phenyl ether | 21 | N.D. | 4-Nitrophenol | 210 | N.D. |
| Chrysene | 21 | N.D. | N-Nitrosodiphenylamine | 21 | N.D. |
| Dibenz(a,h)anthracene | 43 | N.D. | N-Nitroso-di-N-propylamine. | 21 | N.D. |
| Dibenzofuran | 21 | N.D. | Pentachlorophenol | 85 | N.D. |
| Di-N-butyl phthalate | 43 | N.D. | Phenanthrene | 21 | N.D. |
| 1,3-Dichlorobenzene | 21 | N.D. | Phenol | 21 | N.D. |
| 1,4-Dichlorobenzene | 21 | N.D. | Pyrene | 21 | N.D. |
| 1,2-Dichlorobenzene | 21 | N.D. | 1,2,4-Trichlorobenzene | 21 | N.D. |
| 3,3-Dichlorobenzidine | 85 | N.D. | 2,4,5-Trichlorophenol | 43 | N.D. |
| 2,4-Dichlorophenol | 21 | | 2,4,6-Trichlorophenol | 43 | N.D. |
| Diethyl phthalate | 21 | N.D. | | | |
| 2,4-Dimethylphenol | 43 | N,D. | | | |

Analysis completed at Del Mar AnalyticaHRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 2,128.

EL MAR ANALYTICAL, PHOENIX (AZ0426)

Denise Van Rooy Project Manager

| Surrogate Standard Recoveries (Accept | . Limits): |
|---------------------------------------|------------|
| 2-Fluorophenal (21-100) | 63% |
| Phenoi-d6 (10-94) | 64% |
| 2,4,6-Tribromophenol (10-123) | 89% |
| Nitrobenzene-d5 (35-114) | 67% |
| 2-Fluorobiphenyl (43-116) | 75% |
| Terphenyl-d14 (33-141) | 92% |

4-28-95; 14:14;

DELMAR→ 2852 Alwei Ave., li vina, CA 92714

1 602 669 5775;# 2 [714] 261 1022 FAX [/14] 261-1228

1014 E. Conley Dr. A. Cotton, CA 92324 16525 Shormon Way, Suite C 11, Van Nuys, CA 91406

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Westates Carbon Arizona 2523 Mutahar St., P.O. Box E Parker, AZ 85344 Attention: Marcia Golng

Client Project ID: Lift Station Release

Sample Descript: Soil, 18' non Lab Number: 5040625 Sampled: Apr 17, 1995
Received: Apr 17, 1995
Analyzed: Apr 19, 1995
Reported: Apr 28, 1995

ORGANOCHLORINE PESTICIDES AND PCBs (EPA 8080)

| Analyte | Defection Limit
μg/Kg | | Sample Result
µg/Kg |
|---------------------|--------------------------|---|------------------------|
| | (ppb) | | (ppb) |
| | . | | |
| Aldrin | 5.0 | | N.D. |
| alpha-BHC | 5.0 | *************************************** | N.D. |
| beta-BHC | 5.0 | *************************************** | N,D. |
| delta-BHC | 10 | ********** | N.D. |
| gamma-BHC (Lindane) | 5.0 | *************************************** | N.D. |
| Chlordane | 10 | | N.D. |
| 4,4'-DDD | 10 | *************************************** | N.D. |
| 4,4'-DDE | 5.0 | *************************************** | N.D. |
| 4,4'-DDT | 10 | *************************************** | N.D. |
| Dieldrin | 5.0 | | N.D. |
| Endosulfan I | 10 | | N.D. |
| Endosulfan II | 5.0 | | N.D. |
| Endosulfan sulfate | 50 | *************************************** | N.D. |
| Endrin | 10 | *************************************** | N.D. |
| Endrin aldehyde | 15 | *************************************** | N.D. |
| Heptachlor | 5.0 | | N.D. |
| Heptachlor epoxide | 5.0 | *********** | N.D. |
| Methoxychlor | 150 | *************************************** | N.D. |
| Toxaphene | 180 | | N.D. |
| PCB-1016 | 50 | | N.D. |
| PCB-1221 | 50 | | N.D. |
| PCB-1232 | 50 | | N.D. |
| PCB-1242 | 50 | | N.D. |
| PCB-1248 | 50 | | N.D. |
| PCB-1254 | 50 | | N.D. |
| PCB-1260 | 50 | | N.D. |

Analysis completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection,

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Denise Van Rooy Project Manager

DELMAR→

16525 Sherman Way, Suite C 11, Van Nuys, CA 91406

2465 W. 12th St., Suite 1, Tempe, AZ 85281

1 602 669 5775;# 4 [/14] 261 1022 FAX (714) 261-1228

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(909) 370 4667 FAX (909) 370-1046 -(818) 779-1844 FAX (81m 779-1843

(602) 968-8272 FAX (602) 968-1938



Westates Carbon Arizona 2523 Mutahar St., P.O. Box E

Parker, AZ 85344 Attention: Marcia Going Client Project ID: Lift Station Release

Lab Number:

Sample Descript: Soil, 59' non 5040627

Sampled: Received:

Apr 17, 1995 Apr 17, 1995

Analyzed: Reported: Apr 19, 1995 Apr 28, 1995

ORGANOCHLORINE PESTICIDES AND PCBs (EPA 8080)

| Analyte | Detection Limit
µg/Kg
(ppb) | | Sample Result
µg/Kg
(ppb) |
|---------------------|-----------------------------------|---|---------------------------------|
| Aldrin | 5.0 | ******************************* | N.D. |
| alpha-BHC | 5.0 | | N.D. |
| beta-BHC | 5.0 | | N.D. |
| delta-BHC | 10 | | N.D. |
| gamma-BHC (Lindane) | 5,0 | | N.D. |
| Chlordane | 10 | | N.D. |
| 4,4'-DDD | 10 | | N.D. |
| 4,4'-DDE | 5,0 | | N.D. |
| 4,4'-DDT | 10 | | N.D. |
| Dieldrin | 5.0 | *************************************** | N.D. |
| Endosulfan I | 10 | *************************************** | N.D. |
| Endosulfan II | 5.0 | | N.D. |
| Endosulfan sulfate | 50 | ************ | N.D. |
| Endrin | 10 | | N.D. |
| Endrin aldehyde | 15 | ******************************* | N.D. |
| Heptachlor | 5.0 | ***************************** | N.D. |
| Heptachlor epoxide | 5.0 | 4,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | N.D. |
| Methoxychlor | 150 | ******************************** | N.D. |
| Toxaphene | 180 | | N.D. |
| PCB-1016 | 50 | *************************************** | N.D. |
| PCB-1221 | 50 | | N.D. |
| PCB-1232 | 50 | | N.D. |
| PCB-1242 | 50 | 44 | N.D. |
| PCB-1248 | 50 | ************** | N.D. |
| PCB-1254 | 50 | P | N.D. |
| PCB-1260 | 50 | | N.D. |

Analysis completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Dehisé Van Rooy Project Manager

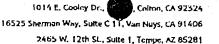
4-28-95; 14:15;

DELMAR→

1 602 669 5775;# 5 2852 Alton Ave., Irvine, CA 92714

(714) 261-1022 FAX (/14) 261-1228

(909) 370-4667 FAX (909) 510 1046 [818] 779-1844 FAX [818] 779-1845



(602) 968 8277 FAX (602) 968-1338

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E

Del Mar Analytical

Parker, AZ 85344 Attention: Marcia Going Client Project ID: Lift Station Release

Sample Descript: Soil, 483' non Lab Number: 5040628

Sampled: Received:

Apr 17, 1995 Apr 17, 1995

Analyzed: Reported: Apr 19, 1995 Apr 28, 1995

ORGANOCHLORINE PESTICIDES AND PCBs (EPA 8080)

| Analyte | Detection Limit
µg/Kg | | Sample Result
µg/Kg |
|---------------------|--------------------------|---|------------------------|
| | (ppb) | | (ppb) |
| | | | VFF-7 |
| Aldrin | 5.0 | *************************************** | N.D. |
| alpha-BHC | 5.0 | *************************************** | N.D. |
| beta-BHC | 5,0 | *************************************** | N.D. |
| delta-BHC | 10 | | N.D. |
| gamma-BHC (Lindane) | 5.0 | *************************************** | N.D. |
| Chlordane | 10 | *************************************** | N.D. |
| 4,4'-DDD | 10 | | N.D. |
| 4,4'-DDE | 5.0 | | N.D. |
| 4,4'-DDT | 10 | | N.D. |
| Dieldrin | 5.0 | *************************************** | N.D. |
| Endosulfan I | 10 | *************************************** | N.D. |
| Endosulfan II | 5.0 | | N.D. |
| Endosulfan sulfate | 50 | ****** | N,D. |
| Endrin | 10 | | N.D. |
| Endrin aldehyde | 15 | *************************************** | N.D. |
| Heptachlor | 5.0 | | N.D. |
| Heptachlor epoxide | 5.0 | · | N.D. |
| Methoxychlor | 150 | | N.D. |
| Toxaphene | 180 | | N.D. |
| PCB-1016 | 50 | | N.D. |
| PGB-1221 | 50 | · · · · · · · · · · · · · · · · · · · | N.D. |
| PCB-1232 | 50 | | N.D. |
| PCB-1242 | 50 | | N.D. |
| PCB-1248 | 50 | | N.D. |
| PCB-1254 | 50 | | N,D. |
| PCB-1260 | 50 | | N.D. |

Analysis completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0428)

Denisé Van Rooy Project Manager

4-28-95; 14:16;

DELMAR→

2465 W. 12th St., Suite 1, Tempe, AZ 85281

16525 Sherman Way, Suite C-11, Van Nuys, CA 91406

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1 602 669 5775;# 7

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A. Culton, CA 92324

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Del Mar Analytical

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E

Parker, AZ 85344 Attention: Marcia Going Client Project ID: Lift Station Release

Sample Descript: Soil, Road End Non

Lab Number: 5040630

Sampled: Received:

Apr 17, 1995 Apr 17, 1995

Analyzed: Reported:

Apr 26, 1995 Apr 28, 1995

ORGANOCHLORINE PESTICIDES AND PCBs (EPA 8080)

| Analyte | Detection Limit
µg/Kg
(ppb) | | Sample Result
µg/Kg
(ppb) |
|---------------------|-----------------------------------|---|---------------------------------|
| Aldrin | 5.0 | | N.D. |
| alpha-BHC | 5.0 | | N.D. |
| beta-BHC | 5.0 | | N.D. |
| delta-BHC | | | N.D. |
| gamma-BHC (Lindane) | 5.0 | | N.D. |
| Chlordane | 10 | | N.D. |
| 4,4'-DDD | 10 | | N.D. |
| 4,4'-DDE | 5.0 | | N.D. |
| 4,4'-DDT | 10 | | N.D. |
| Dieldrin | 5.0 | | N.D. |
| Endosulfan I | 10 | | N.D. |
| Endosulfan II | 5.0 | | N.D. |
| Endosulfan sulfate | 50 | | N.D. |
| Endrin | 10 | | N.D. |
| | 15 | *************************************** | N.D. |
| Endrin aldehyde | | | |
| Heptachlor | 5.0 | | N,D. |
| Heptachlor epoxide | 5.0 | | N.D. |
| Methoxychlor | 150 | | N.D. |
| Toxaphene | 180 | , | N.D. |
| PCB-1016 | 50 | | N.D. |
| PCB-1221 | 50 | | N.D. |
| PCB-1232 | 50 | *************************************** | N.D, |
| PCB-1242 | 50 | *************************************** | N.D. |
| PCB-1248 | 50 | | N.D. |
| PCB-1254 | 50 | | N.D. |
| PCB-1260 | 50 | | N.D. |

Analysis completed at Dol Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Denise Van Rooy **Project Manager**

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(B18) 779-1844 FAX (B18) 779-1843 (602) 968 8272 FAX (602) 968-1338

Apr 28, 1995



1014 F. Cooley Dr., Colton, CA 92524 16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 2465 W. 12th St., Suite 1, Tempo, AZ 85281

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E Parker, AZ 85344

🛱 Attention: Marcia Going

Client Project ID: Lift Station Release

Sample Descript Soil, 20' impacted Lab Number: 5040626

Sampled: Apr 17, 1995 Received: Apr 17, 1995 Analyzed: Apr 19, 1995

Reported:

ORGANOCHLORINE PESTICIDES AND PCBs (EPA 8080)

| Analyte | Detection Limit
μg/Kg
(ppb) | | Sample Result
µg/Kg
(ppb) |
|---------------------|-----------------------------------|---|---------------------------------|
| Aldrin | 5.0 | | N.D. |
| alpha-BHC, | 5.0 | | N.D. |
| beta-BHC | 5.0. | | N.D. |
| delta-BHC | 10 | | N.D. |
| gamma-BHC (Lindane) | 5,0 | | N.D. |
| Chlordane | 10 | | N.D. |
| 4,4'-DDD | 10 | | N.D. |
| 4,4'-DDE | 5.0 | *************************************** | N.D. |
| 4,4'-DDT | 10 | 444481 | N.D. |
| Dieldrin | 5.0 | ** | N.D. |
| Endosulfan I | 10 | | N.D. |
| Endosulfan II | 5.0 | *************************************** | N.D. |
| Endosulfan sulfate | 50 | | N,D. |
| Endrin | 10 | *************************************** | N.D. |
| Endrin aldehyde | 15 | *************************************** | N.D. |
| Heptachlor | 5.0 | *************************************** | N.D. |
| Heptachlor epoxide | 5.0 | | N.D. |
| Methoxychlor | 150 | *************************************** | N.D. |
| Toxaphene | 180 | | N.D. |
| PCB-1016 | 50 | | N.D. |
| PCB-1221 | 50 | *************************************** | N.D. |
| PCB-1232 | 50 | | N.D. |
| PCB-1242 | 50 | | N.D. |
| PCB-1248 | 50 | | N.D. |
| PCB-1254 | 50 | | N.D. |
| PCB-1260 | 50 | ******************************* | N.D. |

Analysis completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

QEL MAR ANALYTICAL, PHOENIX (AZ0426)

Denke Van Rooy Project Manager 4-28-95; 14:15;

DELMAR→

2465 W. 12th St., Suite 1, Tempo, AZ 85281

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🖁 Westates Carbon Arizona

Attention: Marcia Going

Parker, AZ 85344

2523 Mutahar St., P.O. Box E

Client Project ID: Lift Station Release

Sample Descript: Soil, Road End Impacted

Lab Number: 5040629

Sampled: Apr 17, 1995 Received:

Apr 17, 1995

Analyzed: Apr 19, 1995 Reported: Apr 28, 1995

ORGANOCHLORINE PESTICIDES AND PCBs (EPA 8080)

| Analyte | Detection Limit
μg/Kg | Sample Result
µg/Kg |
|---------------------|--------------------------|------------------------|
| | (bbp) | (bbp) |
| Aldrin | 5.0 | N.D. |
| alpha-BHC | 5.0 | N.D. |
| beta-BHC | 5.0 | N.D. |
| delta-BHC | 10 | N.D. |
| gamma-BHC (Lindane) | 5.0 | N.D. |
| Chlordane | 10 | N.D. |
| 4,4'-DDD | 10 | N.D. |
| 4,4'-DDE | 5.0 | N.D. |
| 4,4'-DDT | 10 | N.D. |
| Dieldrin | 5.0 | N.D. |
| Endosulfan I | 10 | N.D. |
| Endosulfan II. | 5.0 | N.D. |
| Endosulfan sulfate | 50 | N.D. |
| Endrin | 10 | N.D. |
| Endrin aldehyde | 15 | N.D. |
| Heptachlor | | N.D. |
| Heptachlor epoxide, | 5.0 | N.D. |
| Methoxychlor | 150 | N.D. |
| Toxaphene | 180 | N.D. |
| PCB-1016 | 50 | N.D. |
| PCB-1221 | 50 | N.D. |
| PCB-1232 | 50 | N.D. |
| PCB-1242 | 50 | N.D. |
| PCB-1248. | 50 | N.D. |
| PCB-1254. | 50 | N.D. |
| PCB-1260 | 50 | N D |

Analysis completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection,

QEL MAR ANALYTICAL, PHOENIX (AZ0426)

Van Rooy **Project Manager**

2852 Alta-Ave., Irvine, CA 92714

2465 W. 12th St., Suite 1, Tempe, AZ 85281

(714) 261 1022 FAX (714) 261-1228 A, Cullon, CA 82324 (909) 370-4667 FAX (909) 370-1046 16525 Sherman Way, Shite C-11, Van Nuys, CA 91406

(818) 179 1844 FAX (818) 779-1843 (602) 968-8272 FAX (602) 968-1338

Del MarAnalytical

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E

Parker, AZ 85344 Attention: Marcia Going Client Project ID: Lift Station Release

Sample Descript: Water, 483' Impacted

Lab Number: 5040631

Sampled: Received: Apr 17, 1995 Apr 17, 1995

Analyzed: Reported:

Apr 20, 1995 Apr 28, 1995

ORGANOCHLORINE PESTICIDES AND PCBs (EPA 8080)

| Analyte | Detection Limit | | Sample Result |
|---------------------|-----------------|--|---------------|
| | µg/L | | µg/L |
| | (ppb) | | (ppb) |
| | | | |
| Aldrin | 0.10 | | N.D. |
| alpha-BHC | 0.050 | | N.D. |
| beta-BHC | 0.050 | | N.D. |
| delta-BHC | 0.40 | | N.D. |
| gamma-BHC (Lindane) | 0.050 | | N.D. |
| Chlordane | 0.15 | | N.D. |
| 4,4'-DDD | 0.10 | | N.D. |
| 4,4'-DDE | 0.050 | 4,4,2,2,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0, | N.D. |
| 4,4'-DDT | | *************************************** | N.D. |
| Dieldrin | 0.10 | 4 | N.D. |
| Endosulfan I | 0.15 | ************* | N.D. |
| Endosulfan II | 0.10 | | N.D. |
| Endosulfan sulfate | 0.75 | | N.Ď. |
| Endrin | 0.10 | | N.D. |
| Endrin aldehyde | | | N.D. |
| Heptachlor | 0.10 | | N.D. |
| Heptachlor epoxide | 0.10 | | N.D. |
| Methoxychlor | 10 | | N.D. |
| Тохарнепе | 0.50 | <u> </u> | N.D. |
| PCB-1016 | 1.0 | | N.D. |
| PCB-1221 | | | N.D. |
| PCB-1232 | | | N.D. |
| PCB-1242 | 4.0 | *************************************** | N.D. |
| PCB-1248 | 4.0 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | N.D. |
| PCB-1254 | 1.0 | | N.D. |
| PCB-1260. | 1.0 | | N.D. |

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Denise Van Rooy Project Manager

4-28-95; 14:16;

DELMAR→

1014 E. Cooley Dr.

1 602 669 5775;# 8 4 (714)261 1022 FAX (/14)261-1228

2852 Alton Avg., Irvine, CA 92714

(909) 370-4667 FAX (909) 370 1040 (818) 779-1844 FAX (818) 779-1843

16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 2465 W. 12th St., Suite 1, Tompe, AZ 85281 (602) 968 8272 FAX (602) 960-1338

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E

Del Mar Analytical

Client Project ID: Lift Station Release

Sampled: Received: Apr 17, 1995 Apr 17, 1995

Parker, AZ 85344 Attention: Marcia Going

Sample Descript: Water, Road End Impacted Lab Number: 5040629

Analyzed: Reported: Apr 20, 1995

ORGANOCHLORINE PESTICIDES AND PCBs (EPA 8080)

| Analyte | Detection Limit | | Sample Result
µg/L |
|---------------------|-----------------|---|-----------------------|
| | (ppb) | | (ppb) |
| | | | |
| Aldrin | 0.10 | *************************************** | N,D. |
| alpha-BHC | 0.050 | *************************************** | N.D. |
| beta-BHC | 0.050 | *************************************** | N.D. |
| delta-BHC | 0.40 | | N.D. |
| gamma-BHC (Lindane) | 0.050 | | N.D. |
| Chlordane | 0.15 | | N.D. |
| 4,4'-DDD | 0.10 | | N.D. |
| 4,4'-DDE | 0.050 | | N.D. |
| 4,4'-DDT | 0.10 | | N.D. |
| Dieldrin | 0.10 | | N.D. |
| Endosulfan I | 0.15 | | N.D. |
| Endosulfan II | 0.10 | | N.D. |
| Endosulfan sulfate | 0.75 | | , N.D. |
| Endrin | 0.10 | | N.D. |
| Endrin aldehyde | 0.25 | *************************************** | N.D. |
| Heptachlor | 0.10 | | N.D. |
| Heptachlor epoxide | 0.10 | | N.D. |
| Methoxychlor | . 10 | | N.D. |
| Toxaphene | 0.50 | | N.D. |
| PCB-1016 | 1.0 | *************************************** | N.D. |
| PCB-1221 | 1.0 | | N.D. |
| PCB-1232 | 1.0 | *************************************** | N.D. |
| PCB-1242 | 1.0 | | N.D. |
| PCB-1248 | 1.0 | · · · · · · · · · · · · · · · · · · · | N.D. |
| PCB-1254 | 1.0 | | N.D. |
| PCB-1260 | 1.0 | | N.D. |

Analysis completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Darise Van Rooy Project Manager The state of the s

4-28-95; 14:17;

DELMAR→

2465 W. 12th SL, Sulte 1, Tempe, AZ 85281

.

16525 Sherman Way, Suite C-11, Van Nuys, CA 91406

1014 E. Cooley Dr

1 602 669 5775;#10 2852 Alten Ave., Irvinc. CA 92714 (714) 261 1022 FAX (/14) 261-1220

A. Colton, CA 92324

(909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843

[602] 968-8272 FAX (602) 965-1338

Del Mar Analytical

Westates Carbon Arizona 2523 Mutahar St., P.O. Bo 2523 Mutahar St., P.O. Box E

Parker, AZ 85344 Attention: Marcia Going Client Project ID: Lift Station Release

Sample Descript: Soil, 18' non Lab Number: 5040625

Sampled: Received:

Apr 17, 1995 Apr 17, 1995 2

Analyzed: Reported:

Apr 18, 1995 Apr 28, 1995

VOLATILE ORGANICS by GC/MS (EPA 8260)

| Analyte | Detection
Limit
µg/Kg
(ppb) | Sample
Result
µg/Kg
(ppb) | Analyte | Detection
Limit
µg/Kg
(ppb) | Sample
Result
µg/Kg
(ppb) |
|-----------------------------|--------------------------------------|------------------------------------|---------------------------|--------------------------------------|------------------------------------|
| Benzene | 2.0 | N.D. | Isopropylbenzene | 2.0 | N.D. |
| Bromobenzene | 5.0 | N.D. | p-isopropyltoluene | 2.0 | N.D. |
| Bromochloromethane | 5.0 | N.D. | Methylene chloride | | N.D. |
| Bromodichloromethane | 2,0 | N.D. | Naphthalene | | N.D. |
| Bromoform | 2.0 | N.D. | n-Propylbenzene | | N.D. |
| Bromomethane | 5.0 | N.D. | Styrene | 2.0 | N.D. |
| n-Butylbenzene | 5.0 | N.D. | 1,1,1,2-Tetrachloroethane | 5.0 | N.D. |
| sec-Butylbenzene | 5.0 | N.D. | 1,1,2,2-Tetrachloroethane | 2.0 | N.D. |
| tert-Butylbenzene | 5.0 | N.D. | Tetrachloroethene | 2.0 | N.D. |
| Carbon tetrachloride | 5.0 | N.D. | Toluene | 2.0 | N.D. |
| Chlorobenzene | 2.0 | N.D. | 1,2,3-Trichlorobenzene | 5.0 | N.D. |
| Chloroethane | 5.0 | N.D. | 1,2,4-Trichlorobenzene | 5.0 | N.D. |
| Chloroform. | 2.0 | N.D. | 1,1,1-Trichloroethane | 2.0 | N.D. |
| Chloromethane | 5.0 | N.D. | 1,1,2-Trichloroethane | 2.0 | N.D. |
| 2-Chlorotoluene | 5.0 | N.D. | Trichloroethene | 2.0 | N.D. |
| 4-Chlorotoluene | 5.0 | N.D. | Trichlorofluoromethane | 5.0 | N.D. |
| Dibromochloromethane | 2.0 | N.D. | 1,2,3-Trichloropropane | 10 | N.D. |
| 1,2-Dibromo-3-chloropropane | 5.0 | N.D. | 1,2,4-Trimethylbenzene | 2.0 | N.D. |
| 1,2-Dibromoethane | 2.0 | N.D. | 1,3,5-Trimethylbenzene | 2.0 | N.D. |
| Dibromomethans | 2.0 | N.D. | Vinyl chloride | 5.0 | N.D. |
| 1,2-Dichlorobenzene | 2.0 | N.D. | o-Xylene | 2.0 | N.D. |
| 1,3-Dichlorobenzene | 2.0 | N.D. | m,p-Xylenes | 2.0 | N.D. |
| 1,4-Dichlorobenzene | 2.0 | N.D. | 11 9 | | |
| Dichlorodifluoromethane | 5.0 | N.D. | | | • |
| 1,1-Dichloroethane | 2.0 | N.D. | | | |
| 1,2-Dichloroethane | 2.0 | N.D. | | | |

N.D.

N.D.

N.D.

N.D.

N.D.

N.D.

N.D.

N.D.

N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

5.0

2.0

2.0

2.0

2.0

2,0

2.0

2.0

5.0

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

1.1-Dichloroethene.....

cis-1,2-Dichloroethene.....

trans-1,2-Dichloroethene.....

1,2-Dichloropropane.....

1,3-Dichloropropane.....

2,2-Dichloropropane.....

1,1-Dichloropropene.....

Ethylbenzene.....

Hexachlorobutadiene.....

Denise Van Rooy Project Manager

| Surrogate Standard Recoveries (Accept. Limit | (5) ; |
|--|--------------|
| Dibromofluoromethane (80-120) | 100% |
| Toluene-d8 (81-117) | 101% |
| 4-Bromofluorobenzene (74-121) | 98% |

1014 E. Cooley D

2852 Mari Ave., Irvine, CA 92/14

(714) 261 1022 FAX (714) 261 1228 (909) 370-4667 FAX (909) 370-1046

16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 2465 W. 12th St., Suite 1, Tempe, AZ 85281

4 A, Colton, CA 92324

(618) / 79 1844 FAX (818) / /9 1843 (602) 968-8272 FAX (602) 968-1558



Westates Carbon Arizona 2523 Mutahar St., P.O. Box E Parker, AZ 85344 Attention: Marcia Going

Client Project ID: Lift Station Release

Sample Descript: Soil, 59' non Lab Number: 5040627 Sampled: Apr 17, 1995
Received: Apr 17, 1995
Analyzed: Apr 18, 1995
Reported: Apr 28, 1995

VOLATILE ORGANICS by GC/MS (EPA 8260)

| Analyte | Detection
Limit
µg/Kg
(ppb) | Sample
Result
µg/Kg
(ppb) | Analyte | Detection
Limit
µg/Kg
(ppb) | Sample
Result
µg/Kg
(ppb) |
|-----------------------------|--------------------------------------|------------------------------------|---------------------------|--------------------------------------|------------------------------------|
| Benzene | 2.0 | N.D. | Isopropylbenzene | 2.0 | N.D. |
| Bromobenzene | 5.0 | N.D. | p-Isopropyltoluene | | N.D. |
| Bromochloromethane | 5.0 | N.D. | Methylene chloride | 10 | N.D. |
| Bromodichloromethane | 2.0 | N.D. | Naphthalene | | N.D. |
| Bromoform | 2.0 | N.D. | n-Propylbenzene | 2.0 | N.D. |
| Bromomethane | 5.0 | N.D. | Styrene | 2.0 | N.D. |
| n-Butylbenzene | 5.0 | N.D. | 1,1,1,2-Tetrachloroethane | 5.0 | N.D. |
| sec-Butylbenzene | 5.0 | N.D. | 1,1,2,2-Tetrachloroethane | 2.0 | N.D. |
| tert-Butylbenzene | 5.0
5.0 | N.D. | Tetrachloroethene | 2.0
2.0 | N.D. |
| Carbon tetrachloride | 5.0
5.0 | N.D. | | 2.0 | N.D. |
| | | | Toluene | | |
| Chlorobenzene | 2.0 | N.D. | 1,2,3-Trichlorobenzene | 5.0 | N.D. |
| Chloroethane | 5.0 | N.D. | 1,2,4-Trichlorobenzene | 5.0 | N.D. |
| Chloroform | 2.0 | N.D. | 1,1,1-Trichloroethane | 2.0 | N.D. |
| Chloromethane | 5.0 | N.D. | 1,1,2-Trichloroethane | 2.0 | N.D. |
| 2-Chlorotoluene | 5.0 | N.D. | Trichloroethene | 2.0 | N.D. |
| 4-Chlorotoluene | 5.0 | N,D. | Trichlorofluoromethane | 5.0 | N.D. |
| Dibromochloromethane | 2.0 | N.D. | 1,2,3-Trichloropropane | 10 | N.D. |
| 1,2-Dibromo-3-chloropropane | 5.0 | N.D. | 1,2,4-Trimethylbenzene | 2.0 | N.D. |
| 1,2-Dibromoethane | 2.0 | N.D. | 1,3,5-Trimethylbenzene | 2.0 | N.D. |
| Dibromomethane | 2.0 | N.D. | Vinyl chloride | 5.0 | N.D. |
| 1,2-Dichlorobenzene | 2.0 | N.D. | o-Xylene | 2.0 | N.D. |
| 1,3-Dichlorobenzene | 2.0 | N.D. | m,p-Xylenes | 2.0 | N.D. |
| 1,4-Dichlorobenzene | 2.0 | N.D. | 4 | | |
| Dichlorodifluoromethane | 5.0 | N.D. | | | • |

N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

2.0

2.0

5.0

2.0

2,0

2.0

2.0

2.0

2.0

2.0

5.0

EL MAR ANALYTICAL, PHOENIX (AZ0426)

1,1-Dichloroethane.....

1,2-Dichloroethane.....

1.1-Dichloroethene.....

cis-1,2-Dichloroethene.....

trans-1,2-Dichloroethene.....

1,2-Dichloropropane.....

1,3-Dichloropropane.....

2,2-Dichloropropane.....

1,1-Dichloropropene.....

Ethylbenzene.....

Hexachlorobutadiene.....

Denise Van Rooy Project Manager

| Surrogate Standard Recoveries (Accept Limits): | |
|--|------|
| Dibromofluoromethane (80-120) | 99% |
| Toluene-d8 (81-117) | 100% |
| 4-Bromofluorobenzene (74-121) | 86% |



16525 Shorman Way, Suite C-11, Van Nuys, CA 91406

(714) 261-1022. FAX (714) 261-1228 (909) 570-4667 FAX (909) 570-1046 (818) 779-1844 FAX (818) 779-1843

2465 W. 12th St., Suite 1, Tempo, A7 85281

(602) 968-0272 FAX (602) 968 1338

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E Parker, AZ 85344

Attention: Marcia Going

Client Project ID: Lift Station Release

Sample Descript: Soil, 483' non Lab Number. 5040628

Sampled: Apr 17, 1995 Received: Apr 17, 1995

Analyzed: Apr 18, 1995 Reported: Apr 28, 1995

VOLATILE ORGANICS by GC/MS (EPA 8260)

| Analyte | Detection
Limit
µg/Kg | Sample
Result
µg/Kg | Analyte | Detection
Limit
µg/Kg | Sample
Result
µg/Kg |
|-----------------------------|-----------------------------|---------------------------|---------------------------|-----------------------------|---------------------------|
| | (ppb) | (ppb) | | (ppb) | (bbp) |
| Benzene | 2.0 | N.D. | Isopropylbenzene | 2.0 | N,D, |
| Bromobenzene | 5.0 | N.D. | p-Isopropyltoluene | | N.D. |
| Bromochloromethane | 5.0 | N.D. | Methylene chloride | | N.D. |
| Bromodichloromethane | 2.0 | N.D. | Naphthalene | 5.0 | .N.D. |
| Bromoform | 2.0 | N.D. | n-Propylbenzene | 2.0 | N.D. |
| Bromomethane | 5.0 | N.D. | Styrene | 2.0 | N.D. |
| n-Butylbenzene | 5.0 | N.D. | 1,1,1,2-Tetrachloroethane | 5.0 | N.D. |
| sec-Butylbenzene | 5.0 | N.D. | 1,1,2,2-Tetrachioroethane | 2.0 | N.D. |
| tert-Butylbenzene | 5.0 | N.D. | Tetrachloroethene | 2.0 | N.D. |
| Carbon tetrachloride | 5.0 | N.D. | Toluene | 2.0 | N.D. |
| Chlorobenzene | 2.0 | N.D. | 1,2,3-Trichlorobenzene | 5,0 | N.D. |
| Chloroethane | 5.0 | N.D. | 1,2,4-Trichlorobenzene | 5.0 | N.D. |
| Chloroform | 2.0 | N.D. | 1,1,1-Trichloroethane | 2.0 | N.D. |
| Chloromethane | 5.0 | N.D. | 1,1,2-Trichloroethane | 2.0 | N.D. |
| 2-Chlorotoluene | 5.0 | N.D. | Trichloroethene | 2.0 | N.D. |
| 4-Chlorotoluene | 5.0 | N.D. | Trichlorofluoromethane | 5.0 | N,D. |
| Dibromochloromethane | 2.0 | N.D. | 1,2,3-Trichloropropane | 10 | N.D. |
| 1,2-Dibromo-3-chloropropane | 5.0 | N.D. | 1,2,4-Trimethylbenzene | 2.0 | N.D. |
| 1,2-Dibromoethane | 2.0 | N.D. | 1,3,5-Trimethylbenzene | 2.0 | N.D. |
| Dibromomethane | 2.0 | N.D. | Vinyl chloride, | 5.0 | N.D. |
| 1,2-Dichlorobenzene | 2.0 | N.D. | o-Xylene | 2.0 | N.D. |
| 1,3-Dichlorobenzene | 2.0 | N.D. | m,p-Xylenes | 2.0 | N.D. |
| 1,4-Dichlorobenzene | 2.0 | N.D. | | | |
| Dichlorodifluoromethane | 5.0 | N.D. | | | |
| 1,1-Dichloroethane | 2.0 | N.D. | | | |
| 1,2-Dichloroethane | 2.0 | N.D. | | | |
| 1,1-Dichloroethene | 5.0 | N.D. | | | |
| cis-1,2-Dichloroethene | 2.0 | N.D. | | | |
| trans-1,2-Dichloroethene | 2.0 | N.D. | | | |
| 1,2-Dichloropropane | 2.0 | N.D. | | | |
| 1,3-Dichloropropane | 2.0 | N.D. | | | |
| 2,2-Dichloropropane | 2.0 | N,D. | | | |

Analytes reported as N.D. were not present above the stated limit of detection.

2.0

2.0

5.0

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

1,1-Dichloropropene.....

Ethylbenzene..... Hexachlorobutadiene.....

e Van Rooy Project Manager

| Surrogate Standard Recoveries (Accept. Limits | i): |
|---|------|
| Dibromofluoromethane (80-120) | 101% |
| Toluene-d8 (81-117) | 99% |
| 4-Bromofluorobenzene (74-121) | 85% |

N.D.

N.D.



(909) 370-4667 FAX (909) 370-104 (818) 779-1844 FAX (818) 779-184 (602) 968 8272 FAX (602) 968 133

(/14) 261-1022 FAX (/14) 261-122

Del MarAnalytical

16525 Sherman Way, Suite C-L1, Van Nuys, CA 91406 2465 W. 12th St., Suite 1, Tempe, AZ 85281

Client Project ID: Lift Station Release Sampled: Westates Carbon Arizona Apr 17, 1995 🖁 2523 Mutahar St., P.O. Box E Received: Apr 17, 1995 Sample Descript: Soil, Road End Non Analyzed: Apr 27, 1995 Parker, AZ 85344 🎇 Attention: Marcia Going Lab Number: 5040630 Reported: Apr 28, 1995

VOLATILE ORGANICS by GC/MS (EPA 8260)

| Analyte | Detection
Limit
µg/Kg
(ppb) | Sample
Result
µg/Kg
(ppb) | Analyte | Detection
Limit
µg/Kg
(ppb) | Sample
Result
µg/Kg
(ppb) |
|-----------------------------|--------------------------------------|------------------------------------|---------------------------|--------------------------------------|------------------------------------|
| Benzene | 2.0 | N.D. | Isopropylbenzene | 2.0 | N,D, |
| Bromobenzene | 5.0 | N.D. | p-Isopropyltoluene | 2.0 | N.D. |
| Bromochloromethane | 5.0 | N.D. | Methylene chloride | 10 | N.D. |
| Bromodichloromethane | 2.0 | N.D. | Naphthalene | 5.0 | N.D. |
| Bromoform | 2.0 | N.D. | n-Propylbenzene | 2.0 | N.D. |
| Bromomethane | 5.0 | N.D. | Styrene | 2.0 | N.D. |
| n-Butylbenzene | 5.0 | N,D. | 1,1,1,2-Tetrachloroethane | 5.0 | N.D. |
| sec-Butylbenzene | 5.0 | N.D. | 1,1,2,2-Tetrachloroethane | 2.0 | N.D. |
| tert-Butylbenzene | 5.0 | N.D. | Tetrachloroethene | 2.0 | N.D. |
| Carbon tetrachloride | 5.0 | N.D. | Toluene | 2.0 | N.D. |
| Chlorobenzene | 2.0 | N.D. | 1,2,3-Trichlorobenzene | 5.0 | N.D. |
| Chloroethane | 5.0 | N.D. | 1,2,4-Trichlorobenzene | 5.0 | N.D. |
| Chloroform | 2.0 | N,D. | 1,1,1-Trichloroethane | 2.0 | N.D. |
| Chloromethane | 5.0 | N.D. | 1,1,2-Trichloroethane | 2.0 | N.D. |
| 2-Chlorotoluene | 5.0 | N.D. | Trichloroethene | 2.0 | N.D. |
| 4-Chlorotoluene | 5.0 | N.D. | Trichlorofluoromethane | 5.0 | N.D. |
| Dibromochloromethane | 2.0 | N.D. | 1,2,3-Trichloropropane | 10 , | N.D. |
| 1,2-Dibromo-3-chloropropane | 5.0 | N.D. | 1,2,4-Trimethylbenzene | 2.0 | N.D. |
| 1,2-Dibromoethane | 2.0 | N.D. | 1,3,5-Trimethylbenzene | 2.0 | N.D. |
| Dibromomethane | 2.0 | N.D. | Vinyl chloride | 5.0 | N.D. |
| 1,2-Dichlorobenzene | 2.0 | N.D. | o-Xylene | 2.0 | N.D. |
| 1,3-Dichlorobenzene | 2.0 | N.D. | m,p-Xylenes | 2.0 | N.D. |
| 1,4-Dichlorobenzene | 2.0 | N.D. | | | |
| Dichlorodifluoromethane | 5.0 | N.D. | | | |
| 1,1-Dichloroethane | 2.0 | N.D. | | | |
| 1,2-Dichloroethane | 2.0 | N.D. | | | |
| 1,1-Dichloroethene | 5.0 | N.D. | | | |
| cis-1,2-Dichloroethene | 2.0 | N.D. | | | |
| trans-1,2-Dichloroethene | 2.0 | N.D. | | | |
| 1,2-Dichloropropane | 2.0 | N.D. | | | |
| 1,3-Dichloropropane | 2.0 | N.D. | | | |
| 2,2-Dichloropropane | 2.0 | N.D. | | | |

Analytes reported as N.D. were not present above the stated limit of detection

2.0

2.0

5.0

(Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

1,1-Dichloropropene.....

Ethylbenzene.....

Hexachlorobutadiene.....

Renize Van Rooy Project Manager

| Surrogate Standard Recoveries (Accept. Limit | s): |
|--|------|
| Dibromofluoromethane (80-120) | 104% |
| Toluene-d8 (81-117) | 100% |
| 4-Bromofluorobenzene (74-121) | 87% |

N.D.

N.D.

Sampled:

2852 Alten Ave., Irvine, CA 92714 1014 E. Cooley Dr. A. Colton, CA 92324

2465 W. 12th St., Suite 1, Tompe, AZ 85281

16525 Sherman Way, Suite C-11, Van Nuys, CA 91406

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(602) 968-8272 FAX (602) 968-1331

Del Mar Analytical

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E Parker, AZ 85344

Attention: Marcia Going

Client Project ID: Lift Station Release

Sample Descript: Soil, 20' impacted Lab Number: 5040626

Received: Analyzed: Reported: Apr 17, 1995 Apr 17, 1995 Apr 18, 1995 Apr 28, 1995

VOLATILE ORGANICS by GC/MS (EPA 8260)

| Analyte | Detection
Limit
µg/Kg
(ppb) | Sample
Result
µg/Kg
(ppb) | Analyte | Detection
Limit
µg/Kg
(ppb) | Sample
Result
µg/Kg
(ppb) |
|-----------------------------|--------------------------------------|------------------------------------|---------------------------|--------------------------------------|------------------------------------|
| Benzene | 2.0 | N.D. | Isopropylbenzene | 2.0 | N.D. |
| Bromobenzene | 5.0 | N.D. | - p-Isopropyltoluene | 2.0 | N.D. |
| Bromochloromethane | 5.0 | N.D. | Methylene chloride | 10 | N.D. |
| Bromodichloromethane | 2.0 | N.D. | Naphthalene | 5.0 | N.D. |
| Bromoform | 2.0 | N.D. | n-Propylbeпzene | 2.0 | N.D. |
| Bromomethane | 5.0 | N.D. | Styrene | 2.0 | N.D. |
| п-Butylbenzene | 5.0 | N.D. | 1,1,1,2-Tetrachloroethane | 5.0 | N.D. |
| sec-Butylbenzene | 5.0 | N.D. | 1,1,2,2-Tetrachloroethane | 2.0 | N.D. |
| tert-Butylbenzene | 5.0 | N.D. | Tetrachloroethene | 2.0 | N.D. |
| Carbon tetrachloride | 5.0 | N.D. | Toluene | 2.0 | N.D. |
| Chlorobenzene | 2.0 | N.D. | 1,2,3-Trichlorobenzene | 5.0 | N.D. |
| Chloroethane | 5.0 | N.D. | 1,2,4-Trichlorobenzene | 5.0 | N.D. |
| Chloroform | 2.0 | N.D. | 1,1,1-Trichloroethane | 2.0 | N,D. |
| Chloromethane | 5.0 | N.D. | 1,1,2-Trichloroethane | 2.0 | N.D. |
| 2-Chlorotoluene | 5.0 | N.D. | Trichloroethene | 2.0 | ND. |
| 4-Chlorotoluene | 5.0 | N.D. | Trichlorofluoromethane | 5.0 | N.D. |
| Dibromochloromethane | 2.0 | N,D. | 1,2,3-Trichloropropane | 10 | N.D. |
| 1,2-Dibromo-3-chloropropane | 5.0 | N.D. | 1,2,4-Trimethylbenzene | 2.0 | N.D. |
| 1,2-Dibromoethane | 2.0 | N.D. | 1,3,5-Trimethylbenzene | 2.0 | N.D. |
| Dibromomethane | 2.0 | N.D. | Vinyl chloride | 5.0 | N.D. |
| 1,2-Dichlorobenzene | 2.0 | N.D. | o-Xylene | 2.0 | N.D. |
| 1,3-Dichlorobenzene | 2.0 | N.D. | m,p-Xylenes | 2.0 | N.D. |
| 1,4-Dichlorobenzene | 2.0 | N.D. | | | |
| Dichlorodifluoromethane | 5.0 | N.D. | | | |
| 1,1-Dichloroethane | 2.0 | N.D. | | | |
| 1,2-Dichloroethane | 2.0 | N.D. | | | |
| 1,1-Dichloroethene | 5.0 | N.D. | | | |
| cis-1,2-Dichloroethene | 2.0 | N.D. | | | |
| trans-1,2-Dichloroethene | 2.0 | N.D. | | | |
| 1,2-Dichloropropane | 2.0 | N.D. | | | |
| 1,3-Dichloropropane | 2.0 | N.D. | | | |

Analytes reported as N.D. were not present above the stated limit of detection.

2.0

2.0

2.0

5.0

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

2,2-Dichloropropane.....

1,1-Dichloropropene.....

Ethylbenzene.....

Hexachlorobutadiene.....

Denise Van Rooy Project Manager

| Surrogate Standard Recoveries (Accept, Limits | s): |
|---|------|
| Dibromofluoromethane (80-120) | 107% |
| Toluene-d8 (81-117), | 99% |
| 4-Bromofluorobenzene (74-121) | 84% |

N.D.

N.D.

N.D.

2465 W. 12th St., Suite 1, Tempe, AZ 85281

2852 Atton Ave., trying, CA 92714

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1014 E. Cooley (2005) r. A, Colton, CA 92324 16525 Sherman Way, Suite C-11, Van Nuys, CA 91406

(818) 779-1844 FAX (818) 779-184 (602) 968-8272 FAX (602) 968-1337



Westates Carbon Arizona 2523 Mutahar St., P.O. Box E Parker, AZ 85344

Attention: Marcia Going

Client Project ID: Lift Station Release

Sample Descript: Soil, Road End Impacted

Lab Number: 5040629

Sampled: Apr 17, 1995 Apr 17, 1995 Received: Analyzed: Apr 18, 1995 Reported: Apr 28, 1995

VOLATILE ORGANICS by GC/MS (EPA 8260)

| Analyte | Detection
Limit
µg/Kg
(ppb) | Sample
Result
µg/Kg
(ppb) | Analyte | Detection
Limit
µg/Kg
(ppb) | Sample
Result
µg/Kg
(ppb) |
|-----------------------------|--------------------------------------|------------------------------------|---------------------------|--------------------------------------|------------------------------------|
| Велzепе | 2.0 | N.D. | Isopropylbenzene | 2.0 | N.D. |
| Bromobenzene | 5.0 | N.D. | p-Isopropyltoluene | 2.0 | N.D. |
| Bromochloromethane | 5.0 | N.D. | Methylene chloride | 10 | N.D. |
| Bromodichloromethane | 2.0 | N.D. | Naphthalene | 5.0 | N.D. |
| Bromoform | 2.0 | N.D. | n-Propylbenzene | 2.0 | N.D. |
| Bromomethane | 5.0 | N.D. | Styrene | 2.0 | N.D. |
| n-Butylbenzene | 5.0 | N.D. | 1,1,1,2-Tetrachloroethane | 5.0 | N.D. |
| sec-Butylbenzene | 5.0 | N.D. | 1,1,2,2-Tetrachloroethane | 2.0 | N.D. |
| tert-Butylbenzene | 5.0 | N.D. | Tetrachloroethene | 2.0 | N.D. |
| Carbon tetrachloride | 5.0 | N.D. | Toluene | 2.0 | N.D. |
| Chlorobenzene | 2.0 | N.D. | 1,2,3-Trichlorobenzene | 5.0 | N.D. |
| Chloroethane | 5.0 | N.D. | 1,2,4-Trichlorobenzene | 5.0 | N.D. |
| Chloroform | 2.0 | N.D. | 1,1,1-Trichloroethane | 2.0 | N.D. |
| Chloromethane | 5.0 | N.D. | 1,1,2-Trichloroethane | 2.0 | N.D. |
| 2-Chlorotoluene | 5.0 | N.D. | Trichloroethene | 2.0 | N.D. |
| 4-Chlorotoluene | 5.0 | N.D. | Trichlorofluoromethane | 5.0 | N.D. |
| Dibromochloromethane | 2.0 | N.D. | 1,2,3-Trichloropropane | 10 | N.D. |
| 1,2-Dibromo-3-chloropropane | 5.0 | N.D. | 1,2,4-Trimethylbenzene | 2.0 , | N.D. |
| 1,2-Dibromoethane | 2.0 | N.D. | 1,3,5-Trimethylbenzene | 2.0 | N.D. |
| Dibromomethane | 2.0 | N.D. | Vinyl chloride | 5.0 | N.D. |
| 1,2-Dichlorobenzene | 2.0 | N.D. | o-Xylene | 2.0 | N.D. |
| 1,3-Dichlorobenzene | 2.0 | N.D. | m,p-Xylenes | 2.0 | N.D. |
| 1,4-Dichlorobenzene | 2.0 | N.D. | | | |
| Dichlorodifluoromethane | 5.0 | N.D. | | | * |
| 1,1-Dichloroethane | 2.0 | N.D. | | | |
| 1,2-Dichloroethane | 2.0 | N.D. | | | |
| 1,1-Dichloroethene | 5.0 | N.D. | | | |
| cis-1,2-Dichloroethene | 2.0 | N.D. | | | |
| trans-1,2-Dichloroethene | 2.0 | N.D. | | | |
| 1,2-Dichloropropane | 2.0 | N.D. | | | |
| 1,3-Dichloropropane | 2.0 | N.D. | | | |

Analytes reported as N.D. were not present above the stated limit of detection.

2.0

2.0

2.0

5.0

Analysis was completed at Del Mar Analytical-iRVINE (AZ0428)

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

2,2-Dichloropropane.....

1,1-Dichloropropene.....

Ethylbenzene.....

Hexachlorobutadiene.....

Denise Van Rooy Project Manager

| Surrogate Standard Recoveries (Accept. Limits): | |
|---|------|
| Dibromofluoromethane (80-120) | 103% |
| Toluene-d8 (81-117) | 101% |
| 4-Bromofluorobenzene (74-121) | 84% |

N.D.

N.D.

N.D.

2465 W. 12th St., Suite 1, Tempe, AZ 85281



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[602] 968-8272 FAX (602) 968-13

Apr 28, 1995

Westates Carbon Arizona 2523 Mutahar St., P.O. Box E Parker, AZ 85344 Attention: Marcia Going

Client Project ID: Lift Station Release

Sample Descript: Water, 483' impacted Lab Number:

5040631

Sampled: Apr 17, 1995 Apr 17, 1995 Received: Analyzed: Apr 18, 1995

Reported:

VOLATILE ORGANICS by GC/MS (EPA 8260)

| Analyte | Detection
Limit
µg/L
(ppb) | Sample
Result
µg/L
(ppb) | Analyte | Detection
Limit
µg/L
(ppb) | Sample
Result
µg/L
(ppb) |
|-----------------------------|-------------------------------------|-----------------------------------|---------------------------|-------------------------------------|-----------------------------------|
| Benzene | 2.0 | N.D. | Isopropylbenzene | 2.0 | N.D. |
| Bromobenzene | 5.0 | N.D. | p-Isopropyltoluene | 2.0 | N.D. |
| Bromochloromethane | 5.0 | N.D | Methylene chloride | 10 | N.D. |
| Bromodichloromethane | 2.0 | N.D. | Naphthalene | 5.0 | N.D. |
| Bromoform | 2.0 | N.D. | n-Propylbenzene | 2.0 | N.D. |
| Bromomethane | 5.0 | N.D. | Styrene, | 2.0 | N.D. |
| п-Butylbenzene | 5.0 | N.D. | 1,1,1,2-Tetrachloroethane | 5.0 | N.D. |
| sec-Butylbenzene | 5.0 | N.D. | 1,1,2,2-Tetrachloroethane | 2.0 | N.D. |
| tert-Butylbenzene | 5.0 | N.D. | Tetrachloroethene | 2.0 | N.D. |
| Carbon tetrachloride | 5.0 | N.D. | Toluene | 2.0 | N.D. |
| Chlorobenzene | 2.0 | N.D. | 1,2,3-Trichlorobenzene | 5.0 | N.D. |
| Chloroethane | 5.0 | N.D. | 1,2,4-Trichlorobenzene | 5.0 | N.D. |
| Chloroform | 2.0 | N.D. | 1,1,1-Trichloroethane | 2.0 | N.D. |
| Chloromethane | 5.0 | N.D. | 1,1,2-Trichloroethane | 2.0 | N.D. |
| 2-Chlorotoluene | 5.0 | N.D. | Trichloroethene | 2.0 | N.D. |
| 4-Chlorotoluenc | 5.0 | N.D. | Trichlorofluoromethane | 5.0 | N.D. |
| Dibromochloromethane | 2.0 | N.D. | 1,2,3-Trichloropropane | 10 | N.D. |
| 1,2-Dibromo-3-chloropropane | 5.0 | N.D. | 1,2,4-Trimethylbenzene | 2.0 | N.D. |
| 1,2-Dibromoethane | 2.0 | N.D. | 1,3,5-Trimethylbenzene | 2.0 | N.D. |
| Dibromomethane | 2.0 | N.D. | Vinyl chloride | 5.0 | N.D. |
| 1,2-Dichlorobenzene | 2.0 | N.D. | o-Xylene | 2.0 | N.D. |
| 1,3-Dichlorobenzene | 2.0 | N.D. | m,p-Xylenes | 2.0 | N.D. |
| 1,4-Dichlorobenzene | 2.0 | N.D. | | | |
| Dichlorodifluoromethane, | 5.0 | N.D. | | | |
| 1,1-Dichloroethane | 2.0 | N.D. | | | |
| 1,2-Dichloroethane | 2.0 | N.D. | | | |
| 1,1-Dichloroethene | 5.0 | N.D. | | | |
| cis-1,2-Dichloroethene | 2.0 | N.D. | | | |
| trans-1,2-Dichloroethene | 2.0 | N.D. | | | |
| 1,2-Dichloropropane | 2.0 | N.D. | | | |
| 1,3-Dichloropropane | 2.0 | N.D. | | | |
| 2,2-Dichloropropane | 2.0 | N.D. | | | |
| 1,1-Dichloropropene | 2.0 | N.D. | | | |
| pro 1 11 | ^ ^ | 11.0 | | | |

Analytes reported as N.D. were not present above the stated limit of detection.

2.0

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Ethylbenzene.....

Hexachlorobutadiene.....

Denise Van Rooy **Project Manager**

| Surrogate Standard Recoveries (Accept. Limit | 5): |
|--|------|
| Dibromofluoromethane (86-118) | 103% |
| Taluene-d8 (88-110) | 99% |
| 4-Bromofluorobenzene (86-115) | 87% |

N.D.

N.D.

2465 W. 12th St., Suite 1, Tempe, AZ 85281

2852 Mon Avc., Irvino, CA 92714

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Westates Carbon Arizona 2523 Mutahar St., P.O. Box E Parker, AZ 85344 Attention: Marcia Going

Client Project ID: Lift Station Release

Sample Descript Water, Road End Impacted Lab Number: 5040629

Sampled: Apr 17, 1995 Received: Apr 17, 1995 Analyzed: Apr 18, 1995 Reported: Apr 28, 1995

VOLATILE ORGANICS by GC/MS (EPA 8260)

| Analyte | Detection
Limit | Sample
Result | Analyte | Detection
Limit | Sample
Result |
|------------------------------|--------------------|------------------|---------------------------|--------------------|------------------|
| | µg/L | μg/L | | μg/L | μg/L |
| | (ppb) | (ppb) | | (ppb) | (ppb) |
| Benzene | 2.0 | N.D. | Isopropylbenzene | 2.0 | N.D. |
| Bromobenzene | 5.0 | N.D. | p-Isopropyltoluene | 2.0 | N.D. |
| Bromochloromethane | 5.0 | N.D. | Methylene chloride | 10 | N.D. |
| Bromodichloromethane | 2.0 | N.D. | Naphthalene | 5.0 | N.D. |
| Bromoform | 2.0 | N.D. | n-Propylbenzene | 2.0 | N.D. |
| Bromomethane | 5.0 | N,D. | Styrene | 2.0 | N.D. |
| n-Butylbenzene | 5.0 | N.D. | 1,1,1,2-Tetrachloroethane | 5.0 | N.D. |
| sec-Butylbenzene | 5.0 | N.D. | 1,1,2,2-Tetrachioroethane | 2.0 | N.D. |
| tert-Butylbenzene | 5.0 | N.D. | Tetrachloroethene | 2.0 | N.D. |
| Carbon tetrachloride | 5.0
5.0 | N.D. | Toluene | 2.0 | N.D. |
| Chlorobenzene | 2.0 | N.D. | 1,2,3-Trichlorobenzene | 5.0 | N.D. |
| Chloroethane | 5.0 | N.D. | 1,2,4-Trichlorobenzene | 5.0 | N.D. |
| Chloroform | 2.0 | N.D. | 1,1,1-Trichloroethane | 2.0 | N.D. |
| Chloromethane | 5.0 | N.D. | 1,1,2-Trichloroethane | 2.0 | N.D. |
| 2-Chlorotoluene | 5.0 | N.D. | Trichloroethene | 2.0 | N.D. |
| 4-Chlorotoluene | 5.0 | N.D. | Trichlorofluoromethane | 5.0 | N.D. |
| Dibromochloromethane | 2.0 | N.D. | 1,2,3-Trichloropropane | 10 | N.D. |
| | 5.0 | N.D. | 1,2,4-Trirnethylbenzene | 2.0 | N.D. |
| 1,2-Dibrorno-3-chloropropane | | N.D. | | 2.0 | N.D. |
| 1,2-Dibromoethane | 2.0 | N.D.
N.D. | 1,3,5-Trimethylbenzene | 5.0 | N.D. |
| | 2.0 | N.D. | Vinyl chloride | | N.D. |
| 1,2-Dichlorobenzene | 2.0 | | o-Xylene | 2.0 | |
| 1,3-Dichlorobenzene | 2.0 | N.D. | m,p-Xylenes | 2.0 | N.D. |
| 1,4-Dichlorobenzene | 2.0 | N.D. | | | |
| Dichlorodifluoromethane | 5.0 | N.D. | | • | |
| 1,1-Dichloroethane | 2.0 | N.D. | | | |
| 1,2-Dichloroethane | 2.0 | N.D. | | | |
| 1,1-Dichloroethene | 5.0 | N.D. | | | |
| cis-1,2-Dichloroethene | 2.0 | N.D. | | | |
| trans-1,2-Dichloroethene | 2.0 | N.D. | | | |
| 1,2-Dichloropropane | 2.0 | N.D. | | | |
| 1,3-Dichloropropane | 2.0 | N.D. | | | |
| 2,2-Dichloropropane | 2.0 | N.D. | | | |

Analytes reported as N.D. were not present above the stated limit of detection.

2.0

2.0

5.0

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

1,1-Dichloropropene.....

Ethylbenzene.....

Hexachlorobutadiene.....

Denise Van Rooy Project Manager

| Surrogate Standard Recoveries (Accept Limits | s); |
|--|------|
| Dibromofluoromethane (86-118) | 104% |
| Toluene-d8 (88-110) | 102% |
| 4-Bromofluorobenzene (85-115) | 88% |

N.D.

N.D.

N.D.

1014 E. Cooley Dr., Suite A, Colton, CA 92324 16525 Sherman Way, Suite C-11, Van Nuys, CA 91406

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(714) 261-1022: FAX (714) 261-1228

2465 W. 17th St., Suite 1, Tempe, AZ, 85281 (602) 968-8272 FAX (602) 968-1338

Westates Carbon Inc. 2523 Mutahar Street #Parker, AZ 85344 Attention: Marcia Going

SENT BY: DEL MAR ANALYTICAL

Client Project ID: Soil Samples & Monthly Monitoring

Sample Descript: Soil, Non-Impacted Soil Lab Number: EE03525

Received: Extracted: Analyzed:

Sampled:

May 24, 1995 May 26, 1995 Jun 6, 1995

Juп 6, 1995 Reported: Jun 12, 1995

LABORATORY ANALYSIS

| Analyte | EPA
Method | STLC
Max. Limit
mg/L
(ppm) | TTLC
Max. Limit
mg/Kg
(ppm) | Detection
Limit
mg/Kg
(ppm) | | TTLC
Sample
Result
mg/kg
(ppm) |
|-----------------|---------------|-------------------------------------|--------------------------------------|--------------------------------------|---|--|
| Barium | 6010 | 100 | 10000 | 0.50 | | 33 |
| Cadmium | 6010 | 1.0 | 100 | 0.10 | ******** | N.D. |
| Chromium, total | 6010 | 560 | 2500 | 0.50 | | 2.1 |
| Lead | 6010 | 5,0 | 1000 | 1.0 | *************************************** | 3.4 |

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Jon Butler Project Manager

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EE03521.WCA <5 of 6>

Del Mar Analytical



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(602) 968-8272 FAX (602) 968-1338

(714) 261-1022 FAX (714) 261-1228

Westates Carbon Inc. 2523 Mutahar Street Parker, AZ 85344 Attention; Marcia Going

关系,这是是这一个人,我们就是我们的,我们就是我们的,我们就是我们的,我们就是这个人,我们就是这个人的,我们也是这个人,我们也是这个人,也是我们的,我们也可以是 第一个人,我们就是一个人,我们也是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们也是我们的,我们也是我们的,我们就是我们的,我们也

Client Project ID: Soil Samples & Monthly Monitoring

Sample Descript: Soil, Impacted Soil Lab Number: EE03524

May 24, 1995 Sampled: Received: May 26, 1995 Extracted: Jun 6, 1995 🖁 Analyzed: Jun 6, 1995 Reported: Jun 12, 1995

LABORATORY ANALYSIS

| Analyte | EPA
Method | STLC
Max. Limit
mg/L
(ppm) | TTLC
Max. Limit
mg/Kg
(ppm) | Detection
Limit
mg/Kg
(ppm) | | TTLC
Sample
Result
mg/Kg
(ppm) |
|-----------------|---------------|-------------------------------------|--------------------------------------|--------------------------------------|---|--|
| Barium | 6010 | 100 | 10000 | 0.50 | | 60 |
| Cadmium | 6010 | 1.0 | 100 | 0.10 | ******* | N.D. |
| Chromium, total | 6010 | 560 | 2500 | 0.50 | *************************************** | 3.1 |
| Lead | 6010 | 5.0 | 1000 | 1.0 | | 4.0 |

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Jon Butler

Project Manager



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(602) 968-8277 FAX (602) 968-1338

Westates Carbon Inc. 2523 Mutahar Street Parker, AZ 85344 Attention: Marcia Going Client Project ID: Soil Samples & Montly Monitoring

Sample Descript: Soil First Sample #: EF01710

May 22, 1995 Sampled: Received: May 26, 1995

Extracted: Jun 15, 1995 Analyzed: Jun 16, 1995 🖔

Jun 16, 1995 Reported:

BARIUM (EPA 6010)

| Laboratory
Number | Sample
Description | Detection Limit
mg/Kg
(ppm) | Sample
Result
mg/Kg
(ppm) |
|----------------------|-----------------------|-----------------------------------|------------------------------------|
| EF01710 | Non-Impacted 18' | 0.50 | 69 |
| EF01711 | Non-Impacted 60' | 0.50 | 66 |
| EF01712 | Non-Impacted 40' | 0.50 | 190 |
| EF01713 | Impacted 1 | 0.50 | 53 |
| EF01714 | Impacted 2 | 0.50 | 68 |
| EF01715 | Impacted 3 | 0.50 | 61 |
| EF01716 | Impacted 4 | 0.50 | 72 |

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Dan Harbs Project Manager

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Westates Carbon Inc. 2523 Mutahar Street Parker, AZ 85344 Attention: Marcia Going

Client Project ID: Soil Samples & Montly Monitoring

Sample Descript: Soil

First Sample #: EF01710

Sampled: May 22, 1995 Received: May 26, 1995 Extracted: Jun 15, 1995

Analyzed: Jun 16, 1995 Reported: Jun 16, 1995

CADMIUM (EPA 6010)

| Laboratory
Number | Sample
Description | Detection Limit
mg/Kg
(ppm) | Sample
Result
mg/Kg
(ppm) |
|----------------------|-----------------------|-----------------------------------|------------------------------------|
| EF01710 | Non-Impacted 18 | 0.10 | N.D. |
| EF01711 | Non-Impacted 60' | 0.10 | N.D. |
| EF01712 | Non-Impacted 40' | 0.10 | N.D. |
| EF01713 | Impacted 1 | 0.10 | N.D. |
| EF01714 | Impacted 2 | 0.10 | N.D. |
| EF01715 | Impacted 3 | 0.10 | N.D. |
| EF01716 | Impacted 4 | 0.10 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Dan Harbs Project Manager Del Mar Analyııcal

IRVINE 7142611022→

2852 Alton Hne, CA 92714 (714) 261-1022 FAX (714) 261-1228 1014 E. Cooley Dr., Suite. A. Colton, CA 92324

(909) 370-4567 FAX (909) 370-1046 16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843

2465 W. 12th St., Sulto 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Westates Carbon Inc. 2523 Mutahar Street Parker, AZ 85344 Attention: Marcia Going

Client Project ID: Soil Samples & Montly Monitoring

Sample Descript: Soil First Sample #: EF01710

May 22, 1995 May 26, 1995 Jun 15, 1995 Received: Extracted: Analyzed: Jun 16, 1995 Reported: Jun 16, 1995

Sampled:

CHROMIUM (EPA 6010)

| Laboratory
Number | Sample
Description | Detection Limit
mg/Kg
(ppm) | Sample
Result
mg/Kg
(ppm) |
|----------------------|-----------------------|-----------------------------------|------------------------------------|
| EF01710 | Non-Impacted 18' | 0.50 | 6.1 |
| EF01711 | Non-Impacted 60' | 0.50 | 5.3 |
| EF01712 | Non-Impacted 40' | 0.50 | 5.9 |
| EF01713 | Impacted 1 | 0.50 | 4.5 |
| EF01714 | Impacted 2 | 0.50 | 4.4 |
| EF01715 | 6 betasqml | 0.50 | 5.1 |
| EF01716 | Impacted 4 | 0.50 | 7.2 |

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Dan Harbs Project Manager Del Mar Analytical



vine, CA 92714 1014 E. Cooley Dr., Suite A. Colton, CA 92324

(714) 261-1022. FAX (714) 261-1228 (909) 370-4667 FAX (909) 370 1046 (818) 779-1844 FAX (818) 779-1843 (602) 968-8272 FAX (602) 968-1338

Westates Carbon Inc. 2523 Mutahar Street Parker, AZ 85344 Attention: Marcia Going

Client Project ID: Soil Samples & Montly Monitoring

Sample Descript: Soil First Sample #: EF01710

Sampled: May 22, 1995 Received: May 26, 1995 Extracted: Jun 15, 1995 Analyzed: Jun 16, 1995 Reported: Jun 16, 1995 🖁

LEAD (EPA 6010)

| Laboratory
Number | Sample
Description | Detection Limit
mg/Kg
(ppm) | Sample
Result
mg/Kg
(ppm) |
|----------------------|-----------------------|-----------------------------------|------------------------------------|
| EF01710 | Non-Impacted 18' | 0.50 | 3.3 |
| EF01711 | Non-Impacted 60° | 0.50 | 3.6 |
| EF01712 | Non-Impacted 40' | 0.50 | 15 |
| EF01713 | Impacted 1 | 0.50 | 2.7 |
| EF01714 | Impacted 2 | 0.50 | 2.8 |
| EF01715 | Impacted 3 | 0.50 | 2.8 |
| EF01716 | Impacted 4 | 0.50 | 3.6 |

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Dan Harbs Project Manager

U.S. FILTER/WESTATES 2523 MUTAHAR STREET POST OFFICE BOX E PARKER, AZ 85344 TELEPHONE 520-669-5758 FACSIMILE 520-669-5775

October 5, 1998

La Paz County Emergency Services
1112 Joshua Avenue
Suite 207
Parker Arizona 85344
Attn. Larry Riesland
Acting Local Emergency Planning Coordinator

RE: WESTATES CARBON-ARIZONA, INC. – NOTICE OF IMPLEMENTATION OF CONTINGENCY PLAN IN ACCORDANCE WITH THE EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT

To Larry Riesland:

On September 26th 1998, Westates Carbon-Arizona, Inc. experienced a spill from a truck on site that contained recycle water from the plant that is used to slurry hazardous spent carbon in the treatment process.

The occurrence was caused by a truck driver turning the valve to air out his lines and accidently discharging the water onto the soil just outside the main gate of the plant.

As a requirement of The Emergency Planning and Community Right to Know Act Westates Carbon-Arizona, Inc. is submitting the following attached report.

Please do not hesitate to call me at (520)-669-5758 if you have any questions.

Sincerely,

Monte McCue Plant Manager

US Filter/Westates September 26, 1998 Incident Report

| REPORT | INFORMATION ON THE |
|--|--|
| REQUIREMENT | INCIDENT |
| 1. The identity of any substance in | Motive water used in the treatment |
| the release | process. |
| 2.Indication of whether the | The motive water is not an |
| substances are extremely | extremely hazardous substance, but |
| hazardous substances | could contain trace quantities of |
| | some such substances. |
| 3. An estimate of the quantity of | Approximately 100 gallons of motive |
| each substance that was released | water were released. |
| into the environment | The paleon and the |
| 4. The time and duration of the | The release occurred at |
| release | approximately 2:00 pm and lasted |
| E The modium or modic into which | <5 minutes. |
| 5. The medium or media into which | The media included soil and rocks |
| the release occurred | just outside the receiving gate for |
| 6 Any known or entisingted agusts | the plant. There is no evidence there should |
| 6. Any known or anticipated acute or chronic health risks associated | be a health hazard to anyone |
| with the emergency and, where | l |
| appropriate, advice regarding | coming in contact with the impacted soil or the water. |
| medical attention necessary for | Son of the water. |
| exposed materials. | |
| 7. Proper precautions to take as a | The impacted soil was removed |
| result of the release. | immediately and stored at the facility |
| recart of the follows. | warehouse. All precautions were |
| | taken during the cleanup. There is |
| | no evidence that there should be |
| | any special precautions taken by |
| | any individual. |
| 8. The name and telephone number | Monte McCue (520)-669-5758. |
| of the person or persons to be | (123) |
| contacted for further information. | |
| 9. Actions taken to respond to and | Several properly trained |
| contain the release. | USF/Westates employees |
| | immediately responded with |
| | contents of the spill kit to absorb |
| | and contain the released material. |

| lease print or type. | (Form designed for use | on elite (12-pitch) typewriter |
|----------------------|------------------------|--------------------------------|

T 0008 9400 60 Form Approved. OMB No. 2050-0039.

| a | U | NIFORM HAZARDOUS
WASTE MANIFEST | 1. Generator's US EP | | Manifest
Document No. | 2. Page 1 1 1 1 | | n the shaded areas |
|----------|------------------------|--|------------------------------|--|--|--|--|--------------------|
| | | erator's Name and Mailing Address | A Z D 9 8 2 4 | 4 1 2 6 3 | <u>и 2 2 3 9</u> | | nifest Docume | nt Number |
| | P.O. | ates Carbon Arizona, In
Box E | | | • • | B. State Ger | nerator's ID | |
| | Parke
4. Gen | er, AZ 85344
erator's Phone (520)669-575 | 8 | | · · · | | | |
| : | 5. Tran | sporter 1 Company Name aste Transportation/Rem | _6. | US EPA ID I | | Service and the service and th | nsporter's ID | 02)252-1186 |
| | | sporter 2 Company Name | ediation to A
8. | D 9 8 0 5 | | E. State Tra | | /2/232-1186 |
| | | | <u> </u> | | | F.: Transport | | |
| 11 | | gnated Facility Name and Site Addres 5 (Laidlaw Env. Servs.) | | US EPA ID I | Number | G. State Fac | ality's ID
するISSご | ジャゴ |
| : | 11600 | North Aptus Road | | | | H. Facility's | Phone 💮 🗀 | |
| 1 | Arago | onite, UT 84029 | рт | D 9 8 1 5 | 5 2 1 / /
12. Conta | inere 1 | 3. (801): | 31-4200 |
| | 11. US I | DOT Description (Including Proper Shi | oping Name, Hazard C | lass and ID Numb | er) l | To | otal Unit
antity Wt/Vo | Waste No |
| a | 3. X | HAZARDOUS WASTE, SOLII
NA3077, PGIII | , N.O.S. (F00 | 1,F003),, | 9, | | | See |
| i | | NASOTT, POLIT | | | 056 | ом оз (| 80 G | Attached |
| t | э. | | | | | | | |
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| c | 1. | | | | | | | |
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| | | I
tional Descriptions for Materials Listed | | | | K. Handling C | odes for Wast | es Listed Above |
| | | - Profile Number AP40
Number 980756 | 6947 | The Control of the Co | | 27 | and the second s | |
| 1000 | Addi | tonal EPA Waste Codes a | re attached w | ith manife | st. | | | |
| 100 m | | | / vau 383" | 970) | A STATE OF S | Apple 1 | | |
| V | lear | cial Handling Instructions and Addition Appropriate Safty Equip | oment - Use Gu | ,
uide #171 T | he Waste I | dentifie | d in Line | 11(A) must |
| 2 | 24 - | Hour Emergency Number | (520) 669-5758 | | e managed
egulations | | | |
| L | 6 GENE | ERATOR'S CERTIFICATION: I hereby declare | that the contents of this co | · · | _ | | | |
| | prope | er shipping name and are classified, packed, more to applicable international and national gr | arked, and labeled, and are | e in all respects in pro | oper condition for train | nsport by highway | y | |
| | lf I a | m a large quantity generator, I certify that I
pmically practicable and that I have selecte | have a program in place | | | | | |
| | . future | threat to human health and the environme
est waste management method that is availab | nt; OR, if I am a small qu | uantity generator, I h | | | | |
| , _ | | ted/Typed Name | | Signature | P . D. | | | Month Day Year |
| - | | rovins sporter 1 Acknowledgement of Rece | nt of Materials | | (a) From | Try . | · . | 17778 |
| <u> </u> | | ted/Typed Name | pt of Materials | Signature / | | · | | Month Day Year |
| L | | ohn Dorman | | 1 John | Donna | 9,4 | | 122398 |
| - | | sporter 2 Acknowledgement of Receited/Typed Name | pt of Materials | Signature | | | | Month Day Year |
| L | | | | | | , | | |
| 1 | 9. Disc | repancy Indication Space | | | | | | |
| | | | | | | | | |
| 21 | 0. Facil | ity Owner or Operator: Certification o | f receipt of hazardous | materials covere | d by this manifes | t except as no | oted in Item 19. | |
| Ē | Print | ed/Typed Name | | Signature | | | | Month Day Year |
| ı | | | | 1122 | , | | | |



MATERIAL PROFILE

3008812

| | SK Line Of Facility Business #: Profile #: |
|--|---|
| A. GENERATOR INFORMATION | Check if Billing Information is same as Generator Information |
| Generator Name Westotes Corbon | Billing Company |
| Facility Address (No P.O. Box) 2523 mutahor St. | Billing Address |
| Control (ARS 450 Mill Session) and the state of the state | |
| - City/State/Zip Varlor Arizona 85344 | City/State/Zip |
| Technical Contact Doy Prount | Billing Contact + |
| Phone 520 - 669-5758 Fax 520-669-5775 | Phone Fax |
| Generator Location (If different from Facility Address) | |
| □ CESQG □ SQG US EPA ID # #20982441263 | |
| SIC Code: 4953 Origin Code: 1 1 2 13 14 15 Source | Code: A 74 Form Code: B 30 System Code: M 043 |
| B. SHIPPING INFORMATION DOT Assistance Requested | Check if SK Transportation Services are requested |
| US DOT Proper Shipping Name RO Huzurdous Wosto | solid nos |
| Hazard Class / Division # ID # (UN / NA)3077 | Packing Group (PG) RQ |
| Non-Bulk Shipping Containers | Bulk Shipping Containers |
| Size Steel Poly Fiber Quantity Frequency | Container Type Quantity & Size Frequency |
| 55 Gal ps 0 0 66 1 time | ☐ Yd. Box or ☐ Super Sack |
| Gal 🗇 🗇 | ☐ Hard Top or ☐ Tarped Bin |
| Gal 🗖 🔲 | ☐ End Dump (Tarped) Trailer |
| Gal | ☐ Tank or ☐ Vacuum Trailer |
| Other | Other |
| C. GENERAL MATERIAL & REGULATORY INFORMATION | |
| Name of Material Soil + Cocks | |
| Process Generating The Material Spill of focility | motive water |
| Yes No Classification Yes No Yes | Yes No Exempt Waste; If Yes, list reference 40 CFR |
| ☐ ► Regulated Medical / Infectious Waste | ☐ State Hazardous Waste; State Code |
| 7 | |
| ★ □ Waste Subject To Benzene NESHAP Regulations | Commingled Waste (Two or more hazardous wastes mixed as one) |
| Waste Subject To Benzene NESHAP Regulations TSCA Regulated PCB Waste (List any PCB level in Sec. D) | Commingled Waste (Two or more hazardous wastes mixed as one) Meets LDR Standards or □ Partially Meets (For Landfill Only) |
| | Commingled Waste (Two or more hazardous wastes mixed as one) |
| TSCA Regulated PCB Waste (List any PCB level in Sec. D) | Commingled Waste (Two or more hazardous wastes mixed as one) Meets LDR Standards or Partially Meets (For Landfill Only) EPA Hazardous Waste EPA Waste Codes (including any LDR subcategories, e.g., D003 Water Reactive): |
| TSCA Regulated PCB Waste (List any PCB level in Sec. D) Regulated Subpart CC Waste (VOC's ≥ 500 ppm) Regulated Ozone Depleting Substance CERCLA Regulated (Superfund) Waste | Commingled Waste (Two or more hazardous wastes mixed as one) Meets LDR Standards or Partially Meets (For Landfill Only) EPA Hazardous Waste EPA Waste Codes (including any LDR subcategories, e.g., D003 Water Reactive): See Cutto had hist Mo(: e 1985 |
| TSCA Regulated PCB Waste (List any PCB level in Sec. D) Regulated Subpart CC Waste (VOC's ≥ 500 ppm) Regulated Ozone Depleting Substance | Commingled Waste (Two or more hazardous wastes mixed as one) Meets LDR Standards or Partially Meets (For Landfill Only) EPA Hazardous Waste EPA Waste Codes (including any LDR subcategories, e.g., D003 Water Reactive): |
| TSCA Regulated PCB Waste (List any PCB level in Sec. D) Regulated Subpart CC Waste (VOC's ≥ 500 ppm) Regulated Ozone Depleting Substance CERCLA Regulated (Superfund) Waste Hazardous Debris (Subject to alternative LDR treatment standards) D. MATERIAL COMPOSITION Note: List ALL DETECTABLE COM | Commingled Waste (Two or more hazardous wastes mixed as one) Meets LDR Standards or Partially Meets (For Landfill Only) EPA Hazardous Waste EPA Waste Codes (including any LDR subcategories, e.g., D003 Water Reactive): See City hod hist (1005) APONENTS by chemical name; e.g., acetone, asbestos, trichloroethylene; list |
| TSCA Regulated PCB Waste (List any PCB level in Sec. D) Regulated Subpart CC Waste (VOC's ≥ 500 ppm) Regulated Ozone Depleting Substance CERCLA Regulated (Superfund) Waste Hazardous Debris (Subject to alternative LDR treatment standards) D. MATERIAL COMPOSITION Note: List ALL DETECTABLE COM specific dioxins, OSHA carcinogens, PCB's, pesticides, VOC's by chemic | Commingled Waste (Two or more hazardous wastes mixed as one) Meets LDR Standards or Partially Meets (For Landfill Only) EPA Hazardous Waste EPA Waste Codes (including any LDR subcategories, e.g., D003 Water Reactive): See Ctto hod 15t (No (18 68) APONENTS by chemical name; e.g., acetone, asbestos, trichloroethylene; list al name; plus any other material, e.g., sorbent, specific debris type & size. |
| TSCA Regulated PCB Waste (List any PCB level in Sec. D) Regulated Subpart CC Waste (VOC's ≥ 500 ppm) Regulated Ozone Depleting Substance CERCLA Regulated (Superfund) Waste Hazardous Debris (Subject to alternative LDR treatment standards) D. MATERIAL COMPOSITION Note: List ALL DETECTABLE COM specific dioxins, OSHA carcinogens, PCB's, pesticides, VOC's by chemic Material Components & Composition Material Components & Composition ppm | Commingled Waste (Two or more hazardous wastes mixed as one) Meets LDR Standards or Partially Meets (For Landfill Only) EPA Hazardous Waste EPA Waste Codes (including any LDR subcategories, e.g., D003 Water Reactive): See City to the list (1000) APONENTS by chemical name; e.g., acetone, asbestos, trichloroethylene; list al name; plus any other material, e.g., sorbent, specific debris type & size. |
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| t page species in alphability and the last first environment, recording alphabity and applications and problem from the | dispersional and the second second second second second second | and the second s | Property of the second |
|--|--|--|---|
| E. REACTIVE CHARACTERISTICS | | | international and the second |
| Yes No Yes No | Yes No Acid Reactive | Yes No. | ve Sulfide ppm |
| ☐ \$1 Shock Sensitive ☐ \$1. Water React | | □ 🎁 Polym | nerizable |
| ☐ 15 Pyrophoric ☐ 25 Air Reactive | Reactive Cyanide | on the other | Incompatibles List Below |
| | | gen 1 februari 2 februari 1 febru | |
| F. MATERIAL PHYSICAL CHARACTE | USTICS @ 70°F. | ter et Maurille. | |
| # of Phases Color Brown | Flash Point °F (if < 73°F) | pH □ Liquids >20% H ₂ O or | pH th Non-Aqueous |
| Liquid % Odor None | □ 73 - < 100°F □ 100 - 141°F | $\square \leq 2 \text{ pH} \qquad \square > 2$ | 4 pH 54 > 4 - 10 pH |
| Sludge % Specific Gravity | ☐ 142°F - < 200°F | □ > 10 - < 12.5 pH | □ ≥ 12.5 pH |
| Solid % 100 Viscosity | Boiling Point (if < 130°F) | Sorbent Added: None Biod | legradable? ☐ Yes ☐ No |
| Powder % O Density | Ash % (Bridgeport Only) | BTU's / lb. or Range | |
| Gas % D Ibs./ gal. Ibs./ cu. ft. | Comments | | |
| G. ELEMENTAL INFORMATION | Check if this waste contains No Det | tectable Elements / Metals. un | less listed below. |
| Check either; | | | |
| Constituent ppm Constituent ppm | Constituent ppm | Constituent ppm | Constituent ppm |
| Aluminum Cadmium | Fluorine | Nickel . | Sođium |
| Antimony Chlorine | Lead | Phosphorous / | Sulfur |
| Arsenic Chromium | Lithium | Potassium | Thalfium |
| Barium Cobalt | Manganese | Selenium | Titanium |
| Beryllium Copper | Mércury | Silicon . | Vanadium |
| Bromine Iodine | Molybdenum | Silver | Zinc |
| H. MATERIAL DISPOSITION OPTIONS # 1 Recycling / Recovering # 2 Fuels Blend List disposition # in order of preference if more than on | ++ 2 | | 5 Deepwell Injection |
| I. GENERATOR PROFILE CERTIFICATION I hereby certify that I am an authorized agent of the attachments or supplements hereto is complete and | generator, and warrant on behalf of the genera | | |
| Generator's Authorized Signature | EH45 Mon | |) / <u>08</u> / <u>98</u> |
| Comments Son Waste Will | corry all facility | cudos although | 1 detectable |
| Contamination should | la mile | | |
| | | | |
| | | | L. CYD I - Joseph |
| Safety-Kleen Use Only SK Sales Rep. Name | ☐ SKOS ☐ SKVS ☐ Non-haz Evalua Employee # | tion Standard Industry Profi | <u> </u> |
| Waste Approval & Certification | Simple/ce ii | Tornory/Diane | |
| We certify acceptability of this waste stream and that | it all appropriate permits have been obtained, | as indicated by Safety-Kleen's facili | ity approval below: |
| Safety-Kleen's Authorized Facility Signature | Name & Title (Printed o | r Typed) | / / |

U.S. FILTER/WESTATES
2523 MUTAHAR STREET
POST OFFICE BOX E
PARKER, AZ 85344

TELEPHONE 520-669-5758 FACSIMILE 520-669-5775

VIA CERTIFIED MAIL P 162 444 064

October 5, 1998

Felicia Marcus, Regional Administrator EPA Region IX 75 Hawthorne Street San Francisco, CA 94105-3901

RE: WESTATES CARBON-ARIZONA, INC. – NOTICE OF IMPLEMENTATION OF CONTINGENCY PLAN IN ACCORDANCE WITH 40 CFR 265.56

Dear Ms. Marcus

On September 26, 1998 Westates Carbon-Arizona Inc. experienced a spill from a truck on site that contained recycle water from the plant that is used to slurry hazardous spent carbon in the treatment process.

The occurrence was caused by the driver opening a valve and accidently discharging the water on the soil just outside the main gate of the plant. The spill happened at 2:00 P.M. and a Westates Carbon employee immediately started containment and clean up procedures.

Per CFR 265.56 Westates Carbon-Arizona, Inc. is submitting the following information to EPA Region IX.:

FACILITY OWNER

Westates Carbon-Arizona P.O. Box E Parker, Arizona 85344 Phone: (520) 669-5758

FACILITY ADDRESS

Westates Carbon-Arizona 2523 Mutaher Street Parker, Arizona 85344 Phone: (520)669-5758

Domestic Return Receipt

Signature: *(Addressee or Agent,*

Form 3811, December 1994

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| | US Postal Service | | | | | | | |
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| | Do not use for International Mail (See reverse) | | | | | | | |
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| | Post Office, State, & ZIP Coo | le
Ca | 94105 | | | | | |
| | Postage | \$ | .55 | | | | | |
| | Certified Fee | | 1.35 | | | | | |
| | Special Delivery Fee | | | | | | | |
| ы | Restricted Delivery Fee | | | | | | | |
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| Apri | Return Receipt Showing to Whom,
Date, & Addressee's Address | ge Control Made 1 % | Y 9 1 | | | | | |
| 800 | TOTAL Postage & Fees | \$ | 3.00 | | | | | |
| PS Form 3800, April 1995 | Postmark or Date | S | | | | | | |
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| | US Postal Service | ************************************** |
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| | Postage | \$ 3.00 |
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| ļ | TOTAL Postage & Fees | \$ 21415 |
| | Postmark or Date | 19/0 |
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Appendix J

Scrubber Water Analytical Results before T-11 For Subpart CC

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc. TestAmerica Irvine 17461 Derian Ave Suite 100 Irvine, CA 92614-5817 Tel: (949)261-1022

TestAmerica Job ID: 440-125619-1 Client Project/Site: Subpart CC

For:

Evoqua Water Technologies eProcurement PO BOX 3308 IMA065 Parker, Arizona 85344

Attn: Roy Provins

Authorized for release by: 11/6/2015 3:12:30 PM

Camille Murray, Project Manager I (949)261-1022 camille.murray@testamericainc.com

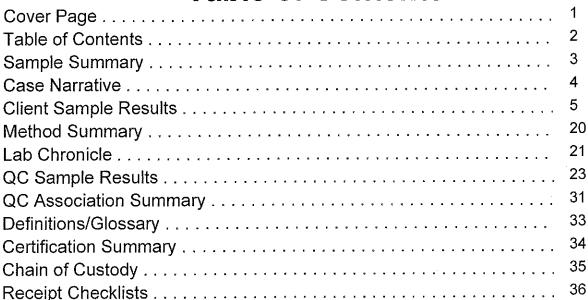
The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Project/Site: Subpart CC

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Sample Summary

Client: Evoqua Water Technologies eProcurement Project/Site: Subpart CC

TestAmerica Job ID: 440-125619-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|-----------------------|--------|----------------|----------------|
| 440-125619-1 | Subpart CC (A) 1L AMB | Water | 10/27/15 08:00 | 10/28/15 10:00 |
| 440-125619-2 | Subpart CC (B) 1L AMB | Water | 10/27/15 08:00 | 10/28/15 10:00 |
| 440-125619-3 | Subpart CC (C) 1L AMB | Water | 10/27/15 08:00 | 10/28/15 10:00 |
| 440-125619-4 | Subpart CC (D) 1L AMB | Water | 10/27/15 08:00 | 10/28/15 10:00 |
| 440-125619-5 | Subpart CC (E) 1L AMB | Water | 10/27/15 08:00 | 10/28/15 10:00 |
| 440-125619-6 | Subpart CC (F) 1L AMB | Water | 10/27/15 08:00 | 10/28/15 10:00 |

Case Narrative

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

TestAmerica Job ID: 440-125619-1

Job ID: 440-125619-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-125619-1

Comments

No additional comments.

Receipt

The samples were received on 10/28/2015 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.5° C, 1.0° C and 2.4° C.

GC/MS Semi VOA

Method(s) 8270C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-290473. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method(s) 8270C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 440-290473 recovered outside control limits for the following analytes: 3-nitroaniline; 3,3'-dichlorobenzidine; 4-chloroaniline; and 4-nitroaniline.

Method(s) 8270C: The laboratory control sample duplicate (LCSD) for preparation batch 290473 failed below lower acceptance limits for the following analytes: 3-nitroaniline; 3,3'-dichlorobenzidine; 4-chloroaniline; and 4-nitroaniline. These analytes are known historically to be poor performers. The affected samples could not be reextracted within hold times.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8081A: The continuing calibration verification (CCV) associated with batch 440-290855 recovered above the upper control limit for 4,4'-DDD, alpha-BHC, delta-BHC, Endosulfan sulfate, Endrin ketone, Endrin aldehyde, gamma-BHC (Lindane) and Heptachlor. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: Subpart CC (A) 1L AMB (440-125619-1), Subpart CC (B) 1L AMB (440-125619-2), Subpart CC (C) 1L AMB (440-125619-3), Subpart CC (D) 1L AMB (440-125619-4), Subpart CC (E) 1L AMB (440-125619-5), Subpart CC (F) 1L AMB (440-125619-6), (CCV 440-290855/29) and (CCVRT 440-290855/6).

Method(s) 8081A: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 440-290131 recovered outside control limits for the following analyte: Endosulfan sulfate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8081A/8082: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 440-290131. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Client: Evoqua Water Technologies eProcurement Project/Site: Subpart CC

Lab Sample ID: 440-125619-1

TestAmerica Job ID: 440-125619-1

Client Sample ID: Subpart CC (A) 1L AMB Date Collected: 10/27/15 08:00

Matrix: Water Date Received: 10/28/15 10:00

| Analyte | Organic Compounds (G
Result Qualifier | RL | MDL Unit | <u> </u> | • | Analyzed | Dil F |
|---|--|------------|----------|----------|----------------|----------------|-------|
| 1,2,4-Trichlorobenzene | ND | 9.7 | ug/L | | | 11/03/15 18:02 | |
| 1,2-Dichlorobenzene | ND | 9.7 | ug/L | | | 11/03/15 18:02 | |
| l ,2-Diphenylhydrazine(as
Azobenzene) | ND | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| ,3-Dichlorobenzene | ND | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| ,4-Dichlorobenzene | ND · | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| ,4,5-Trichlorophenol | ND | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| ,4,6-Trichlorophenol | ND | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| ,4-Dichlorophenol | ND | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| 4-Dimethylphenol | ND | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| 4-Dinitrophenol | ND | 39 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| ,4-Dinitrotoluene | ND | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| ,6-Dinitrotoluene | ND | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| -Chloronaphthalene | ND | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| -Chlorophenol | ND | 9.7 | ug/L | | | 11/03/15 18:02 | |
| Methylnaphthalene | ND | 9.7 | ug/L | | | 11/03/15 18:02 | |
| Methylphenol | ND | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| Nitroaniline | ND | 19 | ug/L | | | 11/03/15 18:02 | |
| Nitrophenol | ND | 9.7 | ug/L | | | 11/03/15 18:02 | |
| 3'-Dichlorobenzidine | ND * | 19 | ug/L | | | 11/03/15 18:02 | |
| Nitroaniline | ND * | 19 | ug/L | | | 11/03/15 18:02 | |
| 6-Dinitro-2-methylphenol | ND | 19 | ug/L | | | 11/03/15 18:02 | |
| . · · · · · · · · · · · · · | ND | 9.7 | ug/L | | | 11/03/15 18:02 | |
| Bromophenyl phenyl ether
Chioro-3-methylphenol | ND
ND | 19 | ug/L | | | 11/03/15 18:02 | |
| Chloroaniline | ND * | 9.7 | ug/L | | | 11/03/15 18:02 | |
| | ND | 9.7 | ug/L | | | 11/03/15 18:02 | |
| Chlorophenyl phenyl ether | ND | 9.7 | ug/L | | | 11/03/15 18:02 | |
| Methylphenol + 4-Methylphenol | ND * | 19 | ug/L | | | 11/03/15 18:02 | |
| Nitroaniline | ND | 19 | ug/L | | | 11/03/15 18:02 | |
| Nitrophenol | | 9.7 | | | | 11/03/15 18:02 | |
| cenaphthene | ND | 9.7
9.7 | ug/L | | | 11/03/15 18:02 | |
| cenaphthylene | ND | | ug/L | | | 11/03/15 18:02 | |
| niline | ND * | 9.7 | ug/L | | | | |
| othracene | ND | 9.7 | ug/L | | | 11/03/15 18:02 | |
| enzidine | ND | 39 | ug/L | | | 11/03/15 18:02 | |
| enzo[a]anthracene | ND | 9.7 | ug/L | | | 11/03/15 18:02 | |
| enzo[a]pyrene | ND | 9.7 | ug/L | | | 11/03/15 18:02 | |
| nzo[b]fluoranthene | ND | 9.7 | ug/L | | | 11/03/15 18:02 | |
| enzo[g,h,i]perylene | ND | 9.7 | ug/L
 | | | 11/03/15 18:02 | |
| nzo[k]fluoranthene | ND | 9.7 | ug/L | | | 11/03/15 18:02 | |
| nzoic acid | ND | 19 | ug/L | | | 11/03/15 18:02 | |
| nzyl alcohol | ND | 19 | ug/L | | | 11/03/15 18:02 | |
| s(2-chloroethoxy)methane | ND | 9.7 | ug/L | | | 11/03/15 18:02 | |
| s(2-chloroethyl)ether | ND | 9.7 | ug/L | | | 11/03/15 18:02 | |
| s(2-ethylhexyl) phthalate | ND | 19 | ug/L | | | 11/03/15 18:02 | |
| ityl benzyl phthalate | ND | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| nrysene | ND | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| benz(a,h)anthracene | ND | 19 | ug/L | | | 11/03/15 18:02 | |
| benzofuran | ND | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| ethyl phthalate | ND | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |

Client: Evoqua Water Technologies eProcurement Project/Site: Subpart CC

Lab Sample ID: 440-125619-1

Client Sample ID: Subpart CC (A) 1L AMB

Date Collected: 10/27/15 08:00 Date Received: 10/28/15 10:00

Matrix: Water

TestAmerica Job ID: 440-125619-1

| Vlethod: 8270C - Semivolatile
Analyte | Result Q | ualifier RL | MDL Unit | D | Prepared | Analyzed | Dil F |
|--|--|---|--|---|--|--|-------|
| Dimethyl phthalate | ND | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| Di-n-butyl phthalate | ND | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| Di-n-octyl phthalate | ND | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| Fluoranthene | ND | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| Fluorene | ND | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| -lexachlorobenzene | ND | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| -lexachlorobutadiene | ND | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| lexachlorocyclopentadiene | ND | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| -lexachloroethane | ND | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| ndeno[1,2,3-cd]pyrene | ND ND | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| sophorone | ND | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:02 | |
| Naphthalene | ND | 9.7 | ug/L | | | 11/03/15 18:02 | |
| | ND ND | 19 | ug/L | | | 11/03/15 18:02 | |
| Vitrobenzene | ND | 9.7 | ug/L | | | 11/03/15 18:02 | |
| N-Nitrosodi-n-propylamine | | 9.7 | ug/L | | | 11/03/15 18:02 | |
| N-Nitrosodiphenylamine | ND
ND | 9.7 | ug/L. | | | 11/03/15 18:02 | |
| Pentachlorophenol | ND
ND | | ug/L
ug/L | | | 11/03/15 18:02 | |
| henanthrene | ND | 9.7 | - | | | 11/03/15 18:02 | |
| henol | ND | 9.7 | ug/L | | | 11/03/15 18:02 | |
| Pyrene | ND | 9.7 | ug/L | | | 11/03/15 18:02 | |
| is (2-chloroisopropyl) ether | ND | 9.7 | ug/L | | 10/30/10 00:00 | 11/03/13 16:02 | |
| urrogate | %Recovery Q | ualifier Limits | | | Prepared | Analyzed | Dil |
| -Fluorobiphenyl | 56 | 50 - 120 | | | | | |
| -Fluorophenol (Surr) | 53 | 30 - 120 | | | 10/30/15 08:55 | 11/03/15 18:02 | |
| ,4,6-Tribromophenol (Surr) | 72 | 40 - 120 | | | | 11/03/15 18:02 | |
| litrobenzene-d5 (Surr) | 58 | 45 - 120 | | | | 11/03/15 18:02 | |
| erphenyl-d14 (Surr) | 71 | 10 - 150 | | | 10/30/15 08:55 | 11/03/15 18:02 | |
| Phenol-d6 (Surr) | 54 | 35 - 120 | | | 10/30/15 08:55 | 11/03/15 18:02 | |
| Method: 8081A - Organochlor | rine Pesticides | (GC) | | | | | |
| Analyte | Result Q | | MDL Unit | D | Prepared | Analyzed | Dil F |
| ,4'-DDD | ND | 0.097 | ug/L | | 10/29/15 06:30 | 11/01/15 17:37 | |
| 4'-DDE | ND | 0.097 | ug/L | | 10/29/15 06:30 | 11/01/15 17:37 | |
| AL PROPERTY. | | | | | 10/29/15 06:30 | 11/01/15 17:37 | |
| 4'-DD1 | ND | 0.097 | ug/L | | | | |
| | ND
ND | 0.097
0.097 | ug/L
ug/L | | 10/29/15 06:30 | 11/01/15 17:37 | |
| ldrin | | | . - | | | | |
| ldrin
Ipha-BHC | ND | 0.097 | ug/L | | 10/29/15 06:30 | 11/01/15 17:37 | |
| ldrin
Ipha-BHC
Ipha-Chlordane | ND
ND | 0.097
0.097 | ug/L
ug/L
ug/L | | 10/29/15 06:30
10/29/15 06:30 | 11/01/15 17:37
11/01/15 17:37 | |
| ldrin
Ipha-BHC
Ipha-Chlordane
eta-BHC | ND
ND
ND
ND | 0.097
0.097
0.19 | ug/L
ug/L | | 10/29/15 06:30
10/29/15 06:30
10/29/15 06:30 | 11/01/15 17:37
11/01/15 17:37
11/01/15 17:37 | |
| ldrin
Ipha-BHC
Ipha-Chfordane
eta-BHC
Intordane (technical) | ND
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11/01/15 17:37 | |
| ldrin
Ipha-BHC
Ipha-Chlordane
eta-BHC
Inlordane (technical)
elta-BHC | ND
ND
ND
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11/01/15 17:37
11/01/15 17:37 | , |
| ldrin
Ipha-BHC
Ipha-Chlordane
eta-BHC
Intordane (technical)
elta-BHC
iieldrin
Indosulfan I | ND
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11/01/15 17:37 | |
| ldrin
Ipha-BHC
Ipha-Chfordane
eta-BHC
Intordane (technical)
elta-BHC
ieldrin
ndosulfan I
ndosulfan II | ND
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11/01/15 17:37
11/01/15 17:37
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11/01/15 17:37
11/01/15 17:37
11/01/15 17:37 | |
| ldrin pha-BHC pha-Chiordane eta-BHC htordane (technical) elta-BHC ieldrin ndosulfan I ndosulfan sulfate | ND
ND
ND
ND
ND
ND
ND
ND | 0.097
0.097
0.19
0.097
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0.19
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0.097 | ug/L
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ug/L
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11/01/15 17:37
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11/01/15 17:37
11/01/15 17:37
11/01/15 17:37
11/01/15 17:37 | |
| Idrin Ipha-BHC Ipha-Chlordane eta-BHC Intordane (technical) elta-BHC ieldrin ndosulfan I ndosulfan sulfate ndrin | ND
ND
ND
ND
ND
ND
ND
ND
ND | 0.097
0.097
0.19
0.097
0.97
0.19
0.097
0.097
0.19
0.097 | ug/L
ug/L
ug/L
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ug/L
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ug/L | | 10/29/15 06:30
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10/29/15 06:30
10/29/15 06:30
10/29/15 06:30
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10/29/15 06:30 | 11/01/15 17:37
11/01/15 17:37
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11/01/15 17:37
11/01/15 17:37
11/01/15 17:37
11/01/15 17:37
11/01/15 17:37 | |
| Idrin Ipha-BHC Ipha-Chlordane eta-BHC Ihlordane (technical) elta-BHC Dieldrin Indosulfan I Indosulfan sulfate Indrin Indosulfan sulfate Indrin | ND
ND
ND
ND
ND
ND
ND
ND
ND * | 0.097
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0.19
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ug/L
ug/L
ug/L
ug/L
ug/L
ug/L | | 10/29/15 06:30
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10/29/15 06:30
10/29/15 06:30
10/29/15 06:30
10/29/15 06:30
10/29/15 06:30
10/29/15 06:30 | 11/01/15 17:37
11/01/15 17:37 | |
| Idrin Ipha-BHC Ipha-Chlordane eta-BHC Chlordane (technical) elta-BHC Dieldrin Indosulfan I Indosulfan sulfate Indrin aldehyde Indrin ketone | ND
ND
ND
ND
ND
ND
ND
ND
ND
ND
ND | 0.097
0.097
0.19
0.097
0.97
0.19
0.097
0.097
0.097
0.097 | ug/L
ug/L
ug/L
ug/L
ug/L
ug/L
ug/L
ug/L | | 10/29/15 06:30
10/29/15 06:30 | 11/01/15 17:37
11/01/15 17:37 | |
| I,4'-DDT Aldrin Ilpha-BHC Ilpha-Chlordane Ileta-BHC Chlordane (technical) Ileta-BHC Dieldrin Endosulfan I Endosulfan II Endosulfan sulfate Endrin Endrin aldehyde Endrin ketone Ilamma-BHC (Lindane) | ND
ND
ND
ND
ND
ND
ND
ND
ND * | 0.097
0.097
0.19
0.097
0.97
0.19
0.097
0.097
0.19
0.097 | ug/L
ug/L
ug/L
ug/L
ug/L
ug/L
ug/L
ug/L | | 10/29/15 06:30
10/29/15 06:30 | 11/01/15 17:37
11/01/15 17:37 | |

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

TestAmerica Job ID: 440-125619-1

Client Sample ID: Subpart CC (A) 1L AMB

Date Collected: 10/27/15 08:00

Matrix: Water Date Received: 10/28/15 10:00

| Method: 8081A - Organochi Analyte | Result C | | RĽ. | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|-------------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Heptachlor epoxide | ND | - | 0.097 | - | ug/L | | 10/29/15 06:30 | 11/01/15 17:37 | 1 |
| Methoxychlor | ND | | 0.097 | | ug/L | | 10/29/15 06:30 | 11/01/15 17:37 | 1 |
| Toxaphene | ND | | 4.8 | | ug/L | | 10/29/15 06:30 | 11/01/15 17:37 | 1 |
| Surrogate | %Recovery G | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Tetrachloro-m-xylene | | | 10 - 150 | | | | 10/29/15 06:30 | 11/01/15 17:37 | 1 |
| DCB Decachlorobiphenyl (Surr) | 119 | | 18 - 134 | | | | 10/29/15 06:30 | 11/01/15 17:37 | 1 |

| Method: 8082 - Polychlorina
Analyte | Result Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|---------------------|----------|-----|------|---|----------------|----------------|---------|
| Aroclor 1016 | ND — | 0.97 | | ug/L | | 10/29/15 06:30 | 10/30/15 15:29 | 1 |
| Aroclor 1221 | ND | 0.97 | | ug/L | | 10/29/15 06:30 | 10/30/15 15:29 | 1 |
| Aroclor 1232 | ND | 0.97 | | ug/L | | 10/29/15 06:30 | 10/30/15 15:29 | 1 |
| Aroclor 1242 | ND | 0.97 | | ug/L | | 10/29/15 06:30 | 10/30/15 15:29 | 1 |
| Aroclor 1248 | ND | 0.97 | | ug/L | | 10/29/15 06:30 | 10/30/15 15:29 | 1 |
| Aroclor 1254 | ND | 0.97 | | ug/L | | 10/29/15 06:30 | 10/30/15 15:29 | 1 |
| Aroclor 1260 | ND | 0.97 | | ug/L | | 10/29/15 06:30 | 10/30/15 15:29 | 1 |
| Surrogate | %Recovery Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| DCB Decachlorobiphenyl (Surr) | 34 | 29 - 115 | | | | 10/29/15 06:30 | 10/30/15 15:29 | 1 |

Client Sample ID: Subpart CC (B) 1L AMB

Date Collected: 10/27/15 08:00 Date Received: 10/28/15 10:00

Lab Sample ID: 440-125619-2

Lab Sample ID: 440-125619-1

Matrix: Water

| Method: 8270C - Semivolatile | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-------------|------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | ND | | 9.7 | *********** | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 1,2-Dichlorobenzene | ND | | 9.7 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 1,2-Diphenylhydrazine(as
Azobenzene) | ND | | 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 1,3-Dichlorobenzene | ND | | 9.7 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 1,4-Dichlorobenzene | ND | | 9.7 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 2,4,5-Trichlorophenol | ND | | 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 2.4.6-Trichlorophenol | ND | • | 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 2,4-Dichlorophenol | ND | | 9.7 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 2,4-Dimethylphenol | ND | | 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 2,4-Dinitrophenol | ND | | 39 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 2,4-Dinitrotoluene | ND | | 9.7 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 2.6-Dinitrotoluene | ND | | 9.7 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 2-Chioronaphthalene | ND | * | 9.7 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 2-Chlorophenol | ND | | 9.7 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 2-Methylnaphthalene | ND | | 9.7 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 2-Methylphenol | ND | | 9.7 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 2-Nitroaniline | ND | | 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 2-Nitrophenol | ND | | 9.7 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 3,3'-Dichlorobenzidine | ND | * | 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 3-Nitroaniline | ND | * | 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 9.7 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 4-Chloro-3-methylphenol | ND | | 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

2,4,6-Tribromophenol (Surr)

Lab Sample ID: 440-125619-2

TestAmerica Job ID: 440-125619-1

Client Sample ID: Subpart CC (B) 1L AMB

Matrix: Water

Date Collected: 10/27/15 08:00 Date Received: 10/28/15 10:00

| Method: 8270C - Semivolatile Analyte | | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------------|-----------|----------|----------|---|----------------|----------------|---------|
| 4-Chloroaniline | ND | * | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 3-Methylphenol + 4-Methylphenol | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 4-Nitroaniline | ND | * | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| 4-Nitrophenol | ND | | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Acenaphthene | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Acenaphthylene | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Aniline | ND | * | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Anthracene | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Benzidine | ND | | 39 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Benzo[a]anthracene | ND. | • | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Benzo[a]pyrene | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Benzo[b]fluoranthene | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Benzo[g,h,i]perylene | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Benzo[k]fluoranthene | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Benzoic acid | ND | | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Benzyl alcohol | ND | | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Bis(2-chloroethyl)ether | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Butyl benzyl phthalate | ND | | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Chrysene | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Dibenz(a,h)anthracene | ND | | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Dibenzofuran | ND | | 9.7 | ug/L. | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Diethyl phthalate | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Dimethyl phthalate | ИD | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Di-n-butyl phthalate | ND | | 19 | ug/L | | | 11/03/15 18:25 | 1 |
| Di-n-octyl phthalate | ND | | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Fluoranthene | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Fluorene | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Hexachlorobenzene | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| -lexachlorobutadiene | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| -
Hexachlorocyclopentadiene | ND | | 19 | ug/L | | | 11/03/15 18:25 | 1 |
| Hexachloroethane | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| ndena[1,2,3-cd]pyrene | ND | | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| sophorone | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Naphthalene | ND | | 9.7 | ug/L | | | 11/03/15 18:25 | 1 |
| litrobenzene | ND | | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| N-Nitrosodiphenylamine | ND | | 9.7 | ug/L | | 10/30/15 08:55 | | . 1 |
| Pentachlorophenol | ND | | 19 | ug/L | | | 11/03/15 18:25 | 1 |
| Phenanthrene | ND | | 9.7 | ug/L | | | 11/03/15 18:25 | 1 |
| Phenol | ND | | 9.7 | ug/L | | | 11/03/15 18:25 | 1 |
| Pyrene | ND | | 9.7 | ug/L | | 10/30/15 08:55 | | 1 |
| is (2-chloroisopropyl) ether | , ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl | 63 | | 50 - 120 | | | | 11/03/15 18:25 | 1 |
| 2-Fluorophenol (Surr) | 58 | | 30 - 120 | | | 10/30/15 08:55 | 11/03/15 18:25 | 1 |

TestAmerica Irvine

10/30/15 08:55 11/03/15 18:25

40 - 120

78

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

TestAmerica Job ID: 440-125619-1

Client Sample ID: Subpart CC (B) 1L AMB

Date Collected: 10/27/15 08:00 Date Received: 10/28/15 10:00 Lab Sample ID: 440-125619-2

Matrix: Water

| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
|-------------------------------|----------------|------------|-------------|----------|----------|----------------|----------------|--------|
| Nitrobenzene-d5 (Surr) | 64 | - | 45 - 120 | | | 10/30/15 08:55 | 11/03/15 18:25 | |
| Terphenyl-d14 (Surr) | 81 | | 10 - 150 | | | 10/30/15 08:55 | 11/03/15 18:25 | |
| Phenol-d6 (Surr) | 57 | | 35 - 120 | | | 10/30/15 08:55 | 11/03/15 18:25 | |
| Method: 8081A - Organochi | orine Pesticid | les (GC) | | | | | | |
| Analyte | | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fa |
| 4,4'-DDD | ND | | 0.097 | ug/L | | 10/29/15 06:30 | 11/01/15 17:51 | • |
| 4,4'-DDE | ND | | 0.097 | uig/L | | | 11/01/15 17:51 | |
| 4,4'-DDT | ND | | 0.097 | ug/L | | 10/29/15 06:30 | 11/01/15 17:51 | |
| Aldrin | ND | | 0.097 | ug/L | | 10/29/15 06:30 | 11/01/15 17:51 | |
| alpha-BHC | ND | | 0.097 | ug/L | | 10/29/15 06:30 | 11/01/15 17:51 | |
| alpha-Chlordane | ND | | 0.19 | ug/L | | 10/29/15 06:30 | 11/01/15 17:51 | |
| peta-BHC | ND | • | 0.097 | ug/L | | 10/29/15 06:30 | 11/01/15 17:51 | |
| Chlordane (technical) | ND | | 0.97 | ug/L | | 10/29/15 06:30 | 11/01/15 17:51 | |
| delta-BHC | ND | | 0.19 | ug/L | | 10/29/15 06:30 | 11/01/15 17:51 | |
| Dieldrin | ND | | 0.097 | ug/L | | 10/29/15 06:30 | 11/01/15 17:51 | • |
| Endosulfan I | ND | | 0.097 | ug/L | | 10/29/15 06:30 | 11/01/15 17:51 | |
| Endosulfan II | ND | | 0.097 | ug/L | | 10/29/15 06:30 | 11/01/15 17:51 | |
| ndosulfan sulfate | ND | * | 0.19 | ug/L | | 10/29/15 06:30 | 11/01/15 17:51 | |
| Endrin | ND | | 0.097 | ug/L | | 10/29/15 06:30 | 11/01/15 17:51 | |
| Endrin aldehyde | ND | | 0.097 | ug/L | | 10/29/15 06:30 | 11/01/15 17:51 | |
| Endrin ketone | ND | | 0.097 | ug/L | | 10/29/15 06:30 | 11/01/15 17:51 | |
| jamma-BHC (Lindane) | ND | | 0.097 | ug/L | | 10/29/15 06:30 | 11/01/15 17:51 | |
| gamma-Chlordane | ND | | 0.097 | ug/L | | 10/29/15 06:30 | 11/01/15 17:51 | |
| Heptachlor | ND | | 0.097 | ug/L | | 10/29/15 06:30 | 11/01/15 17:51 | |
| leptachlor epoxide | ND | | 0.097 | ug/L | | | 11/01/15 17:51 | |
| Vethoxychlor | ND | | 0.097 | ug/L | | | 11/01/15 17:51 | |
| Foxaphene | ND | | 4.9 | ug/L | | | 11/01/15 17:51 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| Tetrachloro-m-xylene | 76 | | 10 - 150 | | | 10/29/15 06:30 | 11/01/15 17:51 | |
| OCB Decachlorobiphenyl (Surr) | 120 | | 18 - 134 | | | 10/29/15 06:30 | 11/01/15 17:51 | |
| Wethod: 8082 - Polychlorina | ted Biphenyls | s (PCBs) b | y Gas Chron | | | | | |
| \nalyte | Result | Qualifier | RL | MDL Unit | <u>D</u> | Prepared | Analyzed | Dil Fa |
| roctor 1016 | ND | | 0.97 | ug/L | | 10/29/15 06:30 | 10/30/15 15:43 | |
| roctor 1221 | ND | | 0.97 | ug/L | | | 10/30/15 15:43 | |
| roclor 1232 | ND | | 0.97 | ug/L | | | 10/30/15 15:43 | |
| roclor 1242 | ND | | 0.97 | ug/L | | | 10/30/15 15:43 | |
| roclor 1248 | ND | | 0.97 | ug/L | | 10/29/15 06:30 | | |
| roclor 1254 | ND | | 0.97 | ug/L | | 10/29/15 06:30 | 10/30/15 15:43 | |
| roclor 1260 | ND | | 0.97 | ug/L | | 10/29/15 06:30 | 10/30/15 15:43 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| DCB Decachlorobiphenyl (Surr) | 31 | | 29 - 115 | | | 10/29/15 06:30 | 10/30/15 15:43 | |

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

Lab Sample ID: 440-125619-3

TestAmerica Job ID: 440-125619-1

Client Sample ID: Subpart CC (C) 1L AMB Date Collected: 10/27/15 08:00

Matrix: Water

Date Collected: 10/27/15 08:00 Date Received: 10/28/15 10:00

| Method: 8270C - Semivolatile
Analyte | | Qualifier RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
|---|-------|--------------|-----|-------------------|---|----------------|----------------|--------|
| 1,2,4-Trichlorobenzene | ND | 9.6 | | ug/L | _ | 10/30/15 08:55 | 11/03/15 18:48 | |
| 1,2-Dichlorobenzene | ND | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | |
| 1,2-Diphenylhydrazine(as
Azobenzene) | ND | 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | |
| 1,3-Dichlorobenzene | ND | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | |
| ,4-Dichlorobenzene | ND | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | |
| 2,4,5-Trichlorophenol | ND | 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | |
| .,4,6-Trichlorophenol | ND | 19 | | ug/L | • | 10/30/15 08:55 | 11/03/15 18:48 | |
| 2,4-Dichlorophenol | ND | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | |
| ,4-Dimethylphenol | ND | 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | |
| ,4-Dinitrophenol | ND | 38 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | |
| ,4-Dinitrotoluene | ND | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | |
| ,6-Dinitrotoluene | ND | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | |
| 2-Chloronaphthalene | ND | 9.6 | ÷ | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | |
| -Chlorophenal | ND | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | |
| -Methylnaphthalene | ND | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | |
| -Methylphenol | ND | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | |
| -Nitroaniline | ND | 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | |
| -Nitrophenol | ND | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | |
| 3'-Dichlorobenzidine | ND | * 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | |
| ·Nitroaniline | ND | * 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | |
| 6-Dinitro-2-methylphenol | ND | 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | |
| Bromophenyl phenyl ether | ND | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | 100 |
| Chloro-3-methylphenol | ND | 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | |
| Chloroaniline | ND | | | ug/L | | | 11/03/15 18:48 | |
| Chlorophenyl phenyl ether | ND | 9.6 | | ug/L | | 10/30/15 08:55 | | |
| Methylphenol + 4-Methylphenol | ND | 9.6 | | ug/L | | 10/30/15 08:55 | | |
| Nitroaniline | ND | | | ug/L | | 10/30/15 08:55 | | |
| Nitrophenol | ND | | | ug/L | | | 11/03/15 18:48 | - |
| cenaphthene | ND | 9.6 | | ug/L | | 10/30/15 08:55 | | |
| cenaphthylene | ND | 9.6 | | ug/L | | 10/30/15 08:55 | | |
| nitine | ND | * 9.6 | | ug/L | | 10/30/15 08:55 | | |
| nthracene | ND | 9.6 | | ug/L | | 10/30/15 08:55 | | |
| enzidine | ND | . 38 | | ug/L | | 10/30/15 08:55 | | |
| enzo[a]anthracene | ND | 9.6 | | ug/L | | 10/30/15 08:55 | | |
| enzo[a]pyrene | ND | 9.6 | | ug/L | | 10/30/15 08:55 | | |
| enzo[b]fluoranthene | ND | 9.6 | | ug/L | | | 11/03/15 18:48 | |
| enzo[g,h,i]perylene | ND | 9.6 | | ug/L | | 10/30/15 08:55 | | |
| enzo[k]fluoranthene | ND | 9.6 | | ug/L | | 10/30/15 08:55 | | |
| enzoic acid | ND | 19 | | ug/L | | 10/30/15 08:55 | | |
| enzyl alcohol | ND | | | ug/L | | 10/30/15 08:55 | | |
| s(2-chloroethoxy)methane | ND | 9.6 | • | ug/L | | 10/30/15 08:55 | | |
| s(2-chloroethyl)ether | ND | 9.6 | | ug/L | | 10/30/15 08:55 | | |
| | ND ND | 19 | | ug/L | | 10/30/15 08:55 | | |
| s(2-ethylhexyl) phthalate | ND | 19 | | ug/L | | 10/30/15 08:55 | | |
| tyl benzyl phthalate | ND | 9.6 | | ug/L [†] | | 10/30/15 08:55 | | |
| hrysene | | | | | | | | |
| benz(a,h)anthracene | ND | 19 | | ug/L | | 10/30/15 08:55 | | |
| ibenzofuran | ND | 9.6 | | ug/L | | 10/30/15 08:55 | | , |
| iethyl phthalate | ND | 9.6 | | ug/L | | 10/30/15 08:55 | | , |
| imethyl phthalate | ND | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | |

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

Lab Sample ID: 440-125619-3

TestAmerica Job ID: 440-125619-1

Matrix: Water

Client Sample ID: Subpart CC (C) 1L AMB

Date Collected: 10/27/15 08:00 Date Received: 10/28/15 10:00

| Result | Qualifier RL | MDL Unit | <u>D</u> | Prepared | Analyzed | Dil Fac |
|--|---|--|--------------------------------------|--|--|---|
| ND | | | | | | |
| ND | | . | | | | |
| ND | | = | | | | |
| ND | | - | | | | , |
| : ND | 9.6 | ug/L | | | | |
| ND | 9.6 | ug/L | | | | , |
| ND | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | • |
| ND | 9.6 | ug/L | | | | , |
| ND | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | • |
| ND | 9.6 | ug/Ĺ | | | | • |
| ND | 9.6 | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | • |
| ND | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | • |
| ND | 9.6 | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | , |
| ND | 9.6 | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | • |
| ND | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | |
| ND | 9.6 | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | , |
| ND | 9.6 | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | 1 |
| | 9.6 | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | . 1 |
| ND | 9.6 | ug/L | | 10/30/15 08:55 | 11/03/15 18:48 | 1 |
| %Recovery | Qualifier Limits | | | Prepared | Analyzed | Dil Fac |
| 57 | 50 - 120 | | | 10/30/15 08:55 | 11/03/15 18:48 | - 1 |
| 60 | 30 - 120 | | | 10/30/15 08:55 | 11/03/15 18:48 | 1 |
| 69 | 40 - 120 | | | 10/30/15 08:55 | 11/03/15 18:48 | 1 |
| 59 | 45 - 120 | • | | 10/30/15 08:55 | 11/03/15 18:48 | 1 |
| 76 | 10 - 150 | | | 10/30/15 08:55 | 11/03/15 18:48 | 1 |
| 62 | 35 - 120 | | | 10/30/15 08:55 | 11/03/15 18:48 | 1 |
| lorine Pesticide | es (GC) | | | | | |
| | | MDL Unit | D | Prepared | Analyzed | Dil Fac |
| ND | 0.095 | ug/L | | 10/29/15 06:30 | 11/01/15 18:05 | 1 |
| ND | 0.095 | ug/L | | 10/29/15 06:30 | 11/01/15 18:05 | 1 |
| ND | 0.095 | ug/L | | 10/29/15 06:30 | 11/01/15 18:05 | 1 |
| ND | 0.095 | ug/L | | 10/29/15 06:30 | 11/01/15 18:05 | 1 |
| ND | 0.095 | ug/L | | 10/29/15 06:30 | 11/01/15 18:05 | 1 |
| IND | | | | 10/00/15 00 00 | 11/01/15 10:0E | |
| ND
ND | 0.19 | ug/L | | 10/29/15 06:30 | 11/01/15 16:05 | |
| | 0.19
0.095 | ug/L
ug/L | | 10/29/15 06:30 | | |
| ND
ND | | ug/L | | | 11/01/15 18:05 | |
| ND
ND
ND | 0.095
0.95 | ug/L
ug/L | | 10/29/15 06:30 | 11/01/15 18:05
11/01/15 18:05 | |
| ND
ND
ND
ND | 0.095
0.95
0.19 | ug/L
ug/L
ug/L | | 10/29/15 06:30
10/29/15 06:30 | 11/01/15 18:05
11/01/15 18:05
11/01/15 18:05 | 1
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| ND
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ND | 0.095
0.95
0.19
0.095 | ug/L
ug/L
ug/L
ug/L | | 10/29/15 06:30
10/29/15 06:30
10/29/15 06:30
10/29/15 06:30 | 11/01/15 18:05
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11/01/15 18:05
11/01/15 18:05 | 1
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| ND
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ND | 0.095
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ug/L | | 10/29/15 06:30
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10/29/15 06:30 | 11/01/15 18:05
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ug/L | | 10/29/15 06:30
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11/01/15 18:05 | 1 |
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10/29/15 06:30 | 11/01/15 18:05
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ug/L | | 10/29/15 06:30
10/29/15 06:30 | 11/01/15 18:05
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11/01/15 18:05
11/01/15 18:05
11/01/15 18:05
11/01/15 18:05 | 1 |
| | Result ND ND ND ND ND ND ND N | Result Qualifier RL | Result Qualifier RL MDL Unit | Result Qualifier RL MDL Unit D | Result Qualifier RL MDL Unit D Prepared | ND |

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

TestAmerica Job ID: 440-125619-1

Client Sample ID: Subpart CC (C) 1L AMB

Date Collected: 10/27/15 08:00 Date Received: 10/28/15 10:00 Lab Sample ID: 440-125619-3

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-----------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Methoxychlor | ND | | 0.095 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:05 | 1 |
| Toxaphene | ND | | 4.8 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:05 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Tetrachloro-m-xylene | 62 | | 10 - 150 | | | | 10/29/15 06:30 | 11/01/15 18:05 | 1 |
| DCB Decachlorobiphenyl (Surr) | 95 | | 18 - 134 | | | | 10/29/15 06:30 | 11/01/15 18:05 | 1 |

| Analyte | Result Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|---------------------|----------|-----|------|---|----------------|----------------|---------|
| Aroclor 1016 | ND - | 0.95 | | ug/L | | 10/29/15 06:30 | 10/30/15 15:57 | 1 |
| Aroclor 1221 | ND | 0.95 | | ug/L | | 10/29/15 06:30 | 10/30/15 15:57 | 1 |
| Aroclor 1232 | ND | 0.95 | | ug/L | | 10/29/15 06:30 | 10/30/15 15:57 | 1 |
| Aroclor 1242 | ND | 0.95 | | ug/L | | 10/29/15 06:30 | 10/30/15 15:57 | 1 |
| Aroclor 1248 | ND | 0.95 | | ug/L | | 10/29/15 06:30 | 10/30/15 15:57 | 1 |
| Aroclor 1254 | ND | 0.95 | , | ug/L | | 10/29/15 06:30 | 10/30/15 15:57 | 1 |
| Aroclor 1260 | ND | 0.95 | | ug/L | | 10/29/15 06:30 | 10/30/15 15:57 | 1 |
| Surrogate | %Recovery Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| DCB Decachlorobiphenyl (Surr) | 41 | 29 - 115 | | | | 10/29/15 06:30 | 10/30/15 15:57 | 1 |

Client Sample ID: Subpart CC (D) 1L AMB

Date Collected: 10/27/15 08:00 Date Received: 10/28/15 10:00 Lab Sample ID: 440-125619-4

Matrix: Water

| Method: 8270C - Semivolatil
Analyte | Result (| Qualifier RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|--|----------|--------------|----------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | 1 |
| 1,2-Dichlorobenzene | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | 1 |
| 1,2-Diphenylhydrazine(as | ND | 20 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | 1 |
| Azobenzene) | | | | | 10/20/15 00:55 | 11/03/15 00:22 | 4 |
| 1,3-Dichlorobenzene | ND | 9.8 | ug/L | | 10/30/15 08:55 | | 1 |
| 1,4-Dichlorobenzene | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | 1 |
| 2,4,5-Trichlorophenol | ND | 20 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | 1 |
| 2,4,6-Trichlorophenol | ND | 20 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | 1 |
| 2,4-Dichlorophenol | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | 1 |
| 2,4-Dimethylphenol | ND | 20 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | 1 |
| 2,4-Dinitrophenol | ND | 39 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | 1 |
| 2,4-Dinitrotoluene | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | 1 |
| 2.6-Dinitrotoluene | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | 1 |
| 2-Chloronaphthalene | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | 1 |
| 2-Chlorophenol | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | 1 |
| 2-Methylnaphthalene | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | 1 |
| 2-Methylphenol | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | 1 |
| 2-Nitroaniline | ND | 20 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | 1 |
| 2-Nitrophenol | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | 1 |
| 3,3'-Dichlorobenzidine | ND | 20 | ug/L | * | 10/30/15 08:55 | 11/03/15 00:22 | 1 |
| 3-Nitroaniline | ND | 3 20 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | Ì |
| 4,6-Dinitro-2-methylphenol | ND | 20 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | 1 |
| 4-Bromophenyl phenyl ether | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | 1 |
| 4-Chloro-3-methylphenol | ND | 20 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | 1 |
| 4-Chloroaniline | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | 1 |

Client: Evoqua Water Technologies eProcurement Project/Site: Subpart CC

Client Sample ID: Subpart CC (D) 1L AMB

Date Collected: 10/27/15 08:00 Date Received: 10/28/15 10:00

TestAmerica Job ID: 440-125619-1

Lab Sample ID: 440-125619-4

Matrix: Water

| Method: 8270C - Semivolatil
Analyte | Result Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fa |
|--|---------------------|----------|--------------|---|----------------|------------------------------------|--------|
| I-Chlorophenyl phenyl ether | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | |
| 3-Methylphenol + 4-Methylphenol | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | |
| I-Nitroaniline | ND | 20 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | |
| i-Nitrophenol | . NĎ | 20 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | |
| Acenaphthene | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | |
| Acenaphthylene | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | |
| Aniline | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | |
| Anthracene | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | |
| Benzidine | ND | 39 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | |
| Benzo[a]anthracene | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | |
| Benzo[a]pyrene | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | |
| Benzo[b]fluoranthene | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | |
| | ND ND | 9.8 | ug/L | | 10/30/15 08:55 | | |
| Benzo[g,h,i]perylene | ND | 9.8 | ug/L | | 10/30/15 08:55 | | |
| Benzo[k]fluoranthene | ND | 20 | ug/L | | | 11/03/15 00:22 | |
| Benzoic acid | ND
ND | 20 | ug/L | | | 11/03/15 00:22 | |
| Benzyl alcohol | ND
ND | 9,8 | ug/L | | | 11/03/15 00:22 | |
| is(2-chloroethoxy)methane | | 9.8 | ug/L | | | 11/03/15 00:22 | |
| Bis(2-chioroethyl)ether | ND | | | | | 11/03/15 00:22 | |
| is(2-ethylhexyl) phthalate | ND | 20 | ug/L | | | 11/03/15 00:22 | |
| Butyl benzyl phthalate | ND | 20 | ug/L | | | 11/03/15 00:22 | |
| hrysene | ND | 9.8 | ug/L | | | and a second control of the second | |
| ibenz(a,h)anthracene | ND | 20 | ug/L | | | 11/03/15 00:22 | |
| ibenzofuran | ND | 9.8 | ug/L | | | 11/03/15 00:22 | |
| ethyl phthalate | ND | 9.8 | ug/L | | | 11/03/15 00:22 | |
| imethyl phthalate | ND | 9,8 | ug/L | | | 11/03/15 00:22 | • |
| i-n-butyl phthalate | ND | 20 | ug/L | | | 11/03/15 00:22 | |
| Pi-n-octyl phthalate | ND | 20 | ug/L | | | 11/03/15 00:22 | |
| luoranthene | ND | 9.8 | ug/L | | | 11/03/15 00:22 | |
| luorene | ND | 9.8 | ug/L | | | 11/03/15 00:22 | |
| lexachlorobenzene | ND | 9.8 | ug/L | | | 11/03/15 00:22 | |
| lexachlorobutadiene | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | |
| lexachlorocyclopentadiene | ND | 20 | ug/L | | | 11/03/15 00:22 | |
| lexachloroethane | ND | 9.8 | ug/L | | | 11/03/15 00:22 | |
| ndeno[1,2,3-cd]pyrene | ND | 20 | ug/L | | | 11/03/15 00:22 | |
| sophorane | ND | 9.8 | ug/L | | | 11/03/15 00:22 | |
| faphthalene | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | |
| itrobenzene | ND | 20 | ug/L | | | 11/03/15 00:22 | |
| -Nitrosodi-n-propylamine | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | |
| -Nitrosodiphenylamine | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | |
| entachlorophenol | ND | 20 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | |
| henanthrene | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | |
| henol | ND | 9.8 | ug/L | | 10/30/15 08:55 | 11/03/15 00:22 | |
| yrene | ND | 9.8 | ug/L | | | 11/03/15 00:22 | |
| is (2-chloroisopropyl) ether | ND | 9.8 | ug/L | | | 11/03/15 00:22 | |
| urrogate , | %Recovery Qualifier | Limits |) | | Prepared | Analyzed | Dill |
| -Fluorobiphenyl | 71 | 50 - 120 | | | | 11/03/15 00:22 | |
| -Fluorophenol (Surr) | 62 | 30 - 120 | | | | 11/03/15 00:22 | |
| ,4,6-Tribromophenol (Surr) | 85 | 40 - 120 | | | 10/30/15 08:55 | 11/03/15 00:22 | |
| Iltrobenzene-d5 (Surr) | 69 | 45 - 120 | | | 10/30/15 08:55 | 11/03/15 00:22 | |

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

DCB Decachlorobiphenyl (Surr)

TestAmerica Job ID: 440-125619-1

Client Sample ID: Subpart CC (D) 1L AMB

Date Collected: 10/27/15 08:00 Date Received: 10/28/15 10:00

Lab Sample ID: 440-125619-4

Matrix: Water

| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
|--|-----------------|-------------|--------------|----------|--------------|------------|----------------------------------|--|---------|
| Terphenyl-d14 (Surr) | 78 | | 10 - 150 | | | | 10/30/15 08:55 | 11/03/15 00:22 | 1 |
| Phenol-d6 (Surr) | 67 | | 35 - 120 | | | | 10/30/15 08:55 | 11/03/15 00:22 | 1 |
| Method: 8081A - Organochlor | ino Poeticio | lee (GC) | | | | | | | |
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 4,4'-DDD | ND | | 0.095 | | ug/L | _ <u>-</u> | | 11/01/15 18:19 | 1 |
| 4,4'-DDE | ND | | 0.095 | | ug/L | | 10/29/15 06:30 | | 1 |
| 4,4'-DDT | ND | | 0.095 | | ug/L | | 10/29/15 06:30 | | 1 |
| Aldrin | ND | | 0.095 | | ug/L | | 10/29/15 06:30 | | 1 |
| alpha-BHC | ND | | 0.095 | | ug/L | | 10/29/15 06:30 | | 1 |
| alpha-Chlordane | ND | | 0.19 | | ug/L | | 10/29/15 06:30 | | 1 |
| beta-BHC | ND | | 0.095 | | ug/L | | 10/29/15 06:30 | | 1 |
| Chlordane (technical) | ND | | 0.95 | | ug/L | | 10/29/15 06:30 | | 1 |
| delta-BHC | ND | | 0.19 | | ug/L | | 10/29/15 06:30 | | 1 |
| Dieldrin | ND | | 0.095 | | ug/L | | 10/29/15 06:30 | | 1 |
| Endosulfan I | ND | | 0.095 | | ug/L | | 10/29/15 06:30 | | 1 |
| Endosulfan II | ND | • | 0.095 | | ug/L | | 10/29/15 06:30 | | 1 |
| Endosulfan sulfate | ND | * | 0.19 | | ug/L | | 10/29/15 06:30 | | 1 |
| Endrin | ND | | 0.095 | | ug/L | | 10/29/15 06:30 | | 1 |
| Endrin aldehyde | ND | | 0.095 | | ug/L | | 10/29/15 06:30 | | 1 |
| Endrin ketone | ND | | 0.095 | | ug/L | | 10/29/15 06:30 | | 1 |
| gamma-BHC (Lindane) | ND | | 0.095 | | ug/L | | 10/29/15 06:30 | | 1 |
| gamma-Chlordane | ND | | 0.095 | | ug/L | | 10/29/15 06:30 | | 1 |
| Heptachlor | ND | | 0.095 | | ug/L | | 10/29/15 06:30 | | 1 |
| Heptachlor epoxide | ND | | 0.095 | | ug/L | | 10/29/15 06:30 | | 1 |
| Methoxychior | ND | | 0.095 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:19 | 1 |
| Toxaphene | ND | | 4.8 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:19 | 1 |
| Surragata | % Doonyany | Ouglition | Limits | | | | Prepared | Analyzed | Dil Fac |
| Surrogate Tetrachloro-m-xylene | %Recovery
76 | Quaimer | 10 - 150 | | | | 10/29/15 06:30 | 11/01/15 18:19 | 1 |
| DCB Decachlorobiphenyl (Surr) | 102 | | 18 - 134 | | | | 10/29/15 06:30 | | 1 |
| DCB Decachioropiphenyi (Surr) | 102 | | 10 - 134 | | | | 10/29/10 00:00 | 1707713 10.19 | , |
| Method: 8082 - Polychlorinate | d Biphenyl | s (PCBs) by | / Gas Chro | matograp | hy | | | | |
| Analyte | | Qualifier | RL | MDL | | D | Prepared | Analyzed | Dil Fac |
| Aroclor 1016 | ND | | 0.95 | | ug/L | | 10/29/15 06:30 | 10/30/15 16:10 | 1 |
| Atociol 1010 | | | 0.95 | | ug/L | | 10/29/15 06:30 | 10/30/15 16:10 | 1 |
| Aroclor 1221 | ND | | | | | | | | |
| | ND
ND | | 0.95 | | ug/L | | 10/29/15 06:30 | 10/30/15 16:10 | 1 |
| Aroclor 1221 | | | 0.95
0.95 | | ug/L
ug/L | | 10/29/15 06:30
10/29/15 06:30 | 10/30/15 16:10
10/30/15 16:10 | 1
1 |
| Aroclor 1221
Aroclor 1232 | ND | | | | | | 10/29/15 06:30 | | |
| Aroclor 1221
Aroclor 1232
Aroclor 1242 | ND
ND | | 0.95 | | ug/L | | 10/29/15 06:30
10/29/15 06:30 | 10/30/15 16:10 | 1 |
| Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248 | ND
ND
ND | | 0.95
0.95 | | ug/L
ug/L | | 10/29/15 06:30
10/29/15 06:30 | 10/30/15 16:10
10/30/15 16:10
10/30/15 16:10 | 1 |

10/29/15 06:30 10/30/15 16:10

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

Lab Sample ID: 440-125619-5

TestAmerica Job ID: 440-125619-1

Client Sample ID: Subpart CC (E) 1L AMB Matrix: Water

Date Collected: 10/27/15 08:00 Date Received: 10/28/15 10:00

Method: 8270C - Semivolatile Organic Compounds (GC/MS) Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Analyte 11/03/15 00:44 ND 9.7 ug/L 10/30/15 08:55 1,2,4-Trichlorobenzene 10/30/15 08:55 11/03/15 00:44 9.7 ug/L 1 1,2-Dichlorobenzene ND ND 19 ug/L 10/30/15 08:55 11/03/15 00:44 1 1,2-Diphenylhydrazine(as Azobenzene) 10/30/15 08:55 11/03/15 00:44 1 9.7 ug/L ND 1,3-Dichlorobenzene 10/30/15 08:55 11/03/15 00:44 1 ND 9.7 ug/L 1.4-Dichlorobenzene 19 10/30/15 08:55 11/03/15 00:44 1 ND ug/L 2,4,5-Trichlorophenol ug/L ND 19 10/30/15 08:55 11/03/15 00:44 1 2,4,6-Trichlorophenol 10/30/15 08:55 11/03/15 00:44 1 9.7 ug/L 2,4-Dichlorophenol ND 19 ug/L 10/30/15 08:55 11/03/15 00:44 1 2,4-Dimethylphenol ND 10/30/15 08:55 11/03/15 00:44 1 ND 39 ug/L 2.4-Dinitrophenol 10/30/15 08:55 11/03/15 00:44 1 ND 9.7 ug/L 2,4-Dinitrotoluene ND 9.7 ug/L 10/30/15 08:55 11/03/15 00:44 1 2,6-Dinitrotoluene ND 9.7 ug/L 10/30/15 08:55 11/03/15 00:44 1 2-Chloronaphthalene ug/L 10/30/15 08:55 11/03/15 00:44 NΠ 9.7 2-Chlorophenol 10/30/15 08:55 11/03/15 00:44 1 ug/L 2-Methylnaphthalene ND 9.7 ND 9.7 ug/L 10/30/15 08:55 11/03/15 00:44 1 2-Methylphenol 10/30/15 08:55 11/03/15 00:44 1 ND 19 ug/L 2-Nitroaniline 10/30/15 08:55 11/03/15 00:44 1 97 ug/L ND 2-Nitrophenol 19 10/30/15 08:55 11/03/15 00:44 3,3'-Dichlorobenzidine ND ug/L 19 ug/L 10/30/15 08:55 11/03/15 00:44 1 ND 3-Nitroaniline ug/L 19 10/30/15 08:55 11/03/15 00:44 ND 4,6-Dinitro-2-methylphenol ug/L 10/30/15 08:55 11/03/15 00:44 9.7 4-Bromophenyl phenyl ether ND 10/30/15 08:55 11/03/15 00:44 19 ug/L 4-Chioro-3-methylphenol ND 10/30/15 08:55 11/03/15 00:44 1 ND 9.7 ug/L 4-Chloroaniline ug/L 10/30/15 08:55 11/03/15 00:44 9.7 4-Chlorophenyl phenyl ether ND 10/30/15 08:55 11/03/15 00:44 3-Methylphenol + 4-Methylphenol ND 9.7 ug/L 19 ug/L 10/30/15 08:55 11/03/15 00:44 4-Nitroaniline ND 10/30/15 08:55 11/03/15 00:44 19 ug/L 4-Nitrophenol ND ug/L 10/30/15 08:55 11/03/15 00:44 9.7 Acenaphthene ND 10/30/15 08:55 11/03/15 00:44 ND 9.7 ug/L 1 Acenaphthylene Aniline ND 9.7 ug/L 10/30/15 08:55 11/03/15 00:44 ND 9.7 ug/L 10/30/15 08:55 11/03/15 00:44 Anthracene 10/30/15 08:55 11/03/15 00:44 1 ND 39 ug/L Benzidine 1 ND 9.7 ug/L 10/30/15 08:55 11/03/15 00:44 Benzo[a]anthracene 10/30/15 08:55 11/03/15 00:44 1 ND 9.7 ug/L Benzo[a]pyrene ug/L 10/30/15 08:55 11/03/15 00:44 NΩ 9.7 Benzo[b]fluoranthene 10/30/15 08:55 11/03/15 00:44 1 9.7 Benzo[g,h,i]perylene ND ug/L 1 9.7 ug/L 10/30/15 08:55 11/03/15 00:44 Benzo[k]fluoranthene ND ug/L 1 ND 19 10/30/15 08:55 11/03/15 00:44 Benzoic acid 10/30/15 08:55 11/03/15 00:44 19 Benzyl alcohol ND ug/L 10/30/15 08:55 11/03/15 00:44 Bis(2-chloroethoxy)methane ND 9.7 ug/L 10/30/15 08:55 11/03/15 00:44 1 Bis(2-chloroethyl)ether ND 9.7 ug/L. 19 10/30/15 08:55 11/03/15 00:44 ND ug/L Bis(2-ethylhexyl) phthalate 10/30/15 08:55 11/03/15 00:44 Butyl benzyl phthalate ND 19 ug/L 1 ND 9.7 ug/L 10/30/15 08:55 11/03/15 00:44 Chrysene Dibenz(a,h)anthracene ND 19 ug/L 10/30/15 08:55 11/03/15 00:44 11/03/15 00:44 1 Dibenzofuran ND 9.7 ug/L 10/30/15 08:55 Diethyl phthalate ND 9.7 ug/L 10/30/15 08:55 11/03/15 00:44 1 Dimethyl phthalate ND 9.7 ug/L 10/30/15 08:55 11/03/15 00:44

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

Lab Sample ID: 440-125619-5

Client Sample ID: Subpart CC (E) 1L AMB

Matrix: Water

TestAmerica Job ID: 440-125619-1

Date Collected: 10/27/15 08:00 Date Received: 10/28/15 10:00

| Analyte | Result | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | DII Fac |
|-------------------------------|-----------|-----------|----------|----------|---|----------------|----------------|---------|
| Di-n-butyl phthalate | ND | | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |
| Di-n-octyl phthalate | ND | | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |
| Fluoranthene | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |
| Fluorene | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |
| Hexachlorobenzene | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |
| Hexachlorobutadiene | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |
| Hexachlorocyclopentadiene | ND | | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |
| Hexachloroethane | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 19 | ug/L. | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |
| Isophorone | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |
| Naphthalene | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |
| Nitrobenzene | ND | | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |
| N-Nitrosodiphenylamine | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |
| Pentachlorophenol | ND | | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |
| Phenanthrene | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |
| Phenol | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |
| Pyrene | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 9.7 | ug/L | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl | 51 | ALLER | 50 - 120 | | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |
| 2-Fluorophenol (Surr) | 50 | | 30 - 120 | | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |
| 2,4,6-Tribromophenol (Surr) | 66 | | 40 - 120 | | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |
| Nitrobenzene-d5 (Surr) | 49 | | 45 - 120 | | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |
| Terphenyl-d14 (Surr) | 67 | | 10 - 150 | | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |
| Phenol-d6 (Surr) | 51 | | 35 - 120 | | | 10/30/15 08:55 | 11/03/15 00:44 | 1 |

| Analyte | Result Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------|------------------|-------|-----|--------|---|----------------|----------------|---------|
| 4,4'-DDD | ND | 0.096 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:33 | 1 |
| 4,4'-DDE | ND | 0.096 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:33 | 1 |
| 4,4'-DDT | ND | 0.096 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:33 | 1 |
| Aldrin | ND | 0.096 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:33 | 1 |
| alpha-BHC | ND | 0.096 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:33 | 1 |
| alpha-Chiordane | ND | 0.19 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:33 | 1 |
| beta-BHC | ND | 0.096 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:33 | 1 |
| Chlordane (technical) | ND | 0.96 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:33 | 1 |
| delta-BHC | ND | 0.19 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:33 | 1 |
| Dieldrin | ND | 0.096 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:33 | 1 |
| Endosulfan 1 | ND | 0.096 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:33 | 1 |
| Endosulfan II | ND | 0.096 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:33 | 1 |
| Endosulfan sulfate | ND * | 0.19 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:33 | 1 |
| Endrin | ND | 0.096 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:33 | 1 |
| Endrin aldehyde | ND | 0.096 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:33 | 1 |
| Endrin ketone | ND | 0.096 | | ug/L + | | 10/29/15 06:30 | 11/01/15 18:33 | 1 |
| gamma-BHC (Lindane) | ND | 0.096 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:33 | 1 |
| gamma-Chlordane | ND | 0.096 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:33 | 1 |
| Heptachlor | ND | 0.096 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:33 | 1 |
| Heptachlor epoxide | ND | 0.096 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:33 | 1 |

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

TestAmerica Job ID: 440-125619-1

Client Sample ID: Subpart CC (E) 1L AMB

Date Collected: 10/27/15 08:00 Date Received: 10/28/15 10:00 Lab Sample ID: 440-125619-5

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-----------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Methoxychlor | ND | | 0.096 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:33 | 1 |
| Toxaphene | ND | | 4.8 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:33 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Tetrachloro-m-xylene | 53 | | 10 - 150 | | | | 10/29/15 06:30 | 11/01/15 18:33 | 1 |
| DCB Decachlorobiphenyl (Surr) | 88 | | 18 - 134 | | | | 10/29/15 06:30 | 11/01/15 18:33 | 1 |

| Analyte | Result (| Qualifier | RL | MDL | Unit | Ð | Prepared | Analyzed | Dil Fac |
|-------------------------------|-----------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Aroclor 1016 | ND | | 0.96 | | ug/L | | 10/29/15 06:30 | 10/30/15 16:24 | 1 |
| Aroclor 1221 | ND | - | 0.96 | | ug/L | | 10/29/15 06:30 | 10/30/15 16:24 | 1 |
| Aroclor 1232 | ND | | 0.96 | | ug/L | | 10/29/15 06:30 | 10/30/15 16:24 | 1 |
| Aroclor 1242 | ND | | 0.96 | | ug/L | | 10/29/15 06:30 | 10/30/15 16:24 | 1 |
| Aroclor 1248 | ND | | 0.96 | | ug/L | | 10/29/15 06:30 | 10/30/15 16:24 | 1 |
| Aroclor 1254 | ND | | 0.96 | | ug/L | | 10/29/15 06:30 | 10/30/15 16:24 | . 1 |
| Aroclor 1260 | ND | • | 0.96 | | ug/L | | 10/29/15 06:30 | 10/30/15 16:24 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| DCB Decachlorobiphenyl (Surr) | 49 | | 29 - 115 | | | | 10/29/15 06:30 | 10/30/15 16:24 | 1 |

Client Sample ID: Subpart CC (F) 1L AMB

Date Collected: 10/27/15 08:00 Date Received: 10/28/15 10:00 Lab Sample ID: 440-125619-6

Matrix: Water

| Method: 8270C - Semivolatil
Analyte | | Qualifier | RL. | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|------|-----------|-----|-----|------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | ND | | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| 1,2-Dichlorobenzene | ND | | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| 1,2-Diphenylhydrazine(as
Azobenzene) | ND | | 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| 1,3-Dichlorobenzene | ND | | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| 1,4-Dichlorobenzene | ND | | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| 2,4,5-Trichlorophenol | ND | | 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| 2,4,6-Trichlorophenol | ND | | 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| 2,4-Dichlorophenol | ND | | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| 2,4-Dimethylphenol | ND | | 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| 2,4-Dinitrophenol | ND | | 38 | | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| 2,4-Dinitrotoluene | ND | | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| 2,6-Dinitrotoluene | ND | | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| 2-Chloronaphthalene | ND | | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| 2-Chlorophenol | ND | | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| 2-Methylnaphthalene | ND | | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| 2-Methylphenol | ND | | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| 2-Nitroaniline | ND | | 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| 2-Nitrophenol | ND | | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| 3,3'-Dichlorobenzidine | ND | * | 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| 3-Nitroaniline | , ND | * | 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| 4-Chloro-3-methylphenol | ND | | 19 | | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| 4-Chloroaniline | ND | * | 9.6 | | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |

Client: Evoqua Water Technologies eProcurement Project/Site: Subpart CC

TestAmerica Job ID: 440-125619-1

Client Sample ID: Subpart CC (F) 1L AMB

Date Collected: 10/27/15 08:00 Date Received: 10/28/15 10:00

Lab Sample ID: 440-125619-6

Matrix: Water

| Method: 8270C - Semivolatile
Analyte | Result Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|---|---------------------|------------|----------------|-----|----------------|----------------|---------|
| 4-Chlorophenyl phenyl ether | ND - | 9.6 | ug/L | | 10/30/15 08:55 | - | |
| 3-Methylphenol + 4-Methylphenol | ND | 9.6 | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | |
| 4-Nitroaniline | ND * | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | , |
| 4-Nitrophenol | ND | 19 | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | |
| Acenaphthene | ND | 9.6 | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | |
| Acenaphthylene | ND | 9.6 | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | |
| Aniline | ND * | 9.6 | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | |
| Anthracene | ND | 9.6 | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | |
| Benzidine | ND | 38 | ug/L | | | 11/03/15 19:11 | |
| Benzo[a]anthracene | ND | 9.6 | ug/L | * * | 10/30/15 08:55 | 11/03/15 19:11 | |
| Benzo(a)pyrene | ND | 9.6 | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | |
| Benzo(b)fluoranthene | ND | 9.6 | ug/L | | | 11/03/15 19:11 | |
| Benzo[g,h,i]perylene | ND | 9.6 | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | |
| Benzo[k]fluoranthene | ND | 9.6 | ug/L | | | 11/03/15 19:11 | |
| Benzoic acid | ND | 19 | ug/L | | | 11/03/15 19:11 | |
| Benzyl alcohol | ND
ND | 19 | ug/L | | | 11/03/15 19:11 | |
| Bis(2-chloroethoxy)methane | ND | 9.6 | · ug/L | | | 11/03/15 19:11 | |
| • | ND | 9.6 | ug/L | | | 11/03/15 19:11 | |
| Bis(2-chloroethyl)ether | ND | 19 | ug/L | | | 11/03/15 19:11 | |
| Bis(2-ethylhexyl) phthalate | ND
ND | 19 | ug/L | | | 11/03/15 19:11 | |
| Butyl benzyl phthalate | | 9.6 | ug/L
. ug/L | | | 11/03/15 19:11 | |
| Chrysene | ND NO | 19 | ug/L | | | 11/03/15 19:11 | |
| Dibenz(a,h)anthracene | ND | | | | | 11/03/15 19:11 | |
| Dibenzofuran | ND
ND | 9.6
9.6 | ug/L | | | 11/03/15 19:11 | |
| Diethyl phthalate | ND
NB | | ug/L | | | 11/03/15 19:11 | |
| Dimethyl phthalate | ND | 9.6 | ug/L | | | 11/03/15 19:11 | |
| Di-n-butyl phthalate | ND | 19 | ug/L | | | | |
| Di-n-octyl phthalate | ND | 19 | ug/L | | | 11/03/15 19:11 | |
| Fluoranthene | ND · | 9.6 | ug/L | | | 11/03/15 19:11 | |
| -luorene | ND | 9.6 | ug/L
 | | | 11/03/15 19:11 | |
| lexachlorobenzene | ND | 9.6 | ug/L | | | 11/03/15 19:11 | |
| lexachlorobutadiene | ND | 9.6 | ug/L | | | 11/03/15 19:11 | |
| Hexachlorocyclopentadiene | ND | 19 | ug/L | | | 11/03/15 19:11 | |
| fexachloroethane | ND | 9.6 | ug/L | | | 11/03/15 19:11 | |
| ndeno[1,2,3-cd]pyrene | ND | 19 | ug/L | | | 11/03/15 19:11 | |
| sophorone | ND | 9.6 | ug/L | | | 11/03/15 19:11 | |
| laphthalene | ND | 9.6 | ug/L | | | 11/03/15 19:11 | |
| Vitrobenzene | ND | 19 | ug/L | | | 11/03/15 19:11 | |
| N-Nitrosodi-n-propylamine | ND | 9.6 | ug/L | | | 11/03/15 19:11 | |
| l-Nitrosodiphenylamine | ND | 9.6 | ug/L | | | 11/03/15 19:11 | |
| Pentachlorophenol | ND | 19 | ug/L | | | 11/03/15 19:11 | |
| Phenanthrene | ND | 9.6 | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | |
| Phenol | ND | 9.6 | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | |
| Pyrene | ND | 9.6 | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | |
| is (2-chloroisopropyl) ether | ND | 9.6 | ug/L | | 10/30/15 08:55 | 11/03/15 19:11 | |
| Surrogate | %Recovery Qualifier | Limits | | | Prepared | Analyzed | Dil F |
| 2-Fluorobiphenyl | 65 | 50 - 120 | | | | 11/03/15 19:11 | |
| ?-Fluorophenol (Surr) | 61 | 30 - 120 | | | | 11/03/15 19:11 | |
| 2,4,6-Tribromophenol (Surr) | 77 | 40 - 120 | | | | 11/03/15 19:11 | |
| Nitrobenzene-d5 (Surr) | 64 | 45 - 120 | | | 10/30/15 08:55 | 11/03/15 19:11 | |

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

DCB Decachlorobiphenyl (Surr)

Client Sample ID: Subpart CC (F) 1L AMB

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-125619-6

TestAmerica Job ID: 440-125619-1

Date Collected: 10/27/15 08:00 Date Received: 10/28/15 10:00

Matrix: Water

| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
|--|-----------|-----------|----------|-----------------|------|---|----------------|----------------|---------|
| Terphenyl-d14 (Surr) | 75 | | 10 - 150 | | | | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| Phenol-d6 (Surr) | 66 | | 35 - 120 | | | , | 10/30/15 08:55 | 11/03/15 19:11 | 1 |
| | D | (CC) | | | | | | | |
| Method: 8081A - Organochlor
Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 4,4'-DDD | ND | | 0.097 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:46 | 1 |
| 4,4'-DDE | ND | | 0.097 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:46 | 1 |
| 4,4'-DDT | ND | | 0.097 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:46 | 1 |
| Aldrin | ND | | 0.097 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:46 | 1 |
| alpha-BHC | ND | | 0.097 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:46 | 1 |
| alpha-Chlordane | ND | | 0.19 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:46 | 1 |
| beta-BHC | ND | | 0.097 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:46 | 1 |
| Chlordane (technical) | ND | | 0.97 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:46 | 1 |
| delta-BHC | ND | | 0.19 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:46 | 1 |
| Dieldrin | ND | | 0.097 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:46 | 1 |
| Endosulfan I | ND | | 0.097 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:46 | 1 |
| Endosulfan II | ND | | 0.097 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:46 | 1 |
| Endosulfan sulfate | ND | * . | 0.19 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:46 | 1 |
| Endrin | ND | | 0.097 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:46 | 1 |
| Endrin aldehyde | ND | | 0.097 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:46 | 1 |
| Endrin ketone | ND | | 0.097 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:46 | 1 |
| gamma-BHC (Lindane) | ND | | 0.097 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:46 | 1 |
| gamma-Chlordane | ND | | 0.097 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:46 | 1 |
| Heptachlor | ND | | 0.097 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:46 | 1 |
| Heptachlor epoxide | ND | | 0.097 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:46 | 1 |
| Methoxychlor | ND | | 0.097 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:46 | 1 |
| Toxaphene | ND | | 4.8 | | ug/L | | 10/29/15 06:30 | 11/01/15 18:46 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Tetrachloro-m-xylene | 95 | | 10 - 150 | | | | 10/29/15 06:30 | 11/01/15 18:46 | 1 |
| DCB Decachlorobiphenyl (Surr) | 112 | | 18-134 | | | | 10/29/15 06:30 | 11/01/15 18:46 | 1 |
|
 | | (505.) | 0 01 | 6 | | | | | |
| Method: 8082 - Polychlorinate | | | | natogra;
MDL | | D | Prepared | Analyzed | Dil Fac |
| Analyte | | Qualifier | RL | MIDE | | P | 10/29/15 06:30 | 10/30/15 16:38 | 1 |
| Aroclor 1016 | ND | | | | ug/L | | 10/29/15 06:30 | 10/30/15 16:38 | 1 |
| Aroclor 1221 | ND | | 0.97 | | ug/L | | 10/29/15 06:30 | 10/30/15 16:38 | 1 |
| Aroclor 1232 | ND
ND | | 0.97 | | ug/L | | | 10/30/15 16:38 | 1 |
| Aroclor 1242 | ND | | 0.97 | | ug/L | | | | 1 |
| Aroclor 1248 | ND | | 0.97 | | ug/L | | | 10/30/15 16:38 | |
| Aroclor 1254 | ND | | 0.97 | | ug/L | | | 10/30/15 16:38 | 1 |
| Aroclor 1260 | ND | | 0.97 | | ug/L | | 10/29/15 06:30 | 10/30/15 16:38 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |

10/29/15 06:30 10/30/15 16:38

29 - 115

Method Summary

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

TestAmerica Job ID: 440-125619-1

| | The state of the s | 37.79 | |
|--------|--|----------|------------|
| Method | Method Description | Protocol | Laboratory |
| 8270C | Semivolatile Organic Compounds (GC/MS) | SW846 | TAL IRV |
| 8081A | Organochlorine Pesticides (GC) | SW846 | TAL IRV |
| 8082 | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846 | TAL IRV |

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

(6

TestAmerica Job ID: 440-125619-1

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

Client Sample ID: Subpart CC (A) 1L AMB

Date Collected: 10/27/15 08:00 Date Received: 10/28/15 10:00 Lab Sample ID: 440-125619-1

Matrix: Water

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|--------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 3520C | | | 1035 mL | 2 mL | 290473 | 10/30/15 08:55 | IVA | TAL IRV |
| Total/NA | Analysis | 8270C | | 1 | 1035 mL | 2 mL | 291233 | 11/03/15 18:02 | DF | TAL IRV |
| Total/NA | Prep | 3510C | | | 1035 mL | 2 mL | 290131 | 10/29/15 06:30 | FTD | TAL IRV |
| Total/NA | Analysis | 8081A | | 1 | 1035 mL | 2 mL | 290855 | 11/01/15 17:37 | KS | TAL IRV |
| Total/NA | Prep | 3510C | | | 1035 mL | 2 mL | 290131 | 10/29/15 06:30 | FTD | TAL IRV |
| Total/NA | Analysis | 8082 | | 1 | 1035 mL | 2 mL | 290503 | 10/30/15 15:29 | CN | TAL IRV |

Client Sample ID: Subpart CC (B) 1L AMB

Date Collected: 10/27/15 08:00 Date Received: 10/28/15 10:00 Lab Sample ID: 440-125619-2

Matrix: Water

| Prep Type
Total/NA
Total/NA | Batch Type Prep Analysis | Batch Method 3520C 8270C | Run | Dil
Factor | Amount
1030 mL
1030 mL | Final Amount 2 mL 2 mL | Batch Number 290473 291233 | Prepared
or Analyzed
10/30/15 08:55
11/03/15 18:25 | | Lab
TAL IRV |
|-----------------------------------|--------------------------|--------------------------|-----|---------------|------------------------------|------------------------|----------------------------|---|---|--------------------|
| Total/NA
Total/NA | Prep
Analysis | 3510C
8081A | | 1 | 1030 mL
1030 mL | 2 mL
2 mL | 290131
290855 | 10/29/15 06:30
11/01/15 17:51 | – | TAL IRV
TAL IRV |
| Total/NA
Total/NA | Prep
Analysis | 3510C
8082 | | 1 | 1030 mL
1030 mL | 2 mL
2 mL | 290131
290503 | 10/29/15 06:30
10/30/15 15:43 | | TAL IRV
TAL IRV |

Client Sample ID: Subpart CC (C) 1L AMB

Date Collected: 10/27/15 08:00 Date Received: 10/28/15 10:00 Lab Sample ID: 440-125619-3

Matrix: Water

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|--------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 3520C | | | 1040 mL | 2 mL | 290473 | 10/30/15 08:55 | IVA | TAL IRV |
| Total/NA | Analysis | 8270C | | 1 | 1040 mL | 2 mL | 291233 | 11/03/15 18:48 | DF | TAL IRV |
| Total/NA | Prep | 3510C | | | 1050 mL | 2 mL | 290131 | 10/29/15 06:30 | FTD | TAL IRV |
| Total/NA | Analysis | 8081A | | 1 | 1050 mL | 2 mL | 290855 | 11/01/15 18:05 | KS | TAL IRV |
| Total/NA | Prep | 3510C | | | 1050 mL | 2 mL | 290131 | 10/29/15 06:30 | FTD | TAL IRV |
| Total/NA | Analysis | 8082 | | 1 | 1050 mL | 2 mL | 290503 | 10/30/15 15:57 | CN | TAL IRV |

Client Sample ID: Subpart CC (D) 1L AMB

Date Collected: 10/27/15 08:00

Date Received: 10/28/15 10:00

Lab Sample ID: 440-125619-4

Matrix: Water

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|--------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 3520C | | | 1025 mL | 2 mL | 290473 | 10/30/15 08:55 | IVA | TAL IRV |
| Total/NA | Analysis | 8270C | | 1 | 1025 mL | 2 mL | 291064 | 11/03/15 00:22 | Al | TAL IRV |
| Totai/NA | Ргер | 3510C | | | 1050 mL | 2 mL | 290131 | 10/29/15 06:30 | FTD | TAL IRV |
| Total/NA | Analysis | 8081A | | 1 | 1050 mL | 2 mL | 290855 | 11/01/15 18:19 | KS | TAL IRV |
| Total/NA | Prep | 3510C | | | 1050 mL | 2 mL | 290131 | 10/29/15 06:30 | FTD | TAL IRV |
| Total/NA | Analysis | 8082 | | 1 | 1050 mL | 2 mL | 290503 | 10/30/15 16:10 | CN | TAL IRV |

Lab Chronicle

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

TestAmerica Job ID: 440-125619-1

Lab Sample ID: 440-125619-5

Matrix: Water

Client Sample ID: Subpart CC (E) 1L AMB

Date Collected: 10/27/15 08:00 Date Received: 10/28/15 10:00

| Prep Type | Batch | Batch
Method | Run | Dil
Factor | Initial
Amount | Final
Amount | Batch
Number | Prepared or Analyzed | Analyst | Lab |
|-----------|----------|-----------------|------|---------------|-------------------|-----------------|-----------------|----------------------|---------|---------|
| | Type | | Kuii | | | | | | | |
| Total/NA | Prep | 3520C | | | 1035 mL | 2 mL | 290473 | 10/30/15 08:55 | IVA | TAL IRV |
| Total/NA | Analysis | 8270C | | 1 | 1035 mL | 2 mL | 291064 | 11/03/15 00:44 | Al | TAL IRV |
| Total/NA | Prep | 3510C | | | 1045 mL | 2 mL | 290131 | 10/29/15 06:30 | FTD | TAL IRV |
| Total/NA | Analysis | 8081A | | 1 | 1045 mL | 2 mL | 290855 | 11/01/15 18:33 | KS | TAL IRV |
| Total/NA | Prep | 3510C | | | 1045 mL | 2 mL | 290131 | 10/29/15 06:30 | FTD | TAL IRV |
| _Total/NA | Analysis | 8082 | | 1 | 1045 mL | 2 mL | 290503 | 10/30/15 16:24 | CN | TAL IRV |

Client Sample ID: Subpart CC (F) 1L AMB

Date Collected: 10/27/15 08:00 Date Received: 10/28/15 10:00 Lab Sample ID: 440-125619-6 Matrix: Water

| _ | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|--------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 3520C | | | 1040 mL | 2 mL | 290473 | 10/30/15 08:55 | IVA | TAL IRV |
| Total/NA | Analysis | 8270C | | 1 | 1040 mL | 2 mL | 291233 | 11/03/15 19:11 | DF | TAL IRV |
| Total/NA | Prep | 3510C | | | 1035 mL | 2 mL | 290131 | 10/29/15 06:30 | FTD | TAL IRV |
| Total/NA | Analysis | 8081A | | 1 | 1035 mL | 2 mL | 290855 | 11/01/15 18:46 | KS | TAL IRV |
| Total/NA | Prep | 3510C | | | 1035 mL | 2 mL | 290131 | 10/29/15 06:30 | FTD | TAL IRV |
| Total/NA | Analysis | 8082 | | 1 | 1035 mL | 2 mL | 290503 | 10/30/15 16:38 | CN | TAL IRV |

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

QC Sample Results

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

TestAmerica Job ID: 440-125619-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Matrix: Water
Analysis Batch: 291064 | | | | | | | | Prep Type: Te
Prep Batch: | 290473 |
|---|--------|-----------|----|------|------|---|----------------|------------------------------|---------|
| Analysis Datell. 201004 | МВ | МВ | | | | | | Top Batom | 200410 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,2,4-Trichlorobenzene | ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| 1,2-Dichlorobenzene | ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| 1,2-Diphenylhydrazine(as | ND | | 20 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| Azobenzene) | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | | 10 | | ug/L | | | 11/02/15 19:26 | 1 |
| 1,4-Dichlorobenzene | ND | | 10 | | ug/L | | | 11/02/15 19:26 | 1 |
| 2,4,5-Trichlorophenol | ND | | 20 | | ug/L | | | 11/02/15 19:26 | 1 |
| 2,4,6-Trichlorophenol | ND | | 20 | | ug/L | | | 11/02/15 19:26 | 1 |
| 2,4-Dichlorophenol | ND | | 10 | | ug/L | | | 11/02/15 19:26 | 1 |
| 2,4-Dimethylphenol | ND | | 20 | | ug/L | | | 11/02/15 19:26 | 1 |
| 2,4-Dinitrophenol | ND | | 40 | | ug/L | | | 11/02/15 19:26 | 1 |
| 2.4-Dinitrotoluene | ND | • | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| 2,6-Dinitrotoluene | ND | | 10 | | ug/L | | | 11/02/15 19:26 | 1 |
| 2-Chloronaphthalene | ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| 2-Chlorophenol | ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| 2-Methylnaphthalene | ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| 2-Methylphenol | ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| 2-Nitroaniline | ND | | 20 | | ug/L | | | 11/02/15 19:26 | 1 |
| 2-Nitrophenol | ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 20 | ta t | ug/L | • | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| 3-Nitroaniline | ND | | 20 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 20 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| 4-Chloro-3-methylphenol | ND | | 20 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| 4-Chloroaniline | ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| 3-Methylphenol + 4-Methylphenol | ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| 4-Nitroaniline | ND | | 20 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| 4-Nitrophenol | ND | | 20 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| Acenaphthene | ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| Acenaphthylene | ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| Aniline | ND | | 10 | • | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| Anthracene | ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| Benzidine | ND | | 40 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| Benzo[a]anthracene | ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| Benzo[a]pyrene | ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| Benzo[b]fluoranthene | ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| Benzo[g,h,i]perylene | ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| Benzo[k]fluoranthene | ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| Benzoic acid | ND | | 20 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| Benzyl alcohol | ND | | 20 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 10 | | ug/L | | | 11/02/15 19:26 | 1 |
| Bis(2-chloroethyl)ether | ND | | 10 | | ug/L | | | 11/02/15 19:26 | 1 |
| Bis(2-ethylhexyl) phthalate | , ND | | 20 | | ug/L | | | 11/02/15 19:26 | 1 |
| Butyl benzyl phthalate | ND | | 20 | | ug/L | | | 11/02/15 19:26 | 1 |
| Chrysene | ND | | 10 | | ug/L | | | 11/02/15 19:26 | 1 |
| Dibenz(a,h)anthracene | ND ND | | 20 | | ug/L | | 10/30/15 08:55 | | |

TestAmerica Irvine

10/30/15 08:55 11/02/15 19:26

10

ND

Dibenzofuran

ug/L

QC Sample Results

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

TestAmerica Job ID: 440-125619-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| | Lab Sample ID: MB 440-290473/1-A
Matrix: Water | | | | | | | l Blani |
|-----------|---|--|--|---|--|--|--|--|
| | | | | | | | Prep Type: To | |
| | | | | | | | Prep Batch: | 29047 |
| • | | | | 1124 | - | D | Analyzad | Dil Fa |
| | Qualifier | | MIDE | | | · | · · · · · · · · · · · · · · · · · · · | Dii Pa |
| | - | | | - | | | | |
| | | | | • | | | | |
| | | | | • | | | | |
| | | | | | | | | |
| | | | | - | | | | |
| | | | | | | | | |
| | | | | | | | | |
| ND | | 10 | | ug/L | | | | |
| ND | | 20 | | ug/L | | | | |
| ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | |
| ND | | 20 | | ug/L | | | | |
| ND | | 10 | | ug/L | | | | |
| ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | |
| ND | | 20 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | |
| ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | |
| ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | |
| ND | | 20 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | |
| . ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | |
| ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | |
| ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | |
| ND | | 10 | | ug/L | | 10/30/15 08:55 | 11/02/15 19:26 | |
| | | | | | | | | |
| %Recovery | Qualifier | Limits | | | | - | | Dil Fa |
| 73 | | 50 - 120 | | | | | | |
| 66 | | 30 - 120 | | | | | | |
| 84 | | 40 - 120 | | | | | | |
| 74 | | 45 - 120 | | | | 10/30/15 08:55 | 11/02/15 19:26 | |
| 80 | | 10 - 150 | | | | 10/30/15 08:55 | 11/02/15 19:26 | |
| 67 | | 35 - 120 | | | | 10/30/15 08:55 | 11/02/15 19:26 | |
| | Result ND ND ND ND ND ND ND N | ND ND ND ND ND ND ND ND ND ND ND ND ND N | Result Qualifier RL ND 10 ND 10 ND 20 ND 10 ND 10 ND 10 ND 10 ND 10 ND 20 ND 10 ND 10 ND 20 ND 10 ND 10 <tr< td=""><td>Result Qualifier RL MDL ND 10 10 ND 20 ND 10 ND 20 ND 10 ND 10 10 <td> Result Qualifier RL MDL Unit ug/L ug/</td><td> Result Qualifier RL MDL Unit D Ug/L /td><td> MB Result Qualifier RL MDL Unit D Prepared </td><td> Result Qualifier RL MDL Unit D Prepared Analyzed </td></td></tr<> | Result Qualifier RL MDL ND 10 10 ND 20 ND 10 ND 20 ND 10 ND 10 10 <td> Result Qualifier RL MDL Unit ug/L ug/</td> <td> Result Qualifier RL MDL Unit D Ug/L /td> <td> MB Result Qualifier RL MDL Unit D Prepared </td> <td> Result Qualifier RL MDL Unit D Prepared Analyzed </td> | Result Qualifier RL MDL Unit ug/L ug/ | Result Qualifier RL MDL Unit D Ug/L MB Result Qualifier RL MDL Unit D Prepared | Result Qualifier RL MDL Unit D Prepared Analyzed |

| i | Lab Sample ID: LCS 440-290473/2-A | | | | Clie | ent Sar | nple ID | : Lab Cont | rol Sample |
|---|-----------------------------------|-------|--------|-----------|------|---------|---------|------------|-------------|
| | Matrix: Water | | | | | | | | e: Total/NA |
| | Analysis Batch: 291233 | • | | | | | | Prep Bat | ch: 290473 |
| | • | Spike | LCS | LCS | | | | %Rec. | |
| | Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| | 1,2,4-Trichlorobenzene | 100 | 59.0 | | ug/L | | 59 | 25 - 84 | |
| | 1,2-Dichlorobenzene | 100 | 56.3 | | ug/L | | 56 | 24 - 85 | |
| - | 1,2-Diphenylhydrazine(as | 101 | 71.8 | | ug/L | | 71 | 44 - 113 | |
| | Azobenzene) | | | | | | | | |
| *************************************** | 1,3-Dichlorobenzene | 100 | 53.4 | | ug/L | • | 53 | 20 - 80 | |
| The same and | 1,4-Dichlorobenzene | 100 | 53.2 | | ug/L | | 53 | 22 - 81 | |
| i | 2,4,5-Trichlorophenol | 100 | 72.7 | | ug/L | | 73 | 24 - 121 | |
| į | 2,4,6-Trichlorophenol | 100 | 76.1 | | ug/L | | 76 | 20 - 121 | |
| i | 2,4-Dichlorophenol | 100 | 62.2 | | ug/L | | 62 | 23 - 113 | 1 |
| l | 2,4-Dimethylphenol | 100 | 61.7 | | ug/L | | 62 | 39 - 94 | |
| ļ | 2,4-Dinitrophenol | 200 | 154 | | ug/L | | 77 | 23 - 134 | |
| ĺ | 2,4-Dinitrotoluene | 100 | 77.3 | | ug/L | | 77 | 54 - 115 | |
| į | 2,6-Dinitrotoluene | 100 | 79.2 | | ug/L | | 79 | 50 - 115 | |
| J | | | | | | | | | |

QC Sample Results

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

TestAmerica Job ID: 440-125619-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Lab Sample ID: LCS 440-290473/2-A
Matrix: Water | | | | U | nent oan | ihie in | : Lab Control Sample
Prep Type: Total/NA |
|--|------------|--------------|-----------|--------------|----------------|----------|---|
| Analysis Batch: 291233 | Spike | LCS | 1.08 | | | | Prep Batch: 290473
%Rec. |
| Analyte | Added | | Qualifier | Unit | D | %Rec | Limits |
| 2-Chloronaphthalene | 100 | 75.3 | - Guunnon | ug/L | - - | 75 | 34 - 102 |
| 2-Chlorophenol | 100 | 59.9 | | ug/L | | 60 | 20 - 106 |
| 2-Methylnaphthalene | 100 | 62.2 | | ug/L | | 62 | 34 - 98 |
| 2-Methylphenol | 100 | 63.9 | | ug/L. | | 64 | 36 - 103 |
| 2-Nitroaniline | 100 | 80.0 | | ug/L | | 80 | 48 - 111 |
| 2-Nitrophenol | 100 | 67.1 | | ug/L | | 67 | 20 - 117 |
| 3,3'-Dichlorobenzidine | 100 | 66.0 | | ug/L | | 66 | 22 - 97 |
| 3-Nitroaniline | 100 | 82.4 | | ug/L | | 82 | 51 - 116 |
| 4,6-Dinitro-2-methylphenol | 200 | 182 | | ug/L | | 91 | 28 - 139 |
| 4-Bromophenyl phenyl ether | 100 | 75.8 | | ug/L | | 76 | 42 - 113 |
| 4-Chloro-3-methylphenol | 100 | 66.1 | | ug/L | | 66 | 44 - 110 |
| 4-Chloroaniline | 100 | 72.2 | • | ug/L | | 72 | 42 - 109 |
| 4-Chlorophenyl phenyl ether | 100 | 75.0 | | ug/L | | 75 | 38 - 115 |
| 3-Methylphenol + 4-Methylphenol | 100 | 65.7 | | ug/L | | 66 | 35 - 106 |
| 4-Nitroaniline | 100 | 66.1 | | ug/L | | 66 | 50 - 116 |
| 4-Nitrophenol | 200 | 142 | | ug/L | | 71 | 26 - 132 |
| • | 100 | 72.2 | | ug/L | | 72 | 37 - 107 |
| Acenaphthene
Acenaphthylene | 100 | 72.7 | | ug/L | | 73 | 39 - 107 |
| Aniline | 100 | 73.7 | | ug/L | | 74 | 27 - 115 |
| Anthracene | 100 | 78.1 | | ug/L | | 78 | 42 - 120 |
| Benzidine | 100 | 87.3 | | ug/L | | 87 | 5 - 150 |
| Benzo[a]anthracene | 100 | 83.8 | | ug/L | | 84 | 42 - 115 |
| Benzo[a]pyrene | 100 | 75.2 | | ug/L | | 75 | 41 - 117 |
| Benzo[b]fluoranthene | 100 | 71.8 | | ug/L | | 72 | 36 - 113 |
| Benzo[g,h,i]perylene | 100 | 74.7 | | ug/L | | 75 | 37 - 115 |
| Benzo(g,n,nperyterne
Benzo(k)fluoranthene | 100 | 80.6 | | ug/L | | 81 | 42 - 122 |
| Benzoic acid | 100 | 68.3 | | ug/L | | 68 | 15 - 121 |
| Benzyl alcohol | 100 | 69.0 | | ug/L | | 69 | 39 - 106 |
| Bis(2-chloroethoxy)methane | 100 | 68.1 | | ug/L | | 68 | 47 - 104 |
| Bis(2-chloroethyl)ether | 100 | 65.5 | | ug/L | | 66 | 42 - 99 |
| na filologia de la la filologia de la compansa de l | 100 | 83.6 | | ug/L | | 84 | 43 - 124 |
| Bis(2-ethylhexyl) phthalate
Butyl benzyl phthalate | 100 | 85.0 | | ug/L | | 85 | 44 - 122 |
| Chrysene | 100 | 81.4 | | ug/L | | 81 | 42 - 118 |
| Dibenz(a,h)anthracene | 100 | 74.4 | | ug/L | | 74 | 40 - 114 |
| Dibenzofuran | 100 | 73.3 | | ug/L | | 73 | 37 - 113 |
| Distriction and Distriction of the Control of the C | 100 | 75.9 | | ug/L | | 76 | 51 - 120 |
| | 100 | 76.1 | | ug/L | | 76 | 49 - 113 |
| Dimethyl phthalate
Di-n-butyl phthalate | 100 | 84.8 | | ug/L | | 85 | 47 - 125 |
| Di-n-octyl phthalate | 100 | 87.0 | | ug/L | | 87 | 42 - 125 |
| Fluoranthene | 100 | 81.4 | | ug/L | | 81 | 44 - 119 |
| Fluoranmene
Fluorene | 100 | 71.7 | | ug/L | | 72 | 39 - 116 |
| Fluorene
Hexachlorobenzene | 100 | 77.8 | | ug/L | | 78 | 43 - 112 |
| Hexachlorobutadiene | 100 | 54.6 | | ug/L | | 55 | 14-77 |
| Hexachlorocyclopentadiene | 100 | 33.2 | | ug/L | | 33 | 10 - 77 |
| Hexachlorocycloper(tadiene
Hexachloroethane | 100 | 55.6 | • | ug/L | | 56 | 13 - 75 |
| | .00 | 00.0 | | 3' | | | |
| | 100 | 74 2 | | ug/l | | 74 | 35 . 116 |
| Indeno[1,2,3-cd]pyrene
Isophorone | 100
100 | 74.2
68.3 | | ug/L
ug/L | | 74
68 | 35 - 116
48 - 107 |

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QC Sample Results

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-290473/2-A

Matrix: Water

Analysis Batch: 291233

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 290473

LCS LCS Spike %Rec. Added Result Qualifier Unit D %Rec Limits Analyte Nitrobenzene 100 65.6 ug/L 42 - 99 ug/L 100 69.2 69 44 - 111 N-Nitrosodi-n-propylamine 200 156 78 46 - 116 N-Nitrosodiphenylamine ug/L Pentachlorophenol 200 146 ug/L 73 26 - 136 Phenanthrene 100 78.4 ug/L 78 43 - 120 100 57.4 ug/L 57 25 - 99 Phenol 82.1 82 43 - 119 Pyrene 100 ug/L 100 68.6 ug/L 38 - 104bis (2-chloroisopropyl) ether

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 2-Fluorobiphenyl | 76 | | 50 - 120 |
| 2-Fluorophenol (Surr) | 54 | | 30 - 120 |
| 2,4,6-Tribromophenol (Surr) | 80 | | 40 - 120 |
| Nitrobenzene-d5 (Surr) | 70 | | 45 - 120 |
| Terphenyl-d14 (Surr) | 82 | | 10 - 150 |
| Phenol-d6 (Surr) | 62 | | 35 - 120 |

Lab Sample ID: LCSD 440-290473/3-A

Matrix: Water

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 290473

| Analysis Batch: 291233 | Spike | LCSD | LCSD | | | | Prep Ba | atch: 29 | 90473
RPD |
|---|-------|--------|-----------|------|---|------|----------|----------|--------------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| 1,2,4-Trichlorobenzene | 100 | 54.7 | | ug/L | | 55 | 25 - 84 | 8 | 35 |
| 1,2-Dichlorobenzene | 100 | 55.7 | | ug/L | | 56 | 24 - 85 | 1 | 35 |
| 1,2-Diphenylhydrazine(as
Azobenzene) | 101 | 72.1 | | ug/L | | 71 | 44 - 113 | 0 | 35 |
| 1,3-Dichlorobenzene | 100 | 51.6 | | ug/L | | 52 | 20 - 80 | 3 | 35 |
| 1,4-Dichlorobenzene | 100 | 51.8 | | ug/L | | 52 | 22 - 81 | 3 | 35 |
| 2,4,5-Trichlorophenol | 100 | 75.1 | | ug/L | | 75 | 24 - 121 | 3 | 35 |
| 2,4,6-Trichlorophenol | 100 | 75.0 | | ug/L | | 75 | 20 - 121 | 1 | 35 |
| 2,4-Dichlorophenol | 100 | 63.3 | | ug/L | | 63 | 23.113 | 2 | 35 |
| 2,4-Dimethylphenol | 100 | 65.2 | | ug/L | | 65 | 39 - 94 | 5 | 35 |
| 2,4-Dinitrophenol | 200 | 157 | | ug/L | | 79 | 23 - 134 | 2 | 35 |
| 2,4-Dinitrotoluene | 100 | 78.6 | | ug/L | | 79 | 54 - 115 | 2 | 35 |
| 2,6-Dinitrotoluene | 100 | 81.8 | | ug/L | | 82 | 50 - 115 | 3 | 35 |
| 2-Chloronaphthalene | 100 | 75.3 | | ug/L | | 75 | 34 - 102 | 0 | 35 |
| 2-Chlorophenol | 100 | 60.6 | | ug/L | | 61 | 20 - 106 | 1 | 35 |
| 2-Methylnaphthalene | 100 | 66.8 | | ug/L | | 67 | 34 - 98 | 7 | 35 |
| 2-Methylphenol | 100 | 64.6 | | ug/L | | 65 | 36 - 103 | 1 | 35 |
| 2-Nitroaniline | 100 | 80.4 | | ug/L | | 80 | 48 - 111 | 1 | 35 |
| 2-Nitrophenol | 100 | 65.4 | | ug/L | | 65 | 20 - 117 | 2 | 35 |
| 3,3'-Dichlorobenzidine | 100 | ND | * | ug/L | | 2 | 22 - 97 | 187 | 35 |
| 3-Nitroaniline | 100 | 10.7 | J * | ug/L | | 11 | 51 - 116 | 154 | 35 |
| 4,6-Dinitro-2-methylphenol | 200 | 178 | | ug/L | | 89, | 28 - 139 | 2 | 35 |
| 4-Bromophenyl phenyl ether | 100 | 71.7 | | ug/L | | 72 | 42 - 113 | 6 | 35 |
| 4-Chloro-3-methylphenol | 100 | 72.7 | | ug/L | | 73 | 44 - 110 | 9 | 35 |
| 4-Chloroaniline . | 100 | ND | * | ug/L | | 5 | 42 - 109 | 176 | 35 |
| 4-Chlorophenyl phenyl ether | 100 | 77.2 | | ug/L | | 77 | 38 - 115 | 3 | 35 |

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| | Lab Sample ID: LCSD 440-290473/3-A
Matrix: Water | A | | Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA | | | | | | | | |
|------------------------|---|------------------------------|---------|---|-----------|--------|---|------|----------|----------|-------|--|
| Analysis Batch: 291233 | | | | | | | | | Prep Ba | atch: 29 | | |
| | | | Spike | | LCSD | | _ | | %Rec. | | RPD | |
| | Analyte | | Added | | Qualifier | | D | %Rec | Limits | RPD | Limit | |
| | 3-Methylphenol + 4-Methylphenol | | 100 | 70.4 | | ug/L | | 70 | 35 - 106 | 7 | 35 | |
| 1 | 4-Nitroaniline | | 100 | 28.9 | . | ug/L | | 29 | 50 - 116 | 78 | 35 | |
| | 4-Nitrophenol | | 200 | 155 | | ug/L. | | 77 | 26 - 132 | 9 | 35 | |
| | Acenaphthene | | 100 | 73.7 | | . ug/L | | 74 | 37 - 107 | 2 | 35 | |
| Î | Acenaphthylene | | 100 | 73.9 | | ug/L | | 74 | 39 - 107 | 2 | 35 | |
| | Aniline | | 100 | 42.3 | * | ug/L | | 42 | 27 - 115 | 54 | 35 | |
| Ì | Anthracene | | 100 | 78.7 | | ug/L | | 79 | 42 - 120 | 1 | 35 | |
| | Benzidine | | 100 | 77.4 | | ug/L | | 77 | 5 - 150 | 12 | 35 | |
| 1 | Benzo[a]anthracene | | 100 | 82.5 | | ug/L | | 83 | 42 - 115 | 2 | 35 | |
| | Benzo[a]pyrene | | 100 | 72.8 | | ug/L | | 73 | 41 - 117 | 3 | 35 | |
| | Benzo[b]fluoranthene | | 100 | 68.9 | | ug/L | | 69 | 36 - 113 | 4 | 35 | |
| | Benzo[g,h,i]perylene | | 100 | 73.6 | | ug/L | | 74 | 37 - 115 | 2 | 35 | |
| ļ | Benzo[k]fluoranthene | | 100 | 79.4 | | ug/L | | 79 | 42 - 122 | 1 | 35 | |
| ĺ | Benzoic acid | | 100 | 65.1 | | ug/L | | 65 | 15 - 121 | 5 | 35 | |
| | Benzyl alcohol | | 100 | 72.3 | | ug/L | | 72 | 39 - 106 | 5 | 35 | |
| İ | Bis(2-chloroethoxy)methane | | - 100 | 66.5 | | ug/L | | 67 | 47 - 104 | 2 | 35 | |
| | Bis(2-chloroethyl)ether | | 100 | 66.4 | | ug/L | | 66 | 42 - 99 | 1 | 35 | |
| | Bis(2-ethylhexyl) phthalate | | 100 | 81.0 | | ug/L | | 81 | 43 - 124 | 3 | 35 | |
| Ì | Butyl benzyl phthalate | | 100 | 84.6 | | ug/L | | 85 | 44 - 122 | 1 | 35 | |
| | Chrysene | | 100 | 81.1 | | ug/L | | 81 | 42 - 118 | . 0 | 35 | |
| | Dibenz(a,h)anthracene | | 100 | 72.8 | | ug/L | | 73 | 40 - 114 | 2 | 35 | |
| | Dibenzofuran | | 100 | 76.6 | | ug/L | | 77 | 37 - 113 | 4 | 35 | |
| ĺ | Diethyl phthalate | | 100 | 78.8 | | ug/L | | 79 | 51 - 120 | 4 | 35 | |
| | Dimethyl phthalate | | 100 | 78.7 | | ug/L | | 79 | 49 - 113 | 3 | 35 | |
| 1 | Di-n-butyl phthalate | | 100 | 84.0 | | ug/L | | 84 | 47 - 125 | 1 | 35 | |
| ŀ | Di-n-octyl phthalate | | 100 | 84.2 | | ug/L | | 84 | 42 - 125 | 3 | 35 | |
| | Fluoranthene | | 100 | 82.8 | | ug/L | | 83 | 44 - 119 | 2 | 35 | |
| | Fluorene | | 100 | 74.5 | | ug/L | | 74 | 39 - 116 | 4 | 35 | |
| | Hexachlorobenzene | | 100 | 75.5 | | ug/L | | 75 | 43 - 112 | 3 | 35 | |
| | Hexachlorobutadiene | | 100 | 48.1 | | ug/L | | 48 | 14 - 77 | 12 | 35 | |
| | Hexachlorocyclopentadiene | | 100 | 24.0 | | ug/L | | 24 | 10.77 | 32 | 35 | |
| 1 | Hexachloroethane | | 100 | 52.8 | | ug/L | | 53 | 13 - 75 | 5 | 35 | |
| | Indeno[1,2,3-cd]pyrene | | 100 | 82.8 | | ug/L | | 83 | 35 - 116 | 11 | 35 | |
| | Isophorone | | 100 | 73.3 | | ug/L | | 73 | 48 - 107 | 7 | 35 | |
| | Naphthalene | | 100 | 61.7 | | ug/L | | 62 | 33 - 95 | 0 | 35 | |
| | Nitrobenzene | | 100 | 65.0 | | ug/L | | 65 | 42 - 99 | 1 | 35 | |
| | N-Nitrosodi-n-propylamine | | 100 | 79.2 | | ug/L | | 79 | 44 - 111 | 14 | 35 | |
| i | N-Nitrosodiphenylamine | | 200 | 131 | | ug/L | | 65 | 46 - 116 | 18 | 35 | |
| | Pentachiorophenol | | 200 | 150 | | ug/L | | 75 | 26 - 136 | 3 | 35 | |
| 1 | Phenanthrene | | 100 | 78.5 | | ug/L | | 79 | 43 - 120 | 0 | 35 | |
| ١ | Phenol | | . 100 | 55.9 | | ug/L | | 56 | 25 - 99 | 3 | 35 | |
| ı | Pyrene | | 100 | 83.8 | | ug/L | | 84 | 43 - 119 | 2 | 35 | |
| ŀ | bis (2-chloroisopropyl) ether | | 100 | 70.4 | | ug/L | | 70 | 38 - 104 | 2 | 35 | |
| | 1000 | 1.000 | • | | | | | | | | , | |
| | LCSD
Surrogate %Recovery | | Limits | | | | | | | | - | |
| | Surrogate %Recovery | <i><u>uuaniti</u></i> | LIIIIII | | | | | | | | | |

 Surrogate
 %Recovery
 Qualifier
 Limits

 2-Fluorobiphenyl
 76
 50 - 120

 2-Fluorophenol (Surr)
 52
 30 - 120

 2,4,6-Tribromophenol (Surr)
 81
 40 - 120

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-290473/3-A

Matrix: Water

Analysis Batch: 291233

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 290473

| | LCSD L | ÇŞD | |
|------------------------|-------------|----------|----------|
| Surrogate | %Recovery Q | ualifier | Limits |
| Nitrobenzene-d5 (Surr) | 69 | | 45 - 120 |
| Terphenyl-d14 (Surr) | 81 | | 10 - 150 |
| Phenol-d6 (Surr) | 60 | | 35 - 120 |

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-290131/1-A Client Sample ID: Method Blank Matrix: Water

Analysis Batch: 290855

| | Onche Cample ID. Method Blank |
|----|-------------------------------|
| | Prep Type: Total/NA |
| | Prep Batch: 290131 |
| MB | |

| | | MB | MB | | | | | | • | |
|---|-----------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| | Analyte | Result | Qualifier | RL . | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| | 4,4'-DDD | ND | | 0.10 | | ug/L | | 10/29/15 06:30 | 11/01/15 16:56 | 1 |
| | 4,4'-DDE | ND | | 0.10 | | ug/L | | 10/29/15 06:30 | 11/01/15 16:56 | 1 |
| | 4,4'-DDT | ND | | 0.10 | | ug/L | | 10/29/15 06:30 | 11/01/15 16:56 | 1 |
| | Aldrin | ND | | 0.10 | | ug/L | | 10/29/15 06:30 | 11/01/15 16:56 | 1 |
| | alpha-BHC | ND | | 0.10 | | ug/L | | 10/29/15 06:30 | 11/01/15 16:56 | 1 |
| | alpha-Chlordane | ND | | 0.20 | | ug/L | | 10/29/15 06:30 | 11/01/15 16:56 | 1 |
| | beta-BHC | ND | | 0.10 | | ug/L | | 10/29/15 06:30 | 11/01/15 16:56 | 1 |
| | Chlordane (technical) | ND | | 1.0 | | ug/L | | 10/29/15 06:30 | 11/01/15 16:56 | 1 |
| | delta-BHC | ND | | 0.20 | | ug/L | | 10/29/15 06:30 | 11/01/15 16:56 | 1 |
| | Dieldrin | ND | | 0.10 | | ug/L | | 10/29/15 06:30 | 11/01/15 16:56 | 1 |
| | Endosulfan I | ND | | 0.10 | | ug/L | | 10/29/15 06:30 | 11/01/15 16:56 | 1 |
| | Endosulfan II | ND | | 0.10 | | ug/L | | 10/29/15 06:30 | 11/01/15 16:56 | 1 |
| | Endosulfan sulfate | ND | | 0.20 | | ug/L, | | 10/29/15 06:30 | 11/01/15 16:56 | 1 |
| | Endrin | ND | | 0.10 | | ug/L. | | 10/29/15 06:30 | 11/01/15 16:56 | 1 |
| | Endrin aldehyde | ND | | 0.10 | | ug/L | | 10/29/15 06:30 | 11/01/15 16:56 | 1 |
| | Endrin ketone | ND | | 0.10 | | ug/L | | 10/29/15 06:30 | 11/01/15 16:56 | 1 |
| - | gamma-BHC (Lindane) | ND | | 0.10 | | ug/L | | 10/29/15 06:30 | 11/01/15 16:56 | 1 |
| | gamma-Chlordane | ND | | 0.10 | | ug/L | | 10/29/15 06:30 | 11/01/15 16:56 | 1 |
| | Heptachior | ND | | 0.10 | | ug/L | | 10/29/15 06:30 | 11/01/15 16:56 | 1 |
| | Heptachlor epoxide | ND | | 0.10 | | ug/L | | 10/29/15 06:30 | 11/01/15 16:56 | 1 |
| - | Methoxychlor | ND | | 0.10 | | ug/L | | 10/29/15 06:30 | 11/01/15 16:56 | 1 |
| | Toxaphene | ND | | 5.0 | | ug/L | | 10/29/15 06:30 | 11/01/15 16:56 | 1 |

| | | WB | MB | | | | |
|---|-------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
| | Tetrachioro-m-xylene | 60 | | 10 - 150 | 10/29/15 06:30 | 11/01/15 16:56 | 1 |
| Į | DCR Decachlorobiohenyl (Surr) | 81 | | 18 134 | 10/20/45 06:30 | 11/01/15 16:56 | 4 |

Lab Sample ID: LCS 440-290131/2-A Client Sample ID: Lab Control Sample

Matrix: Water Analysis Batch: 290855

| Onci | it Oai | ubic in | · ran control gamble |
|------|--------|---------|----------------------|
| | | | Prep Type: Total/NA |
| | | | Prep Batch: 290131 |
| | | | %Rec. |
| Unit | D | %Rec | Limits |
| ua/i | | 70 | 53 . 126 |

| • | Spike | LCS | LCS | | %Rec. |
|----------|-------|--------|----------------|--------|----------|
| Analyte | Added | Result | Qualifier Unit | D %Rec | Limits |
| 4,4'-DDD | 0.200 | 0.140 | ug/L | 70 | 53 - 126 |
| 4,4'-DDE | 0.200 | 0.121 | ug/L | 61 | 48 - 115 |
| 4.4'-DDT | 0.200 | 0.131 | ug/L | 65 | 10 - 150 |
| Aldrin | 0.200 | 0.102 | ug/L | 51 | 19-115 |

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Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

| Lab Sample ID: LCS 440-
Matrix: Water
Analysis Batch: 290855 | 290131/2-A | | | | | Clie | ent Sa | mple ID | D: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 290131 |
|--|------------|-----------------|----------|-------|-----------|------|--------|---------|--|
| | | | Spike | LCS | LCS | | | | %Rec. |
| Analyte | | | Added | | Qualifier | Unit | Ð | %Rec | Limits |
| alpha-BHC | | | 0.200 | 0.107 | | ug/L | | 54 | 42 - 115 |
| alpha-Chlordane | | | 0.200 | 0.120 | J | ug/L | | 60 | 49 - 115 |
| beta-BHC | | | 0.200 | 0.126 | | ug/L | | 63 | 48 - 115 |
| delta-BHC | | | 0.200 | 0.128 | J | ug/L | | 64 | 48 - 115 |
| Dieldrin | | | 0.200 | 0.125 | | ug/L | | 62 | 51 - 117 |
| Endosulfan I | | | 0.200 | 0.124 | | ug/L | | 62 | 47 - 117 |
| Endosulfan II | | | 0.200 | 0.133 | | ug/L | | 67 | 32 - 128 |
| Endosulfan sulfate | | | 0.200 | 0.244 | * | ug/L | | 122 | 50 - 117 |
| Endrin | | | 0.200 | 0.128 | | ug/L | | 64 | 51 - 120 |
| Endrin aldehyde | | | 0.200 | 0.137 | | ug/L | | 69 | 49 - 115 |
| Endrin ketone | | | 0.200 | 0.135 | | ug/L | | 67 | 51 - 121 |
| gamma-BHC (Lindane) | | • | 0.200 | 0.116 | | ug/L | | 58 | 43 - 115 |
| gamma-Chlordane | | | 0.200 | 0.118 | | ug/L | | 59 | 21 - 148 |
| Heptachlor | | | 0.200 | 0.114 | | ug/L | | 57 | 44 - 115 |
| Heptachlor epoxide | • | | 0.200 | 0.122 | | ug/L | | 61 | 35 - 131 |
| Methoxychlor | | | 0.200 | 0.140 | | ug/L | | 70 | 44 - 142 ⁻ |
| | 1.00 | 1.00 | | | | | | | |
| Surragata | | LCS | Limite | | | | | | |
| Surrogate Tetraphlera muudena | %Recovery | <u> wuanner</u> | Limits | | | | | | |
| Tetrachloro-m-xylene | 41 | | 10 - 150 | | | | | | |
| DCB Decachlorobiphenyl (Surr) | 61 | | 18 - 134 | | | | | | |

| Lab Sample ID: LCSD 440-290131/3-A
Matrix: Water
Analysis Batch: 290855 | Client Sample ID: Lab Control Sample D
Prep Type: Total/
Prep Batch: 290 | | | | | | | | |
|---|--|--------|-----------|------|---|------|----------|-----|-------|
| | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| 4,4'-DDD | 0.200 | 0.147 | | ug/L | | 73 | 53 - 126 | 5 | 35 |
| 4,4'-DDE | 0.200 | 0.124 | | ug/L | | 62 | 48 - 115 | 2 | 35 |
| 4,4'-DDT | 0.200 | 0.130 | | ug/L | | 65 | 10 - 150 | 1 | 35 |
| Aldrin | 0.200 | 0.0955 | J | ug/L | | 48 | 19 - 115 | 6 | 35 |
| alpha-BHC | 0.200 | 0.114 | | ug/L | | 57 | 42 - 115 | 6 | 35 |
| alpha-Chlordane | 0.200 | 0.125 | J | ug/L | | 62 | 49 - 115 | 3 | 35 |
| beta-BHC | 0.200 | 0.130 | | ug/L | | 65 | 48 - 115 | 3 | 35 |
| delta-BHC | 0.200 | 0.132 | J | ug/L | | 66 | 48 - 115 | 3 | 35 |
| Dieldrin | 0.200 | 0.129 | | ug/L | | 65 | 51 - 117 | 4 | 35 |
| Endosulfan I | 0.200 | 0.129 | • | ug/L | | 64 | 47 - 117 | 3 | 34 |
| Endosulfan II | 0.200 | 0.136 | | ug/L | | 68 | 32 - 128 | 2 | 35 |
| Endosulfan sulfate | 0.200 | 0.244 | * | ug/L | | 122 | 50 - 117 | 0 | 35 |
| Endrin | 0.200 | 0.129 | | ug/L | | 65 | 51 - 120 | 1 | 35 |
| Endrin aldehyde | 0.200 | 0.138 | | ug/L | | 69 | 49 - 115 | 0 | 35 |
| Endrin ketone | 0.200 | 0.137 | | ug/L | | 68 | 51 - 121 | 1 | 35 |
| gamma-BHC (Lindane) | 0.200 | 0.121 | | ug/L | | 61 | 43 - 115 | 5 | 35 |
| gamma-Chlordane | 0.200 | 0.124 | | ug/L | | 62 | 21 - 148 | 5 | 35 |
| Heptachlor , | 0.200 | 0.122 | | ug/L | | 61 | 44 - 115 | 7 | 35 |
| Heptachlor epoxide | 0.200 | 0.127 | | ug/L | | 63 | 35 - 131 | 3 | 35 |
| Methoxychlor | 0.200 | 0.137 | | ug/L | | 69 | 44 - 142 | 2 | 35 |

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

TestAmerica Job ID: 440-125619-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 440-290131/3-A

Matrix: Water

Analysis Batch: 290855

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 290131

| | LCSD | LCSD | |
|-------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| Tetrachloro-m-xylene | 42 | | 10 - 150 |
| DCB Decachlorobiphenyl (Surr) | 62 | | 18 - 134 |

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-290131/1-A

Matrix: Water

Analysis Batch: 290094

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 290131

| | MB | MB | | | | | | 1 Top Datom | |
|--------------|------------|-----------|--------|-----|------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Aroclor 1016 | ND | | 1.0 | | ug/L | | 10/29/15 06:30 | 10/29/15 14:50 | 1 |
| Aroclor 1221 | ND | | 1.0 | | ug/L | • | 10/29/15 06:30 | 10/29/15 14:50 | 1 |
| Aroclor 1232 | ND | | 1.0 | | ug/L | | 10/29/15 06:30 | 10/29/15 14:50 | 1 |
| Aroclor 1242 | ND | | 1.0 | | ug/L | | 10/29/15 06:30 | 10/29/15 14:50 | 1 |
| Aroclor 1248 | ND | • • | 1.0 | | ug/L | | 10/29/15 06:30 | 10/29/15 14:50 | 1 |
| Aroclor 1254 | ND | | 1.0 | | ug/L | | 10/29/15 06:30 | 10/29/15 14:50 | 1 |
| Aroclor 1260 | ND | | 1.0 | | ug/L | | 10/29/15 06:30 | 10/29/15 14:50 | 1 |
| | MB | MB | | | | | | | |
| Surrogate | % Pacayons | Qualifiar | Limita | | | | Dunnand | A | 5# F. |

Surrogate %Recovery Qualifier Limits DCB Decachlorobiphenyl (Surr) 32 29 - 115

Prepared Analyzed Dil Fac 10/29/15 06:30 10/29/15 14:50

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 440-290131/4-A

Matrix: Water

Analyte

Aroclor 1016

Aroclor 1260

Matrix: Water

Analyte

Analysis Batch: 290094

Lab Sample ID: LCSD 440-290131/5-A

| Spike | |
|-------|--|
| Added | |
| 4.00 | |

Prep Type: Total/NA Prep Batch: 290131

LCS LCS Result Qualifier Unit %Rec Limits 2.45 ug/L 39 - 145 61 ug/L 4.00 2.23 56 37 - 137

Unit

ug/L

ug/L

LCSD LCSD

2.65

2.39

Result Qualifier

LCS LCS

Surrogate DCB Decachlorobiphenyl (Surr)

Analysis Batch: 290094

%Recovery Qualifier

Limits 29 - 115

Spike

Added

Client Sample ID: Lab Control Sample Dup

60

37 - 137

Prep Type: Total/NA Prep Batch: 290131

%Rec. RPD D %Rec Limits RPD Limit 66 39 - 145 8 30

25

Aroclor 1016 4.00 Aroclor 1260 4.00 LCSD LCSD Surrogate %Recovery Qualifier Limits DCB Decachlorobiphenyl (Surr)

40

29 - 115

QC Association Summary

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

TestAmerica Job ID: 440-125619-1

| GC/MS Semi VOA | | . 1 00 | | | |
|--|--|--------------------|------------|--------|------------|
| Prep Batch: 290473 | | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 440-125619-1 | Subpart CC (A) 1L AMB | Total/NA | Water | 3520C | |
| 440-125619-2 | Subpart CC (B) 1L AMB | Total/NA | Water | 3520C | |
| 440-125619-3 | Subpart CC (C) 1L AMB | Total/NA | Water | 3520C | |
| 440-125619-4 | Subpart CC (D) 1L AMB | Total/NA | Water | 3520C | |
| 440-125619-5 | Subpart CC (E) 1L AMB | Total/NA | Water | 3520C | |
| 440-125619-6 | Subpart CC (F) 1L AMB | Total/NA | Water | 3520C | |
| LCS 440-290473/2-A | Lab Control Sample | Total/NA | Water | 3520C | |
| LCSD 440-290473/3-A | Lab Control Sample Dup | Total/NA | Water | 3520C | |
| MB 440-290473/1-A | Method Blank | Total/NA | Water | 3520C | |
|
Analysis Batch: 2910 | 96 <u>4</u> ** | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 440-125619-4 | Subpart CC (D) 1L AMB | Total/NA | Water | 8270C | 290473 |
| 440-125619-5 | Subpart CC (E) 1L AMB | Total/NA | Water | 8270C | 290473 |
| MB 440-290473/1-A | Method Blank | Total/NA | Water | 8270C | 290473 |
| –
Analysis Batch: 2912 | 233 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 440-125619-1 | Subpart CC (A) 1L AMB | Total/NA | Water | 8270C | 290473 |
| 440-125619-2 | Subpart CC (B) 1L AMB | Total/NA | Water | 8270C | 290473 |
| 440-125619-3 | Subpart CC (C) 1L AMB | Total/NA | Water | 8270C | 290473 |
| 440-125619-6 | Subpart CC (F) 1L AMB | Total/NA | Water | 8270C | 290473 |
| LCS 440-290473/2-A | Lab Control Sample | Total/NA | Water | 8270C | 290473 |
| LCSD 440-290473/3-A | Lab Control Sample Dup | Total/NA | Water | 8270C | 290473 |
| GC Semi VOA | 104 | | A | | |
| Analysis Batch: 2900 | | Dron Tuno | Matrix | Method | Prep Batch |
| Lab Sample ID | Client Sample ID Lab Control Sample | Prep Type Total/NA | Water | 8082 | 290131 |
| LCS 440-290131/4-A | • | Total/NA | Water | 8082 | 290131 |
| LCSD 440-290131/5-A
MB 440-290131/1-A | Lab Control Sample Dup
Method Blank | Total/NA | Water | 8082 | 290131 |
| | | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 440-125619-1 | Subpart CC (A) 1L AMB | Total/NA | Water | 3510C | |
| 440-125619-2 | Subpart CC (B) 1L AMB | Total/NA | Water | 3510C | |
| 440-125619-3 | Subpart CC (C) 1L AMB | Total/NA | Water | 3510C | |
| 440-125619-4 | Subpart CC (D) 1L AMB | Total/NA | Water | 3510C | |
| 440-125619-5 | Subpart CC (E) 1L AMB | Total/NA | Water | 3510C | |
| 440-125619-6 | Subpart CC (F) 1L AMB | Total/NA | Water | 3510C | |
| LCS 440-290131/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCS 440-290131/4-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 440-290131/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |
| LCSD 440-290131/5-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |
| MB 440-290131/1-A | Method Blank | Total/NA | Water | 3510C | |
| - | 03 | | • | | |
| - | | _ ~ | ma at at a | 88-414 | Prep Batch |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | FIEU Daici |

QC Association Summary

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

TestAmerica Job ID: 440-125619-1

GC Semi VOA (Continued)

Analysis Batch: 290503 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|-----------------------|-----------|--------|--------|------------|
| 440-125619-2 | Subpart CC (B) 1L AMB | Total/NA | Water | 8082 | 290131 |
| 440-125619-3 | Subpart CC (C) 1L AMB | Total/NA | Water | 8082 | 290131 |
| 440-125619-4 | Subpart CC (D) 1L AMB | Total/NA | Water | 8082 | 290131 |
| 440-125619-5 | Subpart CC (E) 1L AMB | Total/NA | Water | 8082 | 290131 |
| 440-125619-6 | Subpart CC (F) 1L AMB | Total/NA | Water | 8082 | 290131 |

Analysis Batch: 290855

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 440-125619-1 | Subpart CC (A) 1L AMB | Total/NA | Water | 8081A | 290131 |
| 440-125619-2 | Subpart CC (B) 1L AMB | Total/NA | Water | 8081A | 290131 |
| 440-125619-3 | Subpart CC (C) 1L AMB | Total/NA | Water | 8081A | 290131 |
| 440-125619-4 | Subpart CC (D) 1L AMB | Total/NA | Water | 8081A | 290131 |
| 440-125619-5 | Subpart CC (E) 1L AMB | Total/NA | Water | 8081A | 290131 |
| 440-125619-6 | Subpart CC (F) 1L AMB | Total/NA | Water | 8081A | 290131 |
| LCS 440-290131/2-A | Lab Control Sample | Total/NA | Water | 8081A | 290131 |
| LCSD 440-290131/3-A | Lab Control Sample Dup | Total/NA | Water | 8081A | 290131 |
| MB 440-290131/1-A | Method Blank | Total/NA | Water | 8081A | 290131 |

(9)

Definitions/Glossary

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

TestAmerica Job ID: 440-125619-1

Qualifiers

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| * | LCS or LCSD is outside acceptance limits. |
| * | RPD of the LCS and LCSD exceeds the control limits |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| * | LCS or LCSD is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Glossarv

RPD

TEF TEQ

| These commonly used abbreviations may or may not be present in this report. |
|---|
| Listed under the "D" column to designate that the result is reported on a dry weight basis |
| Percent Recovery |
| Contains Free Liquid |
| Contains no Free Liquid |
| Duplicate error ratio (normalized absolute difference) |
| Dilution Factor |
| Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| Decision level concentration |
| Minimum detectable activity |
| Estimated Detection Limit |
| Minimum detectable concentration |
| Method Detection Limit |
| Minimum Level (Dioxin) |
| Not Calculated |
| Not detected at the reporting limit (or MDL or EDL if shown) |
| Practical Quantitation Limit |
| Quality Control |
| Relative error ratio |
| Reporting Limit or Requested Limit (Radiochemistry) |
| |

Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)



Certification Summary

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

TestAmerica Job ID: 440-125619-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|--------------------------|-----------------------------|------------|-------------------|------------------------|
| Alaska | State Program | 10 | CA01531 | 06-30-16 |
| Arizona | State Program | 9 | AZ0671 | 10-13-16 |
| California | LA Cty Sanitation Districts | 9 | 10256 | 01-31-16 * |
| California | State Program | 9 | 2706 | 06-30-16 |
| Guam | State Program | 9 | Cert. No. 12.002r | 01-23-16 |
| Hawaii | State Program | 9 | N/A | 01-29-16 |
| Kansas | NELAP Secondary AB | 7 | E-10420 | 07-31-16 |
| Nevada | State Program | 9 | CA015312007A | 07-31-16 * |
| New Mexico | State Program | 6 | N/A | 01-29-16 |
| Northern Mariana Islands | State Program | 9 | MP0002 | 01-29-16 |
| Oregon | NELAP | 10 | 4005 | 01-29-16 |
| USDA | Federal | • | P330-09-00080 | 07-08-18 |

^{. .}

^{*} Certification renewal pending - certification considered valid.

| Est <u>America</u> | | | | Nash
Orlar | -IAIN
ville,
ido, F
ir Fall | TN
L |
|------------------------|---------------|-----------|--------------------|---------------|---|---------|
| Client Name/Account #: | Evoqua Water | Technolog | ies | | | |
| Address: | POB 3308 / 25 | 23 MUTAH, | 4R S1 | Γ | | |
| City/State/Zip: | PARKER, AZ | 85344 | | | | |
| Project Manager: | Camille Murra | у | | ···· | | |
| Telephone Number: | 928-669-5758 | | | | ****** | Fa |
| Sampler Name: (Print) | Roy Provins | | | | | |
| Sampler Signature: | | | | | | |
| _ | | | - | | | *** |
| 19 Chain of Custody | ampled | ampled | containers Shipped | | ite | ered |

| HAIN OF CL | JSTODY RECORD | |
|--------------|---------------|--------------|
| rville, TN | Dayton, OH | Indianapolis |
| ndo, FL | Waterlown, WI | Irvine,CA |
| ar Falls, IA | Pontiac, MI | Cacalle |

| | Indianapolis, IN
Irvine,CA | ٠ |
|---|-------------------------------|---|
| ŀ | Irvine,CA | į |

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

| Compliance Monitoring? | Yes | No |
|------------------------|-----|----|
| Enforcement Action? | Yes | Nο |

|
Report To: <u>James.R.Provins@Evoqual.com</u> |
|---|
|
Invoice To: |

Temperature Upon Receipt:

VOCs Free of Headspace?

| TA Quote #: | | |
|-------------|------------|--|
| | | |
| Project ID: | Subpart CC | |

| Project #: |
|------------|
|------------|

| | | | | · | | | | | Pre | serv | ativ | e | | _ | 1 | latr | ìx | | | | | | Апа | VZE | For | | | | $\overline{}$ | | | |
|--|--------------|--------------|---------------------------|------|-----------|----------------|------------------------|------------------------------|------------------|---------------------|--|---|-----------------|-------------|----------|----------------|-----------|------------------|-------|------------------|---|--|--|--|--------------|---------------|-----------------|----------|------------------------|-------|-------------|---------------------|
| 125619 Chain of Custody
Sample ID / Description | Date Sampled | Time Sampled | No. of Containers Shipped | Grab | Composite | Field Filtered | lce | HNO ₃ (Red Label) | HCI (Blue Label) | NaOH (Orange Label) | H ₂ SO ₄ Glass(Yellow Label) | | Other (Specify) | Groundwater | Water | Drinking water | Soll | Other (specify): | 8270 | 8081/8082 | | | | | | | | | olipodes ord TAT Usile | I 1—` | Fax Results | Send QC with report |
| Subpart CC (A) 1L AMB | 10/27/2015 | 8:00 AM | 2 | | | | | | | | | | 1 | | | - | | | · ~ . | $ \bar{\infty} $ | | _ | ├ | ļ | | - | | | <u> </u> | St | 1 E | Se |
| Subpart CC (B) 1L AMB | 10/27/2015 | 8:00 AM | 1 | | | , | A CONTRACTOR OF STREET | | | | | | H | | | 1 | + | \dagger | | | | | | ig | - | | - | \dashv | \dashv | - | <u></u> | - |
| Subpart CC (C) 1L AMB | 10/27/2015 | 8:00 AM | 2 | | | | | | | | | | П | | | _ | \dagger | \dagger | | | | _ | ╁┈ | \vdash | - | | \vdash | | - | - | | _ |
| Subpart CC (D) 1L AMB | 10/27/2015 | 8:00 AM | 2 | | | | 極 | | П | | | | | | * | 十 | \dagger | ┪ | | | | | ┢┈ | \vdash | - | - | | _ | \dashv | _ | | ۲. |
| Subpart CC (E) 1L AMB | 10/27/2015 | 8:00 AM | 2 | | | | | | | | | | | | | 7 | ┪ | + | 1000 | A | - | | | | - | | | \dashv | + | | - L | - |
| Subpart CC (F) 1L AMB | 10/27/2015 | 8:00 AM | 2 | | | | | | | | | | | | | \top | \dagger | \dagger | | | - | | - | \vdash | - | \square | | \dashv | | | | - |
| Subpart CC (A) 1L AMB | 10/27/2015 | 8:00 AM | 2 | | | | | | | | | | П | - | | \top | + | \dagger | | | | - | | | _ | | \vdash | \dashv | - | | | - |
| Subpart CC (B) 1L AMB | 10/27/2015 | 8:00 AM | 2 | | | | | | | | | | | - | | ┪ | + | ╁ | | | | _ | - | | - | \vdash | $\vdash \vdash$ | \dashv | - | - P | _ | |
| Subpart CC (C) 1L AMB | 10/27/2015 | 8:00 AM | 2 | | | | | | | | | | П | | | + | T | \top | | | | | <u> </u> | | - | | | \dashv | - | | | |
| Subpart CC (D) 1L AMB | 10/27/2015 | 8:00 AM | 2 | | | | | | | | | | П | | | ┪ | ┪ | T | T | | | - | <u> </u> | - | | | | -+ | \dashv | _ | 9 | |
| Subpart CC (E) 1L AMB | 10/27/2015 | 8:00 AM | 2 | | | _ | | | | | | | П | | | ┪ | \dagger | † | | | | | <u> </u> | | _ | | | - | + | - | | |
| Subpart CC (F) 1L AMB | 10/27/2015 | 8:00 AM | 2 | 41 | | | | | П | | | | П | | | 1 | \top | 1 | | | | | | T | T | H | \vdash | \dashv | + | - | | _ |
| Special Instructions: | _ | | | • | | | | | | | | | | ,. | | | | <u> </u> | | | | ora | tory | Co | mm | ents | ∟
3: | | !_ | | 4 | <u></u> |

Method of Shipment:

Fax No.: 928-669-5775

| <u></u> | | | <u> </u> |
|---------|---------|---------|----------|
| • | 1.5/0.5 | 2.0/1.0 | 3.4/2.4 |

Date

10/27/2015

Time

1400

Received by:

Time

UPS

10/20/15 10:00

S:\Laboratory Results\Chain Of Custody forms\Excel\TestAmerica-coc-Subpart CC.xls

UPS: 12 A95 ZDE D1 9586 6057
12 A95 ZDE D1 9786 6057
12 A95 ZDE D1 9786 6059

Date

11/6/2015

Relinquished by:

Roy Provins

Page 35 of 36

13

Login Sample Receipt Checklist

Client: Evoqua Water Technologies eProcurement

Job Number: 440-125619-1

List Source: TestAmerica Irvine

Login Number: 125619

List Number: 1

Creator: Escalante, Maria I

| Question | Answer | Comment |
|--|--------|-------------------------------------|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td> | True | |
| The cooler's custody seal, if present, is intact. | True | · |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | • |
| COC is filled out in ink and legible. | True | · |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | False | Refer to Job Narrative for details. |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | False | Refer to Job Narrative for details. |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checkéd. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc. TestAmerica Irvine 17461 Derian Ave Suite 100 Irvine, CA 92614-5817 Tel: (949)261-1022

TestAmerica Job ID: 440-125626-1 Client Project/Site: Subpart CC

For: Evoqua Water Technologies eProcurement PO BOX 3308 IMA065 Parker, Arizona 85344

Attn: Roy Provins

Authorized for release by: 11/10/2015 3:12:51 PM

Camille Murray, Project Manager I (949)261-1022 camille.murray@testamericainc.com



Review your project results through
Total Access

Have a Question?



Visit us at:

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page:

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

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| Certification Summary | 27 |
| Chain of Custody | 28 |
| Receipt Checklists | |

Sample Summary

Client: Evoqua Water Technologies eProcurement Project/Site: Subpart CC

TestAmerica Job ID: 440-125626-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|-------------------|--------|----------------|----------------|
| 440-125626-1 | Subpart CC VOA #A | Water | 10/27/15 09:00 | 10/28/15 10:00 |
| 440-125626-2 | Subpart CC VOA #B | Water | 10/27/15 09:00 | 10/28/15 10:00 |
| 440-125626-3 | Subpart CC VOA #C | Water | 10/27/15 09:00 | 10/28/15 10:00 |
| 440-125626-4 | Subpart CC VOA #D | Water | 10/27/15 09:00 | 10/28/15 10:00 |
| 440-125626-5 | Subpart CC VOA #E | Water | 10/27/15 09:00 | 10/28/15 10:00 |
| 440-125626-6 | Subpart CC VOA #F | Water | 10/27/15 09:00 | 10/28/15 10:00 |

Case Narrative

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

TestAmerica Job ID: 440-125626-1

Job ID: 440-125626-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-125626-1

Comments

No additional comments.

Receipt

The samples were received on 10/28/2015 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.7° C.

Receipt Exceptions

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC). There were a total of 6 trip blanks that came with this project, it was not listed on the COC, they will be labeled and put away.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Client: Evoqua Water Technologies eProcurement Project/Site: Subpart CC

Client Sample ID: Subpart CC VOA #A Lab Sample ID: 440-125626-1

Date Collected: 10/27/15 09:00 Date Received: 10/28/15 10:00

Matrix: Water

TestAmerica Job ID: 440-125626-1

| Method: 8260B - Volatile Org
Analyte
Benzene | Result Qualifier | RL | MDL Unit | D | Prepared Analyzed | Dil Fa |
|--|------------------|-----|--------------|---|-------------------|--------|
| | ND - | 2.0 | ug/L | | 11/04/15 21:29 | |
| Bromobenzene | ND | 5.0 | ug/L | | 11/04/15 21:29 | |
| Bromochloromethane | ND | 5.0 | ug/L | | 11/04/15 21:29 | |
| Bromodichloromethane | ND | 2.0 | ug/L | | 11/04/15 21:29 | |
| Bromoform | ND | 5.0 | ug/L | | 11/04/15 21:29 | |
| Bromomethane | ND. | 5.0 | ug/L | | 11/04/15 21:29 | |
| Carbon disulfide | ND | 5.0 | ug/L | | 11/04/15 21:29 | |
| Carbon tetrachloride | ND | 5.0 | ug/L | | 11/04/15 21:29 | |
| Chlorobenzene | ND | 2.0 | ug/L | | 11/04/15 21:29 | |
| Chloroethane | ND | 5.0 | ug/L | | 11/04/15 21:29 | |
| Chloroform | ND | 2.0 | ug/L | • | 11/04/15 21:29 | |
| Chloromethane | ND | 5.0 | ug/L | | 11/04/15 21:29 | |
| 2-Chlorotoluene | ND | 5.0 | ug/L | | 11/04/15 21:29 | |
| 4-Chlorotoluene | ND | 5.0 | ug/L | | 11/04/15 21:29 | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/L | | 11/04/15 21:29 | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/L | | 11/04/15 21:29 | |
| Dibromochloromethane | ND | 2.0 | ug/L | | 11/04/15 21:29 | |
| 1,2-Dibromo-3-Chloropropane | ND | 5.0 | ug/L | | 11/04/15 21:29 | |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/L | | 11/04/15 21:29 | |
| Dibromomethane | ND | 2.0 | ug/L | | 11/04/15 21:29 | |
| ,2-Dichlorobenzene | . ND | 2.0 | ug/L | | 11/04/15 21:29 | |
| ,3-Dichlorobenzene | ND | 2.0 | ug/L | | 11/04/15 21:29 | |
| ,4-Dichlorobenzene | ND . | 2.0 | ug/L | | 11/04/15 21:29 | |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | | 11/04/15 21:29 | |
| ,1-Dichloroethane | ND | 2.0 | ug/L | | 11/04/15 21:29 | |
| ,2-Dichloroethane | ND | 2.0 | ug/L | | 11/04/15 21:29 | |
| ,1-Dichloroethene | ND | 5.0 | ug/L | | 11/04/15 21:29 | |
| ,2-Dichloropropane | ND | 2.0 | ug/L
ug/L | | 11/04/15 21:29 | |
| ,3-Dichloropropane | ND . | 2.0 | - | | | |
| · | | | ug/L | | 11/04/15 21:29 | |
| ,2-Dichloropropane | ND. | 2.0 | ug/L | | 11/04/15 21:29 | |
| ,1-Dichloropropene | ND | 2.0 | ug/L | | 11/04/15 21:29 | • |
| thylbenzene | ND | 2.0 | ug/L | | 11/04/15 21:29 | |
| lexachlorobutadiene | ND | 5.0 | ug/L | | 11/04/15 21:29 | |
| sopropylbenzene | ND | 2.0 | ug/L | | 11/04/15 21:29 | |
| fethylene Chloride | , ND | 5.0 | ug/L | | 11/04/15 21:29 | |
| ı,p-Xylene | ND | 2.0 | ug/L | | 11/04/15 21:29 | • |
| aphthalene | ND | 5.0 | ug/L | | 11/04/15 21:29 | • |
| -Butylbenzene | ND | 5.0 | ug/L | | 11/04/15 21:29 | • |
| l-Propylbenzene | ND | 2.0 | ug/L | | 11/04/15 21:29 | 1 |
| -Xylene | ND | 2.0 | ug/L | | 11/04/15 21:29 | |
| -Isopropyltoluene | ND | 2.0 | ug/L | | 11/04/15 21:29 | - |
| ec-Butylbenzene | ND | 5.0 | ug/L | | 11/04/15 21:29 | , |
| tyrene | ND | 2.0 | ug/L | | 11/04/15 21:29 | • |
| ert-Butylbenzene | ND | 5.0 | ug/L | | 11/04/15 21:29 | |
| ,1,1,2-Tetrachloroethane | , ND | 5.0 | ug/L | | 11/04/15 21:29 | |
| ,1,2,2-Tetrachloroethane | ND | 2.0 | ug/L | | 11/04/15 21:29 | 1 |
| etrachioroethene | ND | 2.0 | ug/L | | 11/04/15 21:29 | 1 |
| oluene | ND | 2.0 | ug/L | | 11/04/15 21:29 | 1 |
| ans-1,2-Dichloroethene | ND | 2.0 | ug/L | | 11/04/15 21:29 | 1 |

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

TestAmerica Job ID: 440-125626-1

Client Sample ID: Subpart CC VOA #A

Date Collected: 10/27/15 09:00 Date Received: 10/28/15 10:00

Lab Sample ID: 440-125626-1 Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | · D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|------|--------------|----------|----------------|---------|
| trans-1,3-Dichloropropene | ND | | 2.0 | | ug/L | | | 11/04/15 21:29 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 5.0 | | ug/L | | | 11/04/15 21:29 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | | ug/L | | | 11/04/15 21:29 | 1 |
| 1,1,1-Trichloroethane | ND | | 2.0 | | ug/L | | | 11/04/15 21:29 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.0 | | ug/L | | | 11/04/15 21:29 | 1 |
| Trichloroethene | ND | | 2.0 | | ug/L | | | 11/04/15 21:29 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | | ug/L | | | 11/04/15 21:29 | 1 |
| 1,2,3-Trichloropropane | ND | | - 10 | | ug/L | | | 11/04/15 21:29 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 2.0 | | ug/L | | | 11/04/15 21:29 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 2.0 | | ug/L | | | 11/04/15 21:29 | 1 |
| Vinyl acetate | ND | | 5.0 | | ug/L | | | 11/04/15 21:29 | 1 |
| Vinyl chloride | ND | • | 5.0 | | ug/L | | | 11/04/15 21:29 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 100 | | 80 - 120 | | | - | | 11/04/15 21:29 | 1 |
| Dibromofluoromethane (Surr) | 101 | | 76 - 132 | | | | | 11/04/15 21:29 | 1 |
| Toluene-d8 (Surr) | 109 | | 80 - 128 | | | | | 11/04/15 21:29 | 1 |

| ∣ Method: 8015B - Nonhaloger | nated Organic Compound | s - Direct In | jection (GC) | | | | |
|------------------------------|------------------------|---------------|--------------|---|----------|----------------|---------|
| Analyte | Result Qualifier | RL | MDL Unit | Đ | Prepared | Analyzed | Dil Fac |
| Ethanol | ND | 10 | mg/L | | | 11/09/15 12:52 | 1 |
| Isopropyl alcohol | ND | 10 | mg/L | | | 11/09/15 12:52 | . 1 |
| Methanol | ND | 10 | mg/L | | | 11/09/15 12:52 | . 1 |
| 1-Propanol | 10 | 10 | mg/L | | • | 11/09/15 12:52 | 1 |

Client Sample ID: Subpart CC VOA #B

Date Collected: 10/27/15 09:00 Date Received: 10/28/15 10:00

Lab Sample ID: 440-125626-2 Matrix: Water

| Analyte | Result | Qualifier | RL. | MDL | Unit | Đ | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|------|---|----------|----------------|---------|
| Benzene | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| Bromobenzene | ND | | 5.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| Bromochloromethane | ND | | 5.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| Bromodichloromethane | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| Bromoform | ND | | 5.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| Bromomethane | ND | | 5.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| Carbon tetrachloride | ND | | 5.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| Chlorobenzene | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| Chloroethane | ND | | 5.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| Chloroform | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| Chloromethane | ND | | 5.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| cis-1,2-Dichloroethene | ND | | , 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| cis-1,3-Dichloropropene | ND | * | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| Dibromochloromethane | ND | * | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

Lab Sample ID: 440-125626-2

TestAmerica Job ID: 440-125626-1

Client Sample ID: Subpart CC VOA #B

Matrix: Water

Date Collected: 10/27/15 09:00 Date Received: 10/28/15 10:00

| Method: 8260B - Volatile Orga
Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-------------|----------|-----|--------------|---|----------|----------------|---------|
| Dibromomethane | ND | | 2.0 | | ug/L | | • | 11/04/15 22:55 | |
| 1,2-Dichlorobenzene | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | |
| 1,3-Dichlorobenzene | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | |
| 1,4-Dichlorobenzene | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | |
| Dichlorodifluoromethane | ND | | 5.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| 1.1-Dichloroethane | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| 1,2-Dichloroethane | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| 1,2-Dichloropropane | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| 1,3-Dichloropropane | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| 2,2-Dichloropropane | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| 1,1-Dichloropropene | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| Ethylbenzene | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| Hexachlorobutadiene | ND | • | 5.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| Isopropylbenzene | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| Methylene Chloride | ND | | 5.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| m,p-Xylene | ND | | 2.0 | | ug/Ļ | | | 11/04/15 22:55 | 1 |
| Naphthalene | ND | | 5.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| n-Butylbenzene | ND | | 5.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| N-Propylbenzene | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| o-Xylene | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| p-Isopropyltoluene | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| sec-Butylbenzene | ND | | 5.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| Styrene | ND ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | . 1 |
| tert-Butylbenzene | ND | | 5.0 | | ug/L
ug/L | | | 11/04/15 22:55 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 5.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| Tetrachloroethene | ND. | | 2.0 | | ug/L
ug/L | | | 11/04/15 22:55 | 1 |
| Toluene | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| trans-1,2-Dichloroethene | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| trans-1,3-Dichloropropene | ND | | 2.0 | | ug/L
ug/L | | | 11/04/15 22:55 | 1 |
| 1,2,3-Trichlorobenzene | ND
ND | | 5.0 | | ug/L
ug/L | | | 11/04/15 22:55 | 1 |
| 1,2,4-Trichlorobenzene | ND
ND | | 5.0 | | _ | | | 11/04/15 22:55 | '
1 |
| 1,2,4-Trichlorobenzene
1,1,1-Trichloroethane | | | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| • • | ND | | | | ug/L | | | | - |
| 1,1,2-Trichloroethane | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| Trichloroethene | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| 1,2,3-Trichloropropane | ND | | 10 | | ug/L | | | 11/04/15 22:55 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 2.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| Vinyl acetate | ND | | 5.0 | | ug/L | | | 11/04/15 22:55 | 1 |
| /inyl chloride | ND | | 5.0 | ι | ug/L | | | 11/04/15 22:55 | 1 |
| Surrogate | %Recovery | Qualifier | Limits' | | | - | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97 | | 80 - 120 | | , | | | 11/04/15 22:55 | 1 |
| Dibromofluoromethane [†] (Surr) | 104 | | 76-132 | | , | | | 11/04/15 22:55 | 1 |
| Toluene-d8 (Surr) | 108 | | 80 - 128 | | | | | 11/04/15 22:55 | 1 |

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

TestAmerica Job ID: 440-125626-1

Client Sample ID: Subpart CC VOA #B

Date Collected: 10/27/15 09:00 Date Received: 10/28/15 10:00 Lab Sample ID: 440-125626-2

Matrix: Water

| Analyte | Result Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|------------------|----|----------|---|----------|----------------|---------|
| Ethanol | ND | 10 | mg/L | | | 11/09/15 13:00 | 1 |
| isopropyl alcohol | ND | 10 | mg/L | | | 11/09/15 13:00 | 1 |
| Methanol | ND | 10 | mg/L | | | 11/09/15 13:00 | · 1 |
| 1-Propanol | ND | 10 | mg/L | | . • | 11/09/15 13:00 | 1 |

Client Sample ID: Subpart CC VOA #C

Date Collected: 10/27/15 09:00 Date Received: 10/28/15 10:00 Lab Sample ID: 440-125626-3

Matrix: Water

| Analyte | Result Qualifier | RL | MDL Unit | · Þ | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------------|-----|----------|-----|----------|----------------|---------|
| Benzene | ND ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| Bromobenzene | ND | 5.0 | ug/L | | | 11/04/15 23:23 | 1 |
| Bromochloromethane | ND | 5.0 | ug/L | | | 11/04/15 23:23 | 1 |
| Bromodichloromethane | ND | 2.0 | ug/L | | | 11/04/15 23:23 | . 1 |
| Bromoform | ND | 5.0 | ug/L | | | 11/04/15 23:23 | 1 |
| Bromomethane | ND | 5.0 | ug/L | | | 11/04/15 23:23 | 1 |
| Carbon disulfide | ND | 5.0 | ug/L | | | 11/04/15 23:23 | 1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | | | 11/04/15 23:23 | 1 |
| Chlorobenzene | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| Chloroethane | ND | 5.0 | ug/L | | | 11/04/15 23:23 | 1 |
| Chloroform | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| Chloromethane | ND | 5.0 | ug/L | | | 11/04/15 23:23 | .1 |
| 2-Chlorotoluene | ND | 5.0 | ug/L | | | 11/04/15 23:23 | 1 |
| 4-Chlorotoluene | ND | 5.0 | ug/L | | | 11/04/15 23:23 | 1 |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/L | | • | 11/04/15 23:23 | 1 |
| Dibromochloromethane | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | 5.0 | ug/L | | | 11/04/15 23:23 | 1 |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| Dibromomethane | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| 1,2-Dichlorobenzene | ND . | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | | | 11/04/15 23:23 | 1 |
| 1,1-Dichloroethane | ND · | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| 1,2-Dichloroethane | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | | | 11/04/15 23:23 | 1 |
| 1,2-Dichloropropane | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| 1,3-Dichloropropane | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| 2,2-Dichloropropane | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| 1,1-Dichloropropene | ND | 2.0 | ug/L | • • | | 11/04/15 23:23 | 1 |
| Ethylbenzene | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| Hexachlorobutadiene | ND | 5.0 | ug/L | | | 11/04/15 23:23 | 1 |
| sopropylbenzene | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| Methylene Chloride | ,ND | 5.0 | ug/L | | i | 11/04/15 23:23 | 1 |
| n,p-Xylene | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| Naphthalene | ND | 5.0 | ug/L | | | 11/04/15 23:23 | . 1 |
| n-Butylbenzene | ND | 5.0 | ug/L | | | 11/04/15 23:23 | 1 |
| N-Propylbenzene | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

Client Sample ID: Subpart CC VOA #C

Date Collected: 10/27/15 09:00 Date Received: 10/28/15 10:00 Lab Sample ID: 440-125626-3 Matrix: Water

TestAmerica Job ID: 440-125626-1

| Analyte | Result Qual | ifier RL | MDL Unit | D P | repared | Analyzed | Dil Fac |
|-----------------------------|-----------------|--------------|----------|-----|---------|----------------|---------|
| o-Xylene | . ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| p-Isopropyltoluene | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| sec-Butylbenzene | ND | 5.0 | ug/L | | | 11/04/15 23:23 | 1 |
| Styrene | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| tert-Butylbenzene | ND | 5.0 | ug/L | | | 11/04/15 23:23 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/L | | | 11/04/15 23:23 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/L ' | | | 11/04/15 23:23 | 1 |
| Tetrachloroethene | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| Toluene | ND | 2.0 | ug/L | | | 11/04/15 23:23 | . 1 |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/L | | | 11/04/15 23:23 | 1 |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/L | | | 11/04/15 23:23 | 1 |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/L | | • | 11/04/15 23:23 | 1 |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| Trichloroethene | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | | | 11/04/15 23:23 | 1 |
| 1,2,3-Trichloropropane | ND | 10 | ug/L | | | 11/04/15 23:23 | 1 |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/L | | | 11/04/15 23:23 | 1 |
| Vinyl acetate | ND | 5.0 | ug/L | | | 11/04/15 23:23 | 1 |
| Vinyl chloride | ND | 5.0 | ug/L | | | 11/04/15 23:23 | 1 |
| Surrogate | %Recovery Qual- | ifier Limits | | P | repared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 100 | 80 - 120 | | | | 11/04/15 23:23 | 1 |
| Dibromofluoromethane (Surr) | 104 | 76 - 132 | | | | 11/04/15 23:23 | 1 |
| Toluene-d8 (Surr) | 107 | 80 - 128 | | | | 11/04/15 23:23 | 1 |

| Method: 8015B - Nonhald | I5B - Nonhalogenated Organic Compounds | | | njection (GC) | | | | |
|-------------------------|--|-----------|----|---------------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
| Ethanol | ND | | 10 | mg/L | | | 11/09/15 13:08 | 1 |
| Isopropyl alcohol | ND | | 10 | mg/L | | | 11/09/15 13:08 | 1 |
| Methanol | ND | | 10 | mg/L | | | 11/09/15 13:08 | 1 |
| 1-Propanol | ND | | 10 | mg/L | • | | 11/09/15 13:08 | 1 |

Client Sample ID: Subpart CC VOA #D

Date Collected: 10/27/15 09:00 Date Received: 10/28/15 10:00 Lab Sample ID: 440-125626-4

Matrix: Water

| Method: 8260B - Volatile O | rganic Compounds (GC/M
Result Qualifier | S)
RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--|----------|----------|---|----------|----------------|---------|
| Benzene | ND - | 2.0 | ug/L | | | 11/04/15 23:51 | 1 |
| Bromobenzene | . ND | 5.0 | ug/L | | • | 11/04/15 23:51 | 1 |
| Bromochloromethane | ND | 5.0 | ug/L | | | 11/04/15 23:51 | 1 |
| Bromodichloromethane | ND | 2.0 | ug/L | | | 11/04/15 23:51 | 1 |
| Bromoform | ND | 5.0 | ug/L | | | 11/04/15 23:51 | 1, |
| Bromomethane | ND | 5.0 | ug/L | | | 11/04/15 23:51 | 1 |
| Carbon disulfide | ND | 5.0 | ug/L | | | 11/04/15 23:51 | 1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | | | 11/04/15 23:51 | 1 |
| Chlorobenzene | , ND | 2.0 | ug/L | | | 11/04/15 23:51 | 1 |

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

Lab Sample ID: 440-125626-4

Client Sample ID: Subpart CC VOA #D

TestAmerica Job ID: 440-125626-1

Date Collected: 10/27/15 09:00 Date Received: 10/28/15 10:00

Matrix: Water

| Analyte | Result Qualifier | RL | MDL Unit | D Prepared | Analyzed | Dil Fa |
|-----------------------------|--|-----|--------------|------------|----------------|--------|
| Chloroethane | ND | 5.0 | ug/L | | 11/04/15 23:51 | - |
| Chloroform | ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| Chloromethane | ND | 5.0 | ug/L | | 11/04/15 23:51 | |
| 2-Chlorotoluene | ND | 5.0 | ug/L | | 11/04/15 23:51 | |
| 4-Chlorotoluene | ND | 5.0 | ug/L | | 11/04/15 23:51 | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/L | • | 11/04/15 23:51 | |
| Dibromochloromethane | ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| 1,2-Dibromo-3-Chloropropane | ND | 5.0 | ug/L | | 11/04/15 23:51 | |
| ,2-Dibromoethane (EDB) | ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| Dibromomethane | ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| ,2-Dichlorobenzene | ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| ,3-Dichlorobenzene | ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| ,4-Dichlorobenzene | ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | | 11/04/15 23:51 | |
| .1-Dichloroethane | ND
ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| ,2-Dichloroethane | ND
ND | 2.0 | ug/L
ug/L | | 11/04/15 23:51 | |
| 1-Dichloroethene | ND ND | 5.0 | - | | 11/04/15 23:51 | |
| 2-Dichloropropane | ND | 2.0 | ug/L | | | ' |
| ,3-Dichloropropane | ND
ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| · · | ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| 2-Dichloropropane | and the second s | | ug/L | | 11/04/15 23:51 | |
| 1-Dichloropropene | ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| thylbenzene | ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| exachlorobutadiene | ND No | 5.0 | ug/L | | 11/04/15 23:51 | |
| opropylbenzene | ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| ethylene Chloride | ND | 5.0 | ug/L. | | 11/04/15 23:51 | |
| p-Xylene | ND
 | 2.0 | ug/L | | 11/04/15 23:51 | |
| aphthalene | ND | 5.0 | ug/L | | 11/04/15 23:51 | |
| Butylbenzene | ND | 5.0 | ug/L | | 11/04/15 23:51 | |
| Propylbenzene | ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| Xylene | ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| Isopropyitoluene | ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| c-Butylbenzene | ND | 5.0 | ug/L | | 11/04/15 23:51 | |
| yrene | ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| rt-Butylbenzene | ND | 5.0 | ug/L | | 11/04/15 23:51 | |
| 1,1,2-Tetrachloroethane | ND | 5.0 | ug/L | | 11/04/15 23:51 | |
| 1,2,2-Tetrachloroethane | ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| trachloroethene | ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| luene | ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| ns-1,2-Dichloroethene | ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| ns-1,3-Dichloropropene | ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| 2,3-Trichlorobenzene | ND | 5.0 | ug/L | | 11/04/15 23:51 | |
| ,4-Trichlorobenzene | ND | 5.0 | ug/L | | 11/04/15 23:51 | |
| ,1-Trichloroethane | ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| ,2-Trichloroethane | ND | 2.0 | ug/L ્ | | 11/04/15 23:51 | |
| chloroethene | ND | 2.0 | ug/L | | 11/04/15 23:51 | |
| chlorofluoromethane | ND | 5.0 | ug/L | | 11/04/15 23:51 | |
| 2,3-Trichloropropane | ND | 10 | ug/L | | 11/04/15 23:51 | |
| 2,4-Trimethylbenzene | ND | 2.0 | ug/L | | 11/04/15 23:51 | |

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

Toluene-d8 (Surr)

TestAmerica Job ID: 440-125626-1

Client Sample ID: Subpart CC VOA #D

Date Collected: 10/27/15 09:00 Date Received: 10/28/15 10:00 Lab Sample ID: 440-125626-4

Matrix: Water

| Method: 8260B - Volatile O | rganic Compour | nds (GC/M | S) (Continu | ied) | | | | | |
|-----------------------------|----------------|-----------|-------------|------|------|---|----------|----------------|---------|
| Analyte | Result C | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,3,5-Trimethylbenzene | ND | | 2.0 | | ug/L | | | 11/04/15 23:51 | 1 |
| Vinyl acetate | ND | | 5.0 | | ug/L | | | 11/04/15 23:51 | 1 |
| Vinyl chloride | ND | | 5.0 | | ug/L | | | 11/04/15 23:51 | 1 |
| Surrogate | %Recovery Q | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 100 | | 80 - 120 | | | - | | 11/04/15 23:51 | |
| Dibromofluoromethane (Surr) | 104 | | 76 - 132 | | | | | 11/04/15 23:51 | 1 |

| Method: 8015B - Nonhal | ogenated Organic Compound | ls - Direct I | njection (| (GC) | | | | |
|------------------------|---------------------------|---------------|------------|------|---|----------|----------------|---------|
| Analyte | Result Qualifier | RL | | İnit | D | Prepared | Analyzed | Dil Fac |
| Ethanol | ND | 10 | m | ng/L | | | 11/09/15 13:16 | 1 |
| Isopropyl alcohol | ND | 10 | m | ng/L | | | 11/09/15 13:16 | 1 |
| Methanol | ND | 10 | m | ıg/L | | | 11/09/15 13:16 | . 1 |
| 1-Propanol | ND | 10 | m | ıg/L | | | 11/09/15 13:16 | 1 |

80 - 128

107

Client Sample ID: Subpart CC VOA #E

Date Collected: 10/27/15 09:00 Date Received: 10/28/15 10:00 Lab Sample ID: 440-125626-5

11/04/15 23:51

Matrix: Water

| Analyte | Result Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------------|-----|----------|---|---------------|------------------|---------|
| Benzene | ND ND | 2.0 | ug/L | | | 11/05/15 00:19 | 1 |
| Bromobenzene | ND | 5.0 | ug/L | | | 11/05/15 00:19 | 1 |
| Bromochloromethane | ND | 5.0 | ug/L | | | 11/05/15 00:19 | 1 |
| Bromodichloromethane | ND | 2.0 | ug/L | | | 11/05/15 00:19 | 1 |
| Bromoform | ND | 5.0 | ug/L | | | 11/05/15 00:19 | 1 |
| Bromomethane | ND | 5.0 | ug/L. | | | 11/05/15 00:19 | 1 |
| Carbon disulfide | ND | 5.0 | ug/L | | | 11/05/15 00:19 | 1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | | • | 11/05/15 00:19 | 1 |
| Chlorobenzene | ND | 2.0 | ug/L | | | 11/05/15 00:19 | 1 |
| Chloroethane | ND | 5.0 | ug/L | | | 11/05/15 00:19 | 1 |
| Chloroform | ND | 2.0 | ug/L | | | 11/05/15 00:19 | 1 |
| Chloromethane | ND | 5.0 | ug/L | | , | 11/05/15 00:19 | 1 |
| 2-Chlorotoluene | ND | 5.0 | ug/L | | | 11/05/15 00:19 | 1 |
| 4-Chlorotoluene | ND | 5.0 | ug/L | | | 11/05/15 00:19 | 1 |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/L | | | 11/05/15 00:19 | 1 |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/L | | | 11/05/15 00:19 | 1 |
| Dibromochloromethane | ND | 2.0 | ug/L | | | 11/05/15 00:19 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | 5.0 | ug/L | | | 11/05/15 00:19 | 1 |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/L | | | 11/05/15 00:19 | 1 |
| Dibromomethane | ND | 2.0 | ug/L | | | 11/05/15 00:19 | 1 |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/L | | | 11/05/15 00:19 | 1 |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/L | | • • • • • • • | 11/05/15 00:19 | 1 |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/L | | | 11/05/15 00:19 | 1 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | | | , 11/05/15 00:19 | 1 |
| 1,1-Dichloroethane | ND | 2.0 | ug/L | | | 11/05/15 00:19 | 1 |
| 1,2-Dichloroethane | ND | 2.0 | ug/L | | | 11/05/15 00:19 | 1 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | | | 11/05/15 00:19 | . 1 |
| 1,2-Dichloropropane | ND | 2.0 | ug/L | | | 11/05/15 00:19 | 1 |

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

Ethanol

Methanol

1-Propanol

Isopropyl alcohol

Client Sample ID: Subpart CC VOA #E

ND

ND

ND

ND

Date Collected: 10/27/15 09:00

Date Received: 10/28/15 10:00

Lab Sample ID: 440-125626-5

TestAmerica Job ID: 440-125626-1

Matrix: Water

| Method: 8260B - Volatile C
Analyte | | Qualifier | RL | MDL (| Unit | đ | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-----------|-----------|---------------|---------------------------------------|-------|---|----------|----------------|---------|
| 1,3-Dichloropropane | ND | | 2.0 | | .ıg/L | | | 11/05/15 00:19 | |
| 2,2-Dichloropropane | ND | | 2.0 | ι | ug/L | | | 11/05/15 00:19 | 1 |
| 1,1-Dichloropropene | ND | | 2.0 | · · · · · · · · · · · · · · · · · · · | ıg/L | | | 11/05/15 00:19 | 1 |
| Ethylbenzene | ND | | 2.0 | ι | ug/L | | | 11/05/15 00:19 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | ι | ug/L | | | 11/05/15 00:19 | 1 |
| Isopropylbenzene | ND | | 2.0 | ι | ıg/L | | * | 11/05/15 00:19 | 1 |
| Methylene Chloride | ND | | 5.0 | l | ıg/L | | | 11/05/15 00:19 | 1 |
| m,p-Xylene | ND | | 2.0 | ι | ıg/L | | | 11/05/15 00:19 | 1 |
| Naphthalene | ND | | 5.0 | ι | ıg/L | | | 11/05/15 00:19 | 1 |
| n-Butylbenzene | ND | | 5.0 | ŧ | ıg/L | | | 11/05/15 00:19 | 1 |
| N-Propylbenzene | NĐ | | 2.0 | Į. | ıg/L | | | 11/05/15 00:19 | 1 |
| o-Xylene | ND | | 2.0 | · | ig/L | | | 11/05/15 00:19 | 1 |
| p-Isopropyltoluene | ND | | 2.0 | ι | ıg/L | | | 11/05/15 00:19 | 1 |
| sec-Butylbenzene | ND | | 5.0 | ι | ıg/L | | | 11/05/15 00:19 | 1 |
| Styrene | ND | | 2.0 | · | ıg/L | | | 11/05/15 00:19 | 1 |
| tert-Butylbenzene | ND | | 5.0 | ι | ıg/L | | | 11/05/15 00:19 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 5.0 | į | ıg/L | | | 11/05/15 00:19 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.0 | ι | ıg/L | | | 11/05/15 00:19 | 1 |
| Tetrachloroethene | ND | | 2.0 | ι | ıg/L | | | 11/05/15 00:19 | 1 |
| Toluene | ND | | 2.0 | U | ıg/L | | | 11/05/15 00:19 | 1 |
| trans-1,2-Dichloroethene | ND | | 2.0 | | ıg/L | | | 11/05/15 00:19 | 1 |
| trans-1,3-Dichloropropene | ND | | 2.0 | U | ıg/L. | | | 11/05/15 00:19 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 5.0 | u | ıg/L | | | 11/05/15 00:19 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | · · · | ig/L | | | 11/05/15 00:19 | . 1 |
| 1,1,1-Trichloroethane | ND | | 2.0 | u | ıg/L | | | 11/05/15 00:19 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.0 | U | ıg/L | | | 11/05/15 00:19 | 1 |
| Trichtoroethene | ND | | 2.0 | U | g/L | | | 11/05/15 00:19 | 1 |
| Frichlorofluoromethane | ND | | 5.0 | u | g/L | | | 11/05/15 00:19 | 1 |
| 1,2,3-Trichloropropane | ND | | 10 | u | g/L | | | 11/05/15 00:19 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 2.0 | u | g/L | | | 11/05/15 00:19 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 2.0 | u | g/L | | | 11/05/15 00:19 | 1 |
| Vinyl acetate | ND | | 5.0 | u | g/L | | | 11/05/15 00:19 | 1 |
| Vinyl chloride | ND | | 5.0 | u | g/L | | | 11/05/15 00:19 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Bromofluorobenzene (Surr) | 100 | | 80 - 120 | | | _ | | 11/05/15 00:19 | 1 |
| Dibromofluoromethane (Surr) | 104 | | 76 - 132 | | | | | 11/05/15 00:19 | 1 |
| Toluene-d8 (Surr) | 107 | | 80 - 128 | | | | | 11/05/15 00:19 | 1 |
| Method: 8015B - Nonhalogo
Analyte | | Compoun | ds - Direct I | njection (
MDL U | | D | Prepared | Analyzed | Dil Fac |

TestAmerica Irvine

1

1

11/09/15 13:25

11/09/15 13:25

11/09/15 13:25

11/09/15 13:25

10

10

10

10

mg/L

mg/L

mg/L

mg/L

5

Client Sample Results

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

Client Sample ID: Subpart CC VOA #F

Date Collected: 10/27/15 09:00 Date Received: 10/28/15 10:00 Lab Sample ID: 440-125626-6

Matrix: Water

| Method: 8260B - Volatile Orga
Analyte | Result Qualifier | RL | MDL Unit | D _ | Prepared | Analyzed | Dil F |
|--|------------------|-------|----------|-----|--|----------------|-------|
| Benzene | ND | 2.0 | ug/L | | | 11/05/15 00:48 | |
| Bromobenzene | ND | 5.0 | ug/L | | | 11/05/15 00:48 | |
| 3romochloromethane | ND | 5.0 | ug/L | | | 11/05/15 00:48 | |
| 3romodichloromethane | ND | 2.0 | ug/L | | | 11/05/15 00:48 | |
| Bromoform | ND | 5.0 | ug/L | | | 11/05/15 00:48 | |
| Bromomethane | ND | 5.0 | ug/L | | | 11/05/15 00:48 | |
| Carbon disulfide | ND | 5.0 | ug/L | | | 11/05/15 00:48 | |
| Carbon tetrachloride | ND | 5.0 | ug/L | | | 11/05/15 00:48 | |
| Chlorobenzene | ND | 2.0 | ug/L | | | 11/05/15 00:48 | |
| Chloroethane | ND | 5.0 | ug/L | | | 11/05/15 00:48 | |
| Chloroform | ND . | 2.0 | ug/L | | | 11/05/15 00:48 | |
| Chloromethane | NÐ | 5.0 | ug/L | | | 11/05/15 00:48 | |
| -Chlorotoluene | ND | 5.0 | ug/L | | | 11/05/15 00:48 | |
| -Chlorotoluene | ND | 5.0 | ug/L | | | 11/05/15 00:48 | |
| is-1,2-Dichloroethene | ND | 2.0 | ug/L | | | 11/05/15 00:48 | |
| is-1,3-Dichloropropene | ND | 2.0 | ug/L | | | 11/05/15 00:48 | |
| bromochloromethane | ND ` | 2.0 | ug/L | | | 11/05/15 00:48 | |
| 2-Dibromo-3-Chloropropane | ND | 5.0 | ug/L | | | 11/05/15 00:48 | |
| 2-Dibromoethane (EDB) | ND | 2.0 | ug/L | | | 11/05/15 00:48 | |
| bromomethane | ND | 2.0 | ug/L | | | 11/05/15 00:48 | |
| 2-Dichlorobenzene | ND | 2.0 | ug/L | | | 11/05/15 00:48 | |
| 3-Dichlorobenzene | ND | 2.0 | ug/L | • | | | |
| 4-Dichlorobenzene | · ND | 2.0 | ug/L | | | | |
| chlorodifluoromethane | ND | 5.0 | ug/L | | | | |
| I-Dichloroethane | ND | 2.0 | ug/L | | 11/05/15 00:48
11/05/15 00:48
11/05/15 00:48
11/05/15 00:48
11/05/15 00:48
11/05/15 00:48
11/05/15 00:48 | | |
| 2-Dichloroethane | ND | 2.0 | ug/L | | | | |
| 1-Dichloroethene | ND | 5.0 | ug/L | | | | |
| 2-Dichloropropane | ND | 2.0 | ug/L | | | 11/05/15 00:48 | |
| 3-Dichloropropane | ND | 2.0 | = | | | 11/05/15 00:48 | |
| 2-Dichloropropane | ND | 2.0 | ug/L | | | 11/05/15 00:48 | |
| | ND | 2.0 | ug/L | | | | |
| I-Dichloropropene | | | ug/L | | | 11/05/15 00:48 | |
| nylbenzene | ND | 2.0 | ug/L | | | 11/05/15 00:48 | |
| xachlorobutadiene | ND | 5.0 | ug/L | | | 11/05/15 00:48 | |
| propylbenzene | ND | 2.0 | ug/L
 | | | 11/05/15 00:48 | |
| ethylene Chloride | ND | 5.0 | ug/L | | | 11/05/15 00:48 | |
| p-Xylene | ND | 2.0 | ug/L | | | 11/05/15 00:48 | |
| phthalene | ND | 5.0 | ug/L | | | 11/05/15 00:48 | |
| Butylbenzene | ND | 5.0 | ug/L | | | 11/05/15 00:48 | |
| Propylbenzene | ND | 2.0 | ug/L | | | 11/05/15 00:48 | |
| Kylene | ND | 2.0 | ug/L | | | 11/05/15 00:48 | |
| sopropyltoluene | ND | 2.0 | ug/L | | | 11/05/15 00:48 | |
| c-Butylbenzene | ND | 5.0 | ug/L | | | 11/05/15 00:48 | |
| rene | ND | 2.0 | ug/L | | | 11/05/15 00:48 | |
| t-Butylbenzene | ND | 5.0 | ug/L | | | 11/05/15 00:48 | |
| ,1,2-Tetrachloroethane | ND | 5.0 | ug/L | | | 11/05/15 00:48 | |
| ,2,2-Tetrachloroethane | ND | 2.0 | ug/L | | | 11/05/15 00:48 | |
| trachioroethene | ND | 2.0 | ug/L | | | 11/05/15 00:48 | |
| luene | ND | 2.0 | ug/L | | | 11/05/15 00:48 | |
| ns-1,2-Dichloroethene | NĎ | . 2.0 | ug/L | | | 11/05/15 00:48 | |

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

Analyte

Ethanol

Methanol

1-Propanol

Isopropyl alcohol

TestAmerica Job ID: 440-125626-1

Client Sample ID: Subpart CC VOA #F

Date Collected: 10/27/15 09:00 Date Received: 10/28/15 10:00 Lab Sample ID: 440-125626-6

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|------|---|----------|----------------|---------|
| trans-1,3-Dichloropropene | ND | | 2.0 | | ug/L | | | 11/05/15 00:48 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 5.0 | | ug/L | | | 11/05/15 00:48 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | | ug/L | | | 11/05/15 00:48 | 1 |
| 1,1,1-Trichloroethane | ND | | 2.0 | | ug/L | | | 11/05/15 00:48 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.0 | | ug/L | | | 11/05/15 00:48 | 1 |
| Trichloroethene | ND | | 2.0 | | ug/L | | | 11/05/15 00:48 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | | ug/L | | | 11/05/15 00:48 | 1 |
| 1,2,3-Trichloropropane | ND | | 10 | | ug/L | | | 11/05/15 00:48 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 2.0 | | ug/L | | | 11/05/15 00:48 | 1 |
| 1,3,5-Trimethylbenzene | ND. | | 2.0 | | ug/L | | | 11/05/15 00:48 | 1 |
| Vinyl acetate | ND | | 5.0 | | ug/L | | | 11/05/15 00:48 | 1 |
| Vinyl chloride | ND | | 5.0 | | ug/L | | | 11/05/15 00:48 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 100 | | 80 - 120 | | | - | | 11/05/15 00:48 | 1 |
| Dibromofluoromethane (Surr) | 103 | | 76 - 132 | | | | | 11/05/15 00:48 | 1 |
| Toluene-d8 (Surr) | 107 | | 80 - 128 | | | | | 11/05/15 00:48 | 1 |

10

10

10

10

MDL Unit

mg/L

mg/L

mg/L

mg/L

Prepared

Analyzed

11/09/15 13:33

11/09/15 13:33

11/09/15 13:33

11/09/15 13:33

Dil Fac

1

1

1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

ND

ND

ND

ND

Result Qualifier

Method Summary

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

TestAmerica Job ID: 440-125626-1

| Method | Method Description | Protocol | Laboratory |
|--------|--|----------|------------|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL IRV |
| 8015B | Nonhalogenated Organic Compounds - Direct Injection (GC) | SW846 | TAL CF |

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401
TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

(6)

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

Client Sample ID: Subpart CC VOA #A

Date Collected: 10/27/15 09:00 Date Received: 10/28/15 10:00 Lab Sample ID: 440-125626-1

Matrix: Water

| | Prep Type
Total/NA | Batch
Type
Analysis | Batch
Method
8260B | Run | Dil
Factor | Initial Amount 10 mL | Final Amount 10 mL | Batch
Number
291618 | Prepared
or Analyzed
11/04/15 21:29 | Analyst
WK | Lab
TAL IRV |
|---|-----------------------|---------------------------|--------------------------|-----|---------------|----------------------|--------------------|---------------------------|---|---------------|----------------|
| 1 | Total/NA | Analysis | 8015B | | 1 | 1 mL | | 107866 | 11/09/15 12:52 | JCM | TAL CF |

Client Sample ID: Subpart CC VOA #B

Date Collected: 10/27/15 09:00 Date Received: 10/28/15 10:00 Lab Sample ID: 440-125626-2

Matrix: Water

| | _ | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|---|-----------|----------|--------|-----|--------|---------|--------|--------|----------------|---------|---------|
| | Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| - | Total/NA | Analysis | 8260B | | 1 | 10 mL | 10 mL | 291618 | 11/04/15 22:55 | WK | TAL IRV |
| | Total/NA | Analysis | 8015B | | 1 | 1 mL | | 107866 | 11/09/15 13:00 | JCM | TAL CF |

Client Sample ID: Subpart CC VOA #C

Date Collected: 10/27/15 09:00 Date Received: 10/28/15 10:00 Lab Sample ID: 440-125626-3

Matrix: Water

| *************************************** | Prep Type
Total/NA | Batch Type Analysis | Batch
Method
8260B | Run | Dil
Factor | Initial
Amount | Final
Amount
10 mL | Batch
Number
291618 | Prepared
or Analyzed
11/04/15 23:23 | Analyst
WK | Lab
TAL IRV |
|---|-----------------------|---------------------|--------------------------|-----|---------------|-------------------|--------------------------|---------------------------|---|---------------|----------------|
| | Total/NA | Analysis | 8015B | | 1 | 1 mL | | 107866 | 11/09/15 13:08 | JCM | TAL CF |

Client Sample ID: Subpart CC VOA #D

Date Collected: 10/27/15 09:00 Date Received: 10/28/15 10:00 Lab Sample ID: 440-125626-4

Matrix: Water

| Prep Type Total/NA | Batch Type Analysis | Batch
Method
8260B | Run | Dil
Factor | Initial
Amount
10 mL | Final
Amount | Batch
Number
291618 | Prepared
or Analyzed | Analyst
WK | Lab
TAL IRV |
|--------------------|---------------------|--------------------------|-----|---------------|----------------------------|-----------------|---------------------------|-------------------------|---------------|----------------|
| Total/NA | Analysis | 8015B | | 1 | 1 mL | TOTAL | 107866 | 11/09/15 13:16 | | TAL IRV |

Client Sample ID: Subpart CC VOA #E

Date Collected: 10/27/15 09:00 Date Received: 10/28/15 10:00 Lab Sample ID: 440-125626-5

Matrix: Water

| 0.000 | Prep Type
Total/NA | Batch Type Analysis | Batch
Method
8260B | Run | Dil
Factor | Initial
Amount
10 mL | Final Amount | Batch
Number
291618 | Prepared
or Analyzed
11/05/15 00:19 | Analyst | Lab
TAL IRV |
|-------|-----------------------|---------------------|--------------------------|-----|---------------|----------------------------|--------------|---------------------------|---|---------|----------------|
| 414 | Total/NA | Analysis | 8015B | | 1 | 1 mL | · | 107866 | 11/09/15 13:25 | | TAL CF |

Client Sample ID: Subpart CC VOA #F

Date Collected: 10/27/15 09:00

Date Received: 10/28/15 10:00

Lab Sample ID: 440-125626-6

Matrix: Water

| 0.00000 | | Batch | Batch | | Dil | Initia) | Final | Batch | Prepared | | |
|---------|-----------|----------|--------|-----|--------|---------|--------|--------|----------------|---------|---------|
| İ | Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| - | Total/NA | Analysis | 8260B | | 1 | 10 mL | 10 mL | 291618 | 11/05/15 00:48 | WK | TAL IRV |

Lab Chronicle

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

TestAmerica Job ID: 440-125626-1

Client Sample ID: Subpart CC VOA #F

Date Collected: 10/27/15 09:00 Date Received: 10/28/15 10:00 Lab Sample ID: 440-125626-6

Matrix: Water

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------------------|---------------|-----------------|-----|----------|----------------|--------|------------------|-------------------------------|----------------|---------------|
| Prep Type
Total/NA | Type Analysis | Method
8015B | Run | Factor 1 | Amount
1 mL | Amount | Number
107866 | or Analyzed
11/09/15 13:33 | Analyst
JCM | Lab
TAL CF |

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401
TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022



Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-291618/3 Client Sample ID: Method Blank Matrix: Water

Prep Type: Total/NA Analysis Batch: 291618 MB MB Result Qualifier RL. MDL Unit Prepared Analyzed Dil Fac Benzene ND 2.0 ug/L. 11/04/15 20:21 Bromobenzene NΠ 5.0 ug/L 11/04/15 20:21 ND Bromochloromethane 5.0 ug/L 11/04/15 20:21 Bromodichloromethane ND 2.0 ug/L 11/04/15 20:21 Bromoform ND 5.0 ug/L 11/04/15 20:21 ND Bromomethane 5.0 ug/L. 11/04/15 20:21 Carbon disulfide ND 5.0 ug/L 11/04/15 20:21 Carbon tetrachloride ND 5.0 ug/L 11/04/15 20:21 1 Chlorobenzene ND 2.0 ug/L 11/04/15 20:21 Chloroethane ND 5.0 ug/L 11/04/15 20:21 Chloroform ND 2.0 ug/L 11/04/15 20:21 1 Chloromethane ND 5.0 ug/L 11/04/15 20:21 1 2-Chlorotoluene ND 5.0 11/04/15 20:21 ug/L. 4-Chlorotoluene ND 5.0 ug/L 11/04/15 20:21 cis-1,2-Dichloroethene ND 2.0 ug/L 11/04/15 20:21 1 cis-1,3-Dichloropropene ND 2.0 ug/L 11/04/15 20:21 1 Dibromochloromethane ND 2.0 ug/L 11/04/15 20:21 1 1,2-Dibromo-3-Chloropropane ND 5.0 ug/L 11/04/15 20:21 1,2-Dibromoethane (EDB) ND 2.0 ug/L 11/04/15 20:21 1 Dibromomethane ND 2.0 ug/L 11/04/15 20:21 1,2-Dichlorobenzene ND 2.0 ug/L 11/04/15 20:21 1,3-Dichlorobenzene ND 2.0 ug/L 11/04/15 20:21 1,4-Dichlorobenzene ND 2.0 ug/L 11/04/15 20:21 Dichlorodifluoromethane ND 5.0 ug/L 11/04/15 20:21 1,1-Dichloroethane ND 2.0 11/04/15 20:21 ug/L 1,2-Dichloroethane ND 2.0 11/04/15 20:21 ug/L 1,1-Dichloroethene NΩ 5.0 ug/L 11/04/15 20:21 1,2-Dichloropropane ND 2.0 ug/L 11/04/15 20:21 1,3-Dichloropropane ND 2.0 ug/L 11/04/15 20:21 2,2-Dichloropropane ND 2.0 11/04/15 20:21 ug/L ND 2.0 1,1-Dichloropropene ug/L 11/04/15 20:21 Ethylbenzene ND 2.0 ug/L 11/04/15 20:21 Hexachlorobutadiene ND 5.0 ug/L 11/04/15 20:21 Isopropylbenzene ND 2.0 11/04/15 20:21 ug/L Methylene Chloride ND 5.0 ug/L 11/04/15 20:21 m,p-Xylene ND 2.0 ug/L 11/04/15 20:21 Naphthalene ND 5.0 ug/L 11/04/15 20:21 1 n-Butylbenzene ND 5.0 ug/L 11/04/15 20:21 1 N-Propylbenzene ND 2.0 ug/L 11/04/15 20:21 1 ND o-Xylene 2.0 ug/L 11/04/15 20:21 1 ND 2.0 p-Isopropyltoluene ug/L 11/04/15 20:21 sec-Butylbenzene ND 5.0 ug/L 11/04/15 20:21 Styrene ND 2.0 ug/L 11/04/15 20:21 tert-Butylbenzene ND £5.0 ug/L 11/04/15 20:21 14 1,1,1,2-Tetrachloroethane ND 5.0 ug/L 11/04/15 20:21 ND 2.0 1,1,2,2-Tetrachloroethane ug/L 11/04/15 20:21 1 ND 2.0 Tetrachloroethene ug/L 11/04/15 20:21 Toluene ND 2.0 ug/L 11/04/15 20:21

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-291618/3

Matrix: Water Analysis Batch: 291618 Client Sample ID: Method Blank Prep Type: Total/NA

TestAmerica Job ID: 440-125626-1

| | | MB | MB | | | | | ÷ | | |
|---|---------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| | Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| | trans-1,2-Dichloroethene | ND | | 2.0 | | ug/L | | | 11/04/15 20:21 | 1 |
| | trans-1,3-Dichloropropene | ND | | 2.0 | | ug/L | | | 11/04/15 20:21 | 1 |
| | 1,2,3-Trichlorobenzene | ND | | 5.0 | | ug/L | | | 11/04/15 20:21 | 1 |
| | 1,2,4-Trichlorobenzene | ND | | 5.0 | | ug/L | | | 11/04/15 20:21 | 1 |
| | 1,1,1-Trichloroethane | ND | | 2.0 | | ug/L | | | 11/04/15 20:21 | 1 |
| | 1,1,2-Trichloroethane | ND | | 2.0 | | ug/L | | | 11/04/15 20:21 | 1 |
| İ | Trichloroethene | ND | | 2.0 | | ug/L | | | 11/04/15 20:21 | 1 |
| | Trichlorofluoromethane | ND | | 5.0 | | ug/L | | | 11/04/15 20:21 | 1 |
| | 1,2,3-Trichloropropane | ND | | 10 | | ug/L | | | 11/04/15 20:21 | 1 |
| l | 1,2,4-Trimethylbenzene | ND | | 2.0 | | ug/L | | | 11/04/15 20:21 | 1 |
| | 1,3,5-Trimethylbenzene | ND | | 2.0 | | ug/L | | | 11/04/15 20:21 | 1 |
| - | Vinyl acetate | ND | | 5.0 | | ug/L | | | 11/04/15 20:21 | 1 |
| | Vinyl chloride | ND | | 5.0 | | ug/L | | | 11/04/15 20:21 | 1 |
| П | | | | | | | | | | |

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 99 80 - 120 11/04/15 20:21 Dibromofluoromethane (Surr) 102 76 - 132 11/04/15 20:21 Toluene-d8 (Surr) 109 80 - 128 11/04/15 20:21

Lab Sample ID: LCS 440-291618/4

Matrix: Water

Analysis Batch: 291618

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analysis Batch. 2010 jo | Spike | LCS | LCS | | | %Rec. |
|-----------------------------|-------|------|--------------|----------------|------|----------|
| Analyte | Added | | Qualifier Un | it D | %Rec | Limits |
| Benzene | 25.0 | 25.0 | ug. | <u>'L</u> | 100 | 68 - 130 |
| Bromobenzene | 25.0 | 25.7 | ug | L. | 103 | 70 - 130 |
| Bromochloromethane | 25.0 | 25.7 | uga | L | 103 | 70 - 130 |
| Bromodichloromethane | 25.0 | 25.6 | uga | Ĺ | 102 | 70 - 132 |
| Bromoform | 25.0 | 25.7 | uga | L | 103 | 60 - 148 |
| Bromomethane | 25.0 | 27.1 | ug/ | L. | 108 | 64 - 139 |
| Carbon disulfide | 25.0 | 25.4 | ug/ | L | 102 | 52 - 136 |
| Carbon tetrachloride | 25.0 | 28.7 | ug/ | L | 115 | 60 - 150 |
| Chlorobenzene | 25.0 | 25.6 | ug/ | L | 102 | 70 - 130 |
| Chioroethane | 25.0 | 26.3 | ug/ | L | 105 | 64 - 135 |
| Chloroform | 25.0 | 24.8 | ug/ | L | 99 | 70 - 130 |
| Chloromethane | 25.0 | 26.4 | ug/ | L _, | 106 | 47 - 140 |
| 2-Chlorotoluene | 25.0 | 25.6 | ug/ | L | 102 | 70 - 130 |
| 4-Chlorotoluene | 25.0 | 25.7 | ug/ | L | 103 | 70 - 130 |
| cis-1,2-Dichloroethene | 25.0 | 25.7 | ug/ | L | 103 | 70 - 133 |
| cis-1,3-Dichloropropene | 25.0 | 26.5 | ug/ | L | 106 | 70 - 133 |
| Dibromochloromethane | 25.0 | 26.1 | ug/ | L | 104 | 69 - 145 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 23.2 | ug/ | L | 93 | 52 - 140 |
| 1,2-Dibromoethane (EDB) | 25.0 | 26.8 | ug/ | L. | 107 | 70 - 130 |
| Dibromomethane † | 25.0 | 24.8 | ùg/ | L | 99 | 70 - 130 |
| 1,2-Dichlorobenzene | 25.0 | 26.0 | ug/ | L | 104 | 70 - 130 |
| 1,3-Dichlorobenzene | 25.0 | 25.7 | ug/ | L | 103 | 70 - 130 |
| 1,4-Dichlorobenzene | 25.0 | 25.7 | ug/ | L | 103 | 70 - 130 |
| Dichlorodifluoromethane | 25.0 | 25.4 | ug/ | L | 101 | 29 - 150 |

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-291618/4

Matrix: Water

Analysis Batch: 291618

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| | Spike | LCS | LCS | | %Rec. | |
|---------------------------|-------|--------|----------------|--------|----------|---|
| Analyte | Added | Result | Qualifier Unit | D %Rec | Limits | |
| 1,1-Dichloroethane | 25.0 | 24.8 | ug/L | 99 | 64 - 130 | |
| 1,2-Dichloroethane | 25.0 | 26.1 | ug/L | 104 | 57 - 138 | |
| 1,1-Dichloroethene | 25.0 | 25.9 | ug/L | 103 | 70 ~ 130 | |
| 1,2-Dichloropropane | 25.0 | 24.8 | ug/Ĺ | 99 | 67 - 130 | |
| 1,3-Dichloropropane | 25.0 | 24.8 | ug/L | 99 | 70 - 130 | |
| 2,2-Dichloropropane | 25.0 | 29.0 | ug/L | 116 | 68 - 141 | |
| 1,1-Dichloropropene | 25.0 | 25.5 | ug/L | 102 | 70 - 130 | |
| Ethylbenzene | 25.0 | 25.4 | ug/L | 102 | 70 - 130 | |
| Hexachlorobutadiene | 25.0 | 26.0 | ug/L | 104 | 10 - 150 | |
| Isopropylbenzene | 25.0 | 26.1 | ug/L | 104 | 70 - 136 | |
| Methylene Chloride | 25.0 | 23.9 | ug/L | 96 | 52 - 130 | |
| m,p-Xylene | 25.0 | 25.9 | ug/L | 104 | 70 - 130 | |
| Naphthalene | 25.0 | 24.7 | ug/L. | 99 | 60 - 140 | |
| n-Butylbenzene | 25.0 | 25.0 | ug/L | 100 | 65 - 150 | |
| N-Propylbenzene | 25.0 | 26.1 | ug/L | 104 | 67 - 139 | - |
| o-Xylene | 25.0 | 25.2 | ug/L | 101 | 70 - 130 | |
| p-Isopropyltoluene | 25.0 | 25.2 | ug/L | 101 | 70 - 132 | |
| sec-Butylbenzene | 25.0 | 25.1 | ug/L | 100 | 70 - 138 | |
| Styrene | 25.0 | 26.9 | ug/L | 108 | 70 - 134 | - |
| tert-Butylbenzene | 25.0 | 25.1 | ug/L | 100 | 70 - 130 | |
| 1,1,1,2-Tetrachloroethane | 25.0 | 26.9 | ug/L | 108 | 60 - 141 | |
| 1,1,2,2-Tetrachloroethane | 25.0 | 24.5 | ug/L | 98 | 63 - 130 | |
| Tetrachloroethene | 25.0 | 26.7 | ug/L | 107 | 70 - 130 | |
| Toluene | 25.0 | 24.8 | ug/L | 99 | 70 - 130 | |
| trans-1,2-Dichloroethene | 25.0 | 27.1 | ug/L | 109 | 70 - 130 | |
| trans-1,3-Dichloropropene | 25.0 | 25.7 | ug/L | 103 | 70 - 132 | |
| 1,2,3-Trichlorobenzene | 25.0 | 24.7 | ug/L | 99 | 60 - 140 | |
| 1,2,4-Trichlorobenzene | 25.0 | 25.5 | ug/L | 102 | 60 - 140 | |
| 1,1,1-Trichloroethane | 25.0 | 26.8 | ug/L | 107 | 70 - 130 | |
| 1,1,2-Trichloroethane | 25.0 | 25.7 | . ug/L | 103 | 70 - 130 | |
| Trichloroethene | 25.0 | 26.4 | ug/L | 106 | 70 - 130 | |
| Trichlorofluoromethane | 25.0 | 27.1 | ug/L | 108 | 60 - 150 | |
| 1,2,3-Trichloropropane | 25.0 | 21.7 | ug/L | 87 | 63 - 130 | |
| 1,2,4-Trimelhylbenzene | 25.0 | 25.4 | ug/L | 102 | 70 - 135 | |
| 1,3,5-Trimethylbenzene | 25.0 | 25.2 | ug/L | 101 | 70 - 136 | |
| Vinyl acetate | 25.0 | 19.3 | ug/L | 77 | 48 - 140 | |
| Vinyl chloride | 25.0 | 26.2 | ug/L | 105 | 59 - 133 | |
| | | | | | | |

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 99 | | 80 - 120 |
| Dibromofluoromethane (Surr) | 103 | | 76 - 132 |
| Toluene-d8 (Surr) | 105 | | 80 - 128 |

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-125626-1 MS

Matrix: Water

Analysis Batch: 291618

Client Sample ID: Subpart CC VOA #A

| anny io |
Cappair Co Torring |
|---------|------------------------|
| | Prep Type: Total/NA |

| | Sample Sample | Spike | MS | | | %Rec. |
|---------------------------------|------------------|-------|------|----------------|--------|----------|
| Analyte
Benzene | Result Qualifier | Added | | Qualifier Unit | D %Rec | Limits |
| | ND | 25.0 | 24.6 | ug/L | 98 | 66 - 130 |
| Bromobenzene Bromochloromethane | ND | 25.0 | 25.7 | ug/L | . 103 | 70 - 130 |
| Bromodichloromethane | ND | 25.0 | 26.0 | ug/L | 104 | 70 - 130 |
| Bromoform | ND
ND | 25.0 | 25.4 | ug/L | 102 | 70 - 138 |
| | ND
ND | 25.0 | 27.2 | ug/L | 103 | 59 - 150 |
| Bromomethane Carbon disulfide | ND
ND | 25.0 | 27.2 | ug/L | 109 | 62 - 131 |
| | ND | 25.0 | 25.5 | ug/L | 102 | 49 - 140 |
| Carbon tetrachloride | ND | 25.0 | 28.0 | ug/L | 112 | 60 - 150 |
| Chlorobenzene | ND | 25.0 | 24.3 | ug/L | 97 | 70 - 130 |
| Chloroethane | ND | 25.0 | 26.1 | ug/L | 105 | 68 - 130 |
| Chloroform | ND | 25.0 | 24.4 | ug/L | 98 | 70 - 130 |
| Chloromethane | ND | 25.0 | 26.7 | ug/L | 107 | 39 - 144 |
| 2-Chlorotoluene | ND | 25.0 | 25.6 | ug/L | 102 | 70 - 130 |
| 4-Chlorotoluene | ND | 25.0 | 26.0 | ug/L
" | 104 | 70 - 130 |
| cis-1,2-Dichloroethene | ND | 25.0 | 25.5 | ug/L | 102 | 70 - 130 |
| cis-1,3-Dichloropropene | ND | 25.0 | 25.0 | ug/L | 100 | 70 - 133 |
| Dibromochloromethane | ND | 25.0 | 26.0 | ug/L | 104 | 70 - 148 |
| 1,2-Dibromo-3-Chloropropane | ND | 25.0 | 24.0 | ug/L | 96 | 48 - 140 |
| 1,2-Dibromoethane (EDB) | ND | 25.0 | 25.4 | ug/L | 102 | 70 - 131 |
| Dibromomethane | ND | 25.0 | 25.0 | ug/L | 100 | 70 - 130 |
| 1,2-Dichlorobenzene | ND | 25.0 | 25.9 | ug/L | 104 | 70 - 130 |
| 1,3-Dichlorobenzene | ND | 25.0 | 25.7 | ug/L | 103 | 70 - 130 |
| 1,4-Dichlorobenzene | , ND | 25.0 | 25.4 | ug/L | 102 | 70 - 130 |
| Dichlorodifluoromethane | ND | 25.0 | 24.7 | ug/L | 99 | 25 - 142 |
| 1,1-Dichloroethane | ND | 25.0 | 24.4 | ug/L | 98 | 65 - 130 |
| 1,2-Dichloroethane | ND | 25.0 | 25.9 | ug/L | 103 | 56 - 146 |
| 1,1-Dichloroethene | ND | 25.0 | 25.5 | ug/L | 102 | 70 - 130 |
| 1,2-Dichloropropane | ND | 25.0 | 24.7 | ug/L | 99 | 69 - 130 |
| 1,3-Dichloropropane | ND | 25.0 | 24.2 | ug/L | 97 | 70 - 130 |
| 2,2-Dichloropropane | ND | 25.0 | 28.5 | ug/L | 114 | 69 - 138 |
| 1,1-Dichloropropene | ND | 25.0 | 25.2 | ug/L | 101 | 64 - 130 |
| Ethylbenzene | ND | 25.0 | 23.6 | ug/L | 94 | 70 - 130 |
| Hexachlorobutadiene | ND | 25.0 | 25.5 | ug/L | 102 | 10 - 150 |
| Isopropylbenzene | ND | 25.0 | 25.1 | ug/L | 101 | 70 - 132 |
| Methylene Chloride | ND | 25.0 | 24.0 | ug/L | 96 | 52 - 130 |
| m,p-Xylene | ND | 25.0 | 24.6 | ug/L | | 70 - 133 |
| Naphthalene | ND | 25.0 | 25.0 | ug/L | 100 | 60 - 140 |
| n-Butylbenzene | ND | 25.0 | 25.1 | ug/L | 101 | 61 - 149 |
| N-Propylbenzene | ND | 25.0 | 25.9 | ug/L | 104 | 66 - 135 |
| o-Xylene | ND | 25.0 | 23.4 | ug/L | 93 | 70 - 133 |
| o-Isopropyltoluene | ND | 25.0 | 25.2 | ug/L | 101 | 70 - 130 |
| sec-Butylbenzene | ND | 25.0 | 24.9 | ug/L | 100 | 67 - 134 |
| Styrene | ND | 25.0 | 24.7 | ug/L | 99 | 29 - 150 |
| ert-Butylbenzene | ND | 25.0 | 25.4 | ug/L | 102 | 70 - 130 |
| 1,1,1,2-Tetrachloroethane | ND | 25.0 | 25.9 | ug/L | 104 | 60 - 149 |
| 1,1,2,2-Tetrachloroethane | ND | 25.0 | 24.0 | ug/L | 96 | 63 - 130 |
| Tetrachloroethene | ND | 25.0 | 25.2 | ug/L | 101 | 70 - 137 |
| Toluene | ND | 25.0 | 23.9 | ug/L | 95 | 70 - 130 |

TestAmerica Irvine

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

101

Lab Sample ID: 440-125626-1 MS

Matrix: Water

Analysis Batch: 291618

Client Sample ID: Subpart CC VOA #A

Prep Type: Total/NA

| - | Sample | Sample | Spike | MS | MS | | | | %Rec. |
|-----------------------------|-----------|-----------|----------|--------|-----------|------|---|------|---------------------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| trans-1,2-Dichloroethene | ND | • | 25.0 | 26.9 | | ug/L | | 108 | 70 - 130 |
| trans-1,3-Dichloropropene | ND | | 25.0 | 24.7 | | ug/L | | 99 | 70 ₋ 138 |
| 1,2,3-Trichlorobenzene | ND | | 25.0 | 25.3 | | ug/L | | 101 | 60 - 140 |
| 1,2,4-Trichlorobenzene | ND | | 25.0 | 26.5 | | ug/L | | 106 | 60 - 140 |
| 1,1,1-Trichloroethane | ND | | 25.0 | 26.4 | | ug/L | | 105 | 70 - 130 |
| 1,1,2-Trichloroethane | ND | | 25.0 | 24.8 | | ug/L | | 99 | 70 - 130 |
| Trichloroethene | ND | | 25.0 | 26.7 | | ug/L | - | 107 | 70 - 130 |
| Trichlorofluoromethane | ND | | 25.0 | 27.2 | | ug/L | | 109 | 60 - 150 |
| 1,2,3-Trichloropropane | ND | | 25.0 | 21.5 | | ug/L | | 86 | 60 - 130 |
| 1,2,4-Trimethylbenzene | ND | | 25.0 | 25.4 | | ug/L | | 101 | 70 - 130 |
| 1,3,5-Trimethylbenzene | ND | | 25.0 | 25.3 | | ug/L | | 101 | 70 - 130 |
| Vinyl acetate | ND | | 25.0 | 19.0 | ٠ | ug/L | | 76 | 23 - 150 |
| Vinyl chloride | ND | | 25.0 | 26.5 | | ug/L | | 106 | 50 - 137 |
| | MS | MS | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | |
| 4-Bromofluorobenzene (Surr) | 98 | | 80 - 120 | | | | | | |
| Dibromofluoromethane (Surr) | 102 | | 76 - 132 | | | | | | |

80 - 128

Lab Sample ID: 440-125626-1 MSD

Matrix: Water

Toluene-d8 (Surr)

Analysis Batch: 291618

Client Sample ID: Subpart CC VOA #A

Prep Type: Total/NA

| | Sample | Sample | Spike | MSD | MSD | | | %Rec. | | RPD |
|-----------------------------|--------|-----------|-------|--------|----------------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | ND | | 25.0 | 25,2 | ug/L | _ | 101 | 66 - 130 | 2 | 20 |
| Bromobenzene | ND | | 25.0 | 27.4 | ug/L | | 109 | 70 - 130 | 6 | 20 |
| Bromochioromethane | ND | | 25.0 | 27.0 | ug/L | | 108 | 70 - 130 | 4 | 25 |
| Bromodichloromethane | ND | | 25.0 | 27.2 | ug/L | | 109 | 70 - 138 | 7 | 20 |
| Bromoform | ND | | 25.0 | 30.9 | ug/L | | 118 | 59 - 150 | 13 | 25 |
| Bromomethane | ND | | 25.0 | 28.2 | ug/L | | 113 | 62 - 131 | 3 | 25 |
| Carbon disulfide | ND | | 25.0 | 26.4 | ug/L | | 105 | 49 - 140 | 3 | 20 |
| Carbon tetrachloride | ND | | 25.0 | 29.7 | ug/L | | 119 | 60 - 150 | 6 | 25 |
| Chlorobenzene | ND | | 25.0 | 25.5 | ug/L | | 102 | 70 - 130 | 5 | 20 |
| Chloroethane | ND | | 25.0 | 27.1 | ug/L | | 108 | 68 - 130 | 4 | 25 |
| Chloroform | ND | | 25.0 | 25.6 | ug/L | • | 102 | 70 - 130 | 4 | 20 |
| Chloromethane | ND | - | 25.0 | 27.3 | ug/L | | 109 | 39 - 144 | 2 | 25 |
| 2-Chlorotoluene | ND | | 25.0 | 27.1 | ug/L | | 108 | 70 - 130 | 6 | 20 |
| 4-Chlorotoluene | ND | | 25.0 | 26.4 | ug/L | | 106 | 70 - 130 | 2 | 20 |
| cis-1,2-Dichloroethene | ND | | 25.0 | 26.1 | ug/L | | 105 | 70 - 130 | 2 | 20 |
| cis-1,3-Dichloropropene | ND | | 25.0 | 27.6 | ug/L | | 110 | 70 - 133 | 10 | 20 |
| Dibromochloromethane | ND | | 25.0 | 28.6 | ug/L | | 114 | 70 - 148 | 10 | 25 |
| 1,2-Dibromo-3-Chloropropane | ND | | 25.0 | 26.3 | ug/L | | 105 | 48 - 140 | 9 | 30 |
| 1,2-Dibromoethane (EDB) | ND | | 25.0 | 27.9 | ug/L | | 112 | 70 - 131 | . 9 | 25 |
| Dibromomethane Y | ND | | 25.0 | 26.0 | tug/L | | 104 | 70 - 130 | 4 | 25 |
| 1,2-Dichlorobenzene | ND | | 25.0 | 26.3 | ug/L | | 105 | 70 - 130 | 1 | 20 |
| 1,3-Dichlorobenzene | ND | | 25.0 | 26.2 | ug/L | | 105 | 70 - 130 | 2 | 20 |
| 1,4-Dichlorobenzene | ND | | 25.0 | 25.6 | ug/L | | 103 | 70 - 130 | 1 | 20 |
| Dichlorodifluoromethane | ND | | 25.0 | 26.3 | ug/L | | 105 | 25 - 142 | 6 | 30 |

TestAmerica Irvine

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-125626-1 MSD

Matrix: Water

Analysis Batch: 291618

Client Sample ID: Subpart CC VOA #A

Prep Type: Total/NA

| 1,1-Dichloroethane | RPD |
|--|-------|
| 1,2-Dichloroethane | Limit |
| 1,1-Dichloroethene ND 25.0 26.5 ug/L 106 70-130 4 1,2-Dichloropropane ND 25.0 26.0 ug/L 104 69-130 5 1,3-Dichloropropane ND 25.0 26.2 ug/L 105 70-130 8 2,2-Dichloropropane ND 25.0 29.7 ug/L 119 69-138 4 1,1-Dichloropropane ND 25.0 29.7 ug/L 105 70-130 8 2,2-Dichloropropane ND 25.0 26.3 ug/L 102 70-130 8 2,2-Dichloropropane ND 25.0 26.3 ug/L 102 70-130 4 Ethylbenzene ND 25.0 25.5 ug/L 102 70-130 8 Hexachlorobutadiene ND 25.0 25.0 ug/L 100 10-150 2 Isopropylbenzene ND 25.0 27.1 ug/L 100 70-132 7 < | 20 |
| 1,2-Dichloropropane ND 25.0 26.0 ug/L 104 69-130 5 1,3-Dichloropropane ND 25.0 26.2 ug/L 105 70-130 8 2,2-Dichloropropane ND 25.0 29.7 ug/L 119 69-138 4 1,1-Dichloropropane ND 25.0 29.7 ug/L 105 64-130 4 Ethylbenzene ND 25.0 26.3 ug/L 102 70-130 8 Hexachlorobutadiene ND 25.0 25.5 ug/L 100 10-150 2 Isopropylbenzene ND 25.0 25.0 ug/L 100 10-150 2 Methylene Chloride ND 25.0 27.1 ug/L 108 70-132 7 Methylene Chloride ND 25.0 25.7 ug/L 100 52-130 4 n,p-Xylene ND 25.0 25.7 ug/L 103 70-133 4 < | 20 |
| 1,3-Dichloropropane ND 25.0 26.2 ug/L 105 70 - 130 8 2,2-Dichloropropane ND 25.0 29.7 ug/L 119 69 - 138 4 1,1-Dichloropropene ND 25.0 26.3 ug/L 105 64 - 130 4 Ethylbenzene ND 25.0 25.5 ug/L 102 70 - 130 8 Hexachlorobutadiene ND 25.0 25.0 ug/L 100 10 - 150 2 Isopropylbenzene ND 25.0 27.1 ug/L 100 10 - 150 2 Methylene Chloride ND 25.0 27.1 ug/L 108 70 - 132 7 Methylene Chloride ND 25.0 24.9 ug/L 100 52 - 130 4 m,p-Xylene ND 25.0 25.7 ug/L 100 52 - 130 4 Naphthalene ND 25.0 25.7 ug/L 91 60 - 140 10 | 20 |
| 2,2-Dichloropropane ND 25.0 29.7 ug/L 119 69-138 4 1,1-Dichloropropene ND 25.0 26.3 ug/L 105 64-130 4 Ethylbenzene ND 25.0 25.5 ug/L 102 70-130 8 Hexachlorobutadiene ND 25.0 25.0 ug/L 100 10-150 2 Isopropylbenzene ND 25.0 27.1 ug/L 108 70-132 7 Methylene Chloride ND 25.0 24.9 ug/L 100 52-130 4 m.p-Xylene ND 25.0 25.7 ug/L 100 52-130 4 Maphthalene ND 25.0 25.7 ug/L 103 70-133 4 N-Propylenzene ND 25.0 22.7 ug/L 91 60-140 10 n-Butylbenzene ND 25.0 25.1 ug/L 110 66-135 6 N | 20 |
| 1,1-Dichloropropene ND 25.0 26.3 ug/L 105 64 - 130 4 Ethylbenzene ND 25.0 25.5 ug/L 102 70 - 130 8 Hexachlorobutadiene ND 25.0 25.0 ug/L 100 10 - 150 2 Isopropylbenzene ND 25.0 27.1 ug/L 108 70 - 132 7 Methylene Chloride ND 25.0 24.9 ug/L 100 52 - 130 4 m,p-Xylene ND 25.0 25.7 ug/L 103 70 - 133 4 Naphthalene ND 25.0 22.7 ug/L 91 60 - 140 10 n-Butylbenzene ND 25.0 22.7 ug/L 100 61 - 149 0 N-Propylbenzene ND 25.0 25.1 ug/L 110 66 - 135 6 o-Xylene ND 25.0 27.4 ug/L 110 67 - 133 7 | 25 |
| Ethylbenzene ND 25.0 25.5 ug/L 102 70-130 8 Hexachlorobutadiene ND 25.0 25.0 ug/L 100 10-150 2 Isopropylbenzene ND 25.0 27.1 ug/L 108 70-132 7 Methylene Chloride ND 25.0 24.9 ug/L 100 52-130 4 m,p-Xylene ND 25.0 25.7 ug/L 103 70-133 4 Naphthalene ND 25.0 25.7 ug/L 91 60-140 10 n-Butylbenzene ND 25.0 25.1 ug/L 100 61-149 0 N-Propylbenzene ND 25.0 25.1 ug/L 100 61-149 0 N-Propylbenzene ND 25.0 27.4 ug/L 110 66-135 6 o-Xylene ND 25.0 25.0 ug/L 100 70-133 7 p-Isopropyltolu | 25 |
| Hexachlorobutadiene | 20 |
| Hexachlorobutadiene | 20 |
| Sopropylbenzene | 20 |
| Methylene Chloride ND 25.0 24.9 ug/L 100 52_130 4 m,p-Xylene ND 25.0 25.7 ug/L 103 70_133 4 Naphthalene ND 25.0 22.7 ug/L 91 60_140 10 n-Butylbenzene ND 25.0 25.1 ug/L 100 61_149 0 N-Propylbenzene ND 25.0 25.0 ug/L 110 66_135 6 o-Xylene ND 25.0 25.0 ug/L 100 70_133 7 p-Isopropyltoluene ND 25.0 26.6 ug/L 106 70_133 7 p-Isopropyltoluene ND 25.0 26.3 ug/L 106 70_133 5 sec-Butylbenzene ND 25.0 26.3 ug/L 105 67_134 5 Styrene ND 25.0 24.2 ug/L 105 67_130 7 tert-Butylbenzene< | 20 |
| Naphthalene ND 25.0 22.7 ug/L 91 60 - 140 10 n-Butylbenzene ND 25.0 25.1 ug/L 100 61 - 149 0 N-Propylbenzene ND 25.0 27.4 ug/L 110 66 - 135 6 o-Xylene ND 25.0 25.0 ug/L 100 70 - 133 7 p-Isopropyltoluene ND 25.0 26.6 ug/L 106 70 - 130 5 sec-Butylbenzene ND 25.0 26.3 ug/L 105 67 - 134 5 Styrene ND 25.0 24.2 ug/L 97 29 - 150 2 tert-Butylbenzene ND 25.0 27.2 ug/L 109 70 - 130 7 1,1,2-Tetrachloroethane ND 25.0 27.9 ug/L 111 60 - 149 7 1,1,2,2-Tetrachloroethane ND 25.0 27.4 ug/L 110 63 - 130 13 | 20 |
| Naphthalene ND 25.0 22.7 ug/L 91 60 - 140 10 n-Butylbenzene ND 25.0 25.1 ug/L 100 61 - 149 0 N-Propylbenzene ND 25.0 27.4 ug/L 110 66 - 135 6 o-Xylene ND 25.0 25.0 ug/L 100 70 - 133 7 p-Isopropyltoluene ND 25.0 26.6 ug/L 106 70 - 130 5 sec-Butylbenzene ND 25.0 26.3 ug/L 105 67 - 134 5 Styrene ND 25.0 24.2 ug/L 97 29 - 150 2 tert-Butylbenzene ND 25.0 27.2 ug/L 109 70 - 130 7 1,1,2-Tetrachloroethane ND 25.0 27.9 ug/L 111 60 - 149 7 1,1,2,2-Tetrachloroethane ND 25.0 27.4 ug/L 110 63 - 130 13 | 25 |
| n-Butylbenzene ND 25.0 25.1 ug/L 100 61 - 149 0 N-Propylbenzene ND 25.0 27.4 ug/L 110 66 - 135 6 o-Xylene ND 25.0 25.0 ug/L 100 70 - 133 7 p-Isopropyltoluene ND 25.0 26.6 ug/L 106 70 - 130 5 sec-Butylbenzene ND 25.0 26.3 ug/L 105 67 - 134 5 Styrene ND 25.0 24.2 ug/L 97 29 - 150 2 tert-Butylbenzene ND 25.0 27.2 ug/L 109 70 - 130 7 1,1,2-Tetrachloroethane ND 25.0 27.9 ug/L 111 60 - 149 7 1,1,2,2-Tetrachloroethane ND 25.0 27.4 ug/L 110 63 - 130 13 Tetrachloroethene ND 25.0 27.5 ug/L 110 70 - 137 9 | 30 |
| N-Propylbenzene ND 25.0 27.4 ug/L 110 66 - 135 6 o-Xylene ND 25.0 25.0 ug/L 100 70 - 133 7 p-Isopropyltoluene ND 25.0 26.6 ug/L 106 70 - 130 5 sec-Butylbenzene ND 25.0 26.3 ug/L 105 67 - 134 5 Styrene ND 25.0 24.2 ug/L 97 29 - 150 2 tert-Butylbenzene ND 25.0 27.2 ug/L 109 70 - 130 7 1,1,2-Tetrachloroethane ND 25.0 27.9 ug/L 111 60 - 149 7 1,1,2,2-Tetrachloroethane ND 25.0 27.4 ug/L 110 63 - 130 13 Tetrachloroethene ND 25.0 27.5 ug/L 110 70 - 137 9 | 20 |
| o-Xylene ND 25.0 25.0 ug/L 100 70 - 133 7 p-Isopropyltoluene ND 25.0 26.6 ug/L 106 70 - 130 5 sec-Butylbenzene ND 25.0 26.3 ug/L 105 67 - 134 5 Styrene ND 25.0 24.2 ug/L 97 29 - 150 2 tert-Butylbenzene ND 25.0 27.2 ug/L 109 70 - 130 7 1,1,2-Tetrachloroethane ND 25.0 27.9 ug/L 111 60 - 149 7 1,1,2,2-Tetrachloroethane ND 25.0 27.4 ug/L 110 63 - 130 13 Tetrachloroethene ND 25.0 27.5 ug/L 110 70 - 137 9 | 20 |
| p-Isopropyltoluene ND 25.0 26.6 ug/L 106 70 - 130 5 sec-Butylbenzene ND 25.0 26.3 ug/L 105 67 - 134 5 Styrene ND 25.0 24.2 ug/L 97 29 - 150 2 tert-Butylbenzene ND 25.0 27.2 ug/L 109 70 - 130 7 1,1,2-Tetrachloroethane ND 25.0 27.9 ug/L 111 60 - 149 7 1,1,2,2-Tetrachloroethane ND 25.0 27.4 ug/L 110 63 - 130 13 Tetrachloroethene ND 25.0 27.5 ug/L 110 70 - 137 9 | 20 |
| sec-Butylbenzene ND 25.0 26.3 ug/L 105 67 - 134 5 Styrene ND 25.0 24.2 ug/L 97 29 - 150 2 tert-Butylbenzene ND 25.0 27.2 ug/L 109 70 - 130 7 1,1,2-Tetrachloroethane ND 25.0 27.9 ug/L 111 60 - 149 7 1,1,2,2-Tetrachloroethane ND 25.0 27.4 ug/L 110 63 - 130 13 Tetrachloroethene ND 25.0 27.5 ug/L 110 70 - 137 9 | 20 |
| Styrene ND 25.0 24.2 ug/L 97 29.150 2 tert-Butylbenzene ND 25.0 27.2 ug/L 109 70.130 7 1,1,2-Tetrachloroethane ND 25.0 27.9 ug/L 111 60.149 7 1,1,2,2-Tetrachloroethane ND 25.0 27.4 ug/L 110 63.130 13 Tetrachloroethene ND 25.0 27.5 ug/L 110 70.137 9 | 20 |
| tert-Butylbenzene ND 25.0 27.2 ug/L 109 70 - 130 7 1,1,1,2-Tetrachloroethane ND 25.0 27.9 ug/L 111 60 - 149 7 1,1,2,2-Tetrachloroethane ND 25.0 27.4 ug/L 110 63 - 130 13 Tetrachloroethene ND 25.0 27.5 ug/L 110 70 - 137 9 | 35 |
| 1,1,1,2-Tetrachloroethane ND 25.0 27.9 ug/L 111 60-149 7 1,1,2,2-Tetrachloroethane ND 25.0 27.4 ug/L 110 63-130 13 Tetrachloroethene ND 25.0 27.5 ug/L 110 70-137 9 | 20 |
| 1,1,2,2-Tetrachloroethane ND 25.0 27.4 ug/L 110 63 - 130 13 Tetrachloroethene ND 25.0 27.5 ug/L 110 70 - 137 9 | 20 |
| Tetrachloroethene ND 25.0 27.5 ug/L 110 70 - 137 9 | 30 |
| - r | 20 |
| Toluene ND 25.0 25.5 ug/L 102 70 - 130 7 | 20 |
| trans-1,2-Dichloroethene ND 25.0 28.1 ug/L 113 70 130 4 | 20 |
| trans-1,3-Dichloropropene ND 25.0 27.2 ug/L 109 70 - 138 10 | 25 |
| 1,2,3-Trichlorobenzene ND 25.0 22.4 ug/L 90 60 - 140 12 | 20 |
| 1,2,4-Trichlorobenzene ND 25.0 23.8 ug/L 95 60 - 140 11 | 20 |
| 1,1,1-Trichloroethane ND 25.0 28.0 ug/L 112 70 - 130 6. | 20 |
| 1,1,2-Trichloroethane ND 25.0 27.0 ug/L 108 70 - 130 9 | 25 |
| Trichloroethene ND 25.0 27.4 ug/L 110 70 - 130 3 | 20 |
| Trichlorofluoromethane ND 25.0 28.9 ug/L 115 60 150 6 | 25 |
| 1,2,3-Trichloropropane ND 25.0 25.1 ug/L 101 60 - 130 15 | 30 |
| 1,2,4-Trimethylbenzene ND 25.0 25.5 ug/L 102 70 - 130 0 | 25 |
| 1,3,5-Trimethylbenzene ND 25.0 26.7 ug/L 107 70 - 130 5 | 20 |
| Vinyl acetate ND 25.0 20.3 ug/L 81 23 - 150 6 | 30 |
| Vinyl chloride ND 25.0 27.3 ug/L 109 50 - 137 3 | 30 |

| MSD | INSD |
|-----|------|
| | |

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 103 | | 80 - 120 |
| Dibromofluoromethane (Surr) | 105 | | 76 - 132 |
| Toluene-d8 (Surr) | 107 | | 80 - 128 |

QC Sample Results

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

TestAmerica Job ID: 440-125626-1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Lab Sample ID: MB 310-107866/20 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 107866

| | MB | MB | | | | | | | |
|-------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Ethanol | ND | | 10 | | mg/L | | | 11/09/15 12:44 | 1 |
| Isopropyl alcohol | ND | | 10 | | mg/L | | • | 11/09/15 12:44 | 1 |
| Methanol | ND | | 10 | | mg/L | | | 11/09/15 12:44 | 1 |
| 1-Propanol | ND | | 10 | | ma/L | | | 11/09/15 12:44 | 1 |

Lab Sample ID: MB 310-107866/4 Client Sample ID: Method Blank

Matrix: Water Prep Type: Total/NA

Analysis Batch: 107866

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Ethanol ND 10 mg/L 11/09/15 10:35 Isopropyl alcohol ND 10 mg/L 11/09/15 10:35 1 Methanol ND 10 mg/L 11/09/15 10:35 1-Propanol ND 10 mg/L 11/09/15 10:35

Lab Sample ID: LCS 310-107866/16 Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA

Analysis Batch: 107866

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec D Limits Ethanol 60.0 70.8 mg/L 118 80 - 120 Isopropyl alcohol 60.0 68.2 mg/L 114 80 - 120 Methanol mg/L 64.0 71.2 111 80 - 120 1-Propanol 70.0 78.9 mg/L 113 80 - 120

Lab Sample ID: 440-125626-1 MS Client Sample ID: Subpart CC VOA #A Matrix: Water Prep Type: Total/NA

Analysis Batch: 107866

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Ethanol ND 60.0 66.6 mg/L 111 80 - 120 Isopropyl alcohol ND 60.0 64.0 mg/L 107 80 - 120 Methanol ND 64.0 67.5 mg/L 105 80 - 120 1-Propanol 10 70.0 76.6 mg/L 95 80 - 120

Lab Sample ID: 440-125626-1 MSD Client Sample ID: Subpart CC VOA #A Prep Type: Total/NA

Matrix: Water

Analysis Batch: 107866

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Ethanol ND 60.0 68.6 mg/L 114 80 - 120 20 Isopropyl alcohol ND 60.0 65.6 mg/L 109 80 - 120 2 20 Methanol ND 64.0 69.1 mg/L 108 80 - 120 20 2 1-Propanol 10 80.6 70.0 mg/L 101 80 - 120 20

TestAmerica Irvine

QC Association Summary

Client: Evoqua Water Technologies eProcurement Project/Site: Subpart CC

TestAmerica Job ID: 440-125626-1

GC/MS VOA

Analysis Batch: 291618

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 440-125626-1 | Subpart CC VOA #A | Total/NA | Water | 8260B | |
| 440-125626-1 MS | Subpart CC VOA #A | Total/NA | Water | 8260B | |
| 440-125626-1 MSD | Subpart CC VOA #A | Total/NA | Water | 8260B | |
| 440-125626-2 | Subpart CC VOA #B | Total/NA | Water | 8260B | • |
| 440-125626-3 | Subpart CC VOA #C | Total/NA | Water | 8260B | |
| 440-125626-4 | Subpart CC VOA #D | Total/NA | Water | 8260B | |
| 440-125626-5 | Subpart CC VOA #E | Total/NA | Water | 8260B | |
| 440-125626-6 | Subpart CC VOA #F | Total/NA | Water | 8260B | |
| LCS 440-291618/4 | Lab Control Sample | Total/NA | Water | 8260B | |
| MB 440-291618/3 | Method Blank | Total/NA | Water | 8260B | |

GC VOA

Analysis Batch: 107866

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|---|
| 440-125626-1 | Subpart CC VOA #A | Total/NA | Water | 8015B | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| 440-125626-1 MS | Subpart CC VOA #A | Total/NA | Water | 8015B | |
| 440-125626-1 MSD | Subpart CC VOA #A | Total/NA | Water | 8015B | • |
| 440-125626-2 | Subpart CC VOA #B | Total/NA | Water | 8015B | |
| 440-125626-3 | Subpart CC VOA #C | Total/NA | Water | 8015B | |
| 440-125626-4 | Subpart CC VOA #D | Total/NA | Water | 8015B | |
| 440-125626-5 | Subpart CC VOA #E | Total/NA | Water | 8015B | |
| 440-125626-6 | Subpart CC VOA #F | Total/NA | Water | 8015B | |
| LCS 310-107866/16 | Lab Control Sample | Total/NA | Water | 8015B | |
| MB 310-107866/20 | Method Blank | Total/NA | Water | 8015B | |
| MB 310-107866/4 | Method Blank | Total/NA | Water | 8015B | |

Definitions/Glossary

Client: Evoqua Water Technologies eProcurement

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

Project/Site: Subpart CC

TestAmerica Job ID: 440-125626-1

Glossary

RPD

TEF

TEQ

| Abbreviation | These commonly used abbreviations may or may not be present in this report. | |
|----------------|---|---|
| n | Listed under the "D" column to designate that the result is reported on a dry weight basis | |
| %R | Percent Recovery | : |
| CFL | Contains Free Liquid | |
| CNF | Contains no Free Liquid | |
| DER | Duplicate error ratio (normalized absolute difference) | |
| Dil Fac | Dilution Factor | |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample | |
| DLC | Decision level concentration | |
| MDA | Minimum detectable activity | |
| EDL | Estimated Detection Limit | |
| MDC | Minimum detectable concentration | |
| MDL | Method Detection Limit | ź |
| ML | Minimum Level (Dioxin) | 2 |
| NC | Not Calculated | ŝ |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) | |
| PQL | Practical Quantitation Limit | |
| QC | Quality Control | |
| RER | Relative error ratio | |
| RL. | Reporting Limit or Requested Limit (Radiochemistry) | |

Relative Percent Difference, a measure of the relative difference between two points



Certification Summary

Client: Evoqua Water Technologies eProcurement

Project/Site: Subpart CC

TestAmerica Job ID: 440-125626-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|--------------------------|-----------------------------|------------|-------------------|-----------------|
| Alaska | State Program | 10 | CA01531 | 06-30-16 |
| Arizona | State Program | 9 | AZ0671 | 10-13-16 |
| California | LA Cty Sanitation Districts | 9 | 10256 | 01-31-16 * |
| California | State Program | 9 | 2706 | 06-30-16 |
| Guam | State Program | 9 | Cert. No. 12.002r | 01-23-16 |
| Hawaii | State Program | 9 | N/A | 01-29-16 |
| Kansas | NELAP Secondary AB | 7 | E-10420 | 07-31-16 |
| Nevada | State Program | 9 | CA015312007A | 07-31-16 * |
| New Mexico | State Program | 6 | N/A | 01-29-16 |
| Northern Mariana Islands | State Program | 9 | MP0002 | 01-29-16 |
| Oregon | NELAP | 10 | 4005 | 01-29-16 |
| USDA | Federal | | P330-09-00080 | 07-08-18 |

Laboratory: TestAmerica Cedar Falls

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------------------|---------------|------------|------------------|------------------------|
| AIHA-LAP, LLC | IHLAP | | 101044 | 11-01-16 |
| Georgia | State Program | 4 | N/A | 09-29-16 |
| Illinois | NELAP | 5 | 200024 | 11-29-15 |
| lowa | State Program | 7 | 007 | 12-01-15 |
| Kansas | NELAP | 7 | E-10341 | 01-31-15 * |
| Minnesota | NELAP | 5 | 019-999-319 | 12-31-15 |
| Minnesota (Petrofund) | State Program | 1 | 3349 | 08-22-16 |
| North Dakota | State Program | 8 | R-186 | 09-29-16 |
| Oregon | NELAP | 10 | IA100001 | 09-29-16 |
| Wisconsin | State Program | 5 | 999917270 | 08-31-16 |

TestAmerica Irvine

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11/10/2015

^{*} Certification renewal pending - certification considered valid.



| Test America ANALYTICAL TESTING CORPORATION | | | | Orla | hvil ía)
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| Client Name/Account #: | | | | | | <u> </u> | | | | | | | | · | | | | | | | (| Com | pliar | ice M | /lonite | oring' | ? | Yes | s N | lo |
| | POB 3308 / 252 | | ST | | | | | | | | | | | | | | | | | | I | Enfo | rcem | nent / | Actio | n? | | Yes | s N | lo |
| | PARKER, AZ 8 | | | ···· | | | | | | | | | | | | | Re | por | t To: | <u>Jar</u> | nes. | R.P | rovi | ins@ | <u>)Ev</u> | oqua | 1.CO | <u>m</u> | | |
| Project Manager: | | | | | | | | | | | | | | | | | lnv | oice | To: | | | | | | | | | | | |
| Telephone Number: | | <u> </u> | | | | _ Fa | x No | 0.: 9 | 928- | 669 | -577 | 5 | | | | | TA | Quo | te #; | | | | | | | | | | | _ |
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| Sampler Signature: | | | | | | | | | | | | | | | | | P | roje | ct #: | | | | | | | | | | | |
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| 440-125626 Chain of Custody | Date Sampled | Time Sampled | No. of Containers Shipped | Grab | Composite | Field Filtered | | HNO ₃ (Red Label) | (Blue Label) OH (Orange Label) | SO ₄ Pfastic (Yellow Label) | H ₂ SO ₄ Glass(Yellow Label) | ne (Black Label) | ier (Specify) | iai owateli
(er | nking Water | əбp | er (enecity): | 00 | 15 Alcohol Scan | | | | | | | | | 3H TAT (Pre-Schedule | Fax Results | d QC with report |
| Sample ID / Description | ä | F | ž | Ö | ပိ | i. | <u>5</u> | 준 : | ž ž | Ŧ | 光 | 힐 | 5 | 5 8 | ă | Sluc | S E | 826 | 80 | | | · | | | | | | RUS
F | F a | Sen |
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| Subpart CC VOA #C | 10/27/2015 | 9:00 AM | 3 | | | | | 23/886775 | | | | | | T VI | | | | | | | | | | | | | | | | 7 |
| Subpart CC VOA # D | 10/27/2015 | 9:00 AM | 3 | | | | | 1 X 2 Z X | | | | | | | | | \top | | | | | | | | | | П | | | |
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13

Login Sample Receipt Checklist

Client: Evoqua Water Technologies eProcurement

Job Number: 440-125626-1

List Source: TestAmerica Irvine

Login Number: 125626

List Number: 1

Creator: Escalante, Maria I

| Question | Answer | Comment |
|--|--------|---|
| adioactivity wasn't checked or is = background as measured by a urvey meter.</td <td>True</td> <td></td> | True | |
| he cooler's custody seal, if present, is intact. | True | |
| ample custody seals, if present, are intact. | True | |
| he cooler or samples do not appear to have been compromised or ampered with. | True | |
| amples were received on ice. | True | |
| ooler Temperature is acceptable. | True | |
| ooler Temperature is recorded. | True | |
| OC is present. | True | |
| OC is filled out in ink and legible. | True | |
| OC is filled out with all pertinent information. | True | |
| the Field Sampler's name present on COC? | True | |
| here are no discrepancies between the containers received and the COC. | False | Received Trip Blank(s) not listed on COC. |
| amples are received within Holding Time. | True | |
| ample containers have legible labels. | True | |
| ontainers are not broken or leaking. | True | |
| ample collection date/times are provided. | True | • |
| ppropriate sample containers are used. | True | · |
| ample bottles are completely filled. | True | , |
| ample Preservation Verified. | N/A | |
| nere is sufficient vol. for all requested analyses, incl. any requested S/MSDs | True | |
| ontainers requiring zero headspace have no headspace or bubble is 6mm (1/4"). | True | |
| ultiphasic samples are not present. | True | |
| amples do not require splitting or compositing. | True | |
| esidual Chlorine Checked. | N/A | |

Login Sample Receipt Checklist

Client: Evoqua Water Technologies eProcurement

Job Number: 440-125626-1

Login Number: 125626

List Number: 2

Creator: Worthy, Ashley L.

List Source: TestAmerica Cedar Falls List Creation: 10/29/15 10:41 AM

| Question | Answer | Comment |
|--|--------|---|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td>17 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10</td> | N/A | 17 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | · |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

13

Appendix KDischarge Permit Fact Sheet

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PROPOSED PERMIT FACT SHEET

Facility/ Permittee: Colorado River Sewage System Joint Venture

Mailing Address: 12501 West Agency Rd.

Parker, AZ 85344

Type of Facility: Publicly Owned Treatment Works

Facility Location: 12501 West Agency Rd.

Parker, AZ 85344

Contact Person(s): Andy Jones

General Manager

12501 West Agency Rd.

Parker, AZ 85344 (928) 669-9821

NPDES Permit No.: AZ0021415

I. STATUS OF PERMIT

On June 21, 2006, Colorado River Sewage System Joint Venture (CRSSJV) applied to the U.S. Environmental Protection Agency, Region 9 (US EPA) for renewal for its National Pollutant Discharge Elimination System (NPDES) permit for the discharge of the treated effluent from the existing CRSSJV wastewater treatment plant. The CRSSJV treatment facility is a publicly-owned treatment works (POTW) located in the Colorado River Indian Reservation. Pursuant to the EPA regulations set forth in Title 40, Code of Federal Regulations (CFR) Part 122.21, the effluent discharge was regulated under NPDES Permit No. AZ0021415, which became effective on October 30, 2001, and expired on October 30, 2006. All the terms and conditions of the 2001 permit are administratively extended until the reissuance of a new permit. This fact sheet is based on the facts presented by the applicant in both the application and any previous discharge data submitted, along with the appropriate laws and regulations. Pursuant to Section 402 of the Clean Water Act (CWA), the USEPA is proposing issuance of the NPDES permit renewal to CRSSJV (permittee) for the discharge of treated domestic wastewater to the Agency Road Irrigation Return Canal that flows to the Colorado River, a water of the U.S.

This permittee has been classified as a Major discharger.

II. GENERAL DESCRIPTION OF FACILITY

CRSSJV owns and operates the POTW servicing the Town of Parker, Arizona and the Colorado River Indian Tribes, with a total population of approximately 5,000. The POTW started operations in 1974 and has a design flow of 1.2 millions gallons per day (MGD). The treatment system consists of bar screens, contact stabilization tanks with secondary clarifiers, aerobic digestors, and ultraviolet disinfection with backup chlorination/dechlorination. Sludge is hauled off to a landfill.

CRSSJV does not have an approved pretreatment program but does maintain city codes and local limits to control the flow of industrial pollutants into the POTW. In the 2006 application, CRSSJV reported two significant industrial dischargers to the POTW – Siemens Water Technologies Inc. (formerly known as Westates Carbon-Arizona Inc.) and Custom Metal Finishing. Drum's Plating was previously listed in the 2001 permit fact sheet but is not found in the current application. According to the permittee, Drum's Plating ceased operations in 2005. Siemens Water Technologies' average daily volume of process wastewater is 140,000 gallons per day (GPD), which represents approximately 19 percent of the POTW's annual total flow of 750,000 GPD for the year of 2006. Custom Metal Finishing does not discharge any process wastewater.

III. DESCRIPTION OF RECEIVING WATER

The final treated effluent from the sewage treatment plant is discharged from Discharge Outfall No. 001 into the Agency Road Irrigation Return Canal, which flows about 10 miles before reaching the Colorado River. Any sampling and monitoring under the proposed permit shall be performed at Outfall No. 001.

| Discharge
Point No. | Latitude | Longitude | Description |
|------------------------|---------------|----------------|--|
| 001 | 34° 08' 36" N | 114° 18' 31" W | Primary discharge point is the Agency
Road Irrigation Return Canal which
flows approximately 10 miles before
reaching the Colorado River. |

Agency Road Irrigation Return Canal is not specifically listed in Appendix B [*List of Surface Waters and Tributaries*] of the 2008 Arizona Water Quality Standards; however, section R18-11-105 [*Tributaries*; *Designated Uses*] of the Arizona WQS states:

"For a surface water that is not listed in Appendix B but is a tributary to a listed surface water, is perennial or intermittent and is below 5000 feet, the aquatic and wildlife (warm water fishery) and fish consumption standards apply as well as the water quality standards that have been established for the nearest downstream surface water listed in Appendix B that is not an ephemeral water or an effluent dependent water."

And, section R18-11-104 [Designated Uses] states:

"If a surface water has more than one designated use listed in Appendix B, the most stringent water quality criterion applies."

The designated uses of the Colorado River from Topock Marsh to Morelos Dam are as follows:

A&Ww Aquatic & Wildlife, warm water

FBC Full Body Contact
DWS Domestic Water Supply
FC Fish Consumption
AgI Agricultural Irrigation

AgL Agricultural Livestock Watering

IV. DESCRIPTION OF DISCHARGE

A. Application Discharge Data

As part of the application for permit renewal, the permittee provided data from an analysis of the facility's treated wastewater discharge, shown in Table 1. This data, expressed only as maximum and average *daily* discharges, meets the existing permit maximum daily effluent limits shown in Table 2. However, as TDS was reported as the effluent gross value, it cannot be compared to the permit limit which is expressed as the incremental increase between the influent and effluent. Also, some of the parameters that were reported in the application are not limited in the existing permit (TKN, Nitrate+Nitrite as N, TP, Arsenic and Zinc).

Table 1. Application Discharge Data⁽¹⁾

| Parameter | Units | Maximum Daily
Discharge | Average Daily
Discharge |
|-----------------------------------|-------------------|----------------------------|----------------------------|
| рН | Standard
Units | 7.03-7.3 (min-max) | |
| Flow | MGD | 0.758 | 0.75 |
| Biochemical Oxygen Demand (5-day) | mg/L | 5 | 4.25 |
| E. Coli | cfu/100mL | 6 | 1.74 |
| Total Suspended Solids (TSS) | mg/L | 4 | 3.13 |
| Total Residual Chlorine | μg/L | ND | ND |
| Total Kjeldahl Nitrogen (TKN) | mg/L as N | 5.11 | 4.78 |
| Nitrate and Nitrite N | mg/L as N | 15 | 10.12 |
| Oil and Grease | mg/L | 1.1 | 0.83 |
| Total Phosphorus (TP) | mg/L as P | 2.85 | 2.52 |
| Total Dissolved Solids (TDS) (2) | mg/L | 1432 | 1351 |
| Arsenic | mg/L | 0.004 | 0.004 |
| Lead | mg/L | 0.04 | 0.04 |

| Parameter | Units | Maximum Daily
Discharge | Average Daily
Discharge |
|-----------|-------|----------------------------|----------------------------|
| Selenium | mg/L | 0.002 | |
| Zinc | mg/L | 0.05 | |

⁽¹⁾ All other data submitted on volatile organic compounds, acid-extractable compounds and baseneutral compounds were reported as below the detection limits used for each analysis.

⁽²⁾ TDS reported as effluent gross value (not incremental increase as required in permit and DMRs).

B. Recent Discharge Monitoring Report (DMR) Data (2004-2008)

Table 2 provides a summary of effluent limitations and monitoring data based on the facility's most recent 5 years of DMRs (2004 to 2008). The data shows elevated concentrations of total dissolved solids, oil and grease, lead and selenium. In addition, the highest maximum daily flow (1.38 MGD) exceeds the design capacity of the treatment system (1.2 MGD).

Table 2. Discharge Monitoring Report data for years 2004-2008.

| | | | | | | | | | quirements |
|---|--------------------|--|---|---|-------------------------------|------------------------------|-----------------------------|-------------------------|----------------|
| Parameter | Units | Average
Monthly | Average
Weekly | Maximum
Daily | Highest
Average
Monthly | Highest
Average
Weekly | Highest
Maximum
Daily | Monitoring
Frequency | Sample
Type |
| Flow Rate | MGD | Monitoring
Only | Monitoring
Only | Monitoring
Only | 0.87 | | 1.38 | Continuous | Continuous |
| | mg/L | 30 | 45 | Monitoring
Only | 8.0 | 8.0 | 10 | | |
| | kg/day | 136 | 204 | 408 | 25 | | 31 | | |
| Biochemical Oxygen
Demand
(5-day) | Percent
Removal | monitored. The values, by conc collected over a exceed 15 perce concentration, f approximately t | at and the effluer arithmetic mean entration, for eff calendar month of the arithmetor influent samp the same times dent BOD remova | n of the BOD
luent samples
shall not
etic mean, by
les collected at
uring the same | | 96-97
(min-max) | | 2/Month | Composite |
| Total Suspended Solids | mg/L | 30 | 45 | Monitoring
Only | 16 | 16 | 20 | 2/Month | Composite |
| | kg/day | 136 | 204 | 408 | 50 | | 61 | | |

| | Percent
Removal | monitored. The values, by conce collected over a exceed 15 perce concentration, f approximately t period (85 perce) | arithmetic mear
entration, for effi-
calendar month
ent of the arithme-
or influent samp
he same times di
ent TSS removal | n of the TSS
luent samples
shall not
etic mean, by
les collected at
uring the same
). | | 90-99
(min-max) | | | | |
|--|--------------------|---|---|---|------------------|--------------------|-----|------------|-----------|--|
| рН | Standard
Units | | Not > 9.0 SU; d
in receiving water
0.5 SU | | 6.8
(minimum) | | 7.4 | 1/Week | Discrete | |
| E. coli | cfu/
100 mL | 130 | | 580 | 30.6 | | 440 | 1/Week | Discrete | |
| Total Dissolved Solids ⁽¹⁾ | mg/L | Incremental in | crease not to exc | ceed 400mg/L. | 582 | | 737 | 2/Month | Discrete | |
| Total Residual Chlorine ⁽²⁾ | μg/L | 5 | 1 | 11 | ND | | ND | 1/Day | Discrete | |
| | kg/day | 45.4 | 68.1 | | 83.5 | 83.5 | | | | |
| Oil and Grease | mg/L | 10 | 15 | | 22 | 22 | | 1/Month | Discrete | |
| Beryllium | kg/day | 0.95 | - | 18 | ND | | ND | 1/Month | Composite | |
| | μg/L | 0.21 | | 4 | ND | | ND | | | |
| Cadmium | kg/day | 14 | | 318 | ND | | ND | 1/Month | Composite | |
| Cadmun | μg/L | 3.0 | | 70 | ND | | ND | 1/Worth | Composite | |
| Lead | kg/day | 68 | | 1753 | 9.0 | | 9.0 | 1/Month | Composite | |
| Lead | μg/L | 15 | | 386 | 40 | | 40 | 1/1VIOIIUI | Composite | |
| Mercury | kg/day | 0.045 | | 11 | ND | | ND | 1/Month | Composite | |

| | μg/L | 0.01 |
2.4 | ND | | ND | | | |
|----------------------|--------|------|---------|--------|----|--------|----------------|-----------|--|
| Selenium | kg/day | 9.1 |
91 | 0.0069 | | 0.0069 | 1/Month | Composito | |
| Selemum | μg/L | 2.0 |
20 | 3.0 | -1 | 3.0 | 1/MOHH | Composite | |
| G :1 | kg/day | 44 |
186 | ND | | ND | 1/Month | Composito | |
| Cyanide | μg/L | 9.7 |
41 | ND | | ND | 1/MOHHI | Composite | |
| Bis(2- | kg/day | 27 |
454 | ND | | ND | 2/Year | Composito | |
| ethylhexyl)phthalate | μg/L | 6 |
100 | ND | | ND | 2/ Tear | Composite | |

⁽¹⁾ TDS reported as incremental increase values as required by permit limit. TDS effluent gross values also provided in monthly DMRs, but cannot be compared to permit limits.

⁽²⁾ Total Residual Chlorine monitoring only required if UV system not operational. Over the permit term, monitoring was only required 4 times and resulted in non-detects.

Numeric receiving water limitations for **temperature** (no more than 3 degrees Celsius), **dissolved oxygen** (DO) (not lower than 6 mg/L or 90% saturation), and **turbidity** (not higher than 50 NTU) were included in the previous permit, but no receiving water data was reported.

C. Siemens Water Technologies Inc.'s Discharge Data

Siemens Water Technologies is a carbon reactivation facility that discharges process wastewater (140,000 GPD) and non-process wastewater (1,000 GPD) to the permittee's treatment system. The facility's process wastewater flow represents about 19 percent of the POTW's flow, thus discharge data from this industrial user is important for the purposes of developing this NPDES permit. Although the POTW is not required to implement a formal pretreatment program, Siemens Water Technologies is subject to the general pretreatment regulations found in 40 CFR Part 403, and also categorical pretreatment standards, specifically the centralized waste treatment point source category in 40 CFR Part 437.

Pursuant to the reporting requirements in 40 CFR § 403.12(e), Siemens Water Technologies provided effluent discharge data for December 2008, which included an analysis of a variety of metals, organics, and oil and grease. Specific effluent limitations for metals and organics applicable to this industrial user are found in Subpart D - *Multiple Wastestreams* of 40 CFR Part 437. All metals analyzed, including cadmium, lead, and mercury, which are parameters limited by the POTW's current permit, were below detection limits for the analysis. Results of the organics, including bis(2-ethylhexyl)phthalate, were also below the detection limits for the analysis. Of the four oil and grease samples, the highest result was 8.5 mg/L, which is below the effluent limits required by Subpart B - *Oils Treatment and Recovery* (40 CFR § 437.21).

Past reports (March 2004, June 2004, June 2005, and June 2006) indicate that measurable concentrations of arsenic were present in the effluent, typically around 0.012 mg/l, but as high as 0.02 mg/l. These concentrations of arsenic are below the effluent limits required by Subpart D – Multiple Wastestreams (40 CFR § 437.46(b)). Concentrations of vanadium (0.031 mg/l) and chromium (0.005 mg/l) were also detected in June 2006 and 2005, respectively, and both of these are below the limits required by this Subpart.

It should be noted that Siemens was cited for RCRA violations in 2006 for failure to close containers of hazardous waste, failure to provide adequate secondary containment, and failure to adequately record observations and repairs during facility inspections. The facility has since complied with all of the requirements of the Penalty Order. Due to the facility's history of violations and the potential for the facility to be increasing the concentrations of metals, such as arsenic, at the POTW, the proposed permit includes new pretreatment monitoring and reporting requirements.

V. SIGNIFICANT CHANGES TO PREVIOUS PERMIT

The previous permit contained daily maximum mass-based limits for BOD and TSS. These limits are redundant as the average monthly and weekly effluent limits are more stringent, and therefore more protective of water quality standards. Thus, the daily maximum limits for BOD and TSS have been eliminated from the proposed permit.

Effluent limits for total chlorine residual, beryllium, cadmium, mercury, cyanide and bis (2-ethylhexyl) phthalate that were included in the previous permit have been eliminated in the proposed permit as *no* reasonable potential to exceed water quality standards for these pollutants was found based on 5 years of effluent data. Monitoring as part of the priority pollutants scans is still required.

New limits for arsenic, boron, fluoride, and nitrate/nitrite as N are being proposed as reasonable potential to exceed water quality standards for these pollutants *was* found based on application and priority pollutant scan data. Monitoring for these pollutants will be required monthly. Also, based on WET test data, new limits for chronic whole effluent toxicity have also been proposed with continued semi-annual monitoring.

The WQBELs for lead and selenium have been re-calculated according to the statistical permit limit derivation procedures in Section 5.4 of EPA's TSD in order to provide the most protective WQBELs with regard for the variation in the effluent data. This resulted in WQBELs that are more stringent than the WQBELs required in the previous permit.

Lastly, the proposed permit includes new pretreatment monitoring requirements.

VI. DETERMINATION OF NUMERICAL EFFLUENT LIMITATIONS

The Clean Water Act (CWA) requires point source dischargers to control the amount of pollutants that are discharged to waters of the U.S. The control of pollutants is established through effluent limitations and other requirements in NPDES permits. When determining effluent limitations, EPA must consider limitations based on the technology used to treat the pollutant(s) (i.e., technology-based effluent limits) and limitations that are protective of water quality standards (i.e., water quality-based effluent limits).

A. Applicable Technology-based Effluent Limitations

EPA developed technology-based treatment standards for municipal wastewater treatment plants in accordance with Section 301(b)(1)(B) of the Clean Water Act. The minimum levels of effluent quality attainable by secondary treatment for Biochemical Oxygen Demand (BOD), Total Suspended Solids (TSS), and pH, as defined in 40 CFR 133.102, are:

- BOD: 30 mg/L as a 30-day ("monthly") average, 45 mg/L as a 7-day ("weekly") average, and 85% removal efficiency;
- TSS: 30 mg/L as a 30-day ("monthly") average, 45 mg/L as a 7-day ("weekly") average, and 85% removal efficiency;
- pH: Must range from 6.0 9.0 standard units as an instantaneous maximum.

In accordance with 40 CFR 133, technology-based effluent limitations are proposed for BOD, TSS, and pH based on secondary treatment requirements for municipal wastewater

treatment facilities. These requirements are performance-based and represent the degree of effluent reduction achievable using available wastewater treatment technology.

Currently, Colorado River Indian Tribes (CRIT) does not have EPA-approved surface water quality standards. As the discharge may eventually flow into the Colorado River, the discharge must meet those downstream standards established by the State of Arizona. In conjunction with federal requirements, Section R18-11-109 of the 2008 Arizona WQS provides applicable numeric water quality standards. Federal regulation requires that when establishing effluent limitations, the more stringent of the technology and water-quality based limitations applies. Table 3 provides a summary of proposed technology-based effluent limitations for Discharge Point No. 001.

Table 3. Summary of Proposed Technology-Based Effluent Limitations⁽¹⁾

| | | P | Proposed Te | chnology-Bas | ed Effluent Limita | ations | | | | | | |
|----------------------------|--------------------|---|-------------------------|------------------|--------------------------|--------------------------|--|--|--|--|--|--|
| Parameter | Units ¹ | Average
Monthly | Average
Weekly | Maximum
Daily | Instantaneous
Minimum | Instantaneous
Maximum | | | | | | |
| Biochemical | mg/L | 30 | 45 | | | | | | | | | |
| Oxygen
Demand | kg/day | 136 | 204 | | | | | | | | | |
| (5-day) | The 30-day a | verage percent | removal shall | not be less that | n 85 percent. | | | | | | | |
| Total | mg/L | 30 | 45 | | | | | | | | | |
| Suspended | kg/day | 136 | 204 | | | | | | | | | |
| Solids | The 30-day a | The 30-day average percent removal shall not be less than 85 percent. | | | | | | | | | | |
| E. Coli | CFU/
100 mL | 126 | | | | 235 | | | | | | |
| Oil and Grease | mg/L | 10 | 15 | | | | | | | | | |
| On and Grease | kg/day | 45.4 | 68.1 | | | | | | | | | |
| pН | Standard
Units | | | | 6.5 | 9.0 | | | | | | |
| Total Chlorine
Residual | μg/L | | | | | | | | | | | |
| Total Dissolved
Solids | mg/L | Incrementa | ol increase no 400mg/L. | ot to exceed | | | | | | | | |

⁽¹⁾ Mass-based limits derived given a design flow of 1.2 MGD.

1. **Biochemical Oxygen Demand**. Pursuant to 40 CFR 133.102, effluent limitations are proposed for BOD. Secondary treatment requirements provide that effluent concentrations of BOD shall not exceed 30 mg/L on a 30-day average and not exceed 45 mg/L based on a 7-day average. In addition, the 30-day average percent removal shall not be less than 85 percent. Based on the facility's design flow of 1.2 MGD per day, EPA also proposes a mass-based monthly average effluent limitation of 136 kg/day and a weekly average effluent limitation of 204 kg/day for BOD. A daily maximum mass-based

- limit was included in the previous permit (408 kg/day), but it has been dropped in the proposed permit as it is redundant. The monthly and weekly average limits are more stringent and the DMRs show that the facility is capable of achieving those limits.
- 2. Total Suspended Solids. Pursuant to 40 CFR 133.102 and Arizona WQS Section R18-11-109D, effluent limitations are proposed for TSS. Secondary treatment requirements provide that effluent concentrations of TSS shall not exceed 30 mg/L on a 30-day average and 45 mg/L on 7-day average. In addition, the 30-day average percent removal shall not be less than 85 percent. Arizona WQS requires that the median value of suspended sediments of a minimum of four samples collected at least seven days apart shall be 80 mg/L for Aquatic & Wildlife, warm water. Federal regulation requires that when establishing effluent limitations, the more stringent of the technology and water-quality based limitations applies. Therefore, EPA proposes the average monthly effluent limitation of 30 mg/L and an average weekly effluent limitation of 45 mg/L. Based on the facility's design flow of 1.2 MGD per day, EPA also proposes a mass-based monthly average effluent limitation of 136 kg/day and a weekly average effluent limitation of 204 kg/day for TSS. Narrative water quality standards for suspended solids (Arizona WQS R18-11-108C) are also included in the proposed permit. A daily maximum mass-based limit (408 kg/day), was included in the previous permit, but it has been dropped in the proposed permit as it is redundant. The monthly and weekly average limits are more stringent and the DMRs show that the facility is capable of achieving those limits.
- 3. *E. Coli* bacteria. Section R18-11-109A of the Arizona WQS provides requirements for bacteria for Full Body Contact. Arizona WQS requires that the geometric mean of the E. Coli values for effluent samples collected (a minimum of 4 samples in 30 consecutive days) shall not exceed 126 colony forming units (CFU) per 100 mL of water, and that the single sample maximum shall not exceed 235 cfu/100mL of water. The 2001 permit required a 130 cfu/100mL 30-day geometric mean and a 580 cfu/100mL single sample maximum. The Arizona WQS have since been revised (2008) and the proposed permit has incorporated this change.
- 4. **pH**. 40 CFR 133.102(c) provides secondary treatment requirements for pH, which state effluent values for pH shall be maintained within the limits of 6.0 and 9.0 standard units. Section R18-11-109B of the Arizona WQS requires that pH be maintained within the limits of 6.5 and 9.0. Federal regulation requires that when establishing effluent limitations, the more stringent of the technology and water-quality based limitations applies. Based on effluent monitoring data, pH values ranged between 6.8 and 7.4 standard units. Therefore, since the facility has been performing at the required level established in the existing permit, EPA proposes to retain the existing pH limitation in the draft permit that the pH level of the effluent shall be not less than 6.5 or greater than 9.0 standard units in the draft permit.
- 5. Oil & Grease. Oil and grease are common components of domestic wastewater. Section R18-11-108B of the Arizona WQS provides narrative standards that state that a surface water shall not contain oil, grease, or other pollutant that floats as debris, foam, or scum; or that causes a film or iridescent appearance on the surface of the water; or that cause a deposit on a shore-line, bank, or aquatic vegetation. The discharge of lubricating oil or gasoline associated with the normal operation of a recreational watercraft is not a

violation of this narrative standard. However, Arizona WQS do not provide a numeric water quality standard for oil and grease. Therefore, EPA proposes effluent limitations for oil and grease based on EPA's Best Professional Judgment (BPJ) related to the development of technology-based effluent limits since (1) there are no applicable effluent limitation guidelines and performance standards for oil and grease, and (2) similar domestic wastewater treatment facilities have shown that an average weekly limit of 15 mg/l and an average monthly limit of 10 mg/l can be easily achieved. Section 402(a)(1) of the CWA provides for the establishment of BPJ-based effluent limits when effluent limitation guidelines and performance standards are not available for a pollutant of concern. As in the 2001 permit, EPA proposes an average weekly limitation of 15 mg/l and an average monthly limitation of 10 mg/L for oil and grease. These limits are consistent with similar facilities that treat domestic wastewater in EPA Region IX. Also, based on a design flow of 1.2 MGD, EPA proposes a mass-based AWL and AML of 45.4 and 68.1 kg/day. In addition to the technology-based effluent limits, the narrative standard (Arizona WQS R18-11-108), is included in the proposed permit. The DMRs have shown that the facility has exceeded the BPJ-based numeric limits on at least one occasion over the last five years.

- 6. **Settleable Solids**. The minimum levels of effluent quality attainable by secondary treatment for Settleable Solids, as specified in the EPA Region IX Policy memo dated May 14, 1979, are listed as:
 - Settleable Solids: 1 mL/L as a 30-day ("monthly") average, 2 mL/L daily maximum,

The 2001 permit did not contain limitations for settleable solids with the justification that "EPA Region 9 believes that settleable solids data do not generally provide information beyond that provided by the total suspended solids data." In addition, the DMR data for October 2000 through October 2001 included settleable solids monitoring, which resulted in no exceedances of the limits specified in the 1979 EPA Region IX Policy memo. Therefore, a limit for settleable solids is not included in the proposed permit.

- 7. **Total Chlorine Residual**. Chlorination for disinfection is used only as an emergency back-up system when the UV system is not operational. Thus, monitoring and reporting are only required when the chlorination/dechlorination system is operational. The 2008 Arizona WQS require that total chlorine residual concentrations do not exceed 11 µg/L for the protection of aquatic and wildlife warm water fisheries from chronic exposure and do not exceed 19 µg/L for acute exposure. The previous permit contained limits for total chlorine residual; however based on the reasonable potential analysis (see RP table below), which included 4 data points over 5 years, EPA has determined that the discharge does not have reasonable potential to cause or contribute to an exceedance for total chlorine residual. Therefore, EPA proposes to eliminate the limits imposed in the previous permit. However, monitoring will still be required at times when the chlorination/dechlorination system is being used.
- 8. **Total Dissolved Solids**. The facility reported both effluent gross values and incremental increase values for TDS. Because of the plant's influent having a high concentration of TDS, an incremental increase limit of 400 mg/L was required in the previous permit, to be calculated as the increase between the TDS levels in the community's water supply

and the levels in the plant effluent. The DMRs show that the facility was unable to meet the previous permit incremental increase limit and that the effluent gross values for TDS exceed water quality standards. This limit is retained in the proposed permit. Section R18-11-110 of the Arizona WQS provides Salinity Standards for the Colorado River. The flow-weighted average annual salinity in the lower main stem of the Colorado River shall not exceed 747 mg/L below Parker Dam. In addition and specifically for municipal dischargers, Appendix A of the 2005 Review, Water Quality Standards for Salinity, Colorado River System requires that the discharge not exceed an incremental increase of 400 mg/L TDS.

B. Water Quality-Based Effluent Limitations ("WQBELs")

Water quality-based effluent limitations, or WQBELS, are required in NPDES permits when the permitting authority determines that a discharge causes, has the reasonable potential to cause, or contributes to an excursion above any water quality standard. (40 CFR 122.44(d)(1))

When determining whether an effluent discharge causes, has the reasonable potential to cause, or contributes to an excursion above narrative or numeric criteria, the permitting authority shall use procedures which account for existing controls on point and non point sources of pollution, the variability of the pollutant or pollutant parameter in the effluent, the sensitivity of the species to toxicity testing (when evaluating whole effluent toxicity) and where appropriate, the dilution of the effluent in the receiving water. (40 CFR 122.44 (d) (1) (ii)).

EPA evaluated the reasonable potential to discharge toxic pollutants according to guidance provided in the *Technical Support Document for Water Quality-Based Toxics Control* (TSD) (Office of Water Enforcement and Permits, U.S. EPA, March 1991) and the *U.S. EPA NPDES Permit Writers Manual* (Office of Water, U.S. EPA, December 1996). These factors include:

- 1. Applicable standards, designated uses and impairments of receiving water
- 2. Dilution in the receiving water
- 3. Type of industry
- 4. History of compliance problems and toxic impacts
- 5. Existing data on toxic pollutants Reasonable Potential analysis

1. Applicable standards, designated uses and impairments of receiving water

Currently, Colorado River Indian Tribes (CRIT) does not have EPA-approved surface water quality standards. As the discharge may eventually flow into the Colorado River, the discharge must meet those downstream standards established by the State of Arizona Water Quality Standards found in Title 18, Chapter 11 of the Arizona Administrative Code. At this time, the proposed 2008 Arizona Water Quality Standards have been partially approved by EPA. For those parts, the proposed permit cites the 2008 standards and

for those that have not been approved so far, the proposed permit cites the 2003 standards.

The receiving water is not listed as impaired according to the CWA Section 303(d) List of Water Quality Limited Segments. The designated uses are listed above in Section III. *Description of Receiving Water*.

Applicable water quality standards establish water quality criteria for the protection of aquatic wildlife from acute and chronic exposure to certain metals that are hardness dependent, with a "cap" of 400 mg/l. Based on available hardness data for the discharge, the permit establishes water quality standards for these metals based on a hardness value of 338.8 mg/L. This value, used in the previous permit, is based on STORET data for the Colorado River Indian Tribe main drainage canal, and is consistent with more recent (2004) values found in STORET for the La Paz area.

2. Dilution in the receiving water

Arizona's water quality standards require that water quality standards be achieved without mixing zones unless the Permittee applies and is approved for a mixing zone (R18-11-114). Thus, no dilution was applied in determining water quality-based effluent limits in the proposed permit.

3. Type of Industry

Typical pollutants of concern in untreated and treated domestic wastewater include ammonia, nitrate, oxygen demand, pathogens, temperature, pH, oil and grease, and solids. Chlorine and turbidity may also be of concern due to treatment plant operations.

4. History of compliance problems and toxic impacts

The DMR data shows elevated concentrations of total dissolved solids (TDS), oil and grease, lead and selenium. In addition, the highest maximum daily flow (1.38 MGD), for the month of December 2004, exceeds the design capacity of the treatment system (1.2 MGD). Effluent limits for the above parameters will be included in the proposed permit, excluding flow. Monitoring of flow will still be required. This facility also has a history of oil and grease compliance issues, but in the last five years, only had one exceedance of the BPJ-based permit limits.

The facility continues to have difficulty in complying with the TDS water quality standard, including the incremental increase requirement. As the permittee already has an understanding of the potential source of high TDS in the facility's influent, **EPA** recommends the permittee do outreach in the local community regarding water softener systems in order to decrease this source of high TDS.

5. Existing data on toxic pollutants

For pollutants with effluent data available, EPA has conducted a reasonable potential analysis based on statistical procedures outlined in EPA's *Technical Support Document for Water Quality-based Toxics Control* herein after referred to as EPA's TSD (EPA 1991). These statistical procedures result in the calculation of the projected maximum effluent concentration based on monitoring data to account for effluent variability and a limited data set. The projected maximum effluent concentrations were estimated assuming a coefficient of variation of 0.6 for n<10, and the 99 percent confidence interval of the 99th percentile based on an assumed lognormal distribution of daily effluent values (sections 3.3.2 and 5.5.2 of EPA's TSD). For n>10, the CV was calculated as the standard deviation/mean for each parameter. EPA calculated the projected maximum effluent concentration for each pollutant using the following equation:

Projected maximum concentration = $C_e \times reasonable potential multiplier factor$.

Where, "C_e" is the reported maximum effluent value and the multiplier factor is obtained from Table 3-1 of the TSD.

Table 4. Summary of Reasonable Potential Statistical Analysis (1)

| Parameter | Maximum Observed Concentration (μg/L) or other | n | CV | RP
Multiplier | Projected
Maximum
Effluent
Concentration
(µg/L) or other | Most Stringent Water Quality Criterion ⁽²⁾ (µg/L) or other | Statistical
Reasonable
Potential? |
|------------------------------|--|----|------|------------------|--|---|---|
| E. Coli | 440
cfu/100mL | 59 | 1.9 | 3.0 | 1320
cfu/100mL | 126
cfu/100mL | Yes |
| Total Dissolved
Solids | 737 mg/L
incremental
increase | 59 | 0.3 | 1.3 | 958 mg/L
incremental
increase | 747 mg/L | Yes |
| Total Residual
Chlorine | ND ⁽³⁾ | 4 | 1 | | - | 11 | No |
| Beryllium | ND ⁽³⁾ | 59 | 1 | | 1 | 4 | No |
| Cadmium | ND | 59 | - | | | 1.31 | No |
| Lead | 40 | 59 | 1.22 | 2.3 | 92 | 9.23 | Yes |
| Mercury | ND | 59 | 1 | | 1 | 0.01 | No |
| Selenium | 3 | 59 | 0.22 | 1.2 | 3.6 | 2.0 | Yes |
| Cyanide | ND | 59 | | | | 9.7 | No |
| Bis (2-ethylhexyl) phthalate | ND | 11 | | | | 6 | No |

| Arsenic | 4 | 3 | 0.6 | 13.2 | 22.4 | 10 | Yes |
|---|-----------------------|---|-----|------|----------------------|---------------------|-----|
| Zinc | 50 | 3 | 0.6 | 13.2 | 280 | 329.7 | No |
| Barium | 30 | 1 | 0.6 | 13.2 | 396 | 2,000 | No |
| Boron | 660 | 1 | 0.6 | 13.2 | 8,712 | 630 | Yes |
| Iron | 60 | 1 | 0.6 | 13.2 | 792 | 1,000 | No |
| Magnesium | 21,300 | 1 | 0.6 | 13.2 | 281,160 | N/A ⁽⁴⁾ | |
| 1-(2-
Methoxypropoxy)-
2-propanol | 69 | 1 | 0.6 | 13.2 | 910.8 | N/A | |
| Fluoride | 2,100 | 1 | 0.6 | 13.2 | 27,720 | 4,000 | Yes |
| Nitrate + Nitrite N | 15,000 | 1 | 0.6 | 13.2 | 198,000 | 10,000 | Yes |
| Phosphorus, total | 2,850 | 1 | 0.6 | 13.2 | 37,620 | N/A | |
| Sulfate | 321,000 | 1 | 0.6 | 13.2 | 4,237,200 | N/A | |
| TKN | 5,110 | 1 | 0.6 | 13.2 | 67,452 | N/A | |
| Whole Effluent
Toxicity, chronic | $1.0~\mathrm{TU_{C}}$ | 1 | 0.6 | 13.2 | 13.2 TU _C | 1.0 TU _C | Yes |

⁽¹⁾ Parameters considered for RP analysis were parameters found in the previous permit, application for permit renewal, and the 2006 priority pollutant scan.

C. Rationale for Effluent Limits - Reasonable Potential Analysis

EPA evaluated the typical pollutants expected to be present in the effluent and selected the most stringent of applicable technology-based standards or water quality-based effluent limitations. Where effluent concentrations of toxic parameters are unknown or are not reasonably expected to be discharged in concentration that have the reasonable potential to cause or contribute to violations of water quality standards, EPA may establish monitoring requirements in the permit. Where monitoring is required, data will be re-evaluated and the permit may be re-opened to incorporate effluent limitations as necessary.

Flow. No limits established for flow, but flow rates must be monitored and reported. Monitoring is required weekly.

Beryllium. The previous permit contained limits for beryllium; however based on the reasonable potential analysis, which included 59 data points over 5 years, EPA has determined that the discharge does not have reasonable potential to cause or contribute to an exceedance for beryllium. In addition, the method detection limit (MDL) is low enough at

⁽²⁾Water Quality Standards are based on 2003 AWQS unless specific pollutant is part of proposed 2008 standards that have been so far approved by EPA.

⁽³⁾ Non-Detects are considered zeroes for the purposes of the RP analysis.

⁽⁴⁾No water quality-based effluent limit or standard available for the RP analysis.

 $2\mu g/L$ (smaller than the most stringent water quality standard at $4\mu g/L$ for Domestic Water Supply designated use) to adequately detect exceedances. Therefore, EPA proposes to eliminate the limits imposed in the previous permit. Monitoring for beryllium is still required as part of the twice yearly priority pollutant scans.

Cadmium. The previous permit contained limits for cadmium; however based on the reasonable potential analysis, which included 59 data points over 5 years, EPA has determined that the discharge does not have reasonable potential to cause or contribute to an exceedance for cadmium. One thing to consider, though, is that the method detection limit (MDL) is *not* low enough at 2μg/L (which is larger than the most stringent WQS at 1.31μg/L for Aquatic and wildlife, warmwater, chronic designated use) to adequately detect exceedances. This WQS is based on a hardness of 339mg/L. Therefore, EPA proposes to eliminate the limits imposed in the previous permit, but monitoring is still required as part of the twice yearly priority pollutant scans. The EPA recommends the permittee search for a way to increase the sensitivity of the MDL for this parameter to below the most stringent WQS.

Lead. Based on the reasonable potential analysis, EPA has determined that the discharge has a reasonable potential to cause or contribute to an exceedance for lead. Therefore, the proposed permit contains effluent limits for lead based on chronic and acute WQS for the protection of the Aquatic and wildlife, warmwater designated use with a hardness value of 339mg/L. The WQBEL calculations are shown in the following table, resulting in a maximum daily limit (MDL) of 27.83 μ g/L and an average monthly limit (AML) of 10.29 μ g/L. A coefficient of variation of 1.2 (based on the standard deviation divided by the mean of the lead effluent data) was used to determine each multiplier. Monitoring is required monthly.

Table 5. WOBEL Calculations for Lead.

| | Acute | Chronic ¹ |
|---|--------|----------------------|
| Freshwater Aquatic Life Criteria, µg/L | 236.82 | 9.23 |
| No Dilution Credit Authorized | 0 | 0 |
| Background Concentration, µg/L | 0 | 0 |
| WLA (Dissolved), µg/L | 236.82 | 9.23 |
| WLA (Total Recoverable) ² , μg/L | 386.26 | 15.05 |
| WLA Multiplier (99 th %) | 0.174 | 0.321 |
| LTA, μg/L | 67.21 | 4.83 |
| LTA _{MDL} Multiplier (99 th %) | | 5.76 |
| MDL, µg/L | | 27.83 |
| MDL, kg/day | | 0.13 |
| LTA _{AML} Multiplier (95 th %) ³ | | 2.13 |
| AML, μg/L | | 10.29 |
| AML, kg/day | | 0.05 |

¹Derivation of permit limit based on Section 5.4.1 of EPA's TSD

²Conversion factor for dissolved to total recoverable found in Appendix A of the National Recommended Water Quality Criteria.

³LTA multiplier based on sampling frequency of four times per month per section 5.5.3 of EPA's TSD

Mercury. The previous permit contained limits for mercury; however based on the reasonable potential analysis, which included 59 data points over 5 years, EPA has determined that the discharge does not have reasonable potential to cause or contribute to an exceedance for mercury. One thing to consider, though, is that the method detection limit (MDL) is not low enough at 0.5μg/L (which is larger than the most stringent WQS at 0.01μg/L for Aquatic and wildlife, warmwater, chronic designated use) to adequately detect exceedances. Therefore, EPA proposes to eliminate the limits imposed in the previous permit, but monitoring is still required as part of the twice yearly priority pollutant scans. The EPA recommends the permittee search for a way to increase the sensitivity of the MDL for this parameter to below the most stringent WQS.

Selenium. Based on the reasonable potential analysis, EPA has determined that the discharge has a reasonable potential to cause or contribute to an exceedance for selenium. Therefore, the proposed permit contains effluent limits for selenium based on chronic and acute WQS for the protection of the Aquatic and wildlife, warmwater designated use. The WQBEL calculations are shown in the following table, resulting in a maximum daily limit (MDL) of $2.47~\mu g/L$ and an average monthly limit (AML) of $1.86~\mu g/L$. A coefficient of variation of 0.2 (based on the standard deviation divided by the mean of the selenium effluent data) was used to determine each multiplier. Monitoring is required monthly.

Table 6. WQBEL Calculations for Selenium.

| Tuote o. W QBEL out | Acute | Chronic ¹ |
|---|-------|----------------------|
| Freshwater Aquatic Life Criteria, µg/L | 20 | 2.0 |
| No Dilution Credit Authorized | 0 | 0 |
| Background Concentration, µg/L | 0 | 0 |
| WLA (Dissolved), µg/L | n/a | n/a |
| WLA (Total Recoverable) ² , µg/L | 20 | 2.0 |
| WLA Multiplier (99 th %) | 0.643 | 0.797 |
| LTA, μg/L | 12.86 | 1.59 |
| LTA _{MDL} Multiplier (99 th %) | | 1.55 |
| MDL, µg/L | | 2.47 |
| MDL, kg/day | | 0.011 |
| LTA _{AML} Multiplier (95 th %) ³ | | 1.17 |
| AML, μg/L | | 1.86 |
| AML, kg/day | | 0.0084 |

¹Derivation of permit limit based on Section 5.4.1 of EPA's TSD

Cyanide. The previous permit contained limits for cyanide; however based on the reasonable potential analysis, which included 59 data points over 5 years, EPA has determined that the discharge does not have reasonable potential to cause or contribute to an exceedance for cyanide. One thing to consider, though, is that the method detection limit (MDL) is not low enough at 10μg/L (which is larger than the most stringent WQS at 9.7μg/L for Aquatic and wildlife, warmwater, chronic designated use) to adequately detect exceedances. Therefore, EPA proposes to eliminate the limits imposed in the previous permit, but monitoring is still

²Conversion factor for dissolved to total recoverable found in Appendix A of the National Recommended Water Quality Criteria.

³LTA multiplier based on sampling frequency of four times per month per section 5.5.3 of EPA's TSD

required as part of the twice yearly priority pollutant scans. The EPA recommends the permittee search for a way to increase the sensitivity of the MDL for this parameter to below the most stringent WQS.

Bis(2-ethylhexyl)phthalate [a.k.a Di(2-ethylhexyl phthalate]. The previous permit contained limits for bis(2-ethylhexyl)phthalate; however based on the reasonable potential analysis, which included 11 data points over 5 years, EPA has determined that the discharge does not have reasonable potential to cause or contribute to an exceedance for bis(2-ethylhexyl)phthalate. One thing to consider, though, is that the method detection limit (MDL) is not low enough at $10\mu g/L$ (which is larger than the most stringent WQS at $6\mu g/L$ for Domestic Water Supply designated use) to adequately detect exceedances. Therefore, EPA proposes to eliminate the limits imposed in the previous permit, but monitoring is still required as part of the twice yearly priority pollutant scans. The EPA recommends the permittee search for a way to increase the sensitivity of the MDL for this parameter to below the most stringent WQS.

Arsenic. Based on the reasonable potential analysis, EPA has determined that the discharge has a reasonable potential to cause or contribute to an exceedance for arsenic. Therefore, the proposed permit contains effluent limits for arsenic based on the human health WQS for the Domestic Water Supply designated use. The WQBEL calculations are shown in the following table, resulting in a maximum daily limit (MDL) of 20.10 μ g/L and an average monthly limit (AML) of 10 μ g/L. A coefficient of variation of 0.6 was used to determine each multiplier. Monitoring is required monthly.

Table 7. WQBEL Calculations for Arsenic.

| | Acute | Chronic | Human Health ¹ |
|---|--------|---------|---------------------------|
| Freshwater Aquatic Life
Criteria, µg/L | 340 | 150 | 10 |
| No Dilution Credit Authorized | 0 | 0 | 0 |
| Background Concentration, µg/L | 0 | 0 | 0 |
| WLA (Dissolved), µg/L | 340 | 150 | n/a |
| WLA (Total Recoverable) ² , | 340 | 150 | 10 |
| μg/L | | | |
| WLA Multiplier (99 th %) | 0.321 | 0.527 | n/a |
| LTA, μg/L | 109.14 | 79.05 | 10 |
| LTA _{MDL} Multiplier (99 th %) | | | 2.01 |
| MDL, μg/L | | | 20.10 |
| MDL, kg/day | | | 0.091 |
| LTA _{AML} Multiplier (95 th %) ³ | | | n/a |
| AML, μg/L | | | 10 |
| AML, kg/day | | | 0.045 |

¹Derivation of permit limit based on Section 5.4.4 of EPA's TSD

²Conversion factor for dissolved to total recoverable found in Appendix A of the National Recommended Water Quality Criteria.

³LTA multiplier based on sampling frequency of four times per month per section 5.5.3 of EPA's TSD

Boron. Based on the reasonable potential analysis, EPA has determined that the discharge has a reasonable potential to cause or contribute to an exceedance for boron. Therefore, the proposed permit contains effluent limits for boron based on the human health WQS for the Domestic Water Supply designated use. The WQBEL calculations are shown in the following table, resulting in a maximum daily limit (MDL) of $1270 \, \mu \text{g/L}$ and an average monthly limit (AML) of $630 \, \mu \text{g/L}$. A coefficient of variation of $0.6 \, \text{was}$ used to determine each multiplier. Monitoring is required monthly.

Table 8. WOBEL Calculations for Boron.

| | Human Health ¹ |
|--|---------------------------|
| Freshwater Aquatic Life
Criteria, μg/L | 630 |
| No Dilution Credit Authorized | 0 |
| Background Concentration, µg/L | 0 |
| WLA (Dissolved), µg/L | n/a |
| WLA (Total Recoverable), µg/L | 630 |
| WLA Multiplier (99 th %) | n/a |
| LTA, μg/L | 630 |
| LTA _{MDL} Multiplier (99 th %) | 2.01 |
| MDL, μg/L | 1270 |
| MDL, kg/day | 5.77 |
| LTA _{AML} Multiplier (95 th %) | n/a |
| AML, μg/L | 630 |
| AML, kg/day | 2.86 |

¹Derivation of permit limit based on Section 5.4.4 of EPA's TSD

Fluoride. Based on the reasonable potential analysis, EPA has determined that the discharge has a reasonable potential to cause or contribute to an exceedance for fluoride. Therefore, the proposed permit contains effluent limits for fluoride based on the human health WQS for the Domestic Water Supply designated use. The WQBEL calculations are shown in the following table, resulting in a maximum daily limit (MDL) of 8,040 μ g/L and an average monthly limit (AML) of 4,000 μ g/L. A coefficient of variation of 0.6 was used to determine each multiplier. Monitoring is required monthly.

Table 9. WQBEL Calculations for Fluoride.

| | Human Health ¹ |
|--|---------------------------|
| Freshwater Aquatic Life | 4,000 |
| Criteria, µg/L | 4,000 |
| No Dilution Credit Authorized | 0 |
| Background Concentration, µg/L | 0 |
| WLA (Dissolved), µg/L | n/a |
| WLA (Total Recoverable), µg/L | 4,000 |
| WLA Multiplier (99 th %) | n/a |
| LTA, µg/L | 4,000 |
| LTA _{MDL} Multiplier (99 th %) | 2.01 |
| MDL, μg/L | 8,040 |
| MDL, kg/day | 36.52 |

| LTA _{AML} Multiplier (95 th %) | n/a |
|--|-------|
| AML, μg/L | 4,000 |
| AML, kg/day | 18.17 |

¹Derivation of permit limit based on Section 5.4.4 of EPA's TSD

Nitrate + Nitrite as N. Based on the reasonable potential analysis, EPA has determined that the discharge has a reasonable potential to cause or contribute to an exceedance for nitrate + nitrite as N. Therefore, the proposed permit contains effluent limits for nitrate + nitrite as N based on the WQS for the Domestic Water Supply designated use. The WQBEL calculations are shown in the following table, resulting in a maximum daily limit (MDL) of 20,100 μ g/L and an average monthly limit (AML) of 10,000 μ g/L. A coefficient of variation of 0.6 was used to determine each multiplier. Monitoring is required monthly.

Table 10. WQBEL Calculations for Nitrate + Nitrite as N.

| - | Human Health ¹ |
|--|---------------------------|
| Freshwater Aquatic Life
Criteria, µg/L | 10,000 |
| No Dilution Credit Authorized | 0 |
| Background Concentration, µg/L | 0 |
| WLA (Dissolved), µg/L | n/a |
| WLA (Total Recoverable), µg/L | 10,000 |
| WLA Multiplier (99 th %) | n/a |
| LTA, µg/L | 10,000 |
| LTA _{MDL} Multiplier (99 th %) | 2.01 |
| MDL, µg/L | 20,100 |
| MDL, kg/day | 91.29 |
| LTA _{AML} Multiplier (95 th %) | n/a |
| AML, μg/L | 10,000 |
| AML, kg/day | 45.42 |

¹Derivation of permit limit based on Section 5.4.4 of EPA's TSD

Zinc, barium, and iron. Based on the reasonable potential analysis, EPA has determined that the discharge does not have reasonable potential to cause or contribute to an exceedance for zinc, barium, or iron.

Whole Effluent Toxicity (Chronic). Section R18-11-108 of the Arizona WQS provides narrative toxicity requirements that limit the adverse effects of toxic substances in effluents. The existing permit requires semi-annual chronic whole effluent toxicity testing using cladoceran (*Ceriodaphnia dubia*) and the fathead minnow (*Pimephales promela*). Although the laboratory results from the July 2006 tests indicates a "pass" with results of 1.0 TUC for each species, EPA has determined that the effluent has reasonable potential to exceed water quality criteria and proposes semi-annual chronic toxicity monitoring with numeric chronic whole effluent toxicity limitations. For this discharge, the chronic WET permit limits are 1.6 TU_c (MDL: the highest allowable value for the discharge measured during a calendar day or 24-hour period representing a calendar day), and 1.0 TU_c (Median Monthly Limit or MML: highest allowable value for the median of daily discharges obtained over a calendar month). Monitoring is required semi-annually.

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Special Note: The MDL exceeds the most stringent WQS for a few of the other toxics tested in the 2006 priority pollutant scan, including pesticides (such as chlordane and aldrin) and acid & base/neutrals (such as benzo(a)pyrene). Although these were non-detects, EPA recommends the permittee search for a way to increase the sensitivity of the MDL for these parameters to below the most stringent WQS.

Table 11. Summary Table of Proposed Effluent Limitations and Monitoring Requirements.

| Parameter | Units | | | ent Limits | | sed Permit | Monitoring | Sample | |
|-------------------------------------|-------------------|---------------|----------------------------|--------------------|----------------|----------------------------|--------------------|---|------------------|
| | | | | | Limits | | | Frequency | Type |
| | | Average | Average | Maximum | Average | Average | Maximum | | |
| | | Monthly | Weekly | Daily | Monthly | Weekly | Daily | | |
| Flow | MGD | N/A | N/A | N/A | N/A | N/A | N/A | Continuous | N/A |
| Biochemical
Oxygen Demand | mg/L | 30 | 45 | Monitoring
Only | 30 | 45 | Monitoring
Only | Two/Month | 24-hr |
| (5-day) | kg/day | 136 | 204 | 408 | 136 | 204 | Monitoring
Only | | Composite |
| | %
Removal | effluent samp | les collected o | ver a calendar m | onth shall not | exceed 15 per | rcent of the arith | D values, by conce
metic mean, by cor
(85 percent BOD r | centration, for |
| Total Suspended Solids | mg/L | 30 | 45 | Monitoring
Only | 30 | 45 | Monitoring
Only | Two/Month | 24-hr |
| | kg/day | 136 | 204 | 408 | 136 | 204 | Monitoring
Only | | Composite |
| | %
Removal | samples colle | cted over a cal | lendar month sha | all not exceed | 15 percent of | the arithmetic me | lues, by concentrate
ean, by concentration
percent TSS remo | on, for influent |
| E. Coli | CFU/
100 mL | 130 | | 580 | 126 | | 235 | Weekly | Discrete |
| Oil & Grease | mg/L | 10 | 15 | | 10 | 15 | | Monthly | Discrete |
| | kg/day | 45.4 | 68.1 | | 45.4 | 68.1 | | Willing | Discicic |
| pН | Standard
Units | Not < 6 | 5.5 SU, Not > | 9.0 SU | Not < | 6.5 SU, Not | > 9.0 SU | Weekly | Discrete |
| Total Dissolved Solids ¹ | mg/L | Incrementa | al increase no
400mg/L. | ot to exceed | Increment | tal increase n
400mg/L. | ot to exceed | Two/Month | Discrete |
| Total Residual
Chlorine | μg/L | 5 | | 11 | | | | Once/Day | Discrete |
| Beryllium | kg/day | 0.95 | | 18 | | | | Two/Year | as part of |
| - | μg/L | 0.21 | | 4 | | | | Priority Poll | - |
| Cadmium | kg/day | 14 | | 318 | | | | Two/Year | as part of |

| | μg/L | 3.0 | | 70 | |
 | | |
|-------------------------------------|--------|-------|-------------|------|--------|------------|--|-------------|
| Lead | kg/day | 68 | | 1753 | 0.05 |
0.13 | Monthly | Composito |
| | μg/L | 15 | | 386 | 10.29 |
27.83 | Monthly | Composite |
| Mercury | kg/day | 0.045 | | 11 | |
 | Two/Year | as part of |
| | μg/L | 0.01 | | 2.4 | |
 | Priority Poll | utant Scans |
| Selenium | kg/day | 9.1 | | 91 | 0.0084 |
0.011 | Monthly | Composite |
| | μg/L | 2.0 | | 20 | 1.86 |
2.47 | Monthly | Composite |
| Cyanide | kg/day | 44 | | 186 | |
 | Two/Year | as part of |
| | μg/L | 9.7 | | 41 | |
 | Priority Pollutant Scans | |
| Bis(2- | kg/day | 27 | | 454 | |
 | Two/Year as part of Priority Pollutant Scans | |
| ethylhexyl)phthalate | μg/L | 6 | | 100 | |
 | | |
| Arsenic | kg/day | | | | 0.045 |
0.091 | Monthly | Composite |
| | μg/L | | | | 10 |
20.10 | | |
| Boron | kg/day | | | | 2.86 |
5.77 | Monthly | Composito |
| | μg/L | | | | 630 |
1270 | Monthly | Composite |
| Fluoride | kg/day | | | | 18.17 |
36.52 | Monthly | Composito |
| | μg/L | | | | 4,000 |
8,040 | Monthly | Composite |
| Nitrate + Nitrite as | kg/day | | | | 45.42 |
91.29 | Monthly | Commonito |
| N | μg/L | | | | 10,000 |
20,100 | Monthly | Composite |
| Whole Effluent
Toxicity, chronic | TU_C | M | onitoring O | nly | 1.0* |
1.6 | Two/Year | Composite |

¹Both incremental increase and total effluent TDS values shall be reported.

^{*}Monthly median.

D. Anti-Backsliding

Section 402(o) of the CWA prohibits the renewal or reissuance of an NPDES permit that contains effluent limits less stringent than those established in the previous permit, except as provided in the statute. The effluent limitations in the proposed permit are at least as stringent as the effluent limitations in the previous permit, with the exception of the following parameters.

Although the previous permit included WQBELs for total chlorine residual, beryllium, cadmium, mercury, cyanide and bis (2-ethylhexyl) phthalate, the proposed permit only includes WQBELs for those parameters found to cause, have the reasonable potential to cause, or contribute to an excursion above water quality standards, in accordance with 40 CFR 122.44(d) and RPA procedures in EPA's TSD. Five years of monthly effluent data has shown that the above-mentioned parameters do not have the reasonable potential to cause exceedances of water quality standards. For parameters without WQBELs, this permit includes continued monitoring requirements. The removal of WQBELs is not expected to cause a change in the chemical nature of the effluent discharge, impact designated uses, or lower existing receiving water quality.

The previous permit also contained daily maximum mass-based limits for BOD and TSS. These limits are redundant as the average monthly and weekly effluent limits are more stringent, and therefore more protective of water quality standards. Thus, the daily maximum limits for BOD and TSS have been eliminated from the proposed permit.

E. Antidegradation Policy

EPA's antidegradation policy at 40 CFR 131.12 and Section R18-11-107 of the 2008 Arizona Water Quality Standards require that existing water uses and the level of water quality necessary to protect the existing uses be maintained.

As described in this document, the permit establishes effluent limits and monitoring requirements to ensure that all applicable water quality standards are met. The permit does not include a mixing zone, therefore these limits will apply at the end of pipe without consideration of dilution in the receiving water. A priority pollutant scan has been conducted of the effluent, demonstrating that most pollutants will be discharged below detection levels. Furthermore, the waterbody is not listed as an impaired waterbody for total suspended solids, turbidity or oil and grease under section 303(d) of the CWA.

Therefore, due to the low levels of toxic pollutants present in the effluent, high level of treatment being obtained, and water quality based effluent limitations, it is not expected that the discharge will adversely affect receiving water bodies.

VII. NARRATIVE WATER QUALITY-BASED EFFLUENT LIMITS

Section R18-11-108 of the 2008 Arizona WQS contains narrative water quality standards applicable to the receiving water. Therefore, the permit incorporates the following applicable narrative water quality standards:

- A. The discharge shall be free from pollutants in amounts or combinations that:
 - 1. Settle to form bottom deposits that inhibit or prohibit the habitation, growth, or propagation of aquatic life;
 - 2. Cause objectionable odor in the area in which the surface water is located;
 - 3. Cause off-taste or odor in drinking water;
 - 4. Cause off-flavor in aquatic organisms;
 - 5. Are toxic to humans, animals, plants, or other organisms;
 - 6. Cause the growth of algae or aquatic plants that inhibit or prohibit the habitation, growth, or propagation of other aquatic life or that impair recreational uses;
 - 7. Cause or contribute to a violation of an aquifer water quality standard prescribed in R18-11-405 or R18-11-406; or
 - 8. Change the color of the surface water from natural background levels of color.
- B. The discharge shall be free from oil, grease or other pollutant that floats as debris, foam, or scum; or that causes a film or iridescent appearance on the surface of the water; or that cause a deposit on a shoreline, bank, or aquatic vegetation. The discharge of lubricating oil or gasoline associated with the normal operation of a recreational watercraft is not a violation of this narrative standard.
- C. The discharge shall be free from suspended solids in quantities or concentrations that interfere with the treatment processes at the nearest downstream potable water treatment plant or substantially increase the cost of handling solids produced at the nearest downstream potable water treatment plant.
- D. The discharge shall be free from refuse, rubbish, demolition or construction debris, trash, garbage, motor vehicles, appliances, tires, or other solid waste into a surface water or onto its banks.
- E. The discharge shall not cause degredation so that a wadeable, perennial stream cannot support and maintain a community of organisms having taxa richness, species composition, tolerance, and functional organization comparable to that of a reference stream in Arizona.
- F. In addition, the discharge shall not:
 - a) raise the natural ambient water **temperature** of the receiving water more than three(3) degrees Celsius;
 - b) cause the **turbidity** of the receiving water to exceed 50 nephelometric turbidity units; or
 - c) lower the **dissolved oxygen** concentration of the receiving water to less than six (6) mg/L or 90% saturation, whichever is less.

VIII. MONITORING AND REPORTING REQUIREMENTS

The permit requires the permittee to conduct monitoring for all pollutants or parameters where effluent limits have been established, at the minimum frequency specified. Additionally,

where effluent concentrations of toxic parameters are unknown or where data is insufficient to determine reasonable potential, monitoring may be required for pollutants or parameters where effluent limits have not been established.

A. Influent Monitoring and Reporting

The permittee shall conduct influent monitoring of BOD and TSS to evaluate compliance with the proposed permit conditions. The permittee shall perform all monitoring, sampling and analyses in accordance with the methods described in the most recent edition of 40 CFR 136, unless otherwise specified in the draft permit. All influent monitoring data shall be reported on monthly DMR forms and submitted quarterly to EPA, as specified in the draft permit.

B. Effluent Monitoring and Reporting

The permittee shall conduct effluent monitoring as specified in the proposed permit to evaluate compliance with the proposed permit conditions. The permittee shall perform all monitoring, sampling and analyses in accordance with the methods described in the most recent edition of 40 CFR 136, unless otherwise specified in the proposed permit. All monitoring data shall be reported on monthly DMR forms and submitted quarterly as specified in the proposed permit.

C. Priority Toxic Pollutants Scan

The proposed permit retains the existing requirement that monitoring for Priority Pollutants be conducted **twice-yearly** in July and January using a 24-hour composite sample (use grab samples where appropriate) of the final effluent concurrent with Whole Effluent Toxicity testing. The permittee shall perform all effluent sampling and analyses for the priority pollutants scan in accordance with the methods described in the most recent edition of 40 CFR 136, unless otherwise specified in the proposed permit or by EPA. 40 CFR 131.36 provides a complete list of Priority Toxic Pollutants.

D. Whole Effluent Toxicity Testing

The previous permit contained a requirement for chronic whole effluent toxicity testing for both cladoceran, *Ceriodaphnia dubia* and the fathead minnow, *Pimephales promela*. From results of the facility's July 2006 tests, EPA has determined that there is reasonable potential for the effluent to exceed water quality standards. Therefore, new permit limits (1.0 TU_C monthly median, and 1.6 TU_C daily maximum) have been included in the proposed permit. In addition, the monitoring requirements have been updated to reflect the most recent WET monitoring requirements. These include a screen test, using three species, (the abovementioned and an algal species), and from then on, testing with only the most sensitive species. Chronic WET testing shall be conducted semi-annually, in January and July, using a 24-hour composite sample (use grab samples where appropriate) of the final effluent

concurrent with a Priority Pollutants scan. Additional requirements are included in the proposed permit.

IX. SPECIAL CONDITIONS

A. Biosolids

Standard requirements for the monitoring, reporting, recordkeeping, and handling of biosolids in accordance with 40 CFR Part 503 are incorporated into the permit.

B. Pretreatment

The permittee is not required to have a formal pretreatment program; however, one of the industrial users that discharges process wastewater to the POTW has a history of violations and may be contributing to the concentration of metals, such as arsenic, in the POTW's effluent. Therefore, quarterly monitoring of the industrial user's effluent, to determine compliance with categorical pretreatment standards, and annual inspections and reporting are required in the proposed permit.

C. Development of an Initial Investigation TRE Workplan for Whole Effluent Toxicity

In the event effluent toxicity is triggered from WET test results, the permit requires the permittee to develop and implement a Toxics Reduction Evaluation ("TRE") Workplan. For acute toxicity, unacceptable effluent toxicity is found when "Fail" is determined, as indicated by a statistically significant difference between a test sample of 100 percent effluent and a control using a t-test. For chronic toxicity, unacceptable effluent toxicity is found in a single test result greater than 1.6 TU_c, or when any one or more monthly test results in a calculated median value greater than 1.0 TU_c. The draft permit also requires additional toxicity testing if a chronic toxicity monitoring trigger is exceeded. Within 90 days of the permit effective date, the permittee shall prepare and submit a copy of their Initial Investigation TRE Workplan (1-2 pages) for acute and chronic toxicity to EPA for review.

X. OTHER CONSIDERATIONS UNDER FEDERAL LAW

A. Impact to Threatened and Endangered Species

Section 7 of the Endangered Species Act of 1973 (16 U.S.C. § 1536) requires federal agencies to ensure that any action authorized, funded, or carried out by the federal agency does not jeopardize the continued existence of a listed or candidate species, or result in the destruction or adverse modification of its habitat.

EPA sent a letter to the US Fish and Wildlife Service (USFWS) on April 9, 2008 to request updated species information. EPA did not receive a response; however EPA found updated species information on USFWS's website. EPA prepared a biological evaluation of the listed species that may be potentially affected by the discharge. This biological evaluation

will be sent to the USFWS for review. In addition, a copy of the proposed permit and fact sheet will be sent to the USFWS for review during the public comment period.

From the USFWS Southwest Region's Threatened and Endangered Species Online Database, EPA found there are currently 7 Federally-listed endangered (E) species and 1 Federally-listed threatened (T) species in La Paz and Yuma Counties.

Table 12. ESA Species List for La Paz and Yuma Counties, Arizona

| Status | Species (Common Name/ Scientific Name) |
|--------|--|
| Е | Bonytail chub/ Gila elegans |
| Е | Razorback sucker/ Xyrauchen texanus |
| Е | Southwestern willow flycatcher/ Empidonax traillii extimus |
| Е | Yuma clapper rail/ Rallus longirostris yumanensis |
| Е | Lesser long-nosed bat/ Leptonycteris curasoae yerbabuenae |
| Е | Sonoran pronghorn/ Antilocapra Americana sonoriensis |
| T | Bald eagle/ Haliaeetus leucocephalus |

EPA's biological evaluation for these eight species found that the discharge "may affect, but is not likely to adversely affect" the bonytail chub, razorback sucker, and Yuma clapper rail and will have "no effect" on the southwestern willow flycatcher, lesser long-nosed bat, sonoran pronghorn, and bald eagle.

B. Impact to National Historic Properties

Section 106 of the National Historic Preservation Act (NHPA) requires federal agencies to consider the effect of their undertakings on historic properties that are either listed on, or eligible for listing on, the National Register of Historic Places. Pursuant to the NHPA and 36 CFR § 800.3(a)(1), EPA is making a determination that issuing this proposed NPDES permit does not have the potential to affect any historic properties or cultural properties. As a result, Section 106 does not require EPA to undertake additional consulting on this permit issuance.

XI. STANDARD CONDITIONS

A. Reopener Provision

In accordance with 40 CFR 122 and 124, this permit may be modified by EPA to include effluent limits, monitoring, or other conditions to implement new regulations, including EPA-approved water quality standards; or to address new information indicating the presence of effluent toxicity or the reasonable potential for the discharge to cause or contribute to exceedances of water quality standards.

B. Standard Provisions

The permit requires the permittee to comply with EPA Region IX Standard Federal NPDES Permit Conditions, dated July 1, 2001.

XII. ADMINISTRATIVE INFORMATION

A. **Public Notice** (40 CFR 124.10)

The public notice is the vehicle for informing all interested parties and members of the general public of the contents of a draft NPDES permit or other significant action with respect to an NPDES permit or application.

B. Public Comment Period (40 CFR 124.10)

Notice of the draft permit will be placed in a daily or weekly newspaper within the area affected by the facility or activity, with a minimum of 30 days provided for interested parties to respond in writing to EPA. After the closing of the public comment period, EPA is required to respond to all significant comments at the time a final permit decision is reached or at the same time a final permit is actually issued.

C. **Public Hearing** (40 CFR 124.12(c))

A public hearing may be requested in writing by any interested party. The request should state the nature of the issues proposed to be raised during the hearing. A public hearing will be held if EPA determines there is a significant amount of interest expressed during the 30-day public comment period or when it is necessary to clarify the issues involved in the permit decision.

XIII. CONTACT INFORMATION

Comments submittals and additional information relating to this proposal may be directed to:

U.S. Environmental Protection Agency, Region IX NPDES Permits Office (WTR-5) 75 Hawthorne Street San Francisco, California 94105 ATTN: Elizabeth Sablad sablad.elizabeth@epa.gov

XIV. REFERENCES

EPA. 1991. *Technical Support Document for Water Quality-based Toxics Control*. Prepared by EPA, Office of Water Enforcement and Permits, in March 1991. EPA/505/2-90-001.

EPA. 1996. Regions IX & X Guidance for Implementing Whole Effluent Toxicity Testing Programs, Interim Final, May 31. 1996.

Denton DL, Miller JM, Stuber RA. 2007. EPA Regions 9 and 10 toxicity training tool (TTT). November 2007. San Francisco, CA.

EPA. 2002a. Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms - Fifth Edition. Office of Water, EPA. EPA-821-R-02-012.

EPA. 2002b. *National Recommended Water Quality Criteria*. Office of Water, EPA. EPA-822-R-02-047.

EPA. 1996. U.S. EPA NPDES Basic Permit Writers Manual. EPA. EPA-833-B-96-003.

Department of Environmental Quality. 2003. *Water Quality Standards*. Arizona Administrative Code Title 18, Chapter 11.

Department of Environmental Quality. 2008. *Notices of Proposed Rulemaking - Water Quality Standards*. Arizona Administrative Code Title 18, Chapter 11.

Appendix L

POTW Discharge Report June 2015



Via Electronic Mail

June 23, 2015

Mr. Keith Silva or Successor WTR-7 U.S. EPA Region 9 75 Hawthorne Street San Francisco, CA 94105

Re: 40 CFR 403.12(e) – Periodic Reports on Continued Compliance

Mr. Silva:

Per 40 CFR 403.12(e), Evoqua Water Technologies Inc. LLC is submitting the required periodic report.

The following are the report requirements listed in 40 CFR 403.12(e) which refer to paragraphs 403.12(b)(4)-(6).

Flow Measurement 40 CFR 403.12(b)(4)

- (i) The average daily flow for the period of December 6, 2014 through June 4, 2015 for the regulated process stream was 121,227 gallons per day. The maximum daily flow for the same period for the regulated process stream was 138,215 gallons per day.
- (ii) There are no other streams mixed with the regulated stream before the sampling point.

Pollutant Measurement 40 CFR 403.12(b)(5)

- (i) The pretreatment standards for existing sources (PSES) applicable to the Evoqua facility can be found at 40 CFR 437.46(b) Multiple Waste Streams (combined waste stream receipts from subparts A, B and C).
- (ii) The results of the sampling and analyses identifying the nature and concentration of regulated pollutants in the discharge from the regulated process are located in Attachment 1. The samples are representative of daily operations.



- (iii) Four (4) grab samples were collected over a 24-hour period for the analysis of volatile organics and oil and grease. A 24-hour composite sample was obtained for the metals analyses.
- (iv) A minimum of one sample was collected.
- (v) The samples were collected immediately downstream from the pretreatment facility prior to mixing with any other waste stream.
- (vi) Sampling and analysis were performed in accordance with the techniques prescribed in 40 CFR 136.
- (vii) Not applicable for this report.
- (viii) Not applicable for this report.

<u>Certification</u> 40 CFR 403.12(b)(6)

A statement of certification indicating that the Pretreatment Standards are being met on a consistent basis can be found in Attachment 2.

An additional attachment included in this letter is the signatory authorization letter (Attachment 3).

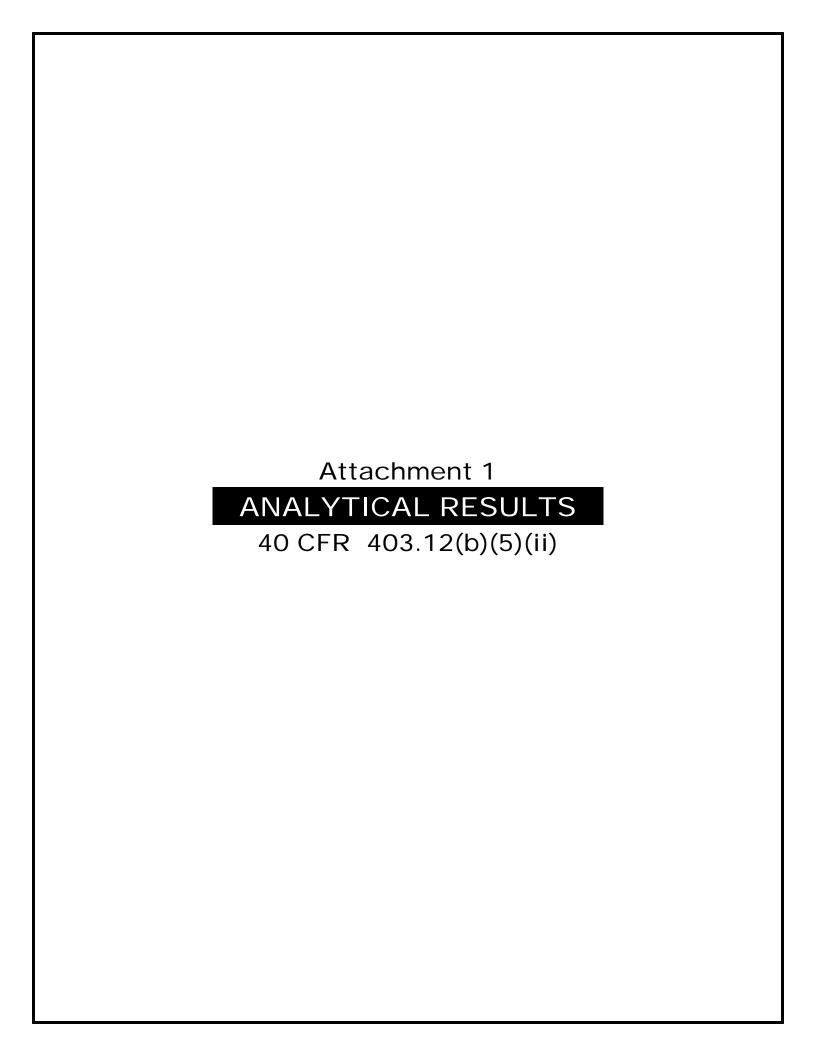
Please feel free to call if you have any questions at (928) 669-5758, x17.

Sincerely.

Monte McCue
Director of Plant Operations

CC: Andy Jones – CRSSJV

CRIT EPO Officer



Evoqua Water Technologies Inc. LLC Report on Compliance with Categorical Pretreatment Standards Summary of Sample Results - June 3-4, 2015

| Analyte | CWT Limits 40 | CFR 437.46(b) | Method 200.7 / 7470A | | Sample | Result ¹ | |
|-----------------------|----------------------------|------------------------------|------------------------------|-------|--------|---------------------|----|
| Metals - 200.7 / 7470 | Maximum Daily ¹ | Monthly Average ¹ | Reporting Limit ¹ | | NA | NA | NA |
| Antimony (200.7) | 0.249 | 0.206 | 0.010 | ND | | | |
| Arsenic (200.7) | 0.162 | 0.104 | 0.010 | 0.011 | | | |
| Cadmium (200.7) | 0.474 | 0.0962 | 0.0050 | ND | | | |
| Chromium (200.7) | 0.947 | 0.487 | 0.0050 | ND | | | |
| Cobalt (200.7) | 0.192 | 0.124 | 0.010 | ND | | | |
| Copper (200.7) | 0.405 | 0.301 | 0.010 | ND | | | |
| Lead (200.7) | 0.222 | 0.172 | 0.0050 | ND | | | |
| Mercury (7470) | 0.00234 | 0.000739 | 0.00020 | ND | | | |
| Nickel (200.7) | 3.95 | 1.45 | 0.010 | ND | | | |
| Silver (200.7) | 0.120 | 0.0351 | 0.010 | ND | | | |
| Tin (200.7) | 0.409 | 0.120 | 0.10 | ND | | | |
| Titanium (200.7) | 0.0947 | 0.0618 | 0.0050 | ND | | | |
| Vanadium (200.7) | 0.218 | 0.0662 | 0.010 | ND | | | |
| Zinc (200.7) | 2.87 | 0.641 | 0.020 | 0.045 | | | |

| Analyte | CWT Limits 40 | CFR 437.46(b) | Method 625 | | Sample | Result ² | |
|-----------------------------|----------------|------------------------------|------------------------------|----|--------|---------------------|----|
| Organics - 625 | Maximum Daily1 | Monthly Average ¹ | Reporting Limit ² | | | | |
| Bis(2-ethylhexyl) phthalate | 0.267 | 0.158 | 9.5 - 9.6 | ND | ND | ND | ND |
| Carbazole | 0.392 | 0.233 | 4.8 | ND | ND | ND | ND |
| o-Cresol | 1.92 | 0.561 | 4.8 | ND | ND | ND | ND |
| p-Cresol | 0.698 | 0.205 | 4.8 | ND | ND | ND | ND |
| n-Decane | 5.79 | 3.31 | 4.8 | ND | ND | ND | ND |
| Fluoranthene | 0.787 | 0.393 | 9.5 - 9.6 | ND | ND | ND | ND |
| n-Octadecane | 1.22 | 0.925 | 4.8 | ND | ND | ND | ND |
| 2,4,6-Trichlorophenol | 0.155 | 0.106 | 9.5 - 9.6 | ND | ND | ND | ND |

| Analyte | CWT Limits | | Method HEM 1664 | Sample Result ¹ | | | | | |
|-----------------------------|----------------------------|------------------------------|------------------------------|----------------------------|----|----|----|--|--|
| Oil & Grease - HEM EPA 1664 | Maximum Daily ¹ | Monthly Average ¹ | Reporting Limit ¹ | | | | | | |
| Oil and Grease | 127 | 38 | 4.7 | ND | ND | ND | ND | | |

¹ mg/l (ppm) ² ug/l (ppb)

ND - Analyte Not Detected at or above reporting limit



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine 17461 Derian Ave Suite 100

Irvine, CA 92614-5817 Tel: (949)261-1022

TestAmerica Job ID: 440-111986-1 Client Project/Site: CWT June 2015

For:

Evoqua Water Technologies eProcurement PO BOX 3308 IMA065 Parker, Arizona 85344

Attn: Roy Provins

Authorized for release by: 6/18/2015 7:50:12 PM

Camille Murray, Project Manager I (949)261-1022

camille.murray@testamericainc.com

LINKS

Review your project results through

Have a Question?



Visit us at: www.testamericainc.com The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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12

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TestAmerica Job ID: 440-111986-1

Sample Summary

Client: Evoqua Water Technologies eProcurement

Project/Site: CWT June 2015

| Lab Sample ID | Client Sample ID | Matrix | Collected Received |
|---------------|---------------------------|--------|----------------------------|
| 440-111986-1 | 500 mL P Metals | Water | 06/03/15 08:00 06/04/15 12 |
| 440-111986-2 | Sample 1, 1L Amber(Black) | Water | 06/02/15 10:00 06/04/15 12 |
| 440-111986-3 | Sample 2, 1L Amber(Blue) | Water | 06/02/15 16:00 06/04/15 12 |
| 440-111986-4 | Sample 3, 1L Amber(Pink) | Water | 06/02/15 22:00 06/04/15 12 |
| 440-111986-5 | Sample 4, 1L Amber(Green) | Water | 06/03/15 04:00 06/04/15 12 |

Case Narrative

Client: Evoqua Water Technologies eProcurement

Project/Site: CWT June 2015

TestAmerica Job ID: 440-111986-1

Job ID: 440-111986-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-111986-1

Comments

No additional comments.

Receipt

The samples were received on 6/4/2015 12:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.2° C and 5.6° C.

GC/MS Semi VOA

Method(s) 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-259926 and analytical batch 440-260509. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method(s) 1664A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-261004. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Dil Fac

Client Sample Results

Client: Evoqua Water Technologies eProcurement

Project/Site: CWT June 2015

Client Sample ID: 500 mL P Metals Lab Sample ID: 440-111986-1

Date Collected: 06/03/15 08:00 Date Received: 06/04/15 12:00

Matrix: Water

TestAmerica Job ID: 440-111986-1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|--------|-----|------|---|----------------|----------------|---------|
| Arsenic | 0.011 | | 0.010 | | mg/L | | 06/10/15 10:27 | 06/15/15 12:29 | 1 |
| Cadmium | ND | | 0.0050 | | mg/L | | 06/10/15 10:27 | 06/15/15 12:29 | 1 |
| Cobalt | ND | | 0.010 | | mg/L | | 06/10/15 10:27 | 06/15/15 12:29 | 1 |
| Chromium | ND | | 0.0050 | | mg/L | | 06/10/15 10:27 | 06/15/15 12:29 | 1 |
| Copper | ND | | 0.010 | | mg/L | | 06/10/15 10:27 | 06/15/15 12:29 | 1 |
| Nickel | ND | | 0.010 | | mg/L | | 06/10/15 10:27 | 06/15/15 12:29 | 1 |
| Lead | ND | | 0.0050 | | mg/L | | 06/10/15 10:27 | 06/15/15 12:29 | 1 |
| Antimony | ND | | 0.010 | | mg/L | | 06/10/15 10:27 | 06/16/15 13:30 | 1 |
| Tin | ND | | 0.10 | | mg/L | | 06/10/15 10:27 | 06/15/15 12:29 | 1 |
| Titanium | ND | | 0.0050 | | mg/L | | 06/10/15 10:27 | 06/15/15 12:29 | 1 |
| Vanadium | ND | | 0.010 | | mg/L | | 06/10/15 10:27 | 06/15/15 12:29 | 1 |
| Zinc | 0.045 | | 0.020 | | mg/L | | 06/10/15 10:27 | 06/15/15 12:29 | 1 |
| Silver | ND | | 0.010 | | mg/L | | 06/10/15 10:27 | 06/15/15 12:29 | 1 |

RL

0.00020

MDL Unit

mg/L

Client Sample ID: Sample 1, 1L Amber(Black)

Result Qualifier

0.00024

Date Collected: 06/02/15 10:00 Date Received: 06/04/15 12:00

Analyte

Mercury

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 440-111986-2

06/18/15 13:27 06/18/15 17:52

Prepared

Matrix: Water

Analyzed

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Bis(2-ethylhexyl) phthalate | ND | | | | ug/L | | 06/07/15 13:29 | 06/10/15 20:36 | 1 |
| Carbazole | ND | | 20 | | ug/L | | 06/07/15 13:29 | 06/10/15 20:36 | 1 |
| Fluoranthene | ND | | 10 | | ug/L | | 06/07/15 13:29 | 06/10/15 20:36 | 1 |
| para-Cresol | ND | | 10 | | ug/L | | 06/07/15 13:29 | 06/10/15 20:36 | 1 |
| n-Decane | ND | | 5.1 | | ug/L | | 06/07/15 13:29 | 06/10/15 20:36 | 1 |
| n-Octadecane | ND | | 5.1 | | ug/L | | 06/07/15 13:29 | 06/10/15 20:36 | 1 |
| o-Cresol | ND | | 10 | | ug/L | | 06/07/15 13:29 | 06/10/15 20:36 | 1 |
| 2,4,6-Trichlorophenol | ND | | 20 | | ug/L | | 06/07/15 13:29 | 06/10/15 20:36 | 1 |
| Total Cresols | ND | | 10 | | ug/L | | 06/07/15 13:29 | 06/10/15 20:36 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl | 72 | | 50 - 120 | | | | 06/07/15 13:29 | 06/10/15 20:36 | 1 |
| 2-Fluorophenol | 56 | | 30 - 120 | | | | 06/07/15 13:29 | 06/10/15 20:36 | 1 |
| Nitrobenzene-d5 | 62 | | 45 - 120 | | | | 06/07/15 13:29 | 06/10/15 20:36 | 1 |
| Phenol-d6 | 60 | | 35 - 120 | | | | 06/07/15 13:29 | 06/10/15 20:36 | 1 |
| Terphenyl-d14 | 97 | | 10 - 150 | | | | 06/07/15 13:29 | 06/10/15 20:36 | 1 |
| 2,4,6-Tribromophenol | 82 | | 40 - 120 | | | | 06/07/15 13:29 | 06/10/15 20:36 | 1 |
| General Chemistry | | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| HEM | ND | | 5.0 | | mg/L | | 06/12/15 07:04 | 06/12/15 11:42 | |

Client Sample Results

Client: Evoqua Water Technologies eProcurement

Project/Site: CWT June 2015

TestAmerica Job ID: 440-111986-1

Client Sample ID: Sample 2, 1L Amber(Blue)

Lab Sample ID: 440-111986-3 Date Collected: 06/02/15 16:00 **Matrix: Water** Date Received: 06/04/15 12:00

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Bis(2-ethylhexyl) phthalate | ND | | 20 | | ug/L | | 06/07/15 13:29 | 06/10/15 20:59 | 1 |
| Carbazole | ND | | 20 | | ug/L | | 06/07/15 13:29 | 06/10/15 20:59 | 1 |
| Fluoranthene | ND | | 10 | | ug/L | | 06/07/15 13:29 | 06/10/15 20:59 | 1 |
| para-Cresol | ND | | 10 | | ug/L | | 06/07/15 13:29 | 06/10/15 20:59 | 1 |
| n-Decane | ND | | 5.1 | | ug/L | | 06/07/15 13:29 | 06/10/15 20:59 | 1 |
| n-Octadecane | ND | | 5.1 | | ug/L | | 06/07/15 13:29 | 06/10/15 20:59 | 1 |
| o-Cresol | ND | | 10 | | ug/L | | 06/07/15 13:29 | 06/10/15 20:59 | 1 |
| 2,4,6-Trichlorophenol | ND | | 20 | | ug/L | | 06/07/15 13:29 | 06/10/15 20:59 | 1 |
| Total Cresols | ND | | 10 | | ug/L | | 06/07/15 13:29 | 06/10/15 20:59 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl | 68 | | 50 - 120 | | | | 06/07/15 13:29 | 06/10/15 20:59 | 1 |
| 2-Fluorophenol | 58 | | 30 - 120 | | | | 06/07/15 13:29 | 06/10/15 20:59 | 1 |
| Nitrobenzene-d5 | 61 | | 45 - 120 | | | | 06/07/15 13:29 | 06/10/15 20:59 | 1 |
| Phenol-d6 | 64 | | 35 - 120 | | | | 06/07/15 13:29 | 06/10/15 20:59 | 1 |
| Terphenyl-d14 | 90 | | 10 - 150 | | | | 06/07/15 13:29 | 06/10/15 20:59 | 1 |
| 2,4,6-Tribromophenol | 80 | | 40 - 120 | | | | 06/07/15 13:29 | 06/10/15 20:59 | 1 |
| General Chemistry | | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| HEM | ND | | 4.8 | | mg/L | | 06/12/15 07:04 | 06/12/15 11:42 | |

Client Sample ID: Sample 3, 1L Amber(Pink) Lab Sample ID: 440-111986-4

Date Collected: 06/02/15 22:00 **Matrix: Water** Date Received: 06/04/15 12:00

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Bis(2-ethylhexyl) phthalate | ND | | 20 | | ug/L | | 06/07/15 13:29 | 06/10/15 23:15 | 1 |
| Carbazole | ND | | 20 | | ug/L | | 06/07/15 13:29 | 06/10/15 23:15 | 1 |
| Fluoranthene | ND | | 9.8 | | ug/L | | 06/07/15 13:29 | 06/10/15 23:15 | 1 |
| para-Cresol | ND | | 9.8 | | ug/L | | 06/07/15 13:29 | 06/10/15 23:15 | 1 |
| n-Decane | ND | | 4.9 | | ug/L | | 06/07/15 13:29 | 06/10/15 23:15 | 1 |
| n-Octadecane | ND | | 4.9 | | ug/L | | 06/07/15 13:29 | 06/10/15 23:15 | 1 |
| o-Cresol | ND | | 9.8 | | ug/L | | 06/07/15 13:29 | 06/10/15 23:15 | 1 |
| 2,4,6-Trichlorophenol | ND | | 20 | | ug/L | | 06/07/15 13:29 | 06/10/15 23:15 | 1 |
| Total Cresols | ND | | 9.8 | | ug/L | | 06/07/15 13:29 | 06/10/15 23:15 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl | 72 | | 50 - 120 | | | | 06/07/15 13:29 | 06/10/15 23:15 | 1 |
| 2-Fluorophenol | 57 | | 30 - 120 | | | | 06/07/15 13:29 | 06/10/15 23:15 | 1 |
| Nitrobenzene-d5 | 62 | | 45 - 120 | | | | 06/07/15 13:29 | 06/10/15 23:15 | 1 |
| Phenol-d6 | 61 | | 35 - 120 | | | | 06/07/15 13:29 | 06/10/15 23:15 | 1 |
| Terphenyl-d14 | 89 | | 10 - 150 | | | | 06/07/15 13:29 | 06/10/15 23:15 | 1 |
| 2,4,6-Tribromophenol | 81 | | 40 - 120 | | | | 06/07/15 13:29 | 06/10/15 23:15 | 1 |
| General Chemistry | | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| | | | | | | | | | |

TestAmerica Irvine

Client Sample Results

Client: Evoqua Water Technologies eProcurement

Project/Site: CWT June 2015

Lab Sample ID: 440-111986-5

TestAmerica Job ID: 440-111986-1

Client Sample ID: Sample 4, 1L Amber(Green)

Date Collected: 06/03/15 04:00 Matrix: Water Date Received: 06/04/15 12:00

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Bis(2-ethylhexyl) phthalate | ND | | 21 | | ug/L | | 06/07/15 13:29 | 06/10/15 23:38 | 1 |
| Carbazole | ND | | 21 | | ug/L | | 06/07/15 13:29 | 06/10/15 23:38 | 1 |
| Fluoranthene | ND | | 10 | | ug/L | | 06/07/15 13:29 | 06/10/15 23:38 | 1 |
| para-Cresol | ND | | 10 | | ug/L | | 06/07/15 13:29 | 06/10/15 23:38 | 1 |
| n-Decane | ND | | 5.2 | | ug/L | | 06/07/15 13:29 | 06/10/15 23:38 | 1 |
| n-Octadecane | ND | | 5.2 | | ug/L | | 06/07/15 13:29 | 06/10/15 23:38 | 1 |
| o-Cresol | ND | | 10 | | ug/L | | 06/07/15 13:29 | 06/10/15 23:38 | 1 |
| 2,4,6-Trichlorophenol | ND | | 21 | | ug/L | | 06/07/15 13:29 | 06/10/15 23:38 | 1 |
| Total Cresols | ND | | 10 | | ug/L | | 06/07/15 13:29 | 06/10/15 23:38 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl | 54 | | 50 - 120 | | | | 06/07/15 13:29 | 06/10/15 23:38 | 1 |
| 2-Fluorophenol | 39 | | 30 - 120 | | | | 06/07/15 13:29 | 06/10/15 23:38 | 1 |
| Nitrobenzene-d5 | 47 | | 45 - 120 | | | | 06/07/15 13:29 | 06/10/15 23:38 | 1 |
| Phenol-d6 | 41 | | 35 - 120 | | | | 06/07/15 13:29 | 06/10/15 23:38 | 1 |
| Terphenyl-d14 | 73 | | 10 - 150 | | | | 06/07/15 13:29 | 06/10/15 23:38 | 1 |
| 2,4,6-Tribromophenol | 64 | | 40 - 120 | | | | 06/07/15 13:29 | 06/10/15 23:38 | 1 |
| General Chemistry | | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| HEM | ND | | 5.0 | | mg/L | | 06/12/15 07:04 | 06/12/15 11:42 | |

Method Summary

Client: Evoqua Water Technologies eProcurement

Project/Site: CWT June 2015

TestAmerica Job ID: 440-111986-1

| Method | Method Description | Protocol | Laboratory |
|---------------|--|-----------|------------|
| 625 | Semivolatile Organic Compounds (GC/MS) | 40CFR136A | TAL IRV |
| 200.7 Rev 4.4 | Metals (ICP) | EPA | TAL IRV |
| 7470A | Mercury (CVAA) | SW846 | TAL IRV |
| 1664A | HEM and SGT-HEM | 1664A | TAL IRV |

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Evoqua Water Technologies eProcurement

Project/Site: CWT June 2015

TestAmerica Job ID: 440-111986-1

Client Sample ID: 500 mL P Metals

Date Collected: 06/03/15 08:00 Date Received: 06/04/15 12:00

Lab Sample ID: 440-111986-1

Matrix: Water

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-------------------|----------|---------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total Recoverable | Prep | 200.2 | | | 25 mL | 25 mL | 260523 | 06/10/15 10:27 | APS | TAL IRV |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 25 mL | 25 mL | 261456 | 06/15/15 12:29 | TK | TAL IRV |
| Total Recoverable | Prep | 200.2 | | | 25 mL | 25 mL | 260523 | 06/10/15 10:27 | APS | TAL IRV |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 25 mL | 25 mL | 261693 | 06/16/15 13:30 | TK | TAL IRV |
| Total/NA | Prep | 7470A | | | 20 mL | 20 mL | 262226 | 06/18/15 13:27 | DB | TAL IRV |
| Total/NA | Analysis | 7470A | | 1 | 20 mL | 20 mL | 262310 | 06/18/15 17:52 | DB | TAL IRV |

Client Sample ID: Sample 1, 1L Amber(Black)

Date Collected: 06/02/15 10:00 Date Received: 06/04/15 12:00 Lab Sample ID: 440-111986-2 **Matrix: Water**

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|--------|-----|--------|---------|---------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 625 | | | 985 mL | 2 mL | 259926 | 06/07/15 13:29 | AK | TAL IRV |
| Total/NA | Analysis | 625 | | 1 | 985 mL | 2 mL | 260509 | 06/10/15 20:36 | Al | TAL IRV |
| Total/NA | Prep | 1664A | | | 1010 mL | 1000 mL | 261004 | 06/12/15 07:04 | QCT | TAL IRV |
| Total/NA | Analysis | 1664A | | 1 | 1010 mL | 1000 mL | 261102 | 06/12/15 11:42 | QCT | TAL IRV |

Client Sample ID: Sample 2, 1L Amber(Blue)

Date Collected: 06/02/15 16:00 Date Received: 06/04/15 12:00

Lab Sample ID: 440-111986-3

Matrix: Water

| Prep Type | Batch
Type | Batch
Method | Run | Dil
Factor | Initial
Amount | Final
Amount | Batch
Number | Prepared or Analyzed | Analyst | Lab |
|-----------|---------------|-----------------|------|---------------|-------------------|-----------------|-----------------|----------------------|---------|---------|
| | | | Kuii | | | | | | | |
| Total/NA | Prep | 625 | | | 990 mL | 2 mL | 259926 | 06/07/15 13:29 | AK | TAL IRV |
| Total/NA | Analysis | 625 | | 1 | 990 mL | 2 mL | 260509 | 06/10/15 20:59 | Al | TAL IRV |
| Total/NA | Prep | 1664A | | | 1035 mL | 1000 mL | 261004 | 06/12/15 07:04 | QCT | TAL IRV |
| Total/NA | Analysis | 1664A | | 1 | 1035 mL | 1000 mL | 261102 | 06/12/15 11:42 | QCT | TAL IRV |

Client Sample ID: Sample 3, 1L Amber(Pink)

Date Collected: 06/02/15 22:00

Date Received: 06/04/15 12:00

Lab Sample ID: 440-111986-4

Matrix: Water

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|--------|-----|-------------|---------|---------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 625 | | | 1025 mL | 2 mL | 259926 | 06/07/15 13:29 | AK | TAL IRV |
| Total/NA | Analysis | 625 | | 1 | 1025 mL | 2 mL | 260509 | 06/10/15 23:15 | Al | TAL IRV |
| Total/NA | Prep | 1664A | | | 1005 mL | 1000 mL | 261004 | 06/12/15 07:04 | QCT | TAL IRV |
| Total/NA | Analysis | 1664A | | 1 | 1005 mL | 1000 mL | 261102 | 06/12/15 11:42 | QCT | TAL IRV |

Client Sample ID: Sample 4, 1L Amber(Green)

Date Collected: 06/03/15 04:00

Date Received: 06/04/15 12:00

| Lab Sample ID: | 440-111986-5 |
|----------------|---------------|
| | Matrix: Water |

| | Batch | Batch | _ | Dil | Initial | Final | Batch | Prepared | | |
|-----------|-------|--------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 625 | | | 960 mL | 2 mL | 259926 | 06/07/15 13:29 | AK | TAL IRV |

TestAmerica Irvine

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Lab Chronicle

Client: Evoqua Water Technologies eProcurement

Project/Site: CWT June 2015

Lab Sample ID: 440-111986-5

Client Sample ID: Sample 4, 1L Amber(Green)

Date Collected: 06/03/15 04:00 Date Received: 06/04/15 12:00 Matrix: Water

TestAmerica Job ID: 440-111986-1

| Prep Type Total/NA | Batch Type Analysis | Batch
Method
625 | Run | Factor 1 | Initial
Amount
960 mL | Final
Amount
2 mL | Batch
Number
260509 | Prepared or Analyzed 06/10/15 23:38 | Analyst | Lab
TAL IRV |
|--------------------|---------------------|------------------------|-----|----------|-----------------------------|-------------------------|---------------------------|-------------------------------------|---------|----------------|
| Total/NA | Prep | 1664A | | | 1000 mL | 1000 mL | 261004 | 06/12/15 07:04 | QCT | TAL IRV |
| Total/NA | Analysis | 1664A | | 1 | 1000 mL | 1000 mL | 261102 | 06/12/15 11:42 | QCT | TAL IRV |

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

QC Sample Results

Client: Evoqua Water Technologies eProcurement

Project/Site: CWT June 2015

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-259926/1-A Client Sample ID: Method Blank **Matrix: Water Prep Type: Total/NA Prep Batch: 259926**

Analysis Batch: 260509

| | MB | MB | | | | | | | |
|-----------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Bis(2-ethylhexyl) phthalate | ND | | 20 | | ug/L | | 06/07/15 13:29 | 06/10/15 10:46 | 1 |
| Carbazole | ND | | 20 | | ug/L | | 06/07/15 13:29 | 06/10/15 10:46 | 1 |
| Fluoranthene | ND | | 10 | | ug/L | | 06/07/15 13:29 | 06/10/15 10:46 | 1 |
| para-Cresol | ND | | 10 | | ug/L | | 06/07/15 13:29 | 06/10/15 10:46 | 1 |
| n-Decane | ND | | 5.0 | | ug/L | | 06/07/15 13:29 | 06/10/15 10:46 | 1 |
| n-Octadecane | ND | | 5.0 | | ug/L | | 06/07/15 13:29 | 06/10/15 10:46 | 1 |
| o-Cresol | ND | | 10 | | ug/L | | 06/07/15 13:29 | 06/10/15 10:46 | 1 |
| 2,4,6-Trichlorophenol | ND | | 20 | | ug/L | | 06/07/15 13:29 | 06/10/15 10:46 | 1 |
| Total Cresols | ND | | 10 | | ug/L | | 06/07/15 13:29 | 06/10/15 10:46 | 1 |
| | | | | | | | | | |

| | MB | MB | | | | |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl | 68 | | 50 - 120 | 06/07/15 13:29 | 06/10/15 10:46 | 1 |
| 2-Fluorophenol | 60 | | 30 - 120 | 06/07/15 13:29 | 06/10/15 10:46 | 1 |
| Nitrobenzene-d5 | 67 | | 45 - 120 | 06/07/15 13:29 | 06/10/15 10:46 | 1 |
| Phenol-d6 | 60 | | 35 - 120 | 06/07/15 13:29 | 06/10/15 10:46 | 1 |
| Terphenyl-d14 | 70 | | 10 - 150 | 06/07/15 13:29 | 06/10/15 10:46 | 1 |
| 2,4,6-Tribromophenol | 76 | | 40 - 120 | 06/07/15 13:29 | 06/10/15 10:46 | 1 |
| | | | | | | |

Lab Sample ID: LCS 440-259926/2-A

Matrix: Water

Analysis Batch: 260509

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 259926

| | Spike | LCS | LCS | | | | %Rec. | |
|-----------------------------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Bis(2-ethylhexyl) phthalate | 100 | 80.3 | | ug/L | | 80 | 10 - 150 | |
| Carbazole | 100 | 87.5 | | ug/L | | 87 | 58 - 109 | |
| Fluoranthene | 100 | 86.7 | | ug/L | | 87 | 26 - 137 | |
| para-Cresol | 100 | 69.4 | | ug/L | | 69 | 49 - 100 | |
| o-Cresol | 100 | 68.7 | | ug/L | | 69 | 47 - 97 | |
| 2,4,6-Trichlorophenol | 100 | 77.1 | | ug/L | | 77 | 37 - 144 | |
| | | | | | | | | |

| | LCS | LCS | |
|----------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 2-Fluorobiphenyl | 72 | | 50 - 120 |
| 2-Fluorophenol | 57 | | 30 - 120 |
| Nitrobenzene-d5 | 67 | | 45 - 120 |
| Phenol-d6 | 59 | | 35 - 120 |
| Terphenyl-d14 | 83 | | 10 - 150 |
| 2,4,6-Tribromophenol | 84 | | 40 - 120 |

Lab Sample ID: LCSD 440-259926/3-A

Matrix: Water

Analysis Batch: 260509

| Client Sample | ID: L | ab Conti | rol Samp | le D |)up |
|---------------|-------|----------|----------|------|-----|
|---------------|-------|----------|----------|------|-----|

Prep Type: Total/NA Prep Batch: 259926

| | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
|-----------------------------|-------|--------|-----------|------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Bis(2-ethylhexyl) phthalate | 100 | 68.1 | | ug/L | | 68 | 10 - 150 | 17 | 35 |
| Carbazole | 100 | 71.9 | | ug/L | | 72 | 58 - 109 | 20 | 35 |
| Fluoranthene | 100 | 70.8 | | ug/L | | 71 | 26 - 137 | 20 | 35 |
| para-Cresol | 100 | 57.8 | | ug/L | | 58 | 49 - 100 | 18 | 35 |

TestAmerica Irvine

QC Sample Results

Client: Evoqua Water Technologies eProcurement

Project/Site: CWT June 2015

TestAmerica Job ID: 440-111986-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

| Lab Sample ID: LCSD 440-259926/3-A | | Client Sample ID: Lab Control Sample Dup | | | | | | | |
|------------------------------------|-------|--|-----------|------|---|---------|----------|---------|-------|
| Matrix: Water | | | | | | Prep Ty | pe: Tot | al/NA | |
| Analysis Batch: 260509 | | | | | | | Prep Ba | atch: 2 | 59926 |
| • | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| o-Cresol | 100 | 56.4 | | ug/L | | 56 | 47 - 97 | 20 | 35 |
| 2,4,6-Trichlorophenol | 100 | 66.4 | | ug/L | | 66 | 37 - 144 | 15 | 35 |

| | LCSD | LCSD | |
|----------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 2-Fluorobiphenyl | 62 | | 50 - 120 |
| 2-Fluorophenol | 46 | | 30 - 120 |
| Nitrobenzene-d5 | 55 | | 45 - 120 |
| Phenol-d6 | 49 | | 35 - 120 |
| Terphenyl-d14 | 70 | | 10 - 150 |
| 2,4,6-Tribromophenol | 71 | | 40 - 120 |

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 440-260523/1-A **Client Sample ID: Method Blank Matrix: Water Prep Type: Total Recoverable** Analysis Batch: 261456 **Prep Batch: 260523**

| | MB | MR | | | | | | | |
|----------|--------|-----------|--------|-----|------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Arsenic | ND | | 0.010 | | mg/L | | 06/10/15 10:27 | 06/15/15 12:19 | 1 |
| Cadmium | ND | | 0.0050 | | mg/L | | 06/10/15 10:27 | 06/15/15 12:19 | 1 |
| Cobalt | ND | | 0.010 | | mg/L | | 06/10/15 10:27 | 06/15/15 12:19 | 1 |
| Chromium | ND | | 0.0050 | | mg/L | | 06/10/15 10:27 | 06/15/15 12:19 | 1 |
| Copper | ND | | 0.010 | | mg/L | | 06/10/15 10:27 | 06/15/15 12:19 | 1 |
| Nickel | ND | | 0.010 | | mg/L | | 06/10/15 10:27 | 06/15/15 12:19 | 1 |
| Lead | ND | | 0.0050 | | mg/L | | 06/10/15 10:27 | 06/15/15 12:19 | 1 |
| Tin | ND | | 0.10 | | mg/L | | 06/10/15 10:27 | 06/15/15 12:19 | 1 |
| Titanium | ND | | 0.0050 | | mg/L | | 06/10/15 10:27 | 06/15/15 12:19 | 1 |
| Vanadium | ND | | 0.010 | | mg/L | | 06/10/15 10:27 | 06/15/15 12:19 | 1 |
| Zinc | ND | | 0.020 | | mg/L | | 06/10/15 10:27 | 06/15/15 12:19 | 1 |
| Silver | ND | | 0.010 | | mg/L | | 06/10/15 10:27 | 06/15/15 12:19 | 1 |
| | | | | | | | | | |

Lab Sample ID: MB 440-260523/1-A **Client Sample ID: Method Blank Matrix: Water Prep Type: Total Recoverable** Analysis Batch: 261693 **Prep Batch: 260523**

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed

ND 0.010 06/10/15 10:27 06/16/15 13:18 Antimony mg/L

Lab Sample ID: LCS 440-260523/2-A

Matrix: Water

| | | | | | - | | | |
|------------------------|-------|--------|-----------|------|---|------|----------|------------|
| Analysis Batch: 261693 | | | | | | | Prep Bat | ch: 260523 |
| | Spike | LCS | LCS | | | | %Rec. | |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Antimony | 0.500 | 0.512 | | mg/L | | 102 | 85 - 115 | |

TestAmerica Irvine

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

TestAmerica Job ID: 440-111986-1

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

70 - 130

70 - 130

96

QC Sample Results

Client: Evoqua Water Technologies eProcurement

Project/Site: CWT June 2015

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 440-111887-A-1-B MS Client Sample ID: Matrix Spike **Matrix: Water Prep Type: Total Recoverable** Analysis Batch: 261456 **Prep Batch: 260523** Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 0.500 70 - 130 Arsenic 0.11 0.610 mg/L 100 Cadmium ND 0.479 0.500 mg/L 96 70 - 130 ND 70 - 130 Cobalt 0.500 0.496 mg/L 99 Chromium 99 0.32 0.500 0.812 mg/L 70 - 130Copper ND 0.500 0.497 mg/L 99 70 - 130 Nickel ND 0.500 0.471 mg/L 94 70 - 130 Lead ND 0.500 0.468 94 70 - 130 mg/L Tin ND 0.500 0.472 94 70 - 130 mg/L Titanium ND 0.500 0.509 102 70 - 130 mg/L Vanadium 0.032 0.500 0.536 mg/L 101 70 - 130 Zinc ND 0.500 0.494 99 70 - 130mg/L Silver ND 0.250 0.246 mg/L 98 70 - 130

Lab Sample ID: 440-111887-A-1-B MS

Matrix: Water

Analysis Batch: 261693

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 260523

MS MS Sample Sample Spike %Rec. Limits **Analyte** Result Qualifier Added Result Qualifier Unit D %Rec Antimony $\overline{\mathsf{ND}}$ $\overline{\mathsf{L}}$ 0.500 0.487 mg/L 97 70 - 130

Lab Sample ID: 440-111887-A-1-C MSD

ND

 $\overline{\mathsf{ND}}$ $\overline{\mathsf{L}}$

Matrix: Water

Silver

Antimony

| Analysis Batch: 261456 | | | | | | | | | Prep Ba | rep Batch: 260523 | |
|------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-------------------|-------|
| _ | Sample | Sample | Spike | MSD | MSD | | | | %Rec. | | RPD |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Arsenic | 0.11 | | 0.500 | 0.598 | | mg/L | | 97 | 70 - 130 | 2 | 20 |
| Cadmium | ND | | 0.500 | 0.472 | | mg/L | | 94 | 70 - 130 | 2 | 20 |
| Cobalt | ND | | 0.500 | 0.487 | | mg/L | | 97 | 70 - 130 | 2 | 20 |
| Chromium | 0.32 | | 0.500 | 0.794 | | mg/L | | 95 | 70 - 130 | 2 | 20 |
| Copper | ND | | 0.500 | 0.487 | | mg/L | | 97 | 70 - 130 | 2 | 20 |
| Nickel | ND | | 0.500 | 0.459 | | mg/L | | 92 | 70 - 130 | 2 | 20 |
| Lead | ND | | 0.500 | 0.463 | | mg/L | | 93 | 70 - 130 | 1 | 20 |
| Tin | ND | | 0.500 | 0.462 | | mg/L | | 92 | 70 - 130 | 2 | 20 |
| Titanium | ND | | 0.500 | 0.501 | | mg/L | | 100 | 70 - 130 | 2 | 20 |
| Vanadium | 0.032 | | 0.500 | 0.533 | | mg/L | | 100 | 70 - 130 | 1 | 20 |
| Zinc | ND | | 0.500 | 0.479 | | mg/L | | 96 | 70 - 130 | 3 | 20 |

Lab Sample ID: 440-111887-A-1-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Water Prep Type: Total Recoverable Analysis Batch: 261693** Prep Batch: 260523 Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits **RPD** Limit

0.245

0.480

mg/L

mg/L

0.250

0.500

TestAmerica Irvine

20

QC Sample Results

Client: Evoqua Water Technologies eProcurement

Project/Site: CWT June 2015

TestAmerica Job ID: 440-111986-1

Prep Type: Total/NA

Prep Type: Total/NA

| Met | hod: | 7470A | - Mercı | ıry (C\ | /AA) |
|-----|------|-------|---------|---------|------|
| | | | | | |

Lab Sample ID: MB 440-262226/1-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 262310 Prep Batch: 262226

MB MB

Analyte Result Qualifier RL **MDL** Unit Analyzed Dil Fac **Prepared** 0.00020 06/18/15 13:27 06/18/15 17:47 ND mg/L Mercury

Lab Sample ID: LCS 440-262226/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 262310 Prep Batch: 262226 Spike LCS LCS %Rec.

Added Limits Analyte Result Qualifier Unit %Rec 80 - 120 Mercury 0.00800 0.00851 mg/L 106

Lab Sample ID: 440-111986-1 MS Client Sample ID: 500 mL P Metals

Matrix: Water

Analysis Batch: 262310 Prep Batch: 262226

Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec Mercury 0.00024 0.00800 0.00815 mg/L 99 70 - 130

Client Sample ID: 500 mL P Metals Lab Sample ID: 440-111986-1 MSD Prep Type: Total/NA

Matrix: Water

Analysis Batch: 262310

Prep Batch: 262226 Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Mercury 0.00024 0.00800 0.00797 97 70 - 130 20 mg/L

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 440-261004/1-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 261102

Prep Batch: 261004 MB MB Result Qualifier RL **MDL** Unit Prepared Analyte Analyzed Dil Fac

HEM 5.0 06/12/15 07:04 06/12/15 11:42 ND mg/L

Lab Sample ID: LCS 440-261004/2-A **Client Sample ID: Lab Control Sample**

Matrix: Water Prep Type: Total/NA **Analysis Batch: 261102** Prep Batch: 261004

Spike LCS LCS %Rec. Added Result Qualifier Unit %Rec Limits

Analyte HEM 20.0 89 78 - 114 17.8 mg/L

Lab Sample ID: LCSD 440-261004/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 261102 Prep Batch: 261004 LCSD LCSD Spike %Rec. **RPD** Added Analyte Result Qualifier Unit D %Rec Limits RPD

Limit HEM 20.0 18.6 mg/L 93 78 - 114 5

TestAmerica Job ID: 440-111986-1

QC Association Summary

Client: Evoqua Water Technologies eProcurement

Project/Site: CWT June 2015

GC/MS Semi VOA

Prep Batch: 259926

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|---------------------------|-----------|--------|--------|------------|
| 440-111986-2 | Sample 1, 1L Amber(Black) | Total/NA | Water | 625 | |
| 440-111986-3 | Sample 2, 1L Amber(Blue) | Total/NA | Water | 625 | |
| 440-111986-4 | Sample 3, 1L Amber(Pink) | Total/NA | Water | 625 | |
| 440-111986-5 | Sample 4, 1L Amber(Green) | Total/NA | Water | 625 | |
| LCS 440-259926/2-A | Lab Control Sample | Total/NA | Water | 625 | |
| LCSD 440-259926/3-A | Lab Control Sample Dup | Total/NA | Water | 625 | |
| MB 440-259926/1-A | Method Blank | Total/NA | Water | 625 | |

Analysis Batch: 260509

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|---------------------------|-----------|--------|--------|------------|
| 440-111986-2 | Sample 1, 1L Amber(Black) | Total/NA | Water | 625 | 259926 |
| 440-111986-3 | Sample 2, 1L Amber(Blue) | Total/NA | Water | 625 | 259926 |
| 440-111986-4 | Sample 3, 1L Amber(Pink) | Total/NA | Water | 625 | 259926 |
| 440-111986-5 | Sample 4, 1L Amber(Green) | Total/NA | Water | 625 | 259926 |
| LCS 440-259926/2-A | Lab Control Sample | Total/NA | Water | 625 | 259926 |
| LCSD 440-259926/3-A | Lab Control Sample Dup | Total/NA | Water | 625 | 259926 |
| MB 440-259926/1-A | Method Blank | Total/NA | Water | 625 | 259926 |

Metals

Prep Batch: 260523

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-------------------|--------|--------|------------|
| 440-111887-A-1-B MS | Matrix Spike | Total Recoverable | Water | 200.2 | |
| 440-111887-A-1-C MSD | Matrix Spike Duplicate | Total Recoverable | Water | 200.2 | |
| 440-111986-1 | 500 mL P Metals | Total Recoverable | Water | 200.2 | |
| LCS 440-260523/2-A | Lab Control Sample | Total Recoverable | Water | 200.2 | |
| MB 440-260523/1-A | Method Blank | Total Recoverable | Water | 200.2 | |

Analysis Batch: 261456

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-------------------|--------|---------------|------------|
| 440-111887-A-1-B MS | Matrix Spike | Total Recoverable | Water | 200.7 Rev 4.4 | 260523 |
| 440-111887-A-1-C MSD | Matrix Spike Duplicate | Total Recoverable | Water | 200.7 Rev 4.4 | 260523 |
| 440-111986-1 | 500 mL P Metals | Total Recoverable | Water | 200.7 Rev 4.4 | 260523 |
| MB 440-260523/1-A | Method Blank | Total Recoverable | Water | 200.7 Rev 4.4 | 260523 |

Analysis Batch: 261693

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-------------------|--------|---------------|------------|
| 440-111887-A-1-B MS | Matrix Spike | Total Recoverable | Water | 200.7 Rev 4.4 | 260523 |
| 440-111887-A-1-C MSD | Matrix Spike Duplicate | Total Recoverable | Water | 200.7 Rev 4.4 | 260523 |
| 440-111986-1 | 500 mL P Metals | Total Recoverable | Water | 200.7 Rev 4.4 | 260523 |
| LCS 440-260523/2-A | Lab Control Sample | Total Recoverable | Water | 200.7 Rev 4.4 | 260523 |
| MB 440-260523/1-A | Method Blank | Total Recoverable | Water | 200.7 Rev 4.4 | 260523 |

Prep Batch: 262226

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 440-111986-1 | 500 mL P Metals | Total/NA | Water | 7470A | |
| 440-111986-1 MS | 500 mL P Metals | Total/NA | Water | 7470A | |
| 440-111986-1 MSD | 500 mL P Metals | Total/NA | Water | 7470A | |
| LCS 440-262226/2-A | Lab Control Sample | Total/NA | Water | 7470A | |
| MB 440-262226/1-A | Method Blank | Total/NA | Water | 7470A | |

TestAmerica Irvine

QC Association Summary

Client: Evoqua Water Technologies eProcurement

Project/Site: CWT June 2015

TestAmerica Job ID: 440-111986-1

Metals (Continued)

Analysis Batch: 262310

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 440-111986-1 | 500 mL P Metals | Total/NA | Water | 7470A | 262226 |
| 440-111986-1 MS | 500 mL P Metals | Total/NA | Water | 7470A | 262226 |
| 440-111986-1 MSD | 500 mL P Metals | Total/NA | Water | 7470A | 262226 |
| LCS 440-262226/2-A | Lab Control Sample | Total/NA | Water | 7470A | 262226 |
| MB 440-262226/1-A | Method Blank | Total/NA | Water | 7470A | 262226 |

General Chemistry

Prep Batch: 261004

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|---------------------------|-----------|--------|--------|------------|
| 440-111986-2 | Sample 1, 1L Amber(Black) | Total/NA | Water | 1664A | _ |
| 440-111986-3 | Sample 2, 1L Amber(Blue) | Total/NA | Water | 1664A | |
| 440-111986-4 | Sample 3, 1L Amber(Pink) | Total/NA | Water | 1664A | |
| 440-111986-5 | Sample 4, 1L Amber(Green) | Total/NA | Water | 1664A | |
| LCS 440-261004/2-A | Lab Control Sample | Total/NA | Water | 1664A | |
| LCSD 440-261004/3-A | Lab Control Sample Dup | Total/NA | Water | 1664A | |
| MB 440-261004/1-A | Method Blank | Total/NA | Water | 1664A | |

Analysis Batch: 261102

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|---------------------------|-----------|--------|--------|------------|
| 440-111986-2 | Sample 1, 1L Amber(Black) | Total/NA | Water | 1664A | 261004 |
| 440-111986-3 | Sample 2, 1L Amber(Blue) | Total/NA | Water | 1664A | 261004 |
| 440-111986-4 | Sample 3, 1L Amber(Pink) | Total/NA | Water | 1664A | 261004 |
| 440-111986-5 | Sample 4, 1L Amber(Green) | Total/NA | Water | 1664A | 261004 |
| LCS 440-261004/2-A | Lab Control Sample | Total/NA | Water | 1664A | 261004 |
| LCSD 440-261004/3-A | Lab Control Sample Dup | Total/NA | Water | 1664A | 261004 |
| MB 440-261004/1-A | Method Blank | Total/NA | Water | 1664A | 261004 |

TestAmerica Job ID: 440-111986-1

Definitions/Glossary

Client: Evoqua Water Technologies eProcurement

Toxicity Equivalent Quotient (Dioxin)

Project/Site: CWT June 2015

Glossary

TEQ

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative error ratio |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |

Certification Summary

Client: Evoqua Water Technologies eProcurement

Project/Site: CWT June 2015

TestAmerica Job ID: 440-111986-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|--------------------------|-----------------------------|------------|-------------------|------------------------|
| Alaska | State Program | 10 | CA01531 | 06-30-15 |
| Arizona | State Program | 9 | AZ0671 | 10-13-15 |
| California | LA Cty Sanitation Districts | 9 | 10256 | 01-31-16 * |
| California | State Program | 9 | 2706 | 06-30-16 |
| Guam | State Program | 9 | Cert. No. 12.002r | 01-23-16 |
| Hawaii | State Program | 9 | N/A | 01-29-16 |
| Nevada | State Program | 9 | CA015312007A | 07-31-15 |
| New Mexico | State Program | 6 | N/A | 01-29-15 * |
| Northern Mariana Islands | State Program | 9 | MP0002 | 01-29-15 * |
| Oregon | NELAP | 10 | 4005 | 01-29-16 |

^{*} Certification renewal pending - certification considered valid.

| Q | 2 |
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| Test America AMAGNICAL TESTING CORPORATION | _ | | | CH
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,CA | lis, IN | 1 | me | thod | s, is | this | | being | oper ar | | | | |
|--|----------------|---------------------------------------|--------------------|--------------------------------|-----------|----------------|--|------------------|--|--|-------------|--------------|--------|---------------|-------------|------------------|-----------|--------------|-----------|------------|---------|----------------|--------|------------------|---------------|--------------|------------|----|
| Client Name/Account #: | Evoqua Water | Technolog | ies | | | | | | | | | - 1 | | | - 1 | | | | | Con | nplia | nce N | Monito | ring? | Ye | s | No | |
| Address: | POB 3308 / 252 | 23 Mutahar | St | | | | | ÷ | | 1 | | | | | _ | | | | | Enfo | orce | ment | Action | 1? | Ye | s | No | |
| City/State/Zip: | Parker, AZ 85 | 344 | | | | | | | | _ | | | | | R | epor | t To | : <u>Ja</u> | mes | R.F | Pro | vins@ | Devo | qua.c | om | | | |
| Project Manager: | | , , , , , , , , , , , , , , , , , , , | | | | | | _ | | 4 | _ | | | | _ In | voice | е То | : | | | 1 | | | 35 | | | _ | |
| Telephone Number: | (928) 669-5758 | | | | _ | Fax | No.: | (92 | 8) 669 | -57 | 75 | | | _ | TA | Quo | te# | : | | | | | | | | | _ | |
| Sampler Name: (Print) | Roy Provins | | | | | | | | | 4 | _ | | | | _ P | rojec | et ID | : CV | VT J | une | 201 | 5 | | | | | _ | |
| Sampler Signature | | | | _ | | | | | | - | | _ | | | | Proje | ect# | : | | | _ | | | | | | _ | |
| 1986 Chain of Custody | peld | ped | Containers Shipped | | | pg. | ib formation | | (Orange Label) | / Label) | label) | | | Matri | | /):
An 200 7 | Cu 2007 | Sb, 200.7 | | | | se 1664 HEM of | | | (Pre-Schedule | Standard TAT | th report | |
| Sample ID / Description | Date Sampled | Time Sampled | No. of Cont | Grab | Composite | Field Filtered | ice | HCI (Blue Label) | NaOH (Orange
H ₂ SO ₄ Plastic (| H ₂ SO ₄ Glass(Yel | None (White | Groundwater | Water. | Drinking Wate | Soil | Other (specify): | Ti Ph Cd | Co. V. Sn. 8 | Cr, 200.7 | Hg - 7470A | 325-EFF | Oil & Grease | | | RUSH TAT | Standard TA | Send QC wi | |
| 500 ml P metals | 6/3/2015 | 8:00 | 1 | | | | 100 | | \top | Ħ | \dagger | 1 | | T | T | 1 | | | | | T | | | \top | | 0) [| - 07 | |
| Sample 1, 1L Amber(Black) | 06/02/15 | 10:00 | 2 | 917 | | | | | \top | П | \top | T | | 1 | T | | | | 200 | | | | | | | X | П | |
| Sample 1, 1L Amber(Black) | 06/02/15 | 10:00 | 2 | | | | 8 | | | Ħ | | † | | \top | T | \top | T | \top | T | \vdash | | П | \top | \top | | X | П | |
| Sample 2, 1L Amber(Blue) | 06/02/15 | 16:00 | 2 | | | | | | | П | | T | | T | | \Box | T | | T | | | | | | | X | | |
| Sample 2, 1L Amber(Blue) | 06/02/15 | 16:00 | 2 | | | | 8 | T | | П | 2 | T | | T | T | | 1 | | T | | | П | | | | X | | |
| Sample 3, 1L Amber(Pink) | 06/02/15 | 22:00 | 2 | | | | 1 | 7.3 | | T | | T | | T | T | П | | | T | | Г | 藝 | | | \top | X | | |
| Sample 3, 1L Amber(Pink) | 06/02/15 | 22:00 | 2 | | | | 100 | Т | П | П | | T | | 1 | T | П | | | | T | | П | | | | X | T | |
| Sample 4, 1L Amber(Green) | 06/03/15 | 4:00 | 2 | | | | | | | T | П | T | | T | | П | T | | T | T | Г | | | | | х | | |
| Sample 4, 1L Amber(Green) | 06/03/15 | 4:00 | 2 | | | | | | | | | | | | | | | | | | SH. | | | | | Х | | |
| | | 1000 | | | | | | | | T | | T | | | | | | | | | | | | | | | | |
| Special Instructions: Colors refer to tape on lid Relinquished by: | Da | | Т | ime | Rece | eived | The state of the s | hod | of Sh | ipm | ent: | | T | Dat | | PS T | ime | L | Te | empe | eratu | | | eceipt:
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-\ | | | | | IP | 2 | <u></u> | 2 | A | 75 | 208 | 5 13
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Login Sample Receipt Checklist

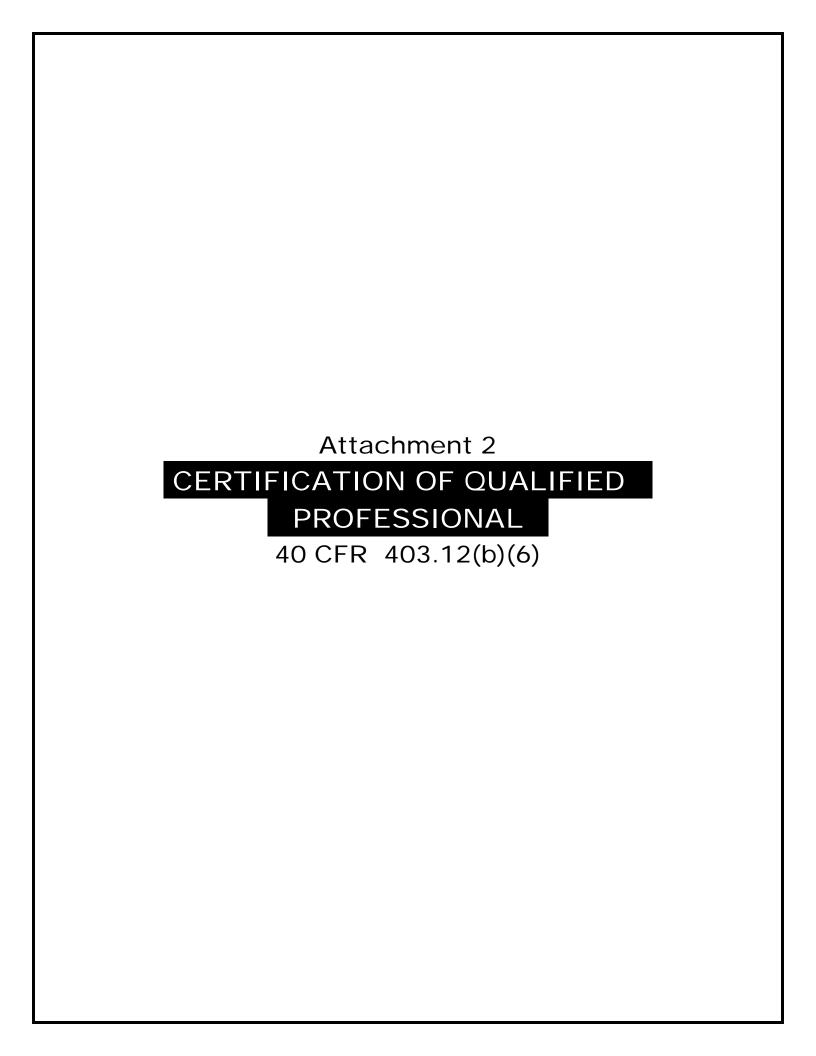
Client: Evoqua Water Technologies eProcurement

Job Number: 440-111986-1

Login Number: 111986 List Source: TestAmerica Irvine

List Number: 1 Creator: Kim, Guerry

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td> | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |



Certification of Qualified Professional

40 CFR 403.12(b)(6)

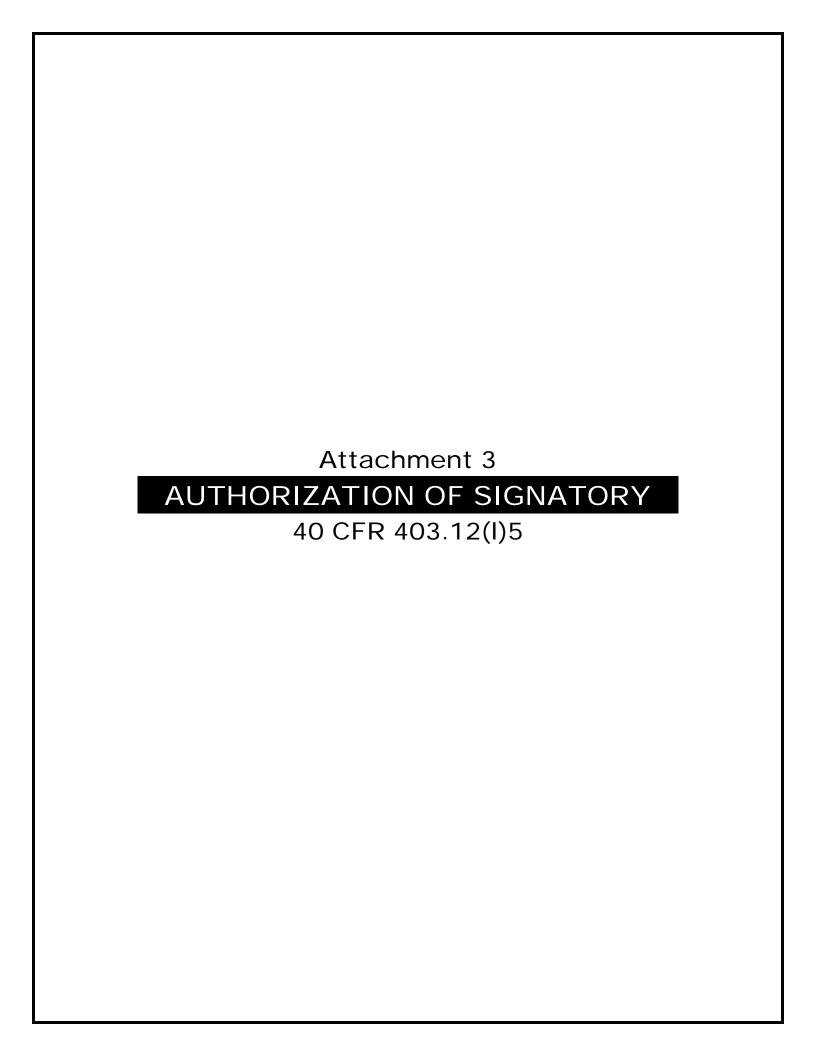
I have reviewed the Evoqua Water Technologies inc. LLC treatment process and the effluent analytical results from the wastewater treatment plant contained in this report. Based on this review, I certify, as a qualified professional, that the Evoqua facility is meeting the applicable Pretreatment Standards on a consistent basis.

I am also an authorized representative for Evoqua Water Technoloties., and I have reviewed this statement.

Monte McCue

Director of Plant Operations

Date: June 22, 2015





WESTATES 2523 MUTAHAR STREET (PHYSICAL) PO BOX 3308(MAILING) PARKER, AZ 85344 TELEPHONE FACSIMILE WEBSITE 928-669-5758 928-669-5775 www.usfilter.com

June 1, 2005

Keith Silva WTR-7 U.S. EPA Region 9 75 Hawthorne Street San Francisco, CA 94105

RE: Authorization of Signatory

Dear Mr. Silva:

Pursuant to the signatory requirements under 40 CFR 403.12 (I), US Filter Corporation grants authorization to Monte McCue, Director of Plant Operations and/or Willard Bolyard, Jr. Plant Manager to sign on behalf of Westates Carbon-Arizona, Inc. for the purposes of certifying industrial user reports.

The above persons have the overall responsibility for the operations of the facility and the overall responsibility for environmental matters for Westates Carbon-Arizona, Inc.

Yours Truly,

Chuck Gordon

Executive Vice President

Westates Carbon-Arizona Inc.

2l & Gord

Appendix M

Last Annual Emissions Results (2015) for Fugitive Emissions Measured Using a Foxboro FID

Instrument Used: Foxboro TVA 1000 FID

Tested By: Monte McCue

| No. | Location ID | Date
Inspected | Measured
Concentration
(PPMV) | Background
Concentration
(PPMV) | Leak
Detected?
(Y/N) * | Description
Of
Problem | Corrective
Action
Taken | Date Of
Successful
Repair ** |
|-----|---|-------------------|-------------------------------------|---------------------------------------|------------------------------|----------------------------------|-------------------------------|------------------------------------|
| 1 | B-1 Baghouse Doors | 8/5/2015 | <5 | <5 | N | | | NA |
| 2 | B-1 Dust Collector Blower Outlet Flanges | 8/5/2015 | <5 | <5 | N | | | NA |
| 3 | H-1 Hopper Lid | 8/5/2015 | 12 | <5 | N | Dumping Spent
Carbon Lid Open | | NA |
| 4 | H-1 Hopper Eductor, Piping and Victaulics | 8/5/2015 | 30 | 30 | N | | | NA |
| 5 | H-1 Hopper Flanges, Piping and Victaulics | 8/5/2015 | <5 | <5 | N | | | NA |
| 6 | H-1 Hopper Vault Door | 8/5/2015 | <5 | <5 | N | | | NA |
| 7 | H-2 Hopper Lid | 8/5/2015 | <5 | <5 | N | | | NA |
| 8 | H-2 Hopper Eductor Flanges and Victaulics | 8/5/2015 | <5 | <5 | N | | | NA |
| 9 | H-2 Hopper Piping and Victaulics | 8/5/2015 | <5 | <5 | N | | | NA |
| 10 | H-2 Hopper Vent Piping | 8/5/2015 | <5 | <5 | N | | | NA |
| 11 | RF-2 Hearth 1 Door West | 8/5/2015 | <5 | <5 | N | | | NA |
| 12 | RF-2 Seal Welded Flat - between 1 and 2 | 8/5/2015 | <5 | <5 | N | | | NA |
| 13 | RF-2 Hearth 2 Door East | 8/5/2015 | <5 | <5 | N | | | NA |
| 14 | RF-2 Seal Welded Flat - between 2 and 3 | 8/5/2015 | <5 | <5 | N | | | NA |
| 15 | RF-2 Hearth 3 Door East | 8/5/2015 | <5 | <5 | N | | | NA |

Instrument Used: Foxboro TVA 1000 FID

Tested By: Monte McCue

| No. | Location ID | Date
Inspected | Measured
Concentration
(PPMV) | Background
Concentration
(PPMV) | Leak
Detected?
(Y/N) * | Description
Of
Problem | Corrective
Action
Taken | Date Of
Successful
Repair ** |
|-----|--|-------------------|-------------------------------------|---------------------------------------|------------------------------|------------------------------|-------------------------------|------------------------------------|
| 16 | RF-2 Seal Welded Flat - between 3 and 4 | 8/5/2015 | <5 | <5 | N | | | NA |
| 17 | RF-2 Hearth 4 Door East | 8/5/2015 | <5 | <5 | Ν | | | NA |
| 18 | RF-2 Seal Welded Flat - between 4 and 5 | 8/5/2015 | <5 | <5 | N | | | NA |
| 19 | RF-2 Hearth 5 Door East | 8/5/2015 | <5 | <5 | N | | | NA |
| 20 | RF-2 Welded Seam on Furnace Bottom | 8/5/2015 | <5 | <5 | N | | | NA |
| 21 | RF-2 Top Sand Seal | 8/5/2015 | <5 | <5 | N | | | NA |
| 22 | RF-2 Bottom Sand Seal | 8/5/2015 | <5 | <5 | Ν | | | NA |
| 23 | RF-2 Carbon Outlet Piping and Flanges | 8/5/2015 | <5 | <5 | Ν | | | NA |
| 24 | T-1 Ball Valves | 8/5/2015 | <5 | <5 | Ν | Not in Use | | NA |
| 25 | T-1 Couplings | 8/5/2015 | <5 | <5 | Ν | Not in Use | | NA |
| 26 | T-1 Eductor & Fittings | 8/5/2015 | <5 | <5 | N | Not in Use | | NA |
| 27 | T-1 Fill Slurry Lines & Vics From H-1, H-2 | 8/5/2015 | <5 | <5 | Ν | Not in Use | | NA |
| 28 | T-1 Fittings & Valves | 8/5/2015 | <5 | <5 | Ν | Not in Use | | NA |
| 29 | T-1 (SEE ATTACHMENT No. 1) | 8/5/2015 | | | Ν | Not in Use | | NA |
| 30 | T-1 Pressure Relief Valve | 8/5/2015 | <5 | <5 | N | Not in Use | | NA |

Instrument Used: Foxboro TVA 1000 FID

Tested By: Monte McCue

| No. | Location ID | Date
Inspected | Measured
Concentration
(PPMV) | Background
Concentration
(PPMV) | Leak
Detected?
(Y/N) * | Description
Of
Problem | Corrective
Action
Taken | Date Of
Successful
Repair ** |
|-----|--|-------------------|-------------------------------------|---------------------------------------|------------------------------|------------------------------|-------------------------------|------------------------------------|
| 31 | T-1 Slurry Line | 8/5/2015 | <5 | <5 | N | Not in Use | | NA |
| 32 | T-1 Tank Flanges | 8/5/2015 | <5 | <5 | Ν | Not in Use | | NA |
| 33 | T-1 Vent Pipe To WS-1 | 8/5/2015 | <5 | <5 | N | Not in Use | | NA |
| 34 | T-2 Ball Valves | 8/5/2015 | <5 | <5 | N | Not in Use | | NA |
| 35 | T-2 Couplings | 8/5/2015 | <5 | <5 | N | Not in Use | | NA |
| 36 | T-2 Eductor & Fittings | 8/5/2015 | <5 | <5 | N | Not in Use | | NA |
| 37 | T-2 Fill Slurry Lines & Vics From H-1, H-2 | 8/5/2015 | <5 | <5 | N | Not in Use | | NA |
| 38 | T-2 Fittings & Valves | 8/5/2015 | <5 | <5 | N | Not in Use | | NA |
| 39 | T-2 Tank (SEE ATTACHMENT No. 1) | 8/5/2015 | | | Ν | Not in Use | | NA |
| 40 | T-2 Pressure Relief Valve | 8/5/2015 | <5 | <5 | Ν | Not in Use | | NA |
| 41 | T-2 Slurry Line | 8/5/2015 | <5 | <5 | N | Not in Use | | NA |
| 42 | T-2 Tank Flanges | 8/5/2015 | <5 | <5 | Ν | Not in Use | | NA |
| 43 | T-2 Vent Pipe To WS-1 | 8/5/2015 | <5 | <5 | Ν | Not in Use | | NA |
| 44 | T-5 Ball Valves | 8/5/2015 | <5 | <5 | Ν | | | NA |
| 45 | T-5 Couplings | 8/5/2015 | <5 | <5 | N | | | NA |

Evoqua Water Technologies - Parker, AZ Facility Annual Method 21 Testing

40 CFR 61.343, 345, 349

| nstrum | ent Used: Foxboro TVA 1000 FID | Tested By: Monte McCue | | | | | | | | | |
|--------|--|------------------------|-------------------------------------|---------------------------------------|------------------------------|------------------------------|-------------------------------|------------------------------------|--|--|--|
| No. | Location ID | Date
Inspected | Measured
Concentration
(PPMV) | Background
Concentration
(PPMV) | Leak
Detected?
(Y/N) * | Description
Of
Problem | Corrective
Action
Taken | Date Of
Successful
Repair ** | | | |
| 46 | T-5 Eductor & Fittings | 8/5/2015 | <5 | <5 | N | | | NA | | | |
| 47 | T-5 Fill Slurry Lines & Vics From H-1, H-2 | 8/5/2015 | <5 | <5 | N | | | NA | | | |
| 48 | T-5 Fittings & Valves | 8/5/2015 | <5 | <5 | N | | | NA | | | |
| 49 | T-5 (SEE ATTACHMENT No. 2) | 8/5/2015 | | | N | | | NA | | | |
| 50 | T-5 Pressure Relief Valve | 8/5/2015 | <5 | <5 | N | | | NA | | | |
| 51 | T-5 Slurry Line | 8/5/2015 | <5 | <5 | N | | | NA | | | |
| 52 | T-5 Tank Flanges | 8/5/2015 | <5 | <5 | N | | | NA | | | |
| 53 | T-5 Vent Pipe To WS-1 | 8/5/2015 | <5 | <5 | N | | | NA | | | |
| 54 | T-6 Ball Valves | 8/5/2015 | <5 | <5 | N | Not in Use | | NA | | | |
| 55 | T-6 Couplings | 8/5/2015 | <5 | <5 | N | Not in Use | | NA | | | |
| 56 | T-6 Eductor & Fittings | 8/5/2015 | <5 | <5 | N | Not in Use | | NA | | | |
| 57 | T-6 Fill Slurry Lines & Vics From H-1, H-2 | 8/5/2015 | <5 | <5 | N | Not in Use | | NA | | | |
| 58 | T-6 Fittings & Valves | 8/5/2015 | <5 | <5 | N | Not in Use | | NA | | | |
| 59 | T-6 (SEE ATTACHMENT No. 2) | 8/5/2015 | | | N | Not in Use | | NA | | | |
| 60 | T-6 Pressure Relief Valve | 8/5/2015 | <5 | <5 | N | Not in Use | | NA | | | |

Tested By:

Monte McCue

Instrument Used: Foxboro TVA 1000 FID

Measured Background Leak Description Corrective Date Of No. Location ID Inspected Concentration Concentration Detected? Action Successful (PPMV) (PPMV) (Y/N) * Problem Taken Repair ** 8/5/2015 61 T-6 Slurry Line <5 <5 Ν Not in Use NA 8/5/2015 62 T-6 Tank Flanges <5 <5 Ν Not in Use NA 8/5/2015 <5 <5 Ν 63 T-6 Vent Pipe To WS-1 Not in Use NA Note: There was no reading <500 8/5/2015 Ν T-9 (SEE ATTACHMENT No. 3) NA 64 opm but the lid was re-siliconed an rebolt to insure a good seal 8/5/2015 <5 <5 Ν T-9 Level Transmitter NA 65 8/5/2015 <5 T-9 Main Bottom Manway Door <5 Ν NA 66 8/5/2015 67 T-9 Return Line and Fittings From T Tanks <5 <5 Ν NA 8/5/2015 <5 <5 Ν 68 T-9 Return Line and Fittings From T-18 NA 8/5/2015 69 T-9 Sump Pump Fittings <5 <5 Ν NA 70 T-9 Vent Line and Fittings To WS-1 8/5/2015 <5 <5 Ν NA T-9/P-4 Pump - Inlet Pipe and Fittings 8/5/2015 <5 <5 71 Ν NA T-9/P-5 Pump - Inlet Pipe and Fittings 8/5/2015 <5 Ν <5 72 NA T-9/P-4 Pump - Outlet Pipe and Fittings 8/5/2015 <5 <5 Ν NA 73 8/5/2015 <5 <5 Ν T-9/P-5 Pump - Outlet Pipe and Fittings 74 NA 8/5/2015 <5 <5 75 H-18 Feed Hose & Couplings Ν NA

Evoqua Water Technologies - Parker, AZ Facility Annual Method 21 Testing

40 CFR 61.343, 345, 349

Tested By:

Monte McCue

Instrument Used: Foxboro TVA 1000 FID

| No. | Location ID | Date
Inspected | Measured
Concentration
(PPMV) | Background
Concentration
(PPMV) | Leak
Detected?
(Y/N) * | Description
Of
Problem | Corrective
Action
Taken | Date Of
Successful
Repair ** |
|-----|--|-------------------|-------------------------------------|---------------------------------------|------------------------------|------------------------------|-------------------------------|------------------------------------|
| 76 | H-18 Feed Valve & Piping | 8/5/2015 | <5 | <5 | N | | | NA |
| 77 | H-18 Level Indicators | 8/5/2015 | <5 | <5 | Ν | | | NA |
| 78 | H-18 Lids (SEE ATTACHMENT No. 4) | 8/5/2015 | | | N | | | NA |
| 79 | H-18 Return Line, Couplings and Vics | 8/5/2015 | <5 | <5 | N | | | NA |
| 80 | H-18 Piping and Couplings From T-Tanks | 8/5/2015 | <5 | <5 | N | | | NA |
| 81 | WS-1 Hatches & Sample Port | 8/5/2015 | <5 | <5 | N | | | NA |
| 82 | WS-1 Inlet | 8/5/2015 | 8120 | NA | N | | | NA |
| 83 | WS-1 Outlet | 8/5/2015 | 6 | <5 | N | | | NA |
| 84 | WS-2 Hatches & Sample Port | 8/5/2015 | <5 | <5 | N | | | NA |
| 85 | WS-2 Inlet | 8/5/2015 | <5 | <5 | N | | | NA |
| 86 | WS-2 Outlet | 8/5/2015 | <5 | <5 | N | | | NA |
| 87 | WS-3 Hatches & Sample Port | 8/5/2015 | <5 | <5 | N | | | NA |
| 88 | WS-3 Inlet | 8/5/2015 | <5 | <5 | N | | | NA |
| 89 | WS-3 Outlet | 8/5/2015 | <5 | <5 | N | | | NA |
| 90 | Dewater Screw (SEE ATTACHMENT No. 4) | 8/5/2015 | | | N | | | NA |

^{*}A leak is detected if the container is not sealed closed, or if the instrument reading exceeds 500 ppmv over the background concentration. **Repair must be completed within 15 days.

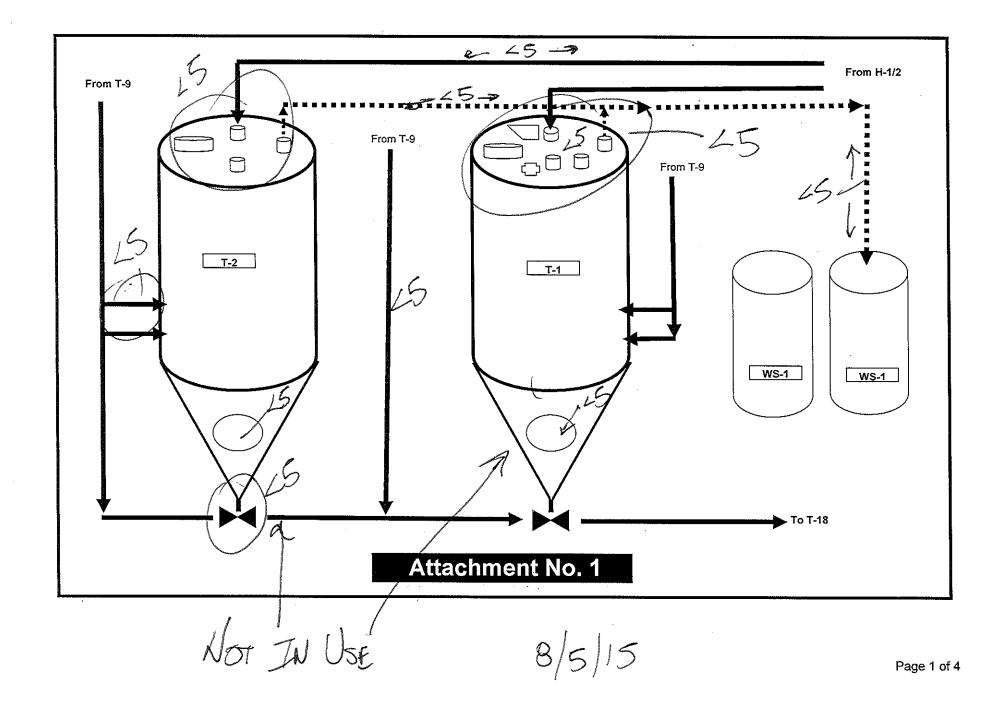
Evoqua Water Technologies - Parker, AZ Facility

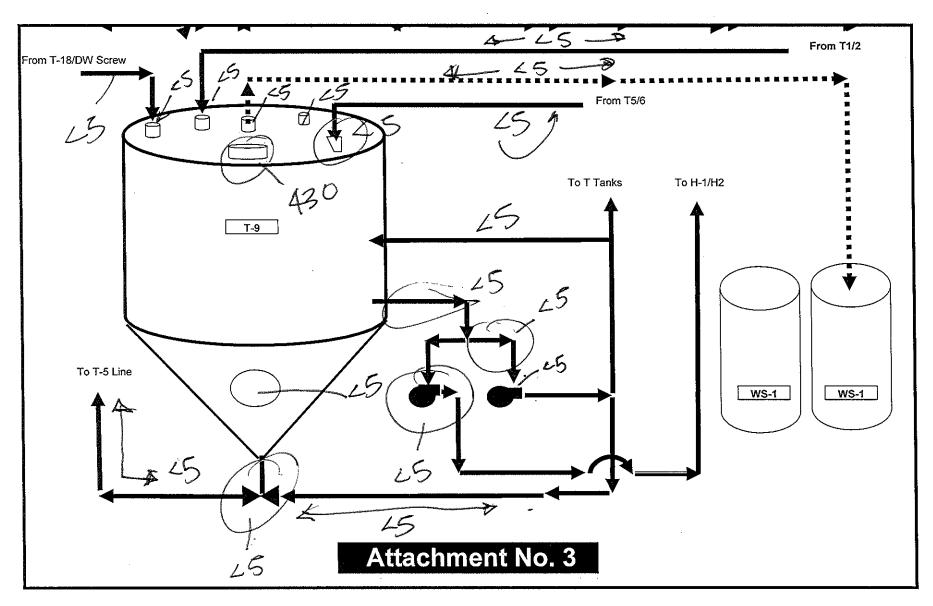
Annual Method 21 Testing

40 CFR 61.343, 345, 349

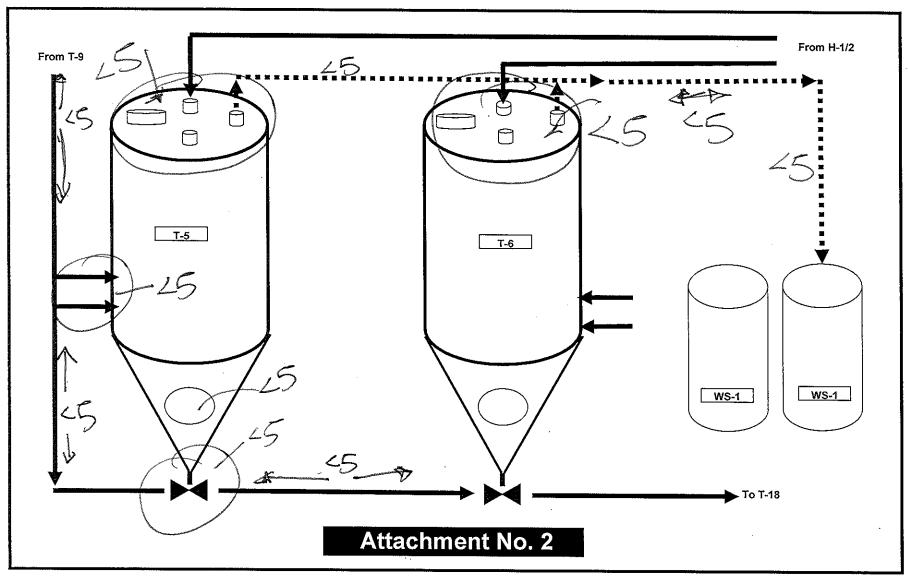
Instrument Used: Foxboro TVA 1000 FID Tested By: Monte McCue

| No. | Location ID | Date
Inspected | Measured
Concentration
(PPMV) | Background
Concentration
(PPMV) | Leak
Detected?
(Y/N) * | Description
Of
Problem | Corrective
Action
Taken | Date Of
Successful
Repair ** |
|-----|--|-------------------|-------------------------------------|---------------------------------------|------------------------------|------------------------------|-------------------------------|------------------------------------|
| 91 | Weigh Belt Feeder (SEE ATTACHMENT No. 4) | 8/5/2015 | | | N | | | NA |
| 92 | Rotary Valve (SEE ATTACHMENT No. 4) | 8/5/2015 | | | N | | | NA |
| 93 | | | | | | | | |
| 94 | | | | | | | | |
| 95 | | | | | | | | |
| 96 | | | | | | | | |
| 97 | | | | | | | | |
| 98 | | | | | | | | |
| 99 | | | | | | | | |
| 100 | | | | | | | | |



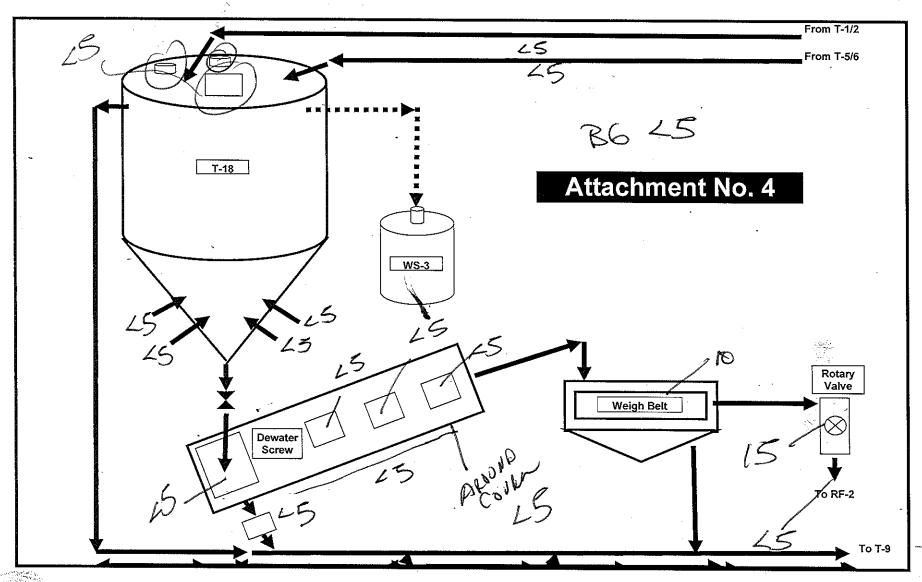


8/5/13



8/5/15

T-6 NOT IN Use



8/5/15

Foxboro TVA1000A Calibration Record Calibration Documentation Serial Number: 11575766

Calibrated By: Monte McCue Date: 5-Aug-2015

| Test | Time * | H/L | Response | Gas Value | Difference |
|------|--------|-----|----------|------------------|------------|
| No. | Sec. | | ppm | ppm | ppm |
| | X | X | 0.90 | 0.5 | Χ |
| 1 | 5.65 | Н | 9,900 | 10,000 | -100 |
| 2 | 5.52 | Н | 10,000 | 10,000 | 0 |
| 3 | 5.47 | Н | 9,900 | 10,000 | -100 |

^{*} Denotes seconds to reach 90% of the gas value

Methane Values: HIGH 10,000

LOW 0.0

CALCULATIONS: H AVG. = 5.55 seconds ◀

ABSOLUTE MEAN DIFFERENCE CALIBRATION ERROR (CE)

<u>High</u>

66.67 0.67% **←**

Calibration Precision Requirements (8.1.2)

- 1. Calibration must be less than or equal 10% of the gas value
- 2. Response time must be less than or equal to 30 seconds to reach 90% of gas value
- 3. The calibration test must be completed prior to placing the analyzer into service and at subsequent 3-month intervals or at next use, whichever is later.

Appendix N

Appendix I of the Permit Application Reference 5

APPENDIX I

RCRA PART A PERMIT APPLICATION

FOR

SIEMENS INDUSTRY, INC.

PARKER REACTIVATION FACILITY

PARKER, ARIZONA

Revision 1 April 2012

TABLE OF CONTENTS

TAB

- 1 RCRA PART A PERMIT APPLICATION 1996
- 2 RCRA PART A PERMIT APPLICATION Revised Part A Forms (Consistent with Part B Application For Information Purposes Only)

ATTACHMENT A – Item 9 – Legal Owner Information

ATTACHMENT B – Item 11 – Topographic Map

ATTACHMENT C – Item 12 – Facility Drawing

ATTACHMENT D – Item 13 – Photographs

REVISED RCRA PART A PERMIT APPLICATION





REVISED RCRA PART A PERMIT APPLICATION

FOR

WESTATES CARBON - ARIZONA, INC.

PARKER REACTIVATION FACILITY

PARKER, ARIZONA

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| TAB | DESCRIPTION |
|-----|---|
| 1 | INTRODUCTION |
| 2 | REVISED RCRA PART A PERMIT APPLICATION FORM |
| 3 | INDEX OF ATTACHMENTS |
| 4 | ATTACHMENT A: Item VIII Facility Owner |
| 5 | ATTACHMENT B: Item XV - Map |
| 6 | ATTACHMENT C: Item XVI Facility Drawing |
| 7 | ATTACHMENT D: Item XVII Photographs |

1.0 INTRODUCTION

WCAI is submitting a revised Part A permit application to reflect current facility operations.

Revisions include the following.

- 1 .Revision of the process flow diagram (Drawing No. 11135-002) to reflect recent facility modifications.
 - a. Addition of existing overflow lines, from spent carbon storage tanks (T-1, T-2, T-5, and T-6) to Recycle Water Tank (T-12), to the process flow diagram (Drawing No. 11135-002). These overflow lines were installed during the initial construction of the facility, but were inadvertently omitted from the process flow diagram.
 - b. Proposed addition of a water treatment system for recycle water as part of the facility's exempt wastewater treatment system. This system constitutes a wastwater treatment unit that is exempt from the requirements of Parts 264 and 265 in accordance with 40 CFR Part 264, §264.1(g)(6) and 40 CFR Part 265, §265.1(c)(10).
 - c. Proposed addition of a third spent carbon feed hopper.
- 2. The reference to the process flow diagram number on page 3 of 7 (Section XI) of the Part A application form and the Index Attachments found at Tab 5 have been corrected to read 11135-002.
- 3. Revision of the general facility layout to indicate the change in designation of some of the equipment. While the function of the equipment has not changed, the new designations better describe their functions. The new designations are listed in Table 1.
 - The redesignation of the Rainwater Collection Tank reflects the fact that rainwater collected in the tank is used as recycle water.
- 4. Submittal of a current photograph of Reactivation Unit No. 1 (RF-1), identified as Process Code T04 on page 4 of 7 (Section XII) of the Part A application form. The photograph is included in Attachment D (Tab 7).

| TABLE 1 | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|
| Old Designation | Current Designation | | | | | | | | | | |
| Carbon Regeneration Unit No. 1 (CRU-1) | Carbon Reactivation Unit No. 1 (RF-1) | | | | | | | | | | |
| Carbon Regeneration Unit No. 1 (CRU-2) | Carbon Reactivation Unit No. 2 (RF-2) | | | | | | | | | | |
| Water Storage Tank (T-9) | Recycle Water Storage Tank (T-9) | | | | | | | | | | |
| Rainwater Collection Tank (T-12) | Recycle Water Storage Tank (T-12) | | | | | | | | | | |
| Industrial Sewer Surge Tank (T-11) | Equalization Tank (T-11) | | | | | | | | | | |
| Process Feed Tank (T-1) | Spent Carbon Storage Tank (T-1) | | | | | | | | | | |
| Process Feed Tank (T-2) | Spent Carbon Storage Tank (T-2) | | | | | | | | | | |
| Process Feed Tank (T-5) | Spent Carbon Storage Tank (T-5) | | | | | | | | | | |
| Process Feed Tank (T-6) | Spent Carbon Storage Tank (T-6) | | | | | | | | | | |
| Process Feed Tank (T-8) | Reactivation Unit No. 1 Feed Tank (T-8) | | | | | | | | | | |

Form Approved. OMB No. 2050-0034 Expires 12-31-91

Please print of type with ELITE type (12 characters per inch) in the unshaded areas only GSA No. 0246-EPA-O1 **EPA** For EPA Regional For State Use Uniy Use Uniy United States Environmental Protection Agency Washington, DC 20460 **Hazardous Waste Permit** Application Part A Date Received Month Day Year (Read the Instructions before starting) I. ID Number(s) A. EPA ID Number B. Secondary ID Number (if applicable) A |Z |D |9 4 6 II. Name of Facility WEST R B NC Ε C Α 0 N 0 Ν III. Facility Location (Physical address not P.O. Box or Route Number) A. Street 5 2 3 Μ Α R R Ε (continued) Street City or Town State **ZIP Code** Α R lΕ 4 County Code **County Name** Α Ζ D. Facility Existence Date B. Land Type C. Geographic Location (enter code) LATITUDE (degrees, minutes, & seconds) LONGITUDE (degrees, minutes, & seconds) Month Day Year 0 5 0 N 0 5 IV. Facility Mailing Address Street or P. O. Box P O lΒ О X Ε State ZIP Code City or Town P A R K 4 4 - 4 R 15 (Person to be contacted regarding waste activities at facility) V. Facility Contact (last) (first) M O M c C Ν Job Title Phone Number (area code and number) P IL 9 A N M G IE 60 2 V. Facility Contact Address (See Instructions) Contract Address Location Mailing B. Street or P. O. Box Х City or Town State ZIP Code

| VII. Operator Information | Plea | se pr | int or t | type v | vith E | LITE | type (| 12 ch | aract | ers pe | r inch |) in the | e unsh | aded | area | as onl | у | | | | | | | | | | | GSA | A No. (| 0246- | EPA- | ОТ |
|--|---------------|----------------|---------------------|-----------------|---------------|-----------------------|------------|---------------|-----------------|------------------|----------|----------|---------|---------|-------|--------|-------|----------|----------------|-------|------|-------|--------------------|--|----------------------------------|------|--------------|------|---------|-------|------|----------|
| VII. Operator Information | EP. | A I.E |). Ni | dmı | er | | (ent | er fi | тот | pag | e 1) | | | | | | | | | Se | ecor | ıdary | / ID | Num | ber | | (6 | ente | r frc | om p | age | 1) |
| Name of Operator W E S T A T E S C A R B O N - A R I Z O N A I N C . | Α | Ζ | D | 9 | 8 | 2 | 4 | 4 | 1 | 2 | 6 | 3 | | | | | | | | | | | | | | | | | | | | |
| | VII | . Op | era | or I | nfor | mat | ion | | (| see i | nstr | uctio | ons) | | | | | | | | | | | | | | | | | | | |
| Street of P.O. Box 2 3 M U T A H A R S T R E E T | cicicicici | CKCKCKCKCKCKCK | 0101010101010101010 | per | ator | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| City or Town | | | | Т | | Т | E | S | | C |) | ιR | В | |) | N | - | Α | R | | Z | 0 | N | Α | | I | | N | C | | | |
| State Zip Code | Stı | eet | | | Box | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A R K E R | 2 | | | | | M | U | Т | Α | \ | 1 A | ۱R | | S | 3 | Τ | R | E | E | T | | | | | | | | | | | | |
| B. Operato Toppeange of Operator Phone Number (area code and number) | 2,2,2,2,2,2,2 | ******* | ********** | 24242424242424 | | | | | | | | | | | | | | | | | ate | 17171 | | 3,3,3,3,3,3,3,3,3 | | | | | | | | |
| Phone Number (area code and number) | Р | Α | R | K | E | R | | | | | | | | | | | | | | Α | Z | 8 | 5 | 3 | 4 | 4 | 4 | - | 4 | 0 | 0 | 5 |
| Phone Number (area code and number) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VIII. Facility Owner | | | | | | | | | | | | | | | | B. O | oera | ıtc@.T | Ç ipe n | ge of | Ope | ator | | | | | | ı | Date (| Chan | jed | |
| VIII. Facility Owner (see Instructions) | | | | mbe | | | | | | | | | | | | | | | | | | Inc | licato | _ | | | Мо | nth | ı | Day | • | /ear |
| A. Name of Facility's Legal Owner S E E A T T A C H M E N T A Street or P.O. Box City or Town State Zip Code Phone Number (area code and number) IX. SIC Codes (4-digit, in order of significance) Primary Secondary A P F T F I S SYSTEMS Primary Secondary (description) (description) (description) (description) (description) X. Other Environmental Permits (see Instructions) A. Permit Type (enter code) B. Owner Upf@hange of Owner Pate Changed Month Day Year Yes No (description) OTHERWISE UNCLASSIFIABLE ESTABLISHMENTS Secondary (description) (description) C. Description E N D N D Permit Number C. Description PD D Permit (Minor Source) | | | | | | | _ | | | | | | 1000 | | | | ŀ |) | | | Yes | | No | X | 10000
10000
10000
10000 | | | | | | | |
| S E E A T T A C H M E N T A Street or P.O. Box City or Town B. Owner TygSchange of Owner Indicator Yes No Month Day Year Yes No OTHERWISE WORK TygSchange of Owner Indicator Month Day Year Yes No OTHERWISE UNCLASSIFIABLE ESTABLISHMENTS Primary Secondary (description) X. Other Environmental Permits (see Instructions) X. Other Environmental Permits (see Instructions) A. Permit Type (enter code) B. Owner TygSchange of Owner Indicator Month Day Year Yes No OTHERWISE UNCLASSIFIABLE ESTABLISHMENTS Secondary (description) C. Description Municipal Indust. Sewer Dischg. Permit P D E X E M P T P PSD Permit (Minor Source) | | | | T 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 1 | | | 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 | ons) | | | | | | | | | | | | | | | | | | | | | |
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GSA No. 0246-EPA-OT

XI. Nature of Business (provide a brief description)

Westates Carbon-Arizona, Inc. receives spent (used) activated carbon from its customers. These spent carbons arrive at the Parker facility in a variety of DOT approved containers; including: barrels, drums, portable tanks, bulk-bags, and bulk truck units. Some, but not all, spent carbons are received as manifested hazardous waste materials.

Received spent carbons are thermally reactivated in one of two furnaces. Reactivated carbons are certified non-hazardous and then shipped for recycling and/or reuse. This reactivation process is sketched in a Schematic Block Process Flow Diagram attached as Drawing No. 11135-002.

Incidental to the reactivation process is the management of container storage (area S01); spent carbon storage tanks (area S02); reactivation and reactivation off-gas treatment (area T04); and the non-hazardous slurry transfer water (recycle water) system, wastewater treatment system, rainwater collection system, and reactivated carbon product storage and shipping.

XII. Process - Codes and Design Capacities

- A. PROCESS CODE Enter the code from the list of process codes below that best describes each process to be used at the facility. Twelve lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided in Item XIII.
- B. PROCESS DESIGN CAPACITY For each code entered in column A, enter the capacity of the process.
 - AMOUNT Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure
 or enforcement action) enter the total amount of waste for that process unit.
 - UNIT OF MEASURE For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.
- C. PROCESS TOTAL NUMBER OF UNITS Enter the total number of units used with the corresponding process code.

| | | APPROPRIATE UNITS OF | | UNIT OF |
|---------|--------------------------------------|-----------------------------------|----------------------|---------|
| PROCESS | | MEASURE FOR PROCESS | UNIT OF | MEASURE |
| CODE | PROCESS | DESIGN CAPACITY | MEASURE | CODE |
| | | | | |
| | DISPOSAL: | | GALLONS | G |
| D79 | INJECTION WELL | GALLONS; LITERS; GALLONS PER DAY; | GALLONS PER HOUR | E |
| | | OR LITERS PER DAY | GALLONS PER DAY | U |
| D80 | LANDFILL | ACRE-FEET OR HECTARE-METER | LITERS | L |
| D81 | LAND APPLICATION | ACRES OR HECTARES | LITERS PER HOUR | Н |
| D82 | OCEAN DISPOSAL | GALLONS PER DAY OR LITERS PER DAY | LITERS PER DAY | V |
| D83 | SURFACE IMPOUNDMENT | GALLONS OR LITERS | SHORT TONS PER HOUR | D |
| | | | METRIC TONS PER HOUR | W |
| | STORAGE: | | SHORT TONS PER DAY | N |
| S01 | CONTAINER | GALLONS OR LITERS | METRIC TONS PER DAY | S |
| | (barrel, drum, etc.) | | POUNDS PER HOUR | J |
| S02 | TANK | GALLONS OR LITERS | KILOGRAMS PER HOUR | R |
| S03 | WASTE PILE | CUBIC YARDS OR CUBIC METERS | CUBIC YARDS | Υ |
| S04 | SURFACE IMPOUNDMENT | GALLONS OR LITERS | CUBIC METERS | С |
| | | | ACRES | В |
| | TREATMENT: | | ACRE-FEET | Α |
| T01 | TANK | GALLONS PER DAY OR LITERS PER DAY | HECTARES | Q |
| T02 | SURFACE IMPOUNDMENT | GALLONS PER DAY OR LITERS PER DAY | HECTARE-METER | F |
| T03 | INCINERATOR | SHORT TONS PER HOUR; METRIC | BTUS PER HOUR | K |
| | | TONS PER HOUR; GALLONS PER HOUR; | | |
| | | LITERS PER HOUR; OR BTUS PER HOUR | | |
| T04 | OTHER TREATMENT | GALLONS PER DAY; LITERS PER DAY; | | |
| | (Use for physical, chemical, thermal | POUNDS PER HOUR; SHORT TONS PER | | |
| | or biological treatment processess | HOUR; KILOGRAMS PER HOUR; METRIC | | |
| | not occurring in tanks, surface | TONS PER DAY; METRIC TONS PER | | |
| | impoindment or incinerators. | HOUR; OR SHORT TONS PER DAY | | |
| | Describe the processes in the space | | | |
| | provided in Item XIII.) | | | |

| EPA I.C | | ımbe | | | ioni o | | | ge 1) | <i>,</i> | | | | | | Secon | dary | ID N | lumi | oer | (€ | nter | fron | ı pa | ge 1) |
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| XIII. Ac | lditi | onal | Tre | atmo | ent F | Proce | sse | \$ | (fol | low. | instr | uctio | ns fro | m Ite | em XII) | | | | | | | | | |
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GSA No. 0246-EPA-OT

| EP. | A I.D | . Nu | mbe | r | (| ente | r fro | m p | age | 1) | | | | | Se | conc | lary | ID۱ | lumb | er | (4 | enter | r fro | m pa | nge 1 |) |
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| Α | Ζ | D | 9 | 8 | 2 | 4 | 4 | 1 | 2 | 6 | 3 | | | | | | | | | | | | | | | |

XIV. Description of Hazardous Wastes

- A. EPA HAZARDOUS WASTE NUMBER Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR, Part 261 Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. ESTINIATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- UNITUE MEASURE For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

| ENGLISH UNIT OF MEASURE | CODE | METRIC UNIT OF MEASURE | CODE |
|-------------------------|------|------------------------|------|
| POUNDS | Р | KILOGRAMS | K |
| TONS | Т | METRIC TONS | M |

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PKUCESSES

PROCESS CODES:

For listed hazardous waste: For each listed hazardous entered in column A select the code(s) from the list of process codes contained in Item XII A. on page 3 to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A select the code(s) from the list of process codes contained in Item XII A. on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that processes that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED

- 1. Enter the first two as described above.
- 2. Enter "000" in the extreme right box of Item XIV-D(I).

3.space provided on page 7, Item XIV-E, the line number and the additional code(s).

 PRUCES & A Data & MATISMA IN a process that will be used, describe the proces in the space provided on the form (D(2)).

IOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER -

Hazardous wastes that

an be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

 Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.

2.line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

COMPLETING ITEM XIV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an ounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. Is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

| | | A. E
HAZ | | | B.ESTIMATED
ANNUAL | | | | | | | | | RUCI | ESS | II OF |
|----------------|---|-------------|----------------|---|-----------------------|--------|---|---|---|--------------|------|------|--------|------|-----|--|
| Line
Number | | 110 T | E NO.
code, | | QUANTITY
OF WASTE | (enter | 1 | (| | ROCE
ode) | SS C | ODES | (enter |) | | (2) PROCESS DESCRIPTION
(if a code is not entered in D(1) |
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| X 2 | D | 0 | 0 | 2 | 400 | P | 7 | 0 | 3 | D | 8 | 0 | | | | |
| X 3 | D | 0 | 0 | 1 | 100 | P | 7 | 0 | 3 | D | 8 | 0 | | | | |
| X 4 | D | 0 | 0 | | | 2 | | | | | | | | | | |

EPA Form 8700-23 (01-90)

| | EPA | l.D. | Nur | nber | (enter from page | 1) | | | | | | | Sec | onda | ary II | D Number (enter from page 1) |
|----------|-------|-------|------|------|------------------|----------|---|-----|-----|-----|------|-----|------|------|--------|-----------------------------------|
| A Z | D | 9 | 8 | 2 | 4 4 1 2 | 6 3 | | | | | | | | | | |
| XIV. Des | scrip | tion | of H | azar | dous Wastes (cor | itinued) | | | | | | | | | | |
| | | | | | | | | | | | | | | D. | PRO | CESSES |
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| Line | V | VAST | ENO | Э. | QUANTITY OF | (enter | | (1) | PRO | CES | s co | DES | (en | ter) | | (2) PROCESS DESCRIPTION |
| Number | (| enter | code |) | WASTE | | | | coc | le) | | | | | | (if a code is not entered in D(1) |
| 1 | D | 0 | 0 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 | D | 0 | 0 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 | D | 0 | 0 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 4 | D | 0 | 0 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Τ | 0 | 4 | |
| 5 | D | 0 | 0 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 6 | D | 0 | 0 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 7 | D | 0 | 0 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 8 | D | 0 | 1 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Τ | 0 | 4 | |
| 9 | D | 0 | 1 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 10 | D | 0 | 1 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 1 | D | 0 | 1 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 2 | D | 0 | 1 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Τ | 0 | 4 | |
| 1 3 | D | 0 | 1 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 4 | D | 0 | 1 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Τ | 0 | 4 | |
| 1 5 | D | 0 | 1 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 6 | D | 0 | 1 | 8 | 500,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 7 | D | 0 | 1 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 8 | D | 0 | 2 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 9 | D | 0 | 2 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 0 | D | 0 | 2 | 2 | 100,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 1 | D | 0 | 2 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 2 | D | 0 | 2 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 3 | D | 0 | 2 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 4 | D | 0 | 2 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 5 | D | 0 | 2 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 26 | D | 0 | 2 | 8 | 50,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 7 | D | 0 | 2 | 9 | 100,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 28 | D | 0 | 3 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 9 | D | 0 | 3 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 0 | D | 0 | 3 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 1 | D | 0 | 3 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 2 | D | 0 | 3 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 3 | D | 0 | 3 | 5 | 100,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |

Secondary ID Number (enter from page 1) EPA I.D. Number (enter from page 1) Ζ D 9 8 2 4 4 1 2 6 3 XIV. Description of Hazardous Wastes (continued) D. PROCESSES **B. ESTIMATED** C. UNIT OF A. EPA **HAZARDOUS** ANNUAL **MEASURE QUANTITY OF** (1) PROCESS CODES (enter) Line WASTE NO. (enter (2) PROCESS DESCRIPTION WASTE Number (enter code) code) (if a code is not entered in D(1) D Р 2 0 6 5,000 S 0 S 0 4 0 2 D 0 7 5,000 Р S S 2 0 4 3 0 1 0 Т 3 D 0 8 Ρ S S 2 Т 0 4 5,000 0 0 4 Ρ S S D 0 3 9 500,000 0 1 0 2 Т 0 4 5 Ρ D 0 0 500,000 S S 2 0 4 4 0 6 D 0 1 Ρ S S 2 Т 4 4 5,000 0 1 0 0 D 0 2 Ρ S S 2 Т 4 5,000 0 0 4 8 0 4 Ρ S S Т 4 D 3 50,000 0 1 0 2 0 9 F Ρ S S Т 0 0 1 2,000,000 0 1 0 2 0 4 F S S 10 0 0 2 5,000 Ρ 0 1 0 2 Т 0 4 1 1 F 0 0 3 1,500,000 Ρ S 0 1 S 0 2 Т 0 4 1 2 F 0 0 4 5.000 Ρ S 0 S 0 2 Т 0 4 1 1 3 F 0 0 5 1,500,000 Ρ S 0 1 S 0 2 Т 0 4 14 F 0 6 Ρ S 1 S 2 Т 4 0 5,000 0 0 0 15 F 0 1 2 5,000 Ρ S 0 1 S 0 2 Т 0 4 16 F 1 9 5,000 Ρ S S 2 Т 0 0 1 0 0 4 1 7 5 F 0 2 5,000 Ρ S 0 S 0 2 Т 0 4 1 18 2 Р S F 0 3 5,000 S 0 1 0 2 Т 0 4 1 9 F 5 5,000 Ρ S S 2 4 0 3 0 0 Т 0 1 20 F 0 3 7 5,000 Р S 0 1 S 2 Т 0 4 0 2 1 F Ρ S 0 3 8 5,000 S 0 2 Т 0 4 0 1 2 1 F 0 9 5,000 Ρ S 0 S 0 2 0 4 23 Κ 0 Ρ S S 0 1 5,000 0 2 Τ 0 4 0 1 24 K 2 Ρ S Т 0 0 5,000 S 0 0 2 0 4 2 5 Ρ K 0 3 5,000 S S 2 Τ 4 0 0 1 0 0 26 Ρ S Т Κ 0 4 S 2 0 0 5,000 0 0 4 27 Κ 0 5 Ρ S S Т 0 5,000 0 1 0 2 0 4 28 K 0 6 5,000 Ρ S S Т 4 0 0 0 29 Κ 0 0 7 5,000 Ρ S 0 1 S 0 2 Т 0 4 3 0 Κ Ρ S S Т 0 0 8 5,000 0 1 0 2 0 4 3 1 Κ 0 0 9 5,000 Ρ S 0 1 S 0 2 Т 0 4

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S | 0 | 1 | S | 0 | 2 | T | 0 | 4

S | 0 | 1 | S | 0 | 2 | T | 0 | 4

3 2

3 3

K 0 1 0

K 0 1 4

| | EPA | ۱.D. | Nur | nber | (enter from page | 1) | | | | | | | Sec | onda | ary II | D Number (enter from page 1) |
|----------------|------|------|-------------|------|---------------------------------|----------|---|-----|-----|-------|-------|------|-----|--------------|--------|---|
| A Z | D | 9 | 8 | 2 | 4 4 1 2 | 6 3 | | | | | | | | | | |
| XIV. Des | crip | tion | of H | azar | dous Wastes (con | tinued) | | | | | | | | | | |
| | | AZAF | EPA
RDOU | | B. ESTIMATED ANNUAL QUANTITY OF | (notice) | | (4) | DB | no es | ·e c | DDES | ME | JNIT
ASUI | OF | CESSES DESCRIPTION |
| Line
Number | | | code | | WASTE | (enter | I | (1) | COC | OCES | 13 CI | JUES | (em | er) | | (2) PROCESS DESCRIPTION (if a code is not entered in D(1) |
| 1 | K | 0 | 6 | 5 | 5,000 | Р | s | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | (ii a coac io recomerca iii D(1) |
| 2 | K | 0 | 6 | 6 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 | K | 0 | 7 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 4 | K | 0 | 7 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 5 | K | 0 | 8 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 6 | K | 0 | 8 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 7 | K | 0 | 8 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 8 | K | 0 | 8 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 9 | K | 0 | 8 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 0 | K | 0 | 8 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 1 | K | 0 | 9 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 2 | Κ | 0 | 9 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 3 | Κ | 0 | 9 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 4 | K | 0 | 9 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 5 | K | 0 | 9 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 6 | K | 0 | 9 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 7 | Κ | 0 | 9 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 8 | K | 0 | 9 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 9 | Κ | 1 | 0 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 0 | K | 1 | 0 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 1 | Κ | 1 | 0 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 2 | K | 1 | 0 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 3 | K | 1 | 0 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 4 | K | 1 | 0 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 5 | K | 1 | 0 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 6 | K | 1 | 1 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 7 | K | 1 | 1 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 28 | K | 1 | 1 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 9 | K | 1 | 1 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 0 | Κ | 1 | 1 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 1 | K | 1 | 1 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 2 | K | 1 | 1 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 3 | K | 1 | 2 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |

| | EPA | I.D. | Nur | nber | (enter from page | 1) | | | | | | | Sec | onda | ary II | D Number (enter from page 1) |
|----------|------|-------|------|------|------------------|---------|---|-----|-----|-----|------|------|------|------|--------|-----------------------------------|
| A Z | D | 9 | 8 | 2 | 4 4 1 2 | 6 3 | | | | | | | | | | |
| XIV. Des | crip | tion | of H | azar | dous Wastes (con | tinued) | | | | | | | | | | |
| | | | | | | | | | | | | | | D. I | PRO | CESSES |
| | | A. E | EΡΑ | | B. ESTIMATED | | | | | | | | C. U | JNIT | OF | |
| | Н | ٩ZAF | RDOL | JS | ANNUAL | | | | | | | | ME | ASUI | RE | |
| Line | V | /AST | ENC | Э. | QUANTITY OF | (enter | | (1) | PRO | CES | s co | ODES | ent) | ter) | | (2) PROCESS DESCRIPTION |
| Number | (| enter | code |) | WASTE | | _ | | coc | le) | | | | | | (if a code is not entered in D(1) |
| 1 | K | 0 | 1 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 | K | 0 | 1 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 | K | 0 | 1 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 4 | K | 0 | 1 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 5 | K | 0 | 1 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 6 | K | 0 | 2 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 7 | K | 0 | 2 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 8 | K | 0 | 2 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 9 | K | 0 | 2 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 0 | K | 0 | 2 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 1 | K | 0 | 2 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 2 | K | 0 | 2 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 3 | K | 0 | 3 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 4 | K | 0 | 3 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 5 | K | 0 | 3 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 6 | K | 0 | 3 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 7 | K | 0 | 3 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 8 | K | 0 | 3 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 9 | K | 0 | 3 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 0 | K | 0 | 3 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 1 | K | 0 | 3 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 2 | K | 0 | 3 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 3 | K | 0 | 4 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 4 | K | 0 | 4 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 5 | K | 0 | 4 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 6 | K | 0 | 4 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 7 | K | 0 | 4 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 8 | K | 0 | 4 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 9 | K | 0 | 5 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 0 | K | 0 | 5 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 1 | K | 0 | 5 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 2 | K | 0 | 6 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 3 | K | 0 | 6 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |

| | EP# | ۱.D. | Nur | nber | (enter from page | 1) | | | | | | | Sec | onda | ary II | D Number (enter from page 1) |
|----------|------|--------|------|------|------------------|----------|---|-----|-----|-----|------|-----|------|------|--------|-----------------------------------|
| A Z | D | 9 | 8 | 2 | 4 4 1 2 | 6 3 | | | | | | | | | | |
| XIV. Des | crip | tion | of H | azar | dous Wastes (cor | itinued) | | | | | | | | | | |
| | | | | | | | | | | | | | | D. | PRO | CESSES |
| | | A. I | ΞPA | | B. ESTIMATED | | | | | | | | C. l | JNIT | OF | |
| | H | AZAI | RDOL | JS | ANNUAL | | | | | | | | ME | ASUI | RE | _ |
| Line | ٧ | VAST | ENO | Э. | QUANTITY OF | (enter | | (1) | PRO | CES | s co | DES | (en | ter) | | (2) PROCESS DESCRIPTION |
| Number | (| (enter | code |) | WASTE | | | | coc | le) | | | | | | (if a code is not entered in D(1) |
| 1 | Κ | 1 | 2 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 | Р | 0 | 0 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 | Р | 0 | 0 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 4 | Р | 0 | 0 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Τ | 0 | 4 | |
| 5 | Р | 0 | 0 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 6 | Р | 0 | 0 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 7 | Р | 0 | 0 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 8 | Р | 0 | 0 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Τ | 0 | 4 | |
| 9 | Р | 0 | 1 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 0 | Ρ | 0 | 1 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 1 | Р | 0 | 1 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 2 | Р | 0 | 1 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 3 | Ρ | 0 | 1 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Τ | 0 | 4 | |
| 1 4 | Р | 0 | 1 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Τ | 0 | 4 | |
| 1 5 | Р | 0 | 1 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 6 | Р | 0 | 1 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 7 | Р | 0 | 1 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 8 | Р | 0 | 2 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 9 | Р | 0 | 2 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 0 | Р | 0 | 2 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 1 | Р | 0 | 2 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Τ | 0 | 4 | |
| 2 2 | Р | 0 | 2 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Τ | 0 | 4 | |
| 2 3 | Р | 0 | 2 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 4 | Р | 0 | 2 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 5 | Р | 0 | 2 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 6 | Р | 0 | 2 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 7 | Р | 0 | 3 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 8 | Р | 0 | 3 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 9 | Р | 0 | 3 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 0 | Р | 0 | 3 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 1 | Р | 0 | 3 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 2 | Р | 0 | 3 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 3 | Р | 0 | 3 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |

| | EPA | ۱.D. | Nur | nber | (enter from page | 1) | | | | | | | Sec | onda | ary II | D Number (enter from page 1) |
|----------|------|-------|------|------|------------------|----------|---|-----|-----|-----|------|------|----------|------|--------|-----------------------------------|
| A Z | D | 9 | 8 | 2 | 4 4 1 2 | 6 3 | | | | | | | | | | |
| XIV. Des | crip | tion | of H | azar | dous Wastes (con | itinued) | | | | | | | | | | |
| | | | | | | | | | | | | | | D. | PRO | CESSES |
| | | A. I | ΞΡΑ | | B. ESTIMATED | | | | | | | | c. L | JNIT | OF | |
| | Н | AZAF | RDOL | JS | ANNUAL | | | | | | | | ME | ASUI | ₹E | |
| Line | V | VAST | ENC | Э. | QUANTITY OF | (enter | | (1) | PRO | CES | s co | DDES | ent (ent | ter) | | (2) PROCESS DESCRIPTION |
| Number | (| enter | code |) | WASTE | | • | | coc | de) | | | | | | (if a code is not entered in D(1) |
| 1 | Р | 0 | 3 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 | Р | 0 | 4 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 | Р | 0 | 4 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 4 | Р | 0 | 4 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 5 | Р | 0 | 4 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 6 | Р | 0 | 4 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 7 | Р | 0 | 4 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 8 | Р | 0 | 4 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 9 | Р | 0 | 4 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 0 | Р | 0 | 4 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 1 | Р | 0 | 4 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 2 | Р | 0 | 5 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 3 | Р | 0 | 5 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 4 | Р | 0 | 5 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 5 | Р | 0 | 5 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 6 | Р | 0 | 5 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 7 | Р | 0 | 5 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 8 | Р | 0 | 5 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 9 | Р | 0 | 6 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 0 | Р | 0 | 6 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 1 | Р | 0 | 6 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 2 | Р | 0 | 6 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 3 | Р | 0 | 6 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 4 | Р | 0 | 6 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 5 | Р | 0 | 6 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 6 | Р | 0 | 6 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 7 | Р | 0 | 7 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 8 | Р | 0 | 7 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 9 | Р | 0 | 7 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 0 | Р | 0 | 7 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 1 | Р | 0 | 7 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 2 | Р | 0 | 7 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 3 | Р | 0 | 7 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |

| | EPA | ۱.D. | Nur | nber | (enter from page | 1) | | | | | | | Sec | onda | ary II | D Number (enter from page 1) |
|----------------|------|------|--------------|------|----------------------|---------------|----------|-----|-----|------|------|------|--------|--------------|--------|---|
| A Z | D | 9 | 8 | 2 | 4 4 1 2 | 6 3 | | | | | | | | | | |
| XIV. Des | crip | tion | of H | azar | dous Wastes (con | itinued) | | | | | | | | | | |
| | | AZAF | EPA
RDOU | | B. ESTIMATED | | <u> </u> | | | | | | ME | JNIT
ASUI | OF | CESSES |
| Line
Number | | | E NO
code | | QUANTITY OF
WASTE | (enter | 1 | (1) | PRO | OCES | s co | ODES | 6 (ent | er) | | (2) PROCESS DESCRIPTION (if a code is not entered in D(1) |
| 1 | Р | 0 | 7 | 8 | 5,000 | Р | s | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | (ii d code is not cincica iii D(1) |
| 2 | P | 0 | 8 | 2 | 5,000 | <u>.</u>
Р | S | 0 | 1 | S | 0 | 2 | Ť | 0 | 4 | |
| 3 | P | 0 | 8 | 4 | 5,000 | <u>.</u>
Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 4 | P | 0 | 8 | 5 | 5,000 | <u>.</u>
Р | S | 0 | 1 | S | 0 | 2 | T | 0 | 4 | |
| 5 | P | 0 | 8 | 7 | 5,000 | <u>.</u>
Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 6 | P | 0 | 8 | 8 | 5,000 | <u>.</u>
Р | S | 0 | 1 | S | 0 | 2 | T | 0 | 4 | |
| 7 | Р | 0 | 8 | 9 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 8 | Р | 0 | 9 | 2 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 9 | Р | 0 | 9 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 0 | Р | 0 | 9 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 11 | Р | 0 | 9 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 2 | Р | 0 | 9 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 13 | Р | 0 | 9 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Τ | 0 | 4 | |
| 1 4 | Р | 0 | 9 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 5 | Р | 0 | 9 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 6 | Р | 1 | 0 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 7 | Р | 1 | 0 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 8 | Р | 1 | 0 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 9 | Р | 1 | 0 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 0 | Р | 1 | 0 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 1 | Ρ | 1 | 0 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 2 | Р | 1 | 0 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 3 | Р | 1 | 0 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 4 | Р | 1 | 1 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 5 | Р | 1 | 1 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 6 | Р | 1 | 1 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 7 | Р | 1 | 1 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 28 | Р | 1 | 1 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 9 | Ρ | 1 | 1 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 0 | Ρ | 1 | 1 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 1 | Ρ | 1 | 2 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Τ | 0 | 4 | |
| 3 2 | Ρ | 1 | 2 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 3 | Р | 1 | 2 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |

| | EPA | l.D. | Nur | nber | (enter from page | 1) | | | | | | | Sec | onda | ary I | D Number (enter from page 1) |
|----------|------|-------|------|------|------------------|----------|---|-----|-----|-----|------|------|--------|------|-------|-----------------------------------|
| A Z | D | 9 | 8 | 2 | 4 4 1 2 | 6 3 | | | | | | | | | | |
| XIV. Des | crip | tion | of H | azar | dous Wastes (cor | itinued) | | | | | | | | | | |
| | | | | | | | | | | | | | | D. I | PRO | CESSES |
| | | A. I | EΡΑ | | B. ESTIMATED | | | | | | | | C. L | JNIT | OF | |
| | н | AZAF | RDOL | JS | ANNUAL | | | | | | | | ME | ASUI | RE | |
| Line | V | VAST | ENC | Э. | QUANTITY OF | (enter | | (1) | PRO | CES | s co | DDES | i (ent | er) | | (2) PROCESS DESCRIPTION |
| Number | (| enter | code |) | WASTE | | - | | coc | le) | | | | | | (if a code is not entered in D(1) |
| 1 | U | 0 | 0 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 | U | 0 | 0 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 | U | 0 | 0 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 4 | U | 0 | 0 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 5 | J | 0 | 0 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 6 | U | 0 | 0 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 7 | U | 0 | 0 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 8 | U | 0 | 0 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 9 | U | 0 | 1 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 0 | U | 0 | 1 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 1 | U | 0 | 1 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 2 | U | 0 | 1 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 3 | J | 0 | 1 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 4 | J | 0 | 1 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 5 | U | 0 | 1 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 6 | U | 0 | 1 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 7 | J | 0 | 1 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 8 | U | 0 | 2 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 9 | J | 0 | 2 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 0 | J | 0 | 2 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 1 | U | 0 | 2 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 2 | J | 0 | 2 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 3 | U | 0 | 2 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 4 | J | 0 | 2 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 5 | U | 0 | 2 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 6 | U | 0 | 3 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 7 | U | 0 | 3 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 28 | U | 0 | 3 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 9 | J | 0 | 3 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 0 | U | 0 | 3 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 1 | J | 0 | 3 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 2 | J | 0 | 3 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 3 | U | 0 | 3 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |

| | EP/ | ۱.D. | Nur | nber | (enter from page | 1) | | | | | | | Sec | onda | ary II | D Number (enter from page 1) |
|----------|-------|--------|------|------|------------------|----------|---|-----|-----|------|------|------|-------|------|--------|-----------------------------------|
| A Z | D | 9 | 8 | 2 | 4 4 1 2 | 6 3 | | | | | | | | | | |
| XIV. Des | scrip | tion | of H | azar | dous Wastes (con | itinued) | | | | | | | | | | |
| | | | | | | | | | | | | | | D. | PRO | CESSES |
| | | Α. Ι | ΞPA | | B. ESTIMATED | | | | | | | | c. ı | JNIT | OF | |
| | н | AZAI | RDOL | JS | ANNUAL | | | | | | | | ME | ASUI | RE | |
| Line | V | VAST | ENC | Э. | QUANTITY OF | (enter | | (1) | PRO | OCES | s co | DDES | i (en | ter) | | (2) PROCESS DESCRIPTION |
| Number | | (enter | code |) | WASTE | | • | | coc | de) | | | | | | (if a code is not entered in D(1) |
| 1 | U | 0 | 3 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 | U | 0 | 4 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 | U | 0 | 4 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 4 | U | 0 | 4 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 5 | U | 0 | 4 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 6 | U | 0 | 4 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 7 | U | 0 | 4 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 8 | U | 0 | 4 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 9 | U | 0 | 4 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 0 | U | 0 | 4 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 1 | U | 0 | 5 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 2 | U | 0 | 5 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 3 | U | 0 | 5 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 4 | U | 0 | 5 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 5 | U | 0 | 5 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 6 | U | 0 | 5 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 7 | U | 0 | 5 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 8 | U | 0 | 5 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 9 | U | 0 | 5 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 0 | U | 0 | 6 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 1 | U | 0 | 6 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 2 | U | 0 | 6 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 3 | U | 0 | 6 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 4 | U | 0 | 6 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 5 | U | 0 | 6 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 6 | U | 0 | 6 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 7 | U | 0 | 6 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 8 | U | 0 | 6 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 9 | U | 0 | 7 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 0 | U | 0 | 7 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 1 | U | 0 | 7 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 2 | U | 0 | 7 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 3 | U | 0 | 7 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |

Secondary ID Number (enter from page 1) EPA I.D. Number (enter from page 1) Ζ D 9 8 2 4 4 1 2 6 3 XIV. Description of Hazardous Wastes (continued) D. PROCESSES **B. ESTIMATED** C. UNIT OF A. EPA **HAZARDOUS** ANNUAL **MEASURE QUANTITY OF** (1) PROCESS CODES (enter) Line WASTE NO. (enter (2) PROCESS DESCRIPTION WASTE Number (enter code) code) (if a code is not entered in D(1) U Р 2 0 5 5,000 S 0 S 0 4 0 2 U 0 6 5,000 Р S S 2 0 4 7 0 1 0 Т 7 3 U 0 Ρ S S 2 Т 0 4 5,000 0 0 4 7 Ρ S S U 0 8 5,000 0 1 0 2 Т 0 4 5 9 Ρ U 0 5,000 S S 2 0 4 0 6 U 0 8 0 Ρ S S 2 Т 4 5,000 0 1 0 0 U 0 1 Ρ S S 2 Т 8 5,000 0 0 4 8 U 0 2 Ρ S S Т 4 8 5,000 0 1 0 2 0 9 U Ρ S S Т 0 3 5,000 0 1 2 0 4 U S S 10 0 8 4 5,000 Ρ 0 1 0 2 Т 0 4 1 1 U 0 8 5 5,000 Ρ S 0 1 S 0 2 Т 0 4 1 2 U 0 8 6 5.000 Ρ S 0 1 S 0 2 Т 0 4 1 3 U 0 8 7 5,000 Ρ S 0 1 S 0 2 Т 0 4 14 U 0 8 Ρ S 1 S 2 Т 4 8 5,000 0 0 0 15 U 0 8 9 5,000 Ρ S 0 1 S 0 2 Т 0 4 16 U 0 5,000 Ρ S S 2 Т 9 0 0 1 0 0 4 1 7 Р U 0 9 1 5,000 S 0 S 0 2 Т 0 4 1 18 2 Р S U 0 9 5,000 S 0 1 0 2 Т 0 4 1 9 U 0 5,000 Ρ S S 2 4 9 3 0 0 Т 0 1 20 U 0 9 4 5,000 Р S 0 1 S 2 Т 0 4 0 2 1 Р S S U 0 9 5 5,000 0 2 Т 0 4 0 1 2 2 U 0 7 5,000 Р S 0 S 0 2 0 4 23 U 0 Ρ S S 9 8 5,000 0 2 Τ 0 4 0 1 2 4 U 9 Р S S Т 0 9 5,000 0 0 2 0 4 25 Р S U 1 0 1 5,000 S 2 Т 4 0 1 0 0 26 1 2 Ρ S Т U S 2 0 0 5,000 0 0 4 2 7 U 1 Ρ S S Т 0 3 5,000 0 1 0 2 0 4 28 5 5,000 Ρ S S Т 4 0 0 29 U 1 0 6 5,000 Ρ S 0 1 S 0 2 Τ 0 4 3 0 U 1 7 Ρ S S Т 0 5,000 0 1 0 2 0 4 3 1 U 1 0 8 5,000 Ρ S 0 1 S 0 2 Т 0 4

5,000

5.000

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S | 0 | 1 | S | 0 | 2 | T | 0 | 4

S | 0 | 1 | S | 0 | 2 | T | 0 | 4

3 2

3 3

U 1 0 9

U 1 1 1 0

| | | EPA | I.D. | Nur | nber | (enter from page | 1) | | | | | | | Sec | onda | ary II | D Number (enter from page 1) |
|--------|--------|-------|-------|------|------|------------------|----------|---|-----|-----|-----|------|-----|----------|------|--------|-----------------------------------|
| Α . | Z | D | 9 | 8 | 2 | 4 4 1 2 | 6 3 | | | | | | | | | | |
| XIV. C |)esc | cript | ion | of H | azar | dous Wastes (cor | ntinued) | | | | | | | | | | |
| | | | | | | | | | | | | | | | D. | PRO | CESSES |
| | | | A. E | ĒΡΑ | | B. ESTIMATED | | | | | | | | c. ı | JNIT | OF | |
| | | H | ١ZAF | RDOL | JS | ANNUAL | | | | | | | | ME | ASUI | RE | |
| Line | | W | /AST | ENO | Э. | QUANTITY OF | (enter | | (1) | PRO | CES | s co | DES | ent (ent | er) | | (2) PROCESS DESCRIPTION |
| Numbe | ır | (| enter | code |) | WASTE | | | | coc | le) | | | | | | (if a code is not entered in D(1) |
| 1 | | U | 1 | 1 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 | | U | 1 | 1 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 | | U | 1 | 1 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 4 | | U | 1 | 1 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 5 | | U | 1 | 1 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 6 | | U | 1 | 1 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 7 | | U | 1 | 1 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 8 | | U | 1 | 1 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 9 | | U | 1 | 1 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 0 | | U | 1 | 2 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 1 | | U | 1 | 2 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 2 | | U | 1 | 2 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 3 | | U | 1 | 2 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 4 | | U | 1 | 2 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 5 | | U | 1 | 2 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 6 | - | U | 1 | 2 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 7 | | U | 1 | 2 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 8 | | U | 1 | 2 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 9 | | U | 1 | 3 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 0 | | U | 1 | 3 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 1 | ****** | U | 1 | 3 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 2 | | U | 1 | 3 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 3 | | U | 1 | 3 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 4 | | U | 1 | 3 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 5 | | U | 1 | 3 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 6 | | U | 1 | 4 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 7 | ***** | U | 1 | 4 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 8 | - | U | 1 | 4 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 9 | ***** | U | 1 | 4 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 0 | - | U | 1 | 4 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 1 | | U | 1 | 4 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 2 | | U | 1 | 4 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 3 | | U | 1 | 4 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |

| | EPA | ۱.D. | Nun | nber | (enter from page | 1) | | | | | | | Sec | onda | ary II | D Number (enter from page 1) |
|----------------|------|------|-------------|------|----------------------|---------------|---|-----|-----|------|-------------|------|-------|--------------|--------|--|
| A Z | D | 9 | 8 | 2 | 4 4 1 2 | 6 3 | | | | | | | | | | |
| XIV. Des | crip | tion | of H | azar | dous Wastes (con | itinued) | | | | | | | | | | |
| | | AZAF | EPA
RDOU | | B. ESTIMATED ANNUAL | / | | (4) | DD. | | · · · · · · | | ME | JNIT
ASUI | OF | CESSES DESCRIPTION |
| Line
Number | | | E NC | | QUANTITY OF
WASTE | (enter | | (1) | COC | OCES | 3 C(| JUES | o (en | er) | | (2) PROCESS DESCRIPTION (if a code is not entered in D(1) |
| 1 | U | 1 | 4 | 8 | 5,000 | Р | s | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | (ii a code is not enterea in D(1) |
| 2 | U | 1 | 4 | 9 | 5,000 | <u>.</u>
Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 | U | 1 | 5 | 0 | 5,000 | <u>.</u>
Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 4 | U | 1 | 5 | 1 | 5,000 | <u>·</u>
Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 5 | U | 1 | 5 | 2 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 6 | U | 1 | 5 | 3 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 7 | U | 1 | 5 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 8 | U | 1 | 5 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 9 | U | 1 | 5 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 0 | U | 1 | 5 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 11 | U | 1 | 5 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 2 | U | 1 | 5 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 3 | U | 1 | 6 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 4 | U | 1 | 6 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 5 | U | 1 | 6 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 6 | U | 1 | 6 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 7 | U | 1 | 6 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 8 | U | 1 | 6 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 1 9 | U | 1 | 6 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 0 | U | 1 | 6 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 1 | U | 1 | 6 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 2 | U | 1 | 7 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 3 | U | 1 | 7 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 4 | U | 1 | 7 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 5 | U | 1 | 7 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 6 | U | 1 | 7 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 7 | U | 1 | 7 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 28 | U | 1 | 7 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 2 9 | U | 1 | 7 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
| 3 0 | U | 1 | 7 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |
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| 3 3 | U | 1 | 8 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Т | 0 | 4 | |

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Form Approved, OMB No. 2050-0034 Expires 9-30-96 Please print or type with ELITE type (12 characters per inch) in the unshaded areas only GSANo.0248-FPA-01 Secondary ID Number (Enter from page 1) EPAI.D. Number (Enter from page 1) 3 D 8 2 Attach to this application a topographic map, or other equivalent map, of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in this map area. See instructions for precise requirements. XVI! Facility Drawing All existing facilities must include a scale drawing of the facility (see instructions for more detail). **明** 2017年 - 1918年 - 1 XVII Photographs All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail). XVIII. Certification(s) I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Operator Signature 🤻 Date Signed Name and Official Tripe or print Owner) Gregor E. Norgaard Vice President, U.S. Filter Recovery Services, Inc Facility Owner Signature Type or princhairman, Colorado River Indian Tribes (Property Owner) Operator Signature Date Signed Name and Official Title (Type or print) Date Signed Operator Signature Name and Official Title (Type or print) XIX. Comments Received spent carbons are thermally reactivated in one of two furnaces. Reactivated are certified non-hazardous and then shipped for recycling and/or reuse. Reactivated reactivation process is sketched in a Schematic Block-Process Flow Diagram attached as Drawing No. 11135-002. Incidental to the reactivation process is the management of container storage (area S01); spent carbon storage tanks (area S02); reactivation and reactivation off-gas treatment (area T04); and the non-hazardous slurry transfer water (recycle water) system, wastewater treatment system, rainwater collection system, and reactivated carbon product storage and shipping.

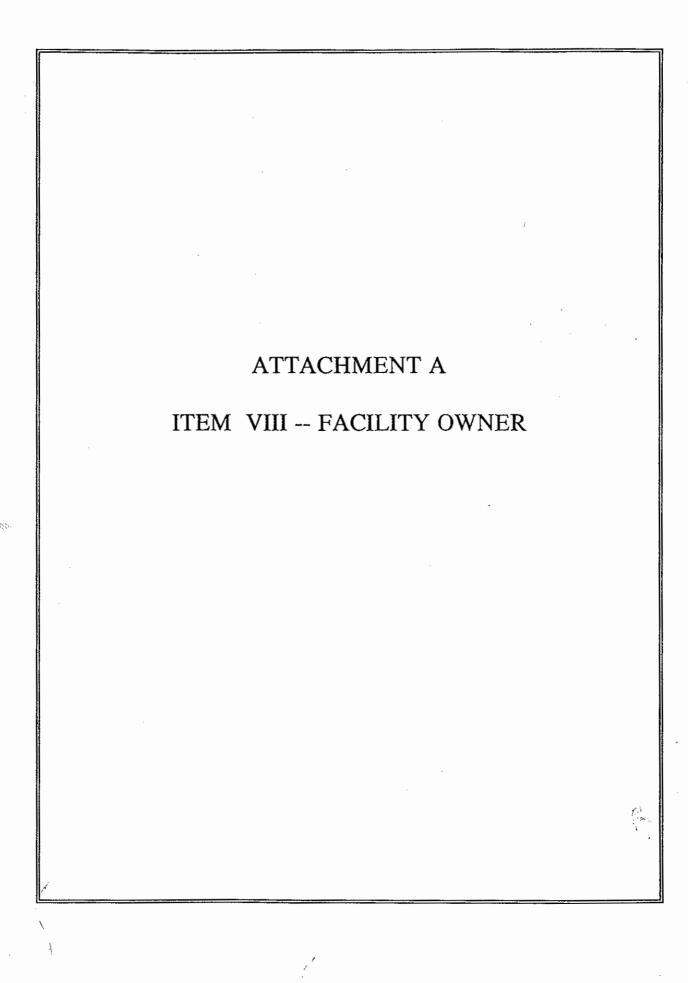
to aquire the shares of Westates Carbon-Arizona, Inc.
Note: Mail completed form to the appropriate EPA Regional or State Office. (Refer to instructions for more information) EPA Form 8700-23 (Rev. 2-28-95)

*(Footnote to Section XVIII) EPA currently has a Part A that is signed by Mestates Carbon-Arizona, Inc. This Part A is signed on behalf of the company which has agreed

| | EP# | ۱.D | . Nu | mbe | r | (ente | er froi | n pag | e 1) | | | | | | | | | Sec | ond | ary | ID N | umk | er | | (ent | er fron | n page | 1) | |
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| X۱ | XVI. Facility Drawing All existing facilities must include a scale drawing of the facility (see Instructions for more detail). | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| X۱ | XVII. Photographs | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33333 | All existing facilities must include photographs (aerial or ground-level) that clearly delineate allexisting structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see Instructions for more detail). | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X۱ | XVIII. Certification(s) | | | | | | | | | | | | | | | ****** | | | | | | | | | | | | | |
| 10101010 | XVIII. Certification(s) I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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INDEX OF ATTACHMENTS

| TTACHMENTS | | DESCRIPTION |
|------------|----------|--|
| Α | ITEM | VIII Facility Owner |
| В | ITEM | XV Map |
| | 1. | Drawing No. C-100604 Sheet 1 of 2 (Rev. 0)
Topographical Map 1 - Plant Site |
| | 2. | Drawing No. C-100604 Sheet 2 of 2 (Rev. 0)
Topographical Map 2 - Adjacent Lands |
| С | ITEM | XVI Facility Drawing |
| | 1. | Scale Drawing of Property Layout |
| | 2. | Scale Drawing of Facility Layout (Equipment Location) |
| | 3. | Drawing No. 11135-002 (Rev. 1)
Schematic Process Flow Diagram |
| D | ITEM | XVII Photographs |
| | 1.
2. | Site Photographs Site Aerial Photograph |



ADDITIONAL INFORMATION

EPA ID NUMBER: AZD982441263

ATTACHMENT A -- ITEM VIII

FACILITY OWNER

NAME OF FACILITY'S LEGAL OWNER

WESTATES CARBON-ARIZONA, INC. 2523 MUTAHAR STREET PARKER, ARIZONA 85344-4005 TELEPHONE: 602-669-5758

OWNER TYPE - P

NAME OF PROPERTY OWNER:

COLORADO RIVER INDIAN TRIBES RT - 1, BOX 23 - B PARKER, ARIZONA - 85344 TELEPHONE: 602-669-9211

OWNER TYPE - I

ATTACHMENT B

ITEM XV -- MAP

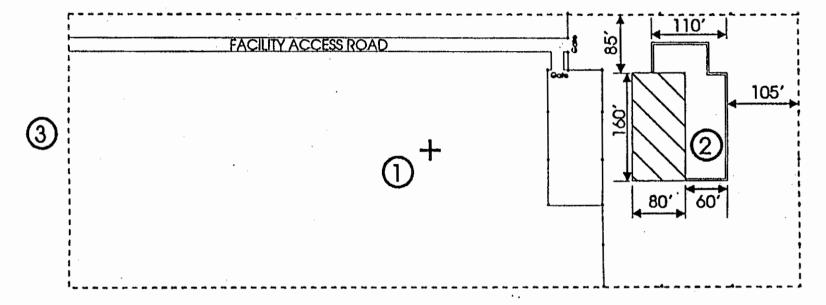
- 1. DRAWING NO. C-100604 SHEET 1 OF 2 (REV. 0) TOPOGRAPHICAL MAP 1 - PLANT SITE
- 2. DRAWING NO. C-100604 SHEET 2 OF 2 (REV. 0) TOPOGRAPHICAL MAP 2 - ADJACENT LANDS

1.394

ATTACHMENT C ITEM XVII -- FACILITY DRAWING

- 1. SCALE DRAWING OF PROPERTY LAYOUT
- 2. SCALE DRAWING OF FACILITY LAYOUT (EQUIPMENT LOCATION)
- 3. DRAWING NO. 11135-002 -- SCHEMATIC PROCESS FLOW DIAGRAM





LEGEND:

- Center of Property is Approximately N 34*-07'-50' X W 114*-16'-22*
- 2 Uncovered Reactivation Facilities
- Mutahar Street

----Property Une



Covered Storage and Maintenance Facilities

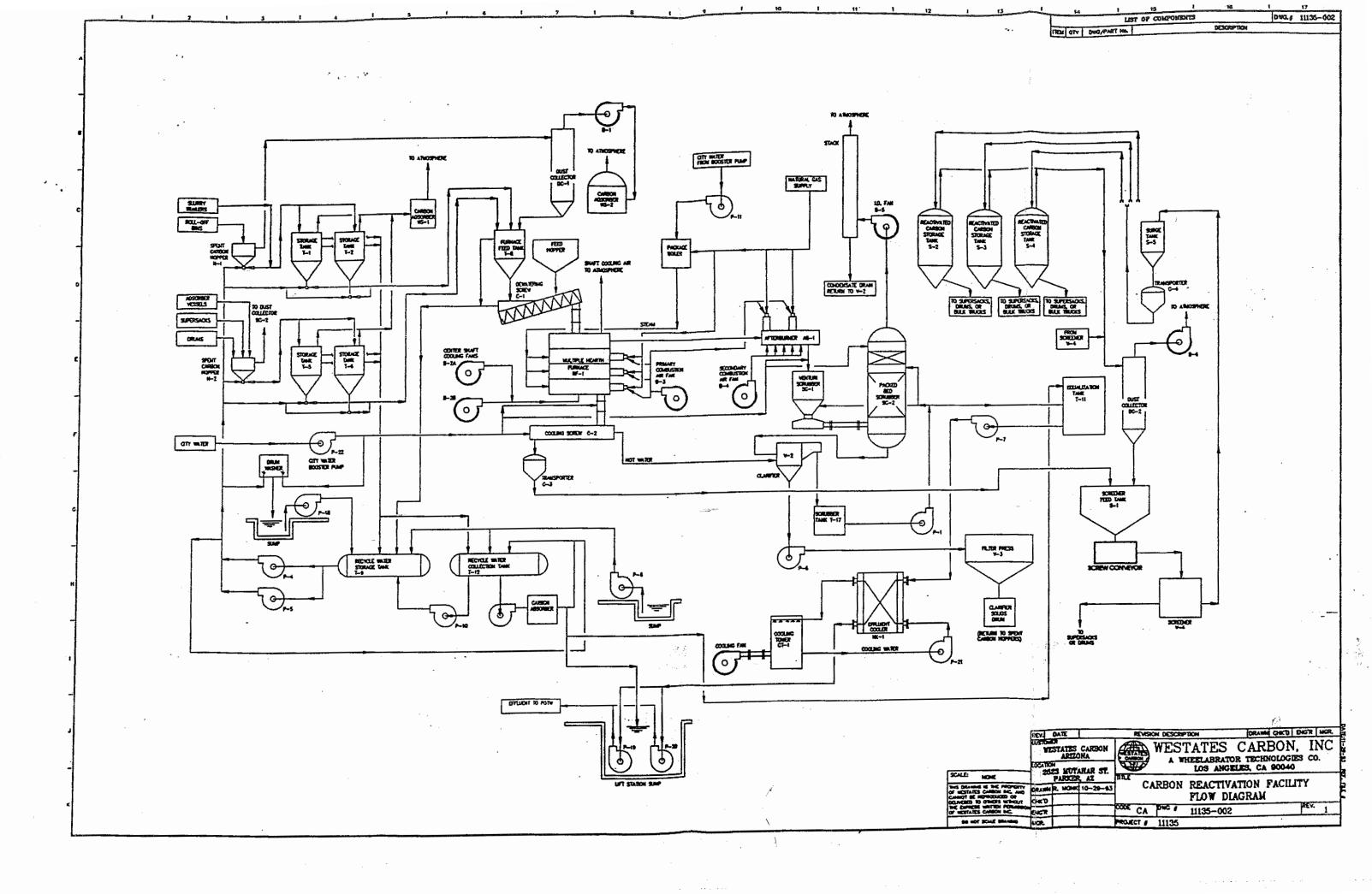
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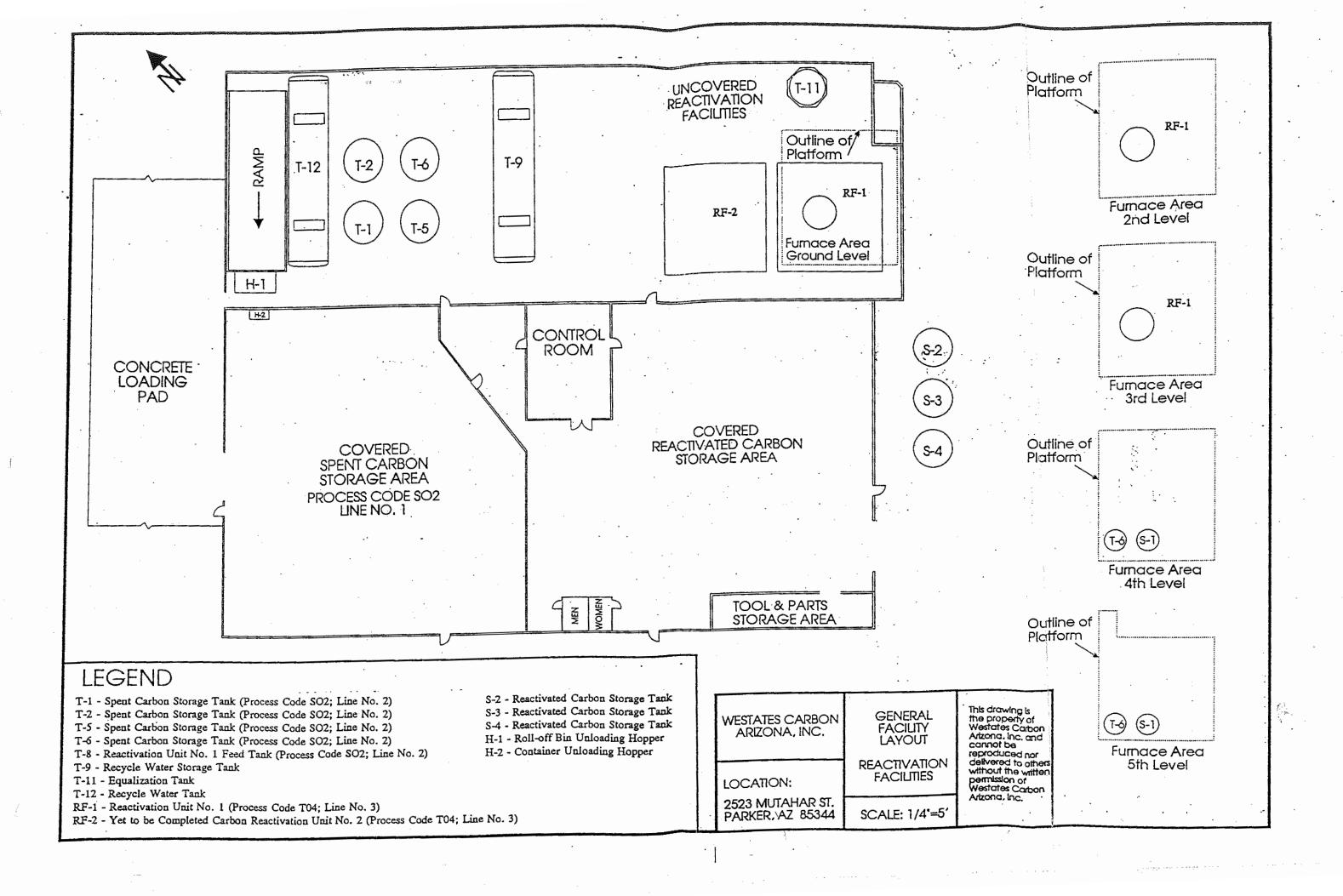
WESTATES CARBON - ARIZONA Parker, Arizona

> General Property Layout Reactivation Facilities

Scale 1"=150'

Location: 2523 Mutahar Street Parker, Arizona 85344





ATTACHMENT D

ITEM XVII -- PHOTOGRAPHS

- 1. SITE PHOTOGRAPHS
- 2. SITE AERIAL PHOTOGRAPHS

Process Code S02 (Identified as Line Number 2 in Section XII)

Spent Carbon Storage Feed Tanks (Tank No. T-1 and T-2)



Process Code S02 (Identified as Line Number 2 in Section XII)

Spent Carbon Storage Feed Tanks (Tank No. T-5 and T-6)



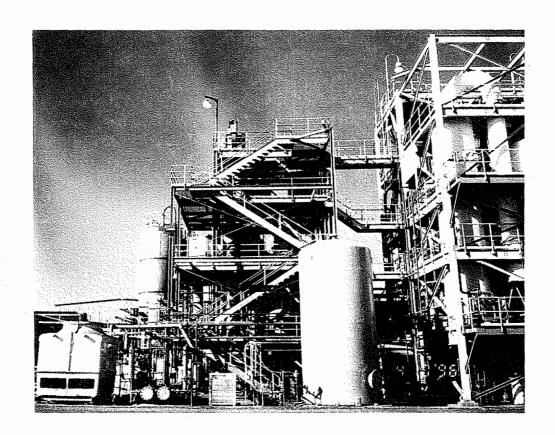
Process Code S02 (Identified as Line Number 2 in Section XII)

Spent Carbon Storage Feed Tanks (Tank No. T-8)



Process Code T04 (Identified as Line Number 3 in Section XII)

Carbon Reactivation Unit No.1 (RF-1) (1 of 2)



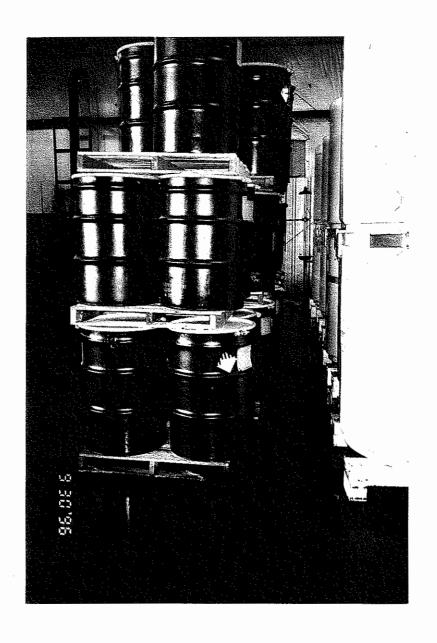
Process Code T04 (Identified as Line Number 3 in Section XII)

Carbon Reactivation Unit No.2 (RF-2) (2 of 2)



Process Code S01 (Identified as Line Number 1 in Section XII)

Spent Carbon Storage (Warehouse)



October 1996



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IX

75 Hawthorne Street San Francisco, Ca. 94105

MAR 2 5 1992

Mr. Robert Babbitt Project Manager Westates Carbon - Arizona, Inc. 2250 Tubeway Avenue Los Angeles, CA 90040

Dear Mr. Babbitt:

The United States Environmental Protection Agency ("EPA") has reviewed the information you provided in a letter dated February 14, 1992, regarding the interim status eligibility of Westates Carbon-Arizona, Inc. ("Westates") (ID# AZD982441263), located on the Colorado River Indian Reservation near Parker, Arizona.

The documentation you provided verifies that construction of the Westates facility had commenced before the effective date (August 21, 1991) of the boiler and industrial furnace (BIF) rule, thereby confirming Westates' status as an existing facility, pursuant to 40 CFR 260.10 and Section 3005(e)(1)(A)(ii) of RCRA. EPA hereby confirms that you have met the requirements as an interim status facility.

EPA will "call-in" your Part B permit application at a later date considering the relative hazard to human health and environment that Westates poses compared to other storage, treatment, and disposal facilities within the Director's purview. If you have any questions regarding this matter, please contact Chris Heppe at (415) 744-2027.

Sincerely,

Paula Bisson, Chief

Arizona, Nevada, Pacific Island Section

cc: Daniel Eddy, Jr., Chairman Colorado Indian Tribe

Revised Part A Forms

Provided for Information Purposes Only

OMB#: 2050-0034 Expires 11/30/2005

| SEND COMPLETED FORM TO: | United States Environmental F | Protection | n Agency | |
|---|---|--------------|------------------------|------------------|
| The Appropriate State or EPA Regional Office. | RCRA SUBTITLE C SITE IDENT | TIFICAT | ION FORM | |
| Reason for Submittal (See instructions on page 14.) | Reason for Submittal: To provide Initial Notification of Regulated Waste waste, universal waste, or used oil activities) | Activity (to | obtain an EPA ID Numbe | er for hazardous |
| MARK ALL BOX(ES)
THAT APPLY | □ To provide Subsequent Notification of Regulated □ As a component of a First RCRA Hazardous Was □ As a component of a Revised RCRA Hazardous □ As a component of the Hazardous Waste Report | ste Part A P | ermit Application | · |
| 2. Site EPA ID
Number (page 15) | EPA ID Number | _! | . | |
| 3. Site Name (page 15) | Name: | | | |
| 4. Site Location | Street Address: | | | |
| Information
(page 15) | City, Town, or Village: | | State: | |
| | County Name: | | Zip Code: | |
| 5. Site Land Type (page 15) | Site Land Type: ☐ Private ☐ County ☐ District | ☐ Federal | ☐ Indian ☐ Municipal | ☐ State ☐ Other |
| 6. North American
Industry
Classification | A. | B. I | _ | I |
| System (NAICS) Code(s) for the Site (page 15) | c. | D. I | _!!! | l |
| 7. Site Mailing | Street or P. O. Box: | | | |
| Address
(page 16) | City, Town, or Village: | | | |
| | State: | | | |
| | Country: | | Zip Code: | |
| 8. Site Contact Person | First Name: | MI: | Last Name: | |
| (page 16) | Phone Number: Extension | ı: | Email address: | |
| 9. Operator and
Legal Owner | A. Name of Site's Operator: | | Date Became Operato | or (mm/dd/yyyy): |
| of the Site
(pages 16 and 17) | Operator Type: ☐ Private ☐ County ☐ District | ☐ Federal | ☐ Indian ☐ Municipal | □ State □ Other |
| | B. Name of Site's Legal Owner: | | Date Became Owner (| mm/dd/yyyy): |
| | Owner Type: Private County District | ☐ Federal | ☐ Indian ☐ Municipal | ☐ State ☐ Other |

| EPA ID NO: II_ | _ | _ | | OMB#: 2050-0034 Expires 11/30/200 |
|--|---|------------------------|--------------|---|
| 9. Legal Owner (Continued) | Street or P. O. Box: | | | |
| Address | City, Town, or Village: | | | |
| | State: | | | |
| | Country: | | | Zip Code: |
| 10. Type of Regulated
Mark "Yes" or "No | _ | ny additional boxes | as instructe | d. (See instructions on pages 18 to 21.) |
| A. Hazardous Was
Complete all pa | te Activities
rts for 1 through 6. | | | |
| Y □ N □ 1. Generator | of Hazardous Waste | | YONO | 2. Transporter of Hazardous Waste |
| If "Yes", ch | noose only one of the following | g - a, b, or c. | | |
| □ a 100: | Creator than 1,000 kg/ma (2,20 | 20 lbs /ms) | YONO | 3. Treater, Storer, or Disposer of |
| ■ a. LQG. | Greater than 1,000 kg/mo (2,20 of non-acute hazardous waste | · | | Hazardous Waste (at your site) Note: A hazardous waste permit is required for |
| | | | | this activity. |
| □ b. SQG | 100 to 1,000 kg/mo (220 - 2,20 of non-acute hazardous waste | · · | | |
| | of non-acute mazardous waste | , 01 | YUNU | 4. Recycler of Hazardous Waste (at your site) |
| C. CESO | QG: Less than 100 kg/mo (220 ll | | | Site) |
| | of non-acute hazardous was | ste | YONO | 5. Exempt Boiler and/or Industrial |
| In addition, i | ndicate other generator activit | ies. | | Furnace If "Yes", mark each that applies. |
| V D N D d Heite | d Otataa laasaadaa afillaasadaa | \\/ t - | | a. Small Quantity On-site Burner |
| Y LIN LI a. Onite | d States Importer of Hazardous | vvaste | | Exemption |
| Y □ N □ e. Mixe | d Waste (hazardous and radioad | tive) Generator | | b. Smelting, Melting, and Refining
Furnace Exemption |
| | | | YONO | 6. Underground Injection Control |
| B. Universal Wast | e Activities | | c. u | Jsed Oil Activities |
| V D N D 4 Large Oue | stitu Handlar of Hairerad Was | to (accumulate | N | lark all boxes that apply. |
| _ | ntity Handler of Universal Was
more) [refer to your State reg | • | YONO. | 1. Used Oil Transporter |
| | what is regulated]. Indicate ty | = | | If "Yes", mark each that applies. |
| | erated and/or accumulated at y | our site. If "Yes", | | a. Transporterb. Transfer Facility |
| illark all bo | xes that apply: Generate | e Accumulate | | a b. Handler Facility |
| . 5 " | | | YONO | 2. Used Oil Processor and/or Re-refiner |
| a. Batteries | | _ | | If "Yes", mark each that applies. ☐ a. Processor |
| b. Pesticides | | • | | □ b. Re-refiner |
| c. Thermosta | ıts 📮 | 0 | YDND: | 3. Off-Specification Used Oil Burner |
| d. Lamps | | 0 | | or opposition odda on Barrior |
| e. Other (spe | ecify) | 0 | YONO | 4. Used Oil Fuel Marketer If "Yes", mark each that applies. |
| f. Other (spe | ecify) | • | | ☐ a. Marketer Who Directs Shipment of |
| g. Other (spe | ecify) | | | Off-Specification Used Oil to Off-Specification Used Oil Burner b. Marketer Who First Claims the |
| | n Facility for Universal Waste | ired for this activity | | Used Oil Meets the Specifications |

| E PA ID NO : _ | ll | <u> </u> | l_ | l_ | _l | OMB#: 2050-0034 | Expires 11/30/2005 |
|---|---|---|---------------------------------------|---------------------------------------|---|---|--|
| 11. Description of Hazardous Wastes | (See instruction | ns on page 22 | .) | | | | |
| A. Waste Codes for Federally Regularized handled at your site. List them in additional page if more spaces are | the order they are | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| B. Waste Codes for State-Regulate hazardous wastes handled at your more spaces are needed for waste | site. List them in | - | | | | | - |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 12. Comments (See instructions on p | page 22.) | | | | | | |
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| | | | | | | | _ |
| 13. Certification. I certify under penalt in accordance with a system designed to on my inquiry of the person or persons winformation submitted is, to the best of menalties for submitting false information. For the RCRA Hazardous Waste Part A (See instructions on page 22.) | o assure that quali
who manage the s
my knowledge and
n, including the pos | ified personne
ystem, or thos
belief, true, ac
ssibility of fine | l prope
e pers
ccurat
and in | erly ga
sons d
e, and
mpriso | ther and eva
irectly respor
complete. I
nment for kn | luate the information nsible for gathering that am aware that there a owing violations. | submitted. Based
ne information, the
are significant |
| Signature of operator, owner, or an authorized representative | Name and Offi | icial Title (typ | e or p | orint) | | | Date Signed (mm/dd/yyyy) |
| | | | | | | | |
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United States Environmental Protection Agency

HAZARDOUS WASTE PERMIT INFORMATION FORM

| | Facility Permit | First Name: MI: Last Name: | | | | | | | | | | | | | | | |
|----------|---|----------------------------|-------|-------|--------|-------|------|--------|-------|-------|------|----|--------|-----|------|----|-------------------------|
| | Contact (See | | | | | | | | | | | | | | | | |
| | instructions on page 23) | Pho | one | Nun | nber | : | | | | | | | | | | | Phone Number Extension: |
| | Facility Permit Contact Mailing | Stre | et c | or P. | .O. E | Box: | | | | | | | | | | | |
| | Address (See | City | /. To | -wn | , or \ | /illa | ae: | | | | | | | | | | |
| | instructions on | | ,, | , | , | | J | | | | | | | | | | |
| | page 23) | Sta | te: | | | | | | | | | | | | | | |
| | | Cou | untr | y: | | | | | | | | | | | | | Zip Code: |
| | Operator Mailing Address and | Stre | eet o | or P. | .O. E | Box: | | | | | | | | | | | |
| | Telephone Number (See instructions on | City | /, To | wn, | , or \ | /illa | ge: | | | | | | | | | | |
| | page 23) | Sta | te: | | | | | | | | | | | | | | |
| | | Cou | untr | y: | | | | | | | | Z | Zip Co | od | e: | | Phone Number |
| | Legal Owner Mailing Address and | Stre | eet o | or P. | .O. E | Box: | | | | | | | | | | | |
| | Telephone Number (See instructions on | City | /, Tc | wn, | , or \ | /illa | ge: | | | | | | | | | | |
| | page 23) | Sta | te: | | | | | | | | | | | | | | |
| | | Cou | untr | y: | | | | | | | | Z | Zip Co | ode | e: | | Phone Number |
| | Facility Existence Date (See instructions on page 24) | Fac | ility | Exi | isten | ce [| Date | e (mn | n/dd | /ууу: | y): | | | | | | |
| \vdash | Other Environmental Po | ermi | ts (S | See | inst | ruct | ion | s on | page | 24) | | | | | | | |
| | A. Permit Type
(Enter code) | | | | | | | rmit l | | | | | | | | | C. Description |
| | | | | | | | | | | | | | | | | | |
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| 7. | Nature of Business (Pro | ovid | e a l | brief | f des | crip | tio | n; se | e ins | struc | tior | าร | on p | ag | e 24 | 4) | |
| | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | |

- 8. Process Codes and Design Capacities (See instructions on page 24) Enter information in the Sections on Form Page 3.
 - A. PROCESS CODE Enter the code from the list of process codes in the table below that best describes each process to be used at the facility. Fifteen lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. For "other" processes (i.e., D99, S99, T04 and X99), enter the process information in Item 9 (including a description).
 - B. PROCESS DESIGN CAPACITY- For each code entered in Section A, enter the capacity of the process.
 - 1. AMOUNT Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action) enter the total amount of waste for that process.
 - 2. UNIT OF MEASURE For each amount entered in Section B(1), enter the code in Section B(2) from the list of unit of measure codes below that describes the unit of measure used. Select only from the units of measure in this list.

C. PROCESS TOTAL NUMBER OF UNITS - Enter the total number of units for each corresponding process code.

| PROCESS
CODE | PROCESS | APPROPRIATE UNITS OF MEASURE
FOR PROCESS DESIGN CAPACITY | PROCESS
CODE | PROCESS | APPROPRIATE UNITS OF MEASURE
FOR PROCESS DESIGN CAPACITY |
|-----------------|--|---|-------------------|---|--|
| | Disposal: | | | Treatment (continued): | |
| D79 | Underground Injection
Well Disposal | Gallons; Liters; Gallons Per Day; or Liters
Per Day | T81
T82 | Cement Kiln
Lime Kiln | For T81-T93: |
| D80 | Landfill | Acre-feet; Hectare-meter; Acres; Cubic Meters;
Hectares; Cubic Yards | T83
T84
T85 | Aggregate Kiln
Phosphate Kiln
Coke Oven | Gallons Per Day; Liters Per Day; Pounds
Per Hour; Short Tons Per Hour; Kilograms
Per Hour; Metric Tons Per Day; Metric |
| D81 | Land Treatment | Acres or Hectares | T86 | Blast Furnace | Tons Per Hour; Short Tons Per Day; Btu |
| D82 | Ocean Disposal | Gallons Per Day or Liters Per Day | T87 | Smelting, Melting, or Refining | Per
Hour; Liters Per Hour; Kilograms Per |
| D83 | Surface Impoundment
Disposal | Gallons; Liters; Cubic Meters; or Cubic Yards | T88 | Furnace Titanium Dioxide Chloride Oxidation Reactor | Hour; or Million Btu Per Hour |
| D99 | Other Disposal | Any Unit of Measure in Code Table Below | T89 | Methane Reforming Furnace
Pulping Liquor Recovery | |
| | Storage: | | T90 | Furnace | |
| S01 | Container | Gallons; Liters; Cubic Meters; or Cubic Yards | T91 | Combustion Device Used In | |
| S02 | Tank Storage | Gallons; Liters; Cubic Meters; or Cubic Yards | | The Recovery Of Sulfur Values
From Spent Sulfuric Acid | |
| S03 | Waste Pile | Cubic Yards or Cubic Meters | T92
T93 | Halogen Acid Furnaces
Other Industrial Furnaces | |
| S04 | Surface Impoundment
Storage | Gallons; Liters; Cubic Meters; or Cubic Yards | 193 | Listed In 40 CFR §260.10 | |
| S05 | Drip Pad | Gallons; Liters; Acres; Cubic Meters; Hectares; or
Cubic Yards | T94 | Containment Building -
Treatment | Cubic Yards; Cubic Meters; Short Tons Per
Hour; Gallons Per Hour; Liters Per Hour;
Btu Per Hour; Pounds Per Hour; Short Tons |
| S06 | Containment Building
Storage | Cubic Yards or Cubic Meters | | | Per Day; Kilograms Per Hour; Metric Tons
Per Day; Gallons Per Day; Liters Per Day;
Metric Tons Per Hour; or Million Btu Per |
| S99 | Other Storage | Any Unit of Measure in Code Table Below | | | Hour |
| | Treatment: | | | Miscellaneous (Subpart X): | |
| T01 | Tank Treatment | Gallons Per Day; Liters Per Day | X01 | Open Burning/Open Detonation | Any Unit of Measure in Code Table Below |
| T02 | Surface Impoundment
Treatment | Gallons Per Day; Liters Per Day | X02 | Mechanical Processing | Short Tons Per Hour; Metric Tons Per
Hour; Short Tons Per Day; Metric Tons Per
Day; Pounds Per Hour; Kilograms Per |
| T03 | Incinerator | Short Tons Per Hour; Metric Tons Per Hour;
Gallons Per Hour; Liters Per Hour; Btu Per Hour; | | | Hour; Gallons Per Hour; Liters Per Hour;
or Gallons Per Day |
| | | Pounds Per Hour; Short Tons Per Day; Kilograms
Per Hour; Gallons Per Day; Liters Per Day; Metric
Tons Per Hour; or Million Btu Per Hour | X03 | Thermal Unit | Gallons Per Day; Liters Per Day; Pounds
Per Hour; Short Tons Per Hour; Kilograms
Per Hour; Metric Tons Per Day; Metric |
| T04 | Other Treatment | Gallons Per Day; Liters Per Day; Pounds Per
Hour; Short Tons Per Hour; Kilograms Per Hour; | | | Tons Per Hour; Short Tons Per Day; Btu
Per Hour; or Million Btu Per Hour |
| | | Metric Tons Per Day; Metric Tons Per Hour; Short
Tons Per Day; Btu Per Hour; Gallons Per Day;
Liters Per Hour; or Million Btu Per Hour | X04 | Geologic Repository | Cubic Yards; Cubic Meters; Acre-feet;
Hectare-meter; Gallons; or Liters |
| T80 | Boiler | Gallons; Liters; Gallons Per Hour; Liters Per
Hour; Btu Per Hour; or Million Btu Per Hour | X99 | Other Subpart X | Any Unit of Measure Listed Below |

| UNIT OF | UNIT OF | UNIT OF | UNIT OF | UNIT OF | UNIT OF |
|---------|--------------|---|--------------|-------------|--------------|
| MEASURE | MEASURE CODE | MEASURE | MEASURE CODE | MEASURE | MEASURE CODE |
| Gallons | E U L H | Short Tons Per Hour Metric Tons Per Hour Short Tons Per Day Metric Tons Per Day Pounds Per Hour Kilograms Per Hour Million Btu Per Hour | W N S J R | Cubic Yards | C B A Q F |

| ΕP | A IE |) NC |): I_ | I_ | | <u>. </u> | _l | OMB | #: 2050 | -0034 Exp | ires 11/ | 30/2005 |
|------|-----------------|----------|--------------|-------|--|------------------|--|----------------|-----------|--------------|-----------|---------|
| 8. P | roces | s Co | des ar | nd De | sign Capacities (Continued) | | | | | | | |
| | EXA | MPL | E FOF | COM | IPLETING Item 8 (shown in line number X-1 below): A | facility has | s a storage i | tank, which ca | n hold 53 | 3.788 gallo | ons. | |
| | | | | | B. PROCESS DESIGN CAPAC | TY | | C. | | | | |
| | ne
nber | | A.
cess (| | (1) Amount (Specify) | | (2) Unit of
Measure
(Enter code) | Number | | For Offic | ial Use (| Only |
| X | 1 | S | 0 | 2 | 5 3 3 | . 7 8 8 | G | 0 0 | 1 | | | |
| | 1 | | | | | | | | | | | |
| | 2 | | | | | | | | | | | |
| | 3 | | | | | | | | | | | |
| | 4 | | | | | | | | | | | |
| | 5 | | | | | | | | | | | |
| | 6 | | | | | | | | | | | |
| | 7 | | | | | - | | | | | | |
| | 8 | | | | | - | | | | | | |
| | 9 | | | | | | | | | | | |
| 1 | 0 | | | | | - | | | | | | |
| 1 | 1 | | | | | | | | | | | |
| 1 | 2 | | | | | | | | | | | |
| 1 | 3 | | | | | - | | | | | | |
| 1 | 4 | | | | | - | | | | | | |
| 1 | 5 | | | | | <u> </u> | | | | | | |
| | | | | | o list more than 15 process codes, attach an additiona
y, taking into account any lines that will be used for " | | | | | | ve. Num | iber |
| ۹ ೧ | | | | | instructions on page 25 and follow instructions from h | | | | | | | |
| | ne | 1000 | 3303 | (556) | · - | | 3, 333, 104 | C. | | <u> </u> | | |
| | nber | | | | B. PROCESS DESIGN CAPACITY | | it of P | Process Total | | | | |
| - | r #s in
ence | Prod | A.
cess (| Code | | (2) Uni
Measi | | Number of | | | | |
| - | tem 8) | | n list al | | (1) Amount (Specify) | (Enter c | ode) | Units | D. | Description | n of Prod | cess |
| X | 2 | <i>T</i> | 0 | 4 | 100.000 | U | | 0 0 1 | In-situ | Vitrificatio | n | |
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- 10. Description of Hazardous Wastes (See instructions on page 25) Enter information in the Sections on Form Page 5.
 - A. EPA HAZARDOUS WASTE NUMBER Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR Part 261, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
 - B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in Section A, estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in Section A, estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
 - C. UNIT OF MEASURE For each quantity entered in Section B, enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

| ENGLISH UNIT OF MEASURE | CODE | METRIC UNIT OF MEASURE | CODE |
|-------------------------|------|------------------------|------|
| POUNDS | P | KILOGRAMS | Κ |
| TONS | Τ | METRIC TONS | М |

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure, taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in Section A, select the code(s) from the list of process codes contained in Items 8A and 9A on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the listed hazardous wastes.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in Section A, select the code(s) from the list of process codes contained in Items 8A and 9A on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

- 1. Enter the first two as described above.
- 2. Enter "000" in the extreme right box of Item 10.D(1).
- 3. Use additional sheet, enter line number from previous sheet, and enter additional code(s) in Item 10.E.
- 2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in Item 10.D(2) or in Item 10.E(2).

 NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:
 - 1. Select one of the EPA Hazardous Waste Numbers and enter it in Section A. On the same line complete Sections B, C and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
 - 2. In Section A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In Section D(2) on that line enter "included with above" and make no other entries on that line.
 - 3. Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING Item 10 (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operations. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

| | | | | PA | _ | B.
Estimated | C. | | | | | | ı | D. PROCESS | ES | |
|---|------------|---|------------------------|------|---|--------------------------------|------------------------------------|---|---|---------|-------|------|---------|------------|----|--|
| | ne
1ber | | Hazai
Wast
Enter | e No | | Annual
Quantity
of Waste | Unit of
Measure
(Enter code) | | | (1) PR(| OCESS | CODE | S (Ente | r code) | | (2) PROCESS DESCRIPTION-
(If a code is not entered in D(1)) |
| Х | 1 | K | 0 | 5 | 4 | 900 | Р | Т | 0 | 3 | D | 8 | 0 | | | |
| Х | 2 | D | 0 | 0 | 2 | 400 | Р | Т | 0 | 3 | D | 8 | 0 | | | |
| Х | 3 | D | 0 | 0 | 1 | 100 | Р | Т | 0 | 3 | D | 8 | 0 | | | |
| Х | 4 | D | 0 | 0 | 2 | | | | | | | | | | | Included With Above |

| | | | ١. | В. | | | | | | I | D. PRO | CESSES | 3 | |
|---------------|--|------|-------------------------------|---|--|--|---------|-------|------|---------|---------|--------|---|--|
| Line
umber | | Wast | PA
rdous
e No.
code) | Estimated
Annual
Quantity
of Waste | C.
Unit of
Measure
(Enter code) | | (1) PR(| OCESS | CODE | S (Ente | er code |) | | (2) PROCESS DESCRIPTIO
(If a code is not entered in D |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
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| 4 | | | | | | | | | | | 1 | | | |
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| 6 | 1 | | | | | | | | | | | | | |
| 7 | t | | | | | | | | | | | | | |
| 8 | t | | | | | | | | | | | | | |
| 9 | | | | | 1 | | | | | | | | | |

| 10. Descri | ption | of H | azar | dous | Wastes (Con | tinued. Use th | is Add | ditional | Sheet(s |) as ne | cessar | y; num | ber as | 5 a, et | c.) | |
|----------------|----------|------------------------------|--------------|------|------------------------------------|------------------------------------|--------|----------|---------|---------|--------|---------|---------|---------|-----|---|
| | | | 1.
PA | | B. | C. | | | | | | ı | E. PRO | CESS | ES | |
| Line
Number | | Er
Hazar
Wast
Enter | rdou
e No | | Estimated Annual Quantity of Waste | Unit of
Measure
(Enter code) | | | (1) PR(| OCESS | CODE | S (Ente | er code |) | | (2) PROCESS DESCRIPTION
(If a code is not entered in E(1)) |
| 4 0 | <u> </u> | | | | | | | | | | | | | | | |
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EPA ID NO: AZD982441263

| 10. l | Descr | iption | n of H | Haza | rdou | ıs Wastes (Co | ntinued. Use th | nis Ad | ditiona | l Shee | et (s) a | s nece | essary | ; munb | er as | 5a, etc | c.) |
|-------|------------|--------|--------|-----------------------|------|---|------------------------------------|--------|---------|--------|----------|--------|--------|---------|-------|---------|---|
| | | | A | ١. | | B. | C. | | | | | | | E. PR | OCES | SES | |
| | ne
nber | ١ | Nast | nzard
e No
code | | Estimated
Annual
Quantity of
Waste | Unit of
Measure
(Enter code) | | (1, |) PRO | CESS | CODE | ES (En | ter cod | de) | | (2) PROCESS DESCRIPTION
(If a code is not entered in E(1)) |
| 7 | 9 | K | 0 | 3 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 8 | 0 | K | 0 | 3 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 8 | 1 | K | 0 | 3 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 8 | 2 | K | 0 | 3 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 8 | 3 | K | 0 | 3 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 8 | 4 | K | 0 | 3 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 8 | 5 | K | 0 | 3 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 8 | 6 | K | 0 | 3 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 8 | 7 | K | 0 | 3 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 8 | 8 | K | 0 | 4 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 8 | 9 | K | 0 | 4 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 9 | 0 | K | 0 | 4 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 9 | 1 | K | 0 | 4 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 9 | 2 | K | 0 | 4 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 9 | 3 | K | 0 | 4 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 9 | 4 | K | 0 | 5 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 9 | 5 | K | 0 | 5 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 9 | 6 | K | 0 | 5 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 9 | 7 | K | 0 | 6 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 9 | 8 | K | 0 | 6 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 9 | 9 | K | 0 | 6 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 10 | 0 | K | 0 | 6 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 10 | 1 | K | 0 | 7 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 10 | 2 | K | 0 | 7 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 10 | 3 | K | 0 | 8 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 10 | 4 | K | 0 | 8 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 10 | 5 | K | 0 | 8 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 10 | 6 | K | 0 | 8 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 10 | 7 | K | 0 | 8 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 10 | 8 | K | 0 | 8 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 10 | 9 | K | 0 | 9 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 11 | 0 | K | 0 | 9 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 11 | 1 | K | 0 | 9 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 11 | 2 | K | 0 | 9 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 11 | 3 | K | 0 | 9 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 11 | 4 | K | 0 | 9 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 11 | 5 | K | 0 | 9 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 11 | 6 | K | 0 | 9 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 11 | 7 | K | 1 | 0 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |

EPA ID NO: AZD982441263

| 10. [| Descr | iptior | n of I | Haza | rdou | ıs Wastes (Co | ontinued. Use th | nis Ad | ditiona | l Shee | et (s) a | s nece | essary | ; munb | er as | 5a, etc | D.) |
|------------|-------|--------|--------|-----------------------|------|---|------------------------------------|--------|---------|--------|----------|--------|--------|----------|-------|---------|---|
| | | | 1 | ١. | | B. | C. | | | | • | | | E. PR | OCES | SES | |
| Lir
Num | | l | Nast | azard
e No
code | | Estimated
Annual
Quantity of
Waste | Unit of
Measure
(Enter code) | | (1) |) PRO | CESS | CODE | ES (En | nter cod | de) | | (2) PROCESS DESCRIPTION
(If a code is not entered in E(1)) |
| 11 | 8 | Κ | 1 | 0 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 11 | 9 | Κ | 1 | 0 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 12 | 0 | Κ | 1 | 0 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 12 | 1 | Κ | 1 | 0 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 12 | 2 | K | 1 | 0 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 12 | 3 | Κ | 1 | 0 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 12 | 4 | Κ | 1 | 1 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 12 | 5 | Κ | 1 | 1 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 12 | 6 | Κ | 1 | 1 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 12 | 7 | Κ | 1 | 1 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 12 | 8 | Κ | 1 | 1 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 12 | 9 | Κ | 1 | 1 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 13 | 0 | Κ | 1 | 1 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 13 | 1 | Κ | 1 | 2 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 13 | 2 | Κ | 1 | 2 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 13 | 3 | Р | 0 | 0 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 13 | 4 | Ρ | 0 | 0 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 13 | 5 | Р | 0 | 0 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 13 | 6 | Р | 0 | 0 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 13 | 7 | Р | 0 | 0 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 13 | 8 | Р | 0 | 0 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 13 | 9 | Р | 0 | 0 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 14 | 0 | Ρ | 0 | 1 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 14 | 1 | Р | 0 | 1 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 14 | 2 | Р | 0 | 1 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 14 | 3 | Ρ | 0 | 1 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 14 | 4 | Р | 0 | 1 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 14 | 5 | Ρ | 0 | 1 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 14 | 6 | Р | 0 | 1 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 14 | 7 | Р | 0 | 1 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 14 | 8 | Р | 0 | 1 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 14 | 9 | Ρ | 0 | 2 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 15 | 0 | Р | 0 | 2 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 15 | 1 | Р | 0 | 2 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 15 | 2 | Р | 0 | 2 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 15 | 3 | Ρ | 0 | 2 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 15 | 4 | Ρ | 0 | 2 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 15 | 5 | Р | 0 | 2 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 15 | 6 | Ρ | 0 | 2 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |

EPA ID NO: AZD982441263

| 10. I | Descr | iptior | n of H | Haza | rdou | s Wastes (Co | ntinued. Use th | nis Ad | ditiona | l Shee | et (s) a | s nece | essary | ; munb | er as | 5a, etc | c.) |
|------------|-------|--------|--------|-----------------------|------|---|------------------------------------|--------|---------|--------|----------|--------|--------|---------|-------|---------|---|
| | | | 1 | ١. | | B. | C. | | | | | | | E. PR | OCES | SES | |
| Lii
Nun | | l | Nast | nzard
e No
code | | Estimated
Annual
Quantity of
Waste | Unit of
Measure
(Enter code) | | (1, |) PRO | CESS | CODE | ES (En | ter cod | de) | | (2) PROCESS DESCRIPTION
(If a code is not entered in E(1)) |
| 15 | 7 | Р | 0 | 2 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 15 | 8 | Р | 0 | 3 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 15 | 9 | Р | 0 | 3 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 16 | 0 | Р | 0 | 3 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 16 | 1 | Р | 0 | 3 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 16 | 2 | Р | 0 | 3 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 16 | 3 | Р | 0 | 3 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 16 | 4 | Р | 0 | 3 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 16 | 5 | Р | 0 | 3 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 16 | 6 | Ρ | 0 | 4 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 16 | 7 | Р | 0 | 4 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 16 | 8 | Ρ | 0 | 4 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 16 | 9 | Р | 0 | 4 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 17 | 0 | Ρ | 0 | 4 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 17 | 1 | Ρ | 0 | 4 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 17 | 2 | Р | 0 | 4 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 17 | 3 | Р | 0 | 4 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 17 | 4 | Р | 0 | 4 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 17 | 5 | Р | 0 | 4 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 17 | 6 | Р | 0 | 5 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 17 | 7 | Р | 0 | 5 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 17 | 8 | Ρ | 0 | 5 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 17 | 9 | Р | 0 | 5 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 18 | 0 | Ρ | 0 | 5 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 18 | 1 | Ρ | 0 | 5 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 18 | 2 | Ρ | 0 | 5 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 18 | 3 | Ρ | 0 | 6 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 18 | 4 | Ρ | 0 | 6 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 18 | 5 | Ρ | 0 | 6 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 18 | 6 | Ρ | 0 | 6 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 18 | 7 | Р | 0 | 6 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 18 | 8 | Р | 0 | 6 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 18 | 9 | Р | 0 | 6 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 19 | 0 | Р | 0 | 6 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 19 | 1 | Р | 0 | 7 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 19 | 2 | Р | 0 | 7 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 19 | 3 | Р | 0 | 7 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 19 | 4 | Р | 0 | 7 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 19 | 5 | Р | 0 | 7 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |

| 10. I | Descr | iptio | n of I | Haza | rdou | s Wastes (Co | ntinued. Use th | nis Ad | ditiona | l Shee | et (s) a | s nece | essary | ; munt | er as | 5a, etc | c.) |
|------------|--------|--------|--------|-----------|------------|----------------------|-------------------------|--------|---------|--------|----------|--------|--------|---------|-------|---------|--|
| | | | A | ١. | | B. | C. | | | | | | | E. PR | OCES | SES | |
| | | | | | | Estimated | | | | | | | | | | | |
| | | | | azaro | | Annual | Unit of | | | | | | | | | | |
| Lii | | | | e No | | Quantity of
Waste | Measure
(Enter code) | | /1 | N DDO | OF CC | CODI | -C /Fn | tor oo | da) | | (2) PROCESS DESCRIPTION (If a code is not entered in E(1)) |
| <i>Nun</i> | 6 | P | 0 | code
7 | <i>5</i>) | 5,000 | P | S | 0 | 1 | S | 0 | 2 | ter cod | 0 0 | 3 | (II a code is not entered in L(1)) |
| 19 | 7 | Р | 0 | 7 | 7 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 19 | 8 | P | 0 | 7 | 8 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 19 | 9 | P | 0 | 8 | 2 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 20 | 0 | P | 0 | 8 | 4 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 20 | 1 | P | 0 | 8 | 5 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 20 | 2 | Р | 0 | 8 | 7 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 20 | 3 | Р | 0 | 8 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 20 | 4 | Р | 0 | 8 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 20 | 5 | Р | 0 | 9 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 20 | 6 | Ρ | 0 | 9 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 20 | 7 | Ρ | 0 | 9 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 20 | 8 | Ρ | 0 | 9 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 20 | 9 | Ρ | 0 | 9 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 21 | 0 | Ρ | 0 | 9 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 21 | 1 | Р | 0 | 9 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 21 | 2 | Ρ | 0 | 9 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 21 | 3 | Р | 1 | 0 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 21 | 4 | Р | 1 | 0 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 21 | 5 | Ρ | 1 | 0 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 21 | 6 | Р | 1 | 0 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 21 | 7 | Р | 1 | 0 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 21 | 8 | Р | 1 | 0 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 21 | 9 | Р | 1 | 0 | 9 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 22 | 0 | P | 1 | 1 | 0 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 22 | 1 | Р | 1 | 1 | 3 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 22 | 2 | Р | 1 | 1 | 4 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 22 | 3 | Р | 1 | 1 | 5 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 22 | 4 | Р | 1 | 1 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 22 | 5
6 | P
P | 1 | 1 | 8 | 5,000
5,000 | P
P | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 22 | 7 | Р | 1 | 2 | 0 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 22 | 8 | Р | 1 | 2 | 1 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 22 | 9 | P | 1 | 2 | 3 | 5,000 | P
P | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 23 | 0 | U | 0 | 0 | 1 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 23 | 1 | J | 0 | 0 | 2 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 23 | 2 | U | 0 | 0 | 3 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 23 | 3 | U | 0 | 0 | 4 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 23 | 4 | U | 0 | 0 | 5 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 20 | -т | J | J | J | J | 0,000 | ı | J | J | ' | J | J | | ^ | | J | |

| 10. [| Descr | iptio | n of I | laza | rdou | ıs Wastes (Co | ontinued. Use th | nis Ad | ditiona | l Shee | et (s) a | s nece | essary | ; munt | er as | 5a, et | c.) |
|------------|-------|-------|--------|----------------------|------|---|------------------------------------|--------|---------|--------|----------|--------|--------|----------|-------|--------|---|
| | | | F | ١. | | B. | C. | | | | | | | E. PR | OCES | SES | |
| Lir
Num | | ı | Vast | zard
e No
code | | Estimated
Annual
Quantity of
Waste | Unit of
Measure
(Enter code) | | (1) |) PRO | CESS | CODE | ES (En | iter cod | de) | | (2) PROCESS DESCRIPTION
(If a code is not entered in E(1)) |
| 23 | 5 | U | 0 | 0 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 23 | 6 | U | 0 | 0 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 23 | 7 | J | 0 | 0 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 23 | 8 | U | 0 | 1 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 23 | 9 | J | 0 | 1 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 24 | 0 | J | 0 | 1 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 24 | 1 | U | 0 | 1 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 24 | 2 | J | 0 | 1 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 24 | 3 | U | 0 | 1 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 24 | 4 | J | 0 | 1 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 24 | 5 | J | 0 | 1 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 24 | 6 | J | 0 | 1 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 24 | 7 | | | | | | | | | | | | | | | | Intentionally blank |
| 24 | 8 | J | 0 | 2 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 24 | 9 | U | 0 | 2 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 25 | 0 | U | 0 | 2 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 25 | 1 | U | 0 | 2 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 25 | 2 | J | 0 | 2 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 25 | 3 | U | 0 | 2 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 25 | 4 | U | 0 | 2 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 25 | 5 | U | 0 | 3 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 25 | 6 | J | 0 | 3 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 25 | 7 | U | 0 | 3 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 25 | 8 | U | 0 | 3 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 25 | 9 | U | 0 | 3 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 26 | 0 | U | 0 | 3 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 26 | 1 | U | 0 | 3 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 26 | 2 | U | 0 | 3 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 26 | 3 | U | 0 | 3 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 26 | 4 | U | 0 | 4 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 26 | 5 | U | 0 | 4 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 26 | 6 | U | 0 | 4 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 26 | 7 | U | 0 | 4 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 26 | 8 | U | 0 | 4 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 26 | 9 | U | 0 | 4 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 27 | 0 | U | 0 | 4 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 27 | 1 | U | 0 | 4 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 27 | 2 | U | 0 | 4 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 27 | 3 | U | 0 | 5 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |

| 10. [| Descr | iptio | n of H | Haza | rdou | ıs Wastes (Co | ontinued. Use th | nis Ad | ditiona | l Shee | et (s) a | s nece | essary | ; munb | er as | 5a, etc | D.) |
|------------|-------|-------|--------|-----------------------|------|---|------------------------------------|--------|---------|--------|----------|--------|--------|----------|-------|---------|---|
| | | | 1 | ١. | | B. | C. | | | | • | | | E. PR | OCES | SES | |
| Lii
Nun | | ١ | Nast | nzard
e No
code | | Estimated
Annual
Quantity of
Waste | Unit of
Measure
(Enter code) | | (1, |) PRO | CESS | CODE | ES (En | iter cod | de) | | (2) PROCESS DESCRIPTION
(If a code is not entered in E(1)) |
| 27 | 4 | U | 0 | 5 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 27 | 5 | J | 0 | 5 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 27 | 6 | U | 0 | 5 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 27 | 7 | U | 0 | 5 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 27 | 8 | U | 0 | 5 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 27 | 9 | J | 0 | 5 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 28 | 0 | U | 0 | 5 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 28 | 1 | J | 0 | 5 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 28 | 2 | U | 0 | 6 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 28 | 3 | J | 0 | 6 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 28 | 4 | J | 0 | 6 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 28 | 5 | J | 0 | 6 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 28 | 6 | J | 0 | 6 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 28 | 7 | U | 0 | 6 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 28 | 8 | U | 0 | 6 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 28 | 9 | J | 0 | 6 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 29 | 0 | U | 0 | 6 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 29 | 1 | J | 0 | 7 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 29 | 2 | U | 0 | 7 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 29 | 3 | U | 0 | 7 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 29 | 4 | U | 0 | 7 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 29 | 5 | J | 0 | 7 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 29 | 6 | U | 0 | 7 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 29 | 7 | U | 0 | 7 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 29 | 8 | U | 0 | 7 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 29 | 9 | U | 0 | 7 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 30 | 0 | U | 0 | 7 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 30 | 1 | U | 0 | 8 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 30 | 2 | U | 0 | 8 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 30 | 3 | U | 0 | 8 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 30 | 4 | U | 0 | 8 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 30 | 5 | U | 0 | 8 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 30 | 6 | U | 0 | 8 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 30 | 7 | U | 0 | 8 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 30 | 8 | U | 0 | 8 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 30 | 9 | U | 0 | 8 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 31 | 0 | U | 0 | 8 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 31 | 1 | U | 0 | 9 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 31 | 2 | U | 0 | 9 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |

| 10. [| Descr | iptio | n of I | Haza | rdou | ıs Wastes (Co | ntinued. Use th | nis Ad | ditiona | l Shee | et (s) a | s nece | essary | ; munt | er as | 5a, etc | c.) |
|------------|-------|-------|--------|-----------------------|------|---|------------------------------------|--------|---------|--------|----------|--------|--------|----------|-------|---------|---|
| | | | 1 | ١. | | B. | C. | | | | | | | E. PR | OCES | SES | |
| Lii
Nun | | ١ | Nast | azard
e No
code | | Estimated
Annual
Quantity of
Waste | Unit of
Measure
(Enter code) | | (1) | PRO | CESS | CODE | ES (En | nter cod | de) | | (2) PROCESS DESCRIPTION
(If a code is not entered in E(1)) |
| 31 | 3 | U | 0 | 9 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 31 | 4 | U | 0 | 9 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 31 | 5 | J | 0 | 9 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 31 | 6 | U | 0 | 9 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 31 | 7 | כ | 0 | 9 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 31 | 8 | U | 0 | 9 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 31 | 9 | J | 0 | 9 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 32 | 0 | U | 1 | 0 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 32 | 1 | U | 1 | 0 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 32 | 2 | כ | 1 | 0 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 32 | 3 | כ | 1 | 0 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 32 | 4 | J | 1 | 0 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 32 | 5 | J | 1 | 0 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 32 | 6 | U | 1 | 0 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 32 | 7 | J | 1 | 0 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 32 | 8 | U | 1 | 1 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 32 | 9 | J | 1 | 1 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 33 | 0 | U | 1 | 1 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 33 | 1 | J | 1 | 1 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 33 | 2 | J | 1 | 1 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 33 | 3 | J | 1 | 1 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 33 | 4 | U | 1 | 1 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 33 | 5 | J | 1 | 1 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 33 | 6 | J | 1 | 1 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 33 | 7 | J | 1 | 1 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 33 | 8 | J | 1 | 2 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 33 | 9 | U | 1 | 2 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 34 | 0 | U | 1 | 2 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 34 | 1 | U | 1 | 2 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 34 | 2 | U | 1 | 2 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 34 | 3 | U | 1 | 2 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 34 | 4 | U | 1 | 2 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 34 | 5 | U | 1 | 2 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 34 | 6 | U | 1 | 2 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 34 | 7 | U | 1 | 3 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 34 | 8 | U | 1 | 3 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 34 | 9 | U | 1 | 3 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 35 | 0 | U | 1 | 3 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 35 | 1 | U | 1 | 3 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |

EPA ID NO: AZD982441263

| 10. I | Descr | iptior | n of I | Haza | rdou | s Wastes (Co | ntinued. Use th | nis Ad | ditiona | l Shee | et (s) a | s nece | essary | ; munb | er as | 5a, etc | D.) |
|------------|-------|--------|--------|-----------------------|------|---|------------------------------------|--------|---------|--------|----------|--------|--------|---------|-------|---------|---|
| | | | A | ١. | | B. | C. | | | | | | | E. PR | OCES | SES | |
| Lii
Nun | | l | Nast | azard
e No
code | | Estimated
Annual
Quantity of
Waste | Unit of
Measure
(Enter code) | | (1, |) PRO | CESS | CODE | ES (En | ter cod | de) | | (2) PROCESS DESCRIPTION
(If a code is not entered in E(1)) |
| 35 | 2 | U | 1 | 3 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 35 | 3 | U | 1 | 3 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 35 | 4 | U | 1 | 4 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 35 | 5 | U | 1 | 4 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 35 | 6 | U | 1 | 4 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 35 | 7 | U | 1 | 4 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 35 | 8 | U | 1 | 4 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 35 | 9 | U | 1 | 4 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 36 | 0 | U | 1 | 4 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 36 | 1 | U | 1 | 4 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 36 | 2 | U | 1 | 4 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 36 | 3 | U | 1 | 4 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 36 | 4 | U | 1 | 5 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 36 | 5 | U | 1 | 5 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 36 | 6 | U | 1 | 5 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 36 | 7 | U | 1 | 5 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 36 | 8 | U | 1 | 5 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 36 | 9 | U | 1 | 5 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 37 | 0 | U | 1 | 5 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 37 | 1 | U | 1 | 5 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 37 | 2 | U | 1 | 5 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 37 | 3 | J | 1 | 5 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 37 | 4 | J | 1 | 6 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 37 | 5 | U | 1 | 6 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 37 | 6 | J | 1 | 6 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 37 | 7 | U | 1 | 6 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 37 | 8 | כ | 1 | 6 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 37 | 9 | J | 1 | 6 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 38 | 0 | J | 1 | 6 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 38 | 1 | J | 1 | 6 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 38 | 2 | U | 1 | 6 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 38 | 3 | כ | 1 | 7 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 38 | 4 | כ | 1 | 7 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 38 | 5 | כ | 1 | 7 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 38 | 6 | כ | 1 | 7 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 38 | 7 | כ | 1 | 7 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 38 | 8 | כ | 1 | 7 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 38 | 9 | J | 1 | 7 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 39 | 0 | J | 1 | 7 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |

EPA ID NO: AZD982441263

| 10. [| Descr | iptio | n of H | Haza | rdou | s Wastes (Co | ntinued. Use th | nis Ad | ditiona | l Shee | et (s) a | s nece | essary | ; munt | er as | 5a, etc | C.) |
|------------|-------|-------|--------|-----------------------|------|---|------------------------------------|--------|---------|--------|----------|--------|--------|----------|-------|---------|---|
| | | | P | ١. | | B. | C. | | | | | | | E. PR | OCES | SES | |
| Lii
Nun | | ١ | Nast | nzard
e No
code | | Estimated
Annual
Quantity of
Waste | Unit of
Measure
(Enter code) | | (1, |) PRO | CESS | CODE | ES (En | nter cod | de) | | (2) PROCESS DESCRIPTION
(If a code is not entered in E(1)) |
| 39 | 1 | n, | 1 | 7 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | , , , |
| 39 | 2 | J | 1 | 8 | 0 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 39 | 3 | U | 1 | 8 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 39 | 4 | U | 1 | 8 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 39 | 5 | U | 1 | 8 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 39 | 6 | U | 1 | 8 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 39 | 7 | U | 1 | 8 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 39 | 8 | U | 1 | 8 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 39 | 9 | J | 1 | 8 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 40 | 0 | U | 1 | 8 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 40 | 1 | U | 1 | 9 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 40 | 2 | U | 1 | 9 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 40 | 3 | U | 1 | 9 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 40 | 4 | כ | 1 | 9 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 40 | 5 | כ | 1 | 9 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 40 | 6 | כ | 1 | 9 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 40 | 7 | U | 1 | 9 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 40 | 8 | U | 2 | 0 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 40 | 9 | U | 2 | 0 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 41 | 0 | U | 2 | 0 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 41 | 1 | J | 2 | 0 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 41 | 2 | J | 2 | 0 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 41 | 3 | U | 2 | 0 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 41 | 4 | U | 2 | 0 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 41 | 5 | U | 2 | 0 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 41 | 6 | J | 2 | 0 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 41 | 7 | U | 2 | 1 | 0 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 41 | 8 | U | 2 | 1 | 1 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 41 | 9 | U | 2 | 1 | 3 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 42 | 0 | U | 2 | 1 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 42 | 1 | U | 2 | 1 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 42 | 2 | U | 2 | 1 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 42 | 3 | U | 2 | 1 | 7 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 42 | 4 | υ | 2 | 1 | 8 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 42 | 5 | υ | 2 | 1 | 9 | 5,000 | P | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 42 | 6 | U | 2 | 2 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 42 | 7 | U | 2 | 2 | 1 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 42 | 8 | U | 2 | 2 | 2 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | X | 0 | 3 | |
| 42 | 9 | U | 2 | 2 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |

EPA ID NO: AZD982441263

| 10. I | Descr | iption | n of I | Haza | rdou | s Wastes (Co | ntinued. Use th | nis Ado | ditiona | l Shee | et (s) a | s nece | essary | ; munk | er as | 5a, etc | C.) |
|------------|------------|--------|--------|-----------------------|------|---|------------------------------------|---------|---------|--------|----------|--------|--------|----------|-------|---------|---|
| | | | A | | | В. | C. | | | | • | | | E. PR | | | |
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nber | ١ | Nast | azaro
e No
code | | Estimated
Annual
Quantity of
Waste | Unit of
Measure
(Enter code) | | (1) |) PRO | CESS | CODE | ES (En | nter cod | de) | | (2) PROCESS DESCRIPTION
(If a code is not entered in E(1)) |
| 43 | 0 | U | 2 | 2 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 44 | 1 | U | 2 | 2 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 44 | 2 | U | 2 | 2 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 44 | 3 | U | 2 | 3 | 5 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 44 | 4 | U | 2 | 3 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 44 | 5 | U | 2 | 3 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 44 | 6 | U | 2 | 3 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 44 | 7 | U | 2 | 3 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 44 | 8 | U | 2 | 4 | 0 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 44 | 9 | U | 2 | 4 | 3 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 45 | 0 | U | 2 | 4 | 4 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Х | 0 | 3 | |
| 45 | 1 | U | 2 | 4 | 6 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 45 | 2 | U | 2 | 4 | 7 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 45 | 3 | U | 2 | 4 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 45 | 4 | J | 2 | 4 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 45 | 5 | U | 3 | 2 | 8 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 45 | 6 | U | 3 | 5 | 3 | 5,000 | Р | Ø | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 45 | 7 | J | 3 | 5 | 9 | 5,000 | Р | S | 0 | 1 | S | 0 | 2 | Χ | 0 | 3 | |
| 45 | 8 | | | | | | | | | | | | | | | | |
| 45 | 9 | | | | | | | | | | | | | | | | |
| 46 | 0 | | | | | | | | | | | | | | | | |
| 46 | 1 | | | | | | | | | | | | | | | | |
| 46 | 2 | | | | | | | | | | | | | | | | |
| 46 | 3 | | | | | | | | | | | | | | | | |
| 46 | 4 | | | | | | | | | | | | | | | | |
| 46 | 5 | | | | | | | | | | | | | | | | |
| 46 | 6 | | | | | | | | | | | | | | | | |
| 46 | 7 | | | | | | | | | | | | | | | | |
| 46 | 8 | | | | | | | | | | | | | | | | |
| 46 | 9 | | | | | | | | | | | | | | | | |
| 47 | 0 | | | | | | | | | | | | | | | | |
| 47 | 1 | | | | | | | | | | | | | | | | |
| 47 | 2 | | | | | | | | | | | | | | | | |
| 47 | 3 | | | | | | | | | | | | | | | | |
| 47 | 4 | | | | | | | | | | | | | | | | |
| 47 | 5 | | | | | | | | | | | | | | | | |
| 47 | 6 | | | | | | | | | | | | | | | | |
| 47 | 7 | | | | | | | | | | | | | | | | |
| 47 | 8 | | | | | | | | | | | | | | | | |

| EPA ID NO: _ _ _ _ _ _ _ _ _ | OMB #: 2050-0034 Expires 11/30/2005 |
|---|--|
| 11. Map (See instructions on pages 25 and 26) | |
| Attach to this application a topographic map, or other equivalent map, of the area extending to at least of map must show the outline of the facility, the location of each of its existing and proposed intake and downste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Included water bodies in this map area. See instructions for precise requirements. | ischarge structures, each of its hazardous |
| 12. Facility Drawing (See instructions on page 26) | |
| All existing facilities must include a scale drawing of the facility (see instructions for more detail). | |
| 13. Photographs (See instructions on page 26) | |
| All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail | |
| 14. Comments (See instructions on page 26) | |
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ATTACHMENT A – Item 9 – Facility Owner Information

EPA ID NUMBER: AZD982441236

NAME OF FACILITY'S LEGAL OWNER (Owner Type P):

SIEMENS INDUSTRY, INC. 2523 MUTAHAR STREET PARKER, ARIZONA 85344-4005 TELEPHONE: (928) 669-5758

CORPORATE HEADQUARTERS OF FACILITY'S LEGAL OWNER:

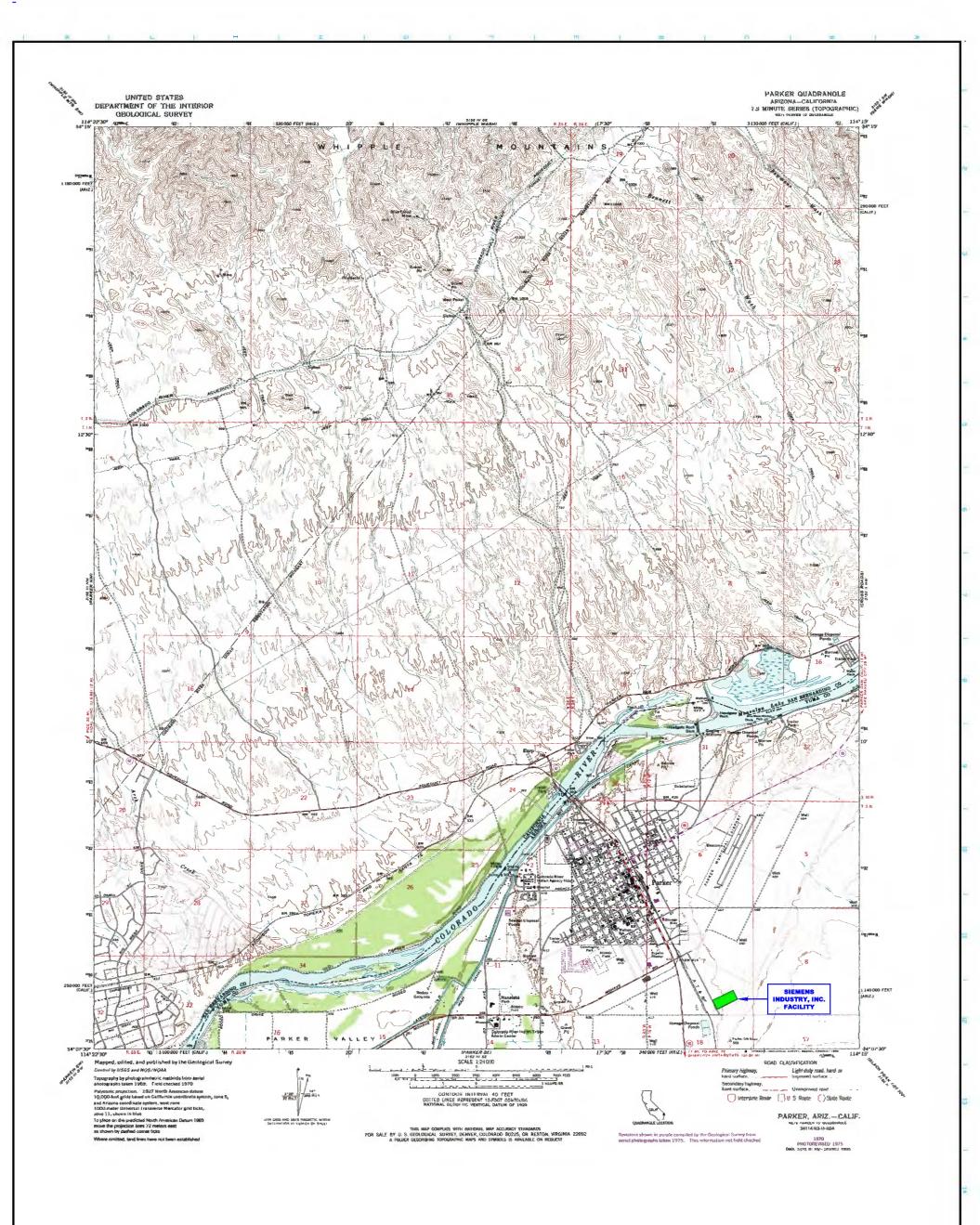
SIEMENS INDUSTRY, INC. 181 THORN HILL ROAD WARRENDALE, PENNSYLVANIA 15086 TELEPHONE: (724) 772-1402

NAME OF PROPERTY OWNER (Owner Type I):

COLORADO RIVER INDIAN TRIBES RT – 1, BOX 23 – B PARKER, ARIZONA 85344 TELEPHONE: (928) 669-9211 ATTACHMENT B – Item 11 – Topographic Map

DRAWING NO. C-100604 SHEET 1 OF 2 (REV. 0) TOPOGRAPHICAL MAP 1 – PLANT SITE

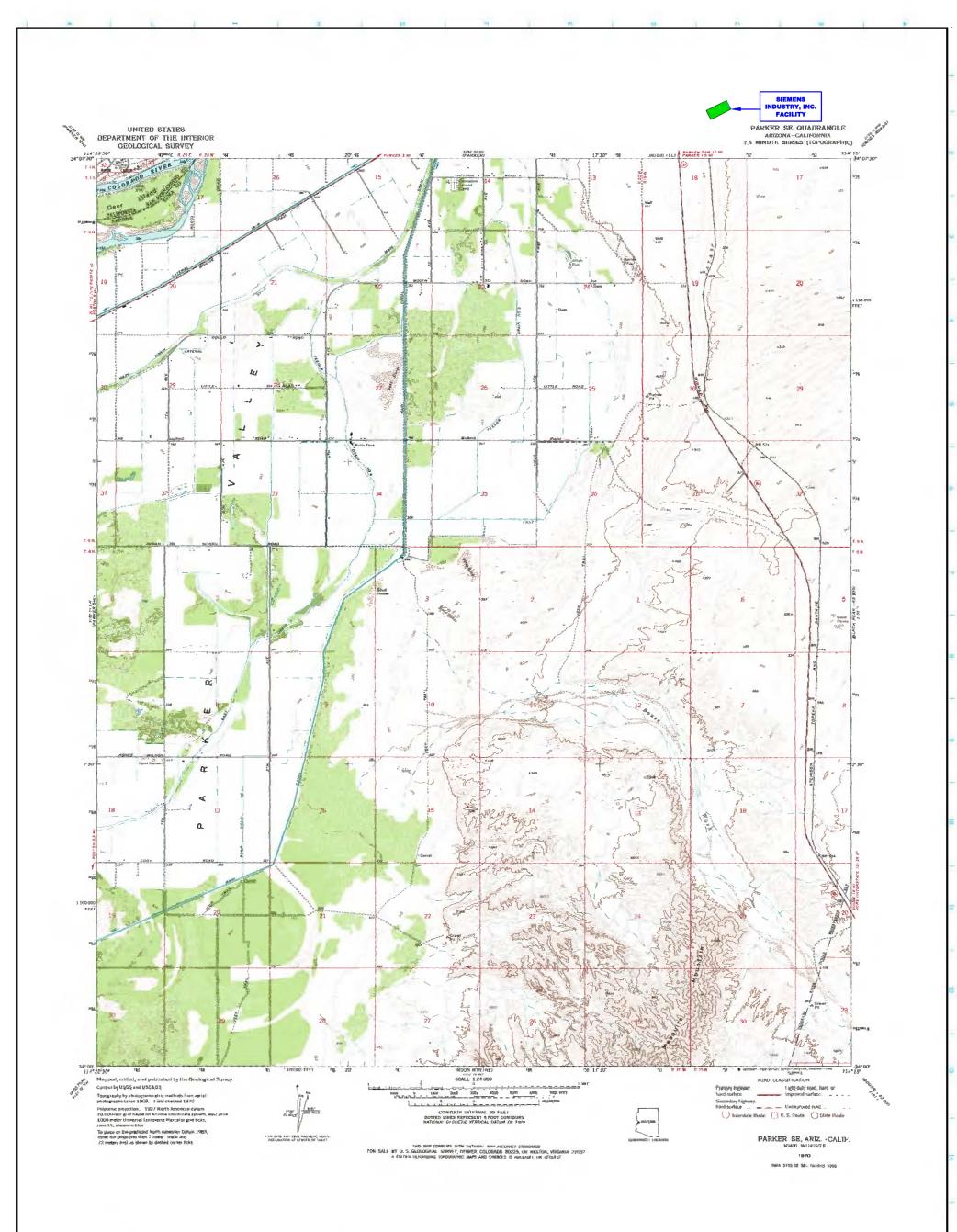
DRAWING NO. C-100604 SHEET 2OF 2 (REV. 0) TOPOGRAPHICAL MAP 2 – ADJACENT LANDS



NOTES:

- 1. SEE ATTACHED SIEMENS INDUSTRY, INC. DRAWING D-14789-02 FOR DETAILED LOCATION OF S01, S02, AND X03.
- 2. THERE ARE NO INJECTION WELLS ASSOCIATED WITH THIS FACILITY.
- THERE ARE NO SPRINGS, DRINKING WATER WELLS, NOR SURFACE WATER BODIES LOCATED WITHIN 1/4 MILE OF THIS FACILITY.

| | | | | | | | LOCATION | SIEM
DUSTR | Y, INC. | SIEMENS INDUSTRY, INC.
Parker, AZ |
|------|---------|--|-------|-------|-------|---|----------|---------------|----------------------|--|
| | | | | | | PLOT SCALE: AS NOTED | | | AHAR ST.
NZ 85344 | TITLE: |
| | | | | | | DO NOT SCALE DRAWING | | | 12 00044 | U.S.G.S. SURVEY - PARKER, AZ |
| | 1 1 | | | | | THIS DRAWING IS THE PROPERTY | PROJEC | Γ No. | | 4 404 COM 120 MINE TO THE TOTAL OF THE TOTAL |
| | | | | | | OF SIEMENS AND CANNOT BE
REPRODUCED OR DELIVERED TO | DRAWN: | JBE | 1/22/07 | TOPOGRAPHIC MAP |
| 1 | 3/15/12 | NAME CHANGED TO SIEMENS INDUSTRY, INC. | JBE | KEM | | OTHERS WITHOUT THE EXPRESS
WRITTEN PERMISSION OF SIEMENS | CHK'D: | KEM | 1/22/07 | |
| REV. | DATE | REVISION DESCRIPTION | DRAWN | CHK,D | ENG'R | INDUSTRY, INC. | ENG'R: | | | DWG No. C-100604 SHEET No. 1 of 2 REV. 1 |



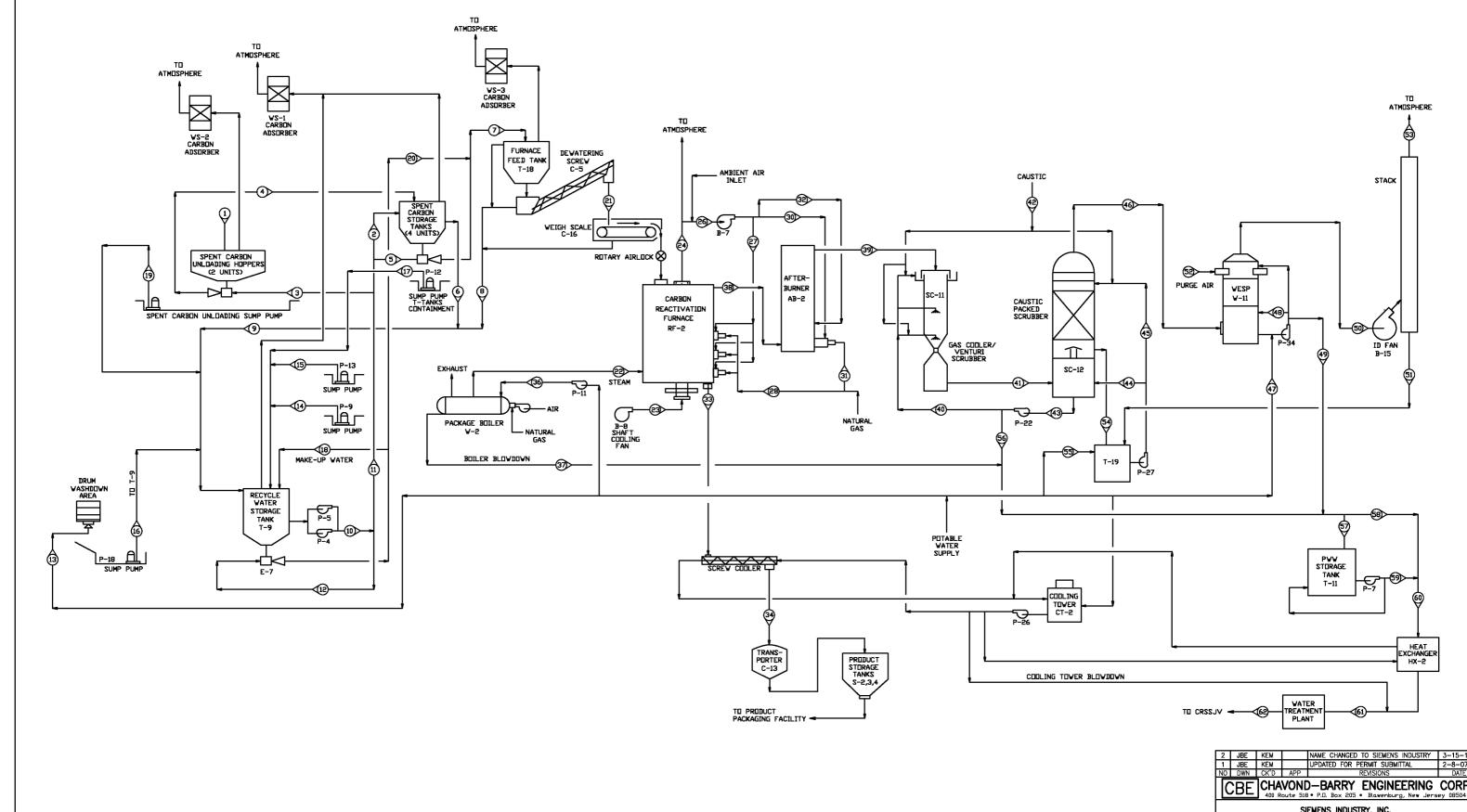
NOTES:

- SEE ATTACHED SIEMENS WATER TECHNOLOGIES CORP. DRAWING D-14789-02 FOR DETAILED LOCATION OF SO1, SO2, AND XO3.
- 2. THERE ARE NO INJECTION WELLS ASSOCIATED WITH THIS FACILITY.
- 3. THERE ARE NO SPRINGS, DRINKING WATER WELLS, NOR SURFACE WATER BODIES LOCATED WITHIN 1/4 MILE OF THIS FACILITY.

| | | | | | | | SIEMENS INDUSTRY, INC. | - | SIEMENS INDUSTRY, INC.
Parker, AZ |
|------|---------|--|-------|-------|-------|--|--------------------------------------|---------|--|
| | | | | | | PLOT SCALE: AS NOTED | 2523 MUTAHAR ST.
PARKER, AZ 85344 | TITLE: | |
| | | | | | | DO NOT SCALE DRAWING | | 4 | U.S.G.S. SURVEY - PARKER SE, AZ |
| | | | | | | THIS DRAWING IS THE PROPERTY | PROJECT No. | _ | The state of the s |
| | | | | | | OF SIEMENS AND CANNOT BE
REPRODUCED OR DELIVERED TO | DRAWN: JBE 1/22/07 | | TOPOGRAPHIC MAP |
| 1 | 3/15/12 | NAME CHANGED TO SIEMENS INDUSTRY, INC. | JBE | KEM | | | CHK'D: KEM 1/22/07 | | |
| REV. | DATE | REVISION DESCRIPTION | DRAWN | CHK'D | ENG'R | INDUSTRY, INC. | ENG'R: | DWG No. | C-100604 SHEET No. 2 of 2 REV. 1 |

ATTACHMENT C - Item 12 - Facility Drawing

SCALE DRAWING OF PROPERTY LAYOUT SCALE DRAWING OF FACILITY LAYOUT (EQUIPMENT LOCATION) SCHEMATIC PROCESS FLOW DIAGRAM

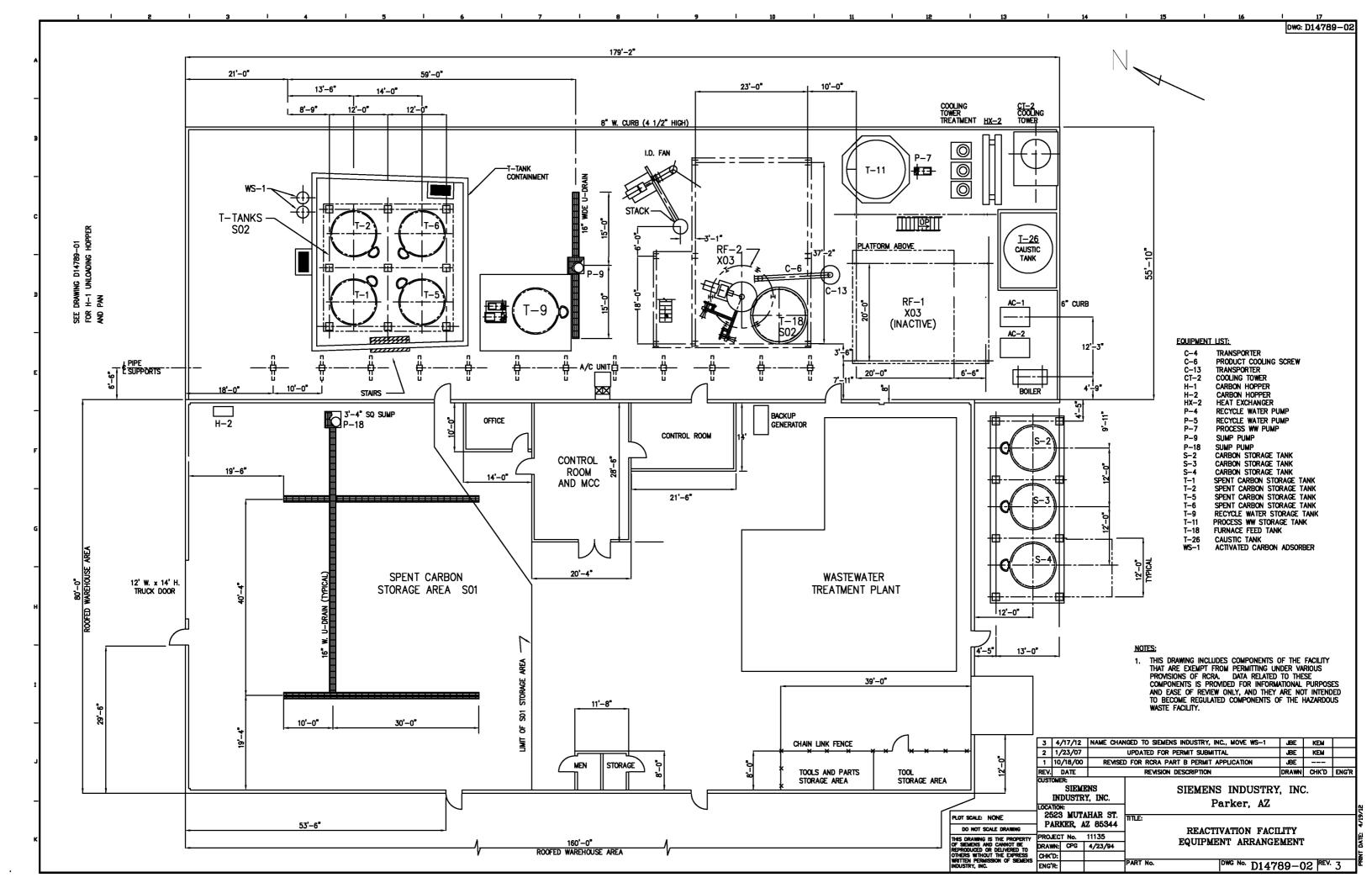


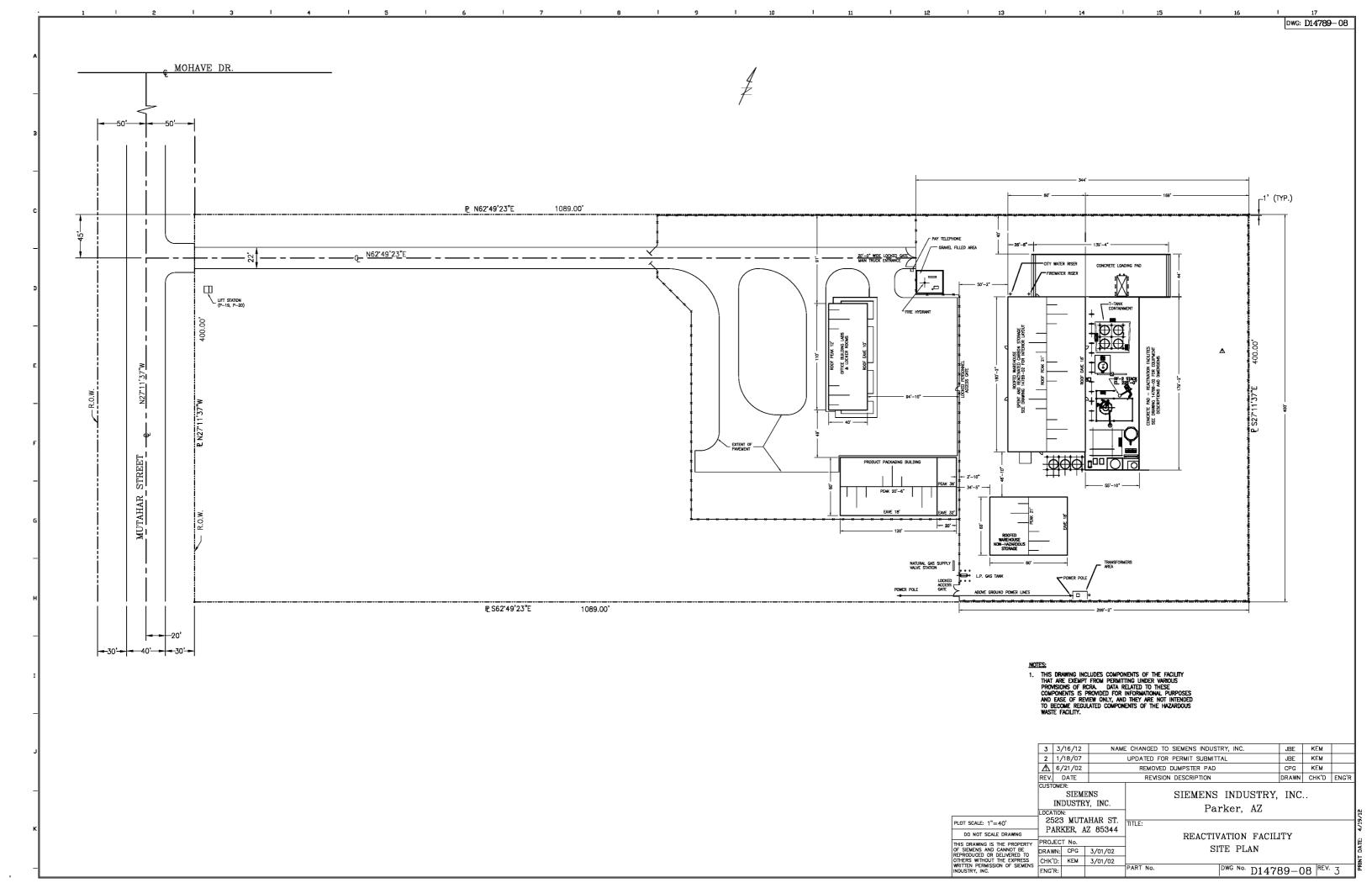
THIS PRINT AND ALL INFORMATION THERE ON IS THE PROPERTY OF THE CHAVOND-BARRY ENGINEERING CORPORATION AND IS SUBJECT TO RETURN UPON DEMAND. IT IS NOT TO BE MADE PUBLIC OR COPIED UNLESS AUTHORIZED BY THE ABOVE COMPANY. ALL RIGHTS TO PATENTABLE DESIGN OR INVENTION AND RESERVED.

NOTES

 THIS DRAVING INCLUDES COMPONENTS OF THE FACILITY THAT ARE EXCHPT FROM PERMITTING UNDER VARIOUS PROVISIONS OF RORA. DATA RELATED ID THESE COMPONENTS IS PROVIDED FOR INFORMATIONAL PURPOSES AND EASE OF REVIEW DALY, AND THEY ARE MIT INTERNED TO DECIME REGULATED COMPONENTS OF THE HAZARDOUS WASTE FACILITY.

| 2 | JBE | KEM | | NAME CHANGED TO SIEMENS II | NDUSTRY | 3-15-12 | | | | | | | | |
|---|---|------|------------------------|---------------------------------------|---------|---------|--|--|--|--|--|--|--|--|
| 1 | JBE | KEM | | UPDATED FOR PERMIT SUBMITT | `AL | 2-8-07 | | | | | | | | |
| NO | D₩N | CK,D | APP | REVISIONS | | DATE | | | | | | | | |
| CBE CHAVOND—BARRY ENGINEERING CORP. 400 Route 518 • P.D. Box 205 • Blawenburg, New Jersey 08504 | | | | | | | | | | | | | | |
| | SIEMENS INDUSTRY, INC.
2523 MUTAHAR STREET, PARKER, AZ 85344 | | | | | | | | | | | | | |
| | | | FACILI | TY PROCESS FLOW DIAGRA | | | | | | | | | | |
| | DRA | AWN | FACILI | · · · · · · · · · · · · · · · · · · · | | D | | | | | | | | |
| AJ | | | FACILI
DATE
7/96 | TY PROCESS FLOW DIAGRA CHECKED DATE | M | | | | | | | | | |





ATTACHMENT D - Item 13 - Photographs

SITE PHOTOGRAPHS SITE AERIAL PHOTOGRAPHS

AERIAL PHOTOGRAPHS OF THE FACILTY





PROCESS CODE S01 (Identified as Line Number 1)

Spent Carbon Warehouse



PROCESS CODE S02 (Identified as Line Number 2)

Spent Carbon Storage Feed Tanks (Tank No. T-1 and T-2)



PROCESS CODE S02 (Identified as Line Number 2)

Spent Carbon Storage Feed Tanks (Tank No. T-2, T-5 and T-6)



PROCESS CODE X03 (Identified as Line Number 3)

Carbon Reactivation Furnace RF-2



Appendix O

Appendix II of the Permit Application Reference 5

APPENDIX II

TOPOGRAPHIC MAP

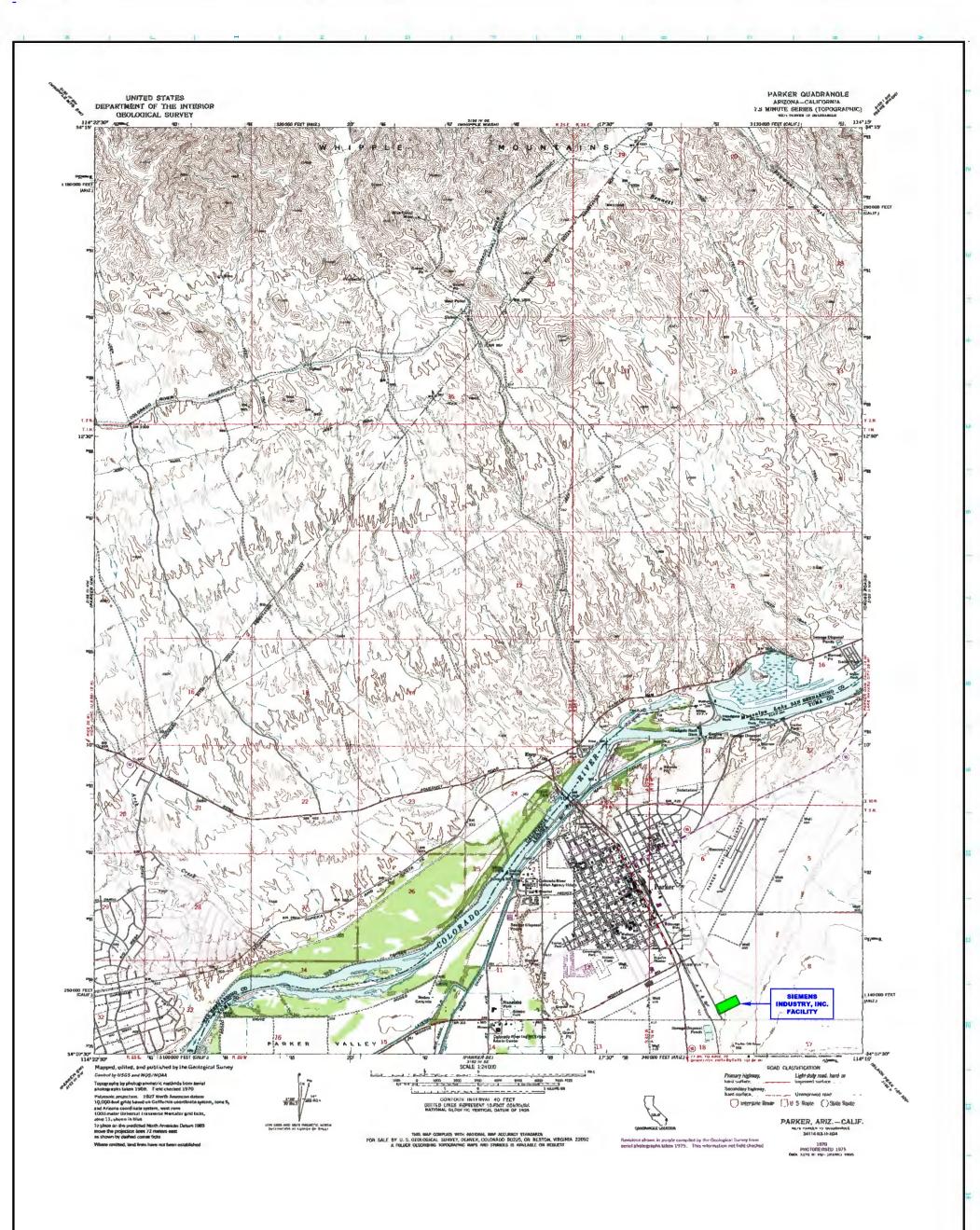
FLOOD INSURANCE MAP FOR THE COLORADO RIVER INDIAN RESERVATION

PERIPHERAL LAND USE STUDY DIAGRAM FOR THE COLORADO RIVER INDIAN TRIBE LANDS

WIND ROSE

LEGAL BOUNDARIES

Revision 1 April 2012

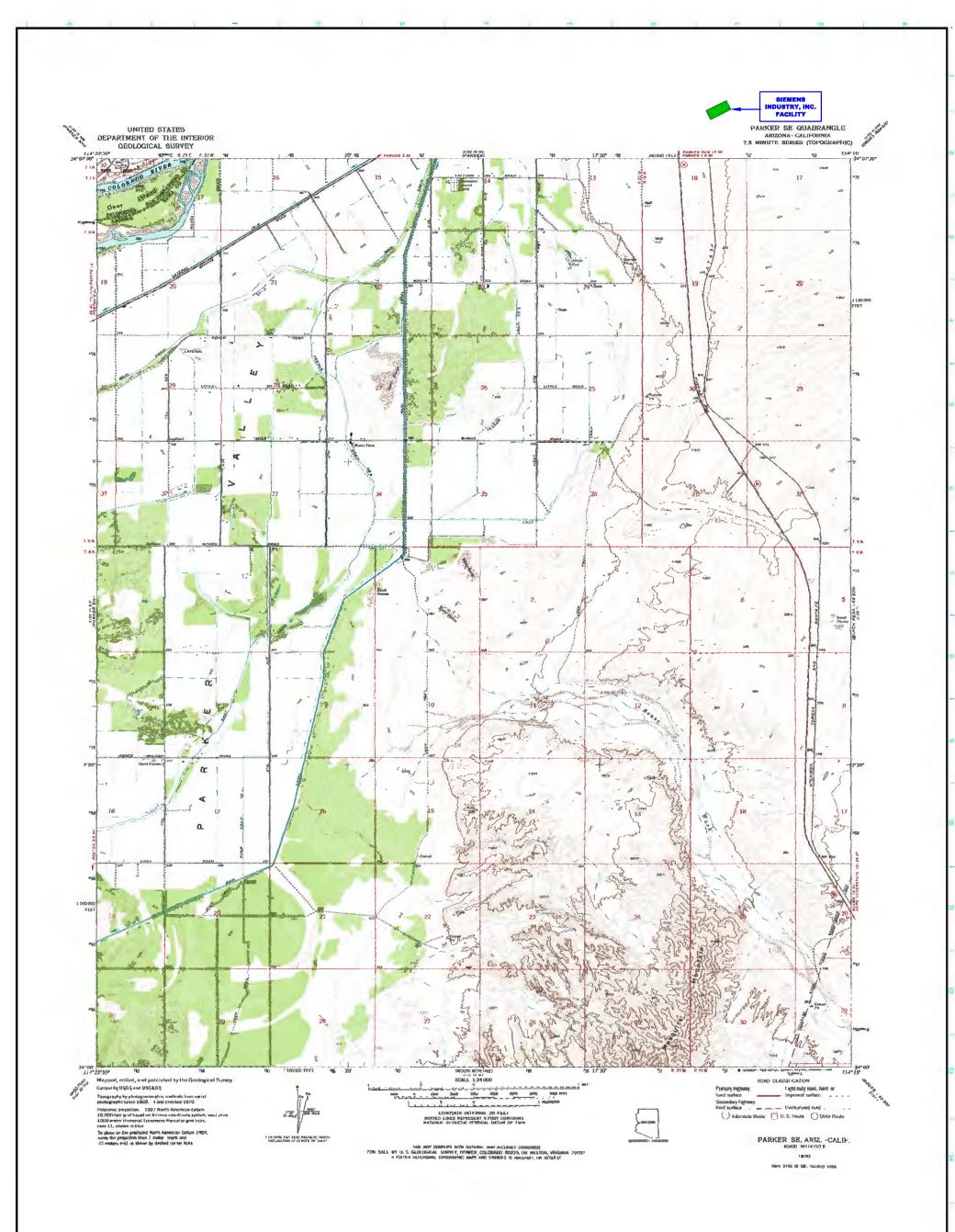


NOTES:

- SEE ATTACHED SIEMENS INDUSTRY, INC. DRAWING D-14789-02 FOR DETAILED LOCATION OF S01, S02, AND X03.
- 2. THERE ARE NO INJECTION WELLS ASSOCIATED WITH THIS FACILITY.
- 3. THERE ARE NO SPRINGS, DRINKING WATER WELLS, NOR SURFACE WATER BODIES LOCATED WITHIN 1/4 MILE OF THIS FACILITY.

| | | | | | | | | | | PRINT DATE: 4/19/LR |
|------|---------|--|-------|-------|-------|--|----------|---------------|----------------|--|
| REV. | DATE | REVISION DESCRIPTION | DRAWN | CHK,D | ENG'R | INDUSTRY, INC. | ENG'R: | | | DWG No. C-100604 SHEET No. 1 of 2 REV. 1 |
| 1 | 3/15/12 | NAME CHANGED TO SIEMENS INDUSTRY, INC. | JBE | KEM | | OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF SIEMENS | CHK'D: | KEM | 1/22/07 | DWG No. C. 100C04 SHEET No. 1 . 2 O REV. 1 |
| | | | | | | INTERMODUCED ON DELIVERED TO | DRAWN: | | 1/22/07 | TOPOGRAPHIC MAP |
| | | | | | | THIS DRAWING IS THE PROPERTY | PROJEC' | ī No. | | · · |
| | | | | | | DO NOT SCALE DRAWING | PARI | CER, A | Z 85344 | U.S.G.S. SURVEY - PARKER, AZ |
| | | | | | | PLOT SCALE: AS NOTED | | | AHAR ST. | TITLE: |
| | | | | | | | LOCATION | | | Parker, AZ |
| | | | | | | | IN | SIEM
DUSTR | ens
Y. Inc. | SIEMENS INDUSTRY, INC. |
| | | | | | | | 000.0 | | | |

CUSTOMER:

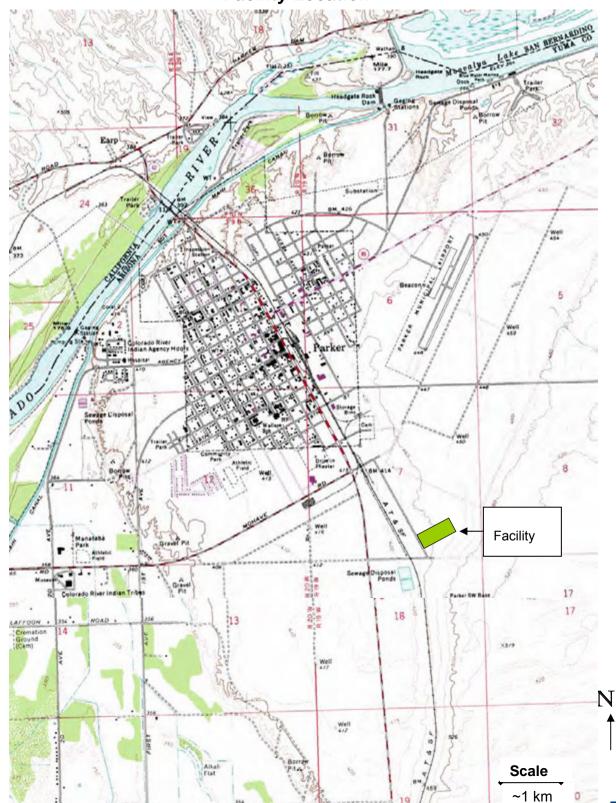


NOTES:

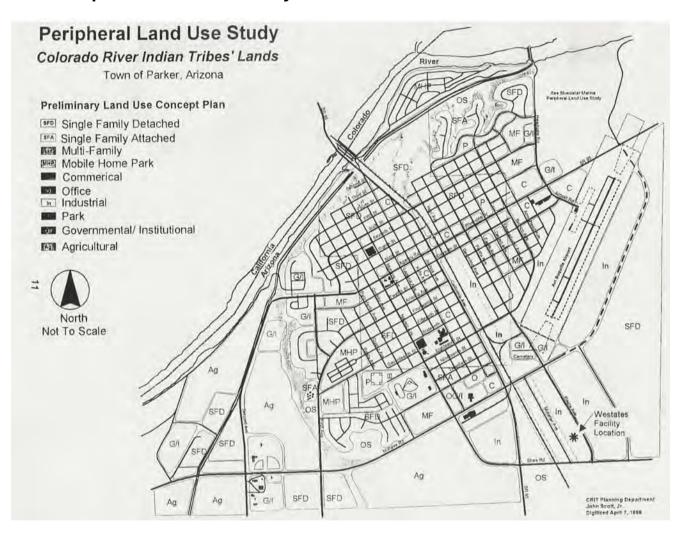
- 1. SEE ATTACHED SIEMENS WATER TECHNOLOGIES CORP. DRAWING D-14789-02 FOR DETAILED LOCATION OF S01, S02, AND X03.
- 2. THERE ARE NO INJECTION WELLS ASSOCIATED WITH THIS FACILITY.
- 3. THERE ARE NO SPRINGS, DRINKING WATER WELLS, NOR SURFACE WATER BODIES LOCATED WITHIN 1/4 MILE OF THIS FACILITY.

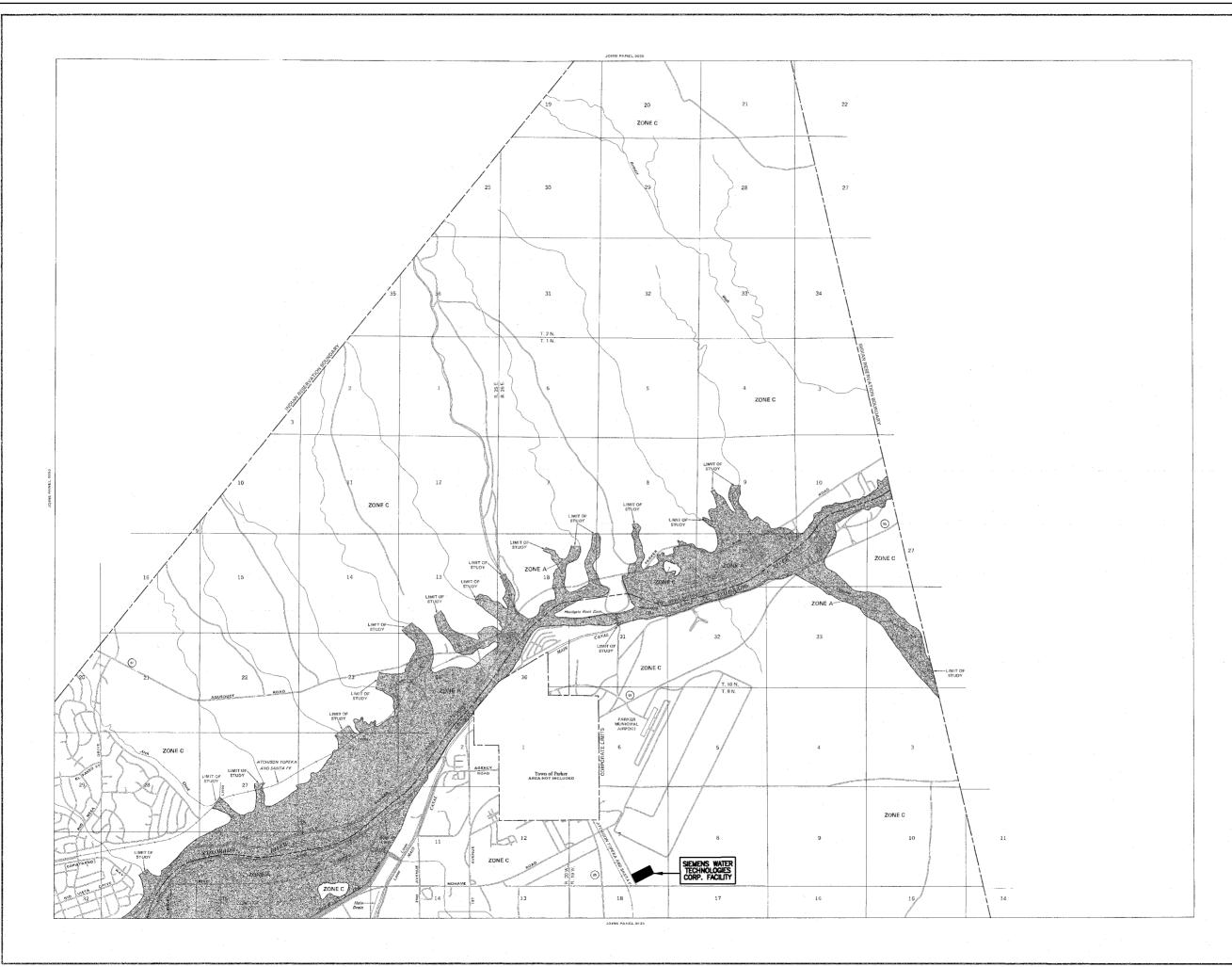
| | | | | | | | LOCATION | SIEM
DUSTR | Y, INC. | SIEMENS INDUSTRY, INC.
Parker, AZ |
|------|---------|--|-------|-------|-------|--|--------------------|---------------|---------|--|
| | | | | | | PLOT SCALE: AS NOTED DO NOT SCALE DRAWING | DEDG MITTIALIAD OF | | | TITLE: |
| | | | | | | THIS DRAWING IS THE PROPERTY | PROJEC | T No. | | U.S.G.S. SURVEY - PARKER SE, AZ |
| | | | | | | OF SIEMENS AND CANNOT BE
REPRODUCED OR DELIVERED TO | DRAWN: | JBE | 1/22/07 | TOPOGRAPHIC MAP |
| 1 | 3/15/12 | NAME CHANGED TO SIEMENS INDUSTRY, INC. | JBE | KEM | | | CHK'D: | KEM | 1/22/07 | |
| REV. | DATE | REVISION DESCRIPTION | DRAWN | CHK'D | ENG'R | INDUSTRY, INC. | ENG'R: | | | DWG No. C-100604 SHEET No. 2 of 2 REV. 1 |

Facility Location



Peripheral Land Use Study: Colorado River Indian Tribes Lands







RM7_× Zone & Boundary----

River Mile

EXPLANATION OF ZONE DESIGNATIONS

EXPLANATION

Areas of 180-year flood; base flood elevations and flood hazard factors not determined.

elevations are shown, but no flood hazard factors and elevatimities.

A1-A30

And of 100-year delevation flood elevations and considerations and the consideration of the conside

V1-V30 Areas of 100-year coastal flood with velocity (wave action); bare flood elevations and flood hazard factors determined

NOTES TO USER

INITIAL IDENTIFICATION: MAY4, 1987

FLOOD HAZARD BOUNDARY MAP REVISIONS:

FLOOD INSURANCE RATE MAP EFFECTIVE: MAY 4, 1987 FLOOD INSURANCE RATE MAP REVISIONS:



2000 0 2000

MATIONAL FLOOD INSURANCE PROGRAM

FIRM FLOOD INSURANCE RATE MAP

COLORADO RIVER INDIAN RESERVATION, ARIZONA

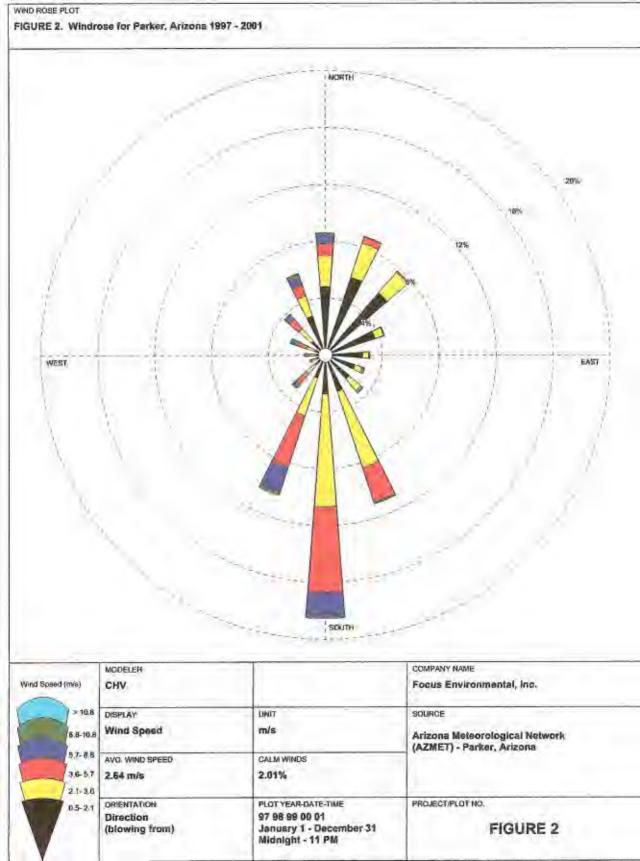
PANEL 75 OF 275

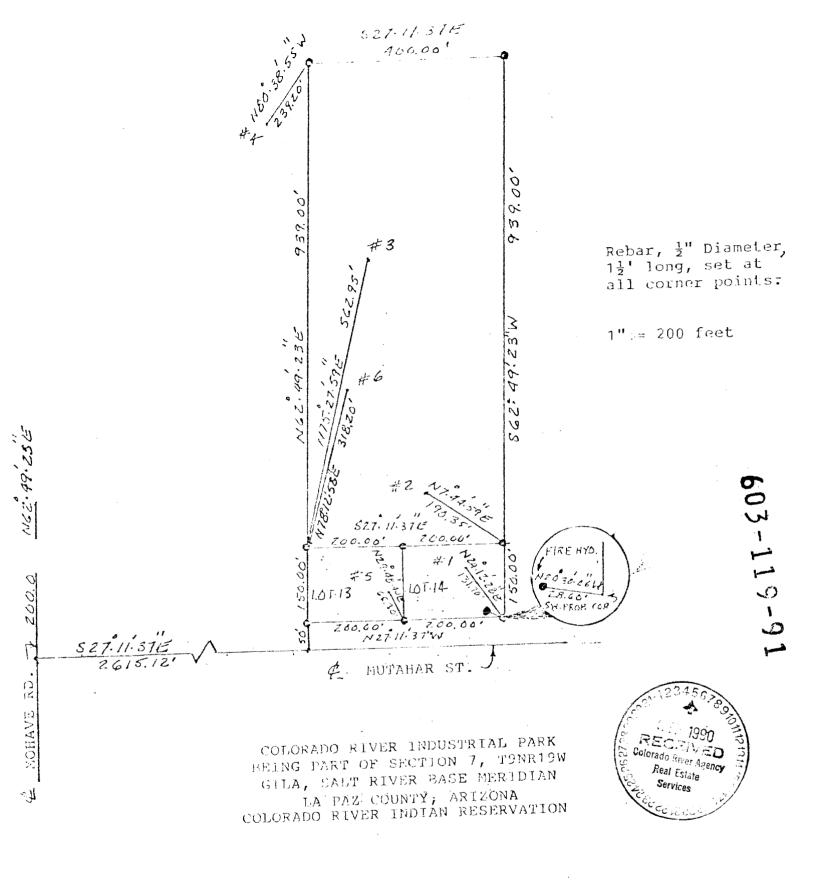
COMMUNITY-PANEL NUMBER

EFFECTIVE DATE: MAY 4, 1987

Federal Emergency Management Agency

211/





COLORADO RIVER INDUSTRIAL FARK BEING PART OF SECTION 7, TON, RIGW GILA, SALT RIVER PASE MERIDIAN COLORADO RIVER INDIAN RESERVATION

Starting from the intersection point of Mohave Road and Mutabar Street, existing survey monuments, Thence S27.11'.37"E; 2615.12 feet. Thence N62.49'.23"E, 50.00 feet to the Northwest corner Lot 13, and point of beginning. Thence N62.49'.23"E, 150.00 feet, to the Northeast corner Lot 13. Thence S27.11'.37"E, 200.00 feet to the Southeast corner Lot 13. Thence S27.11'.37"E, 200.00 feet to the Southeast corner Lot 14, Thence S62.49'.23"W, 150.00 feet to the Southwest corner Lot 14. Thence N27.11'.37"W, 200.00 feet, along road right away, to the Northwest corner Lot 14. Thence N27.11'.37"W, 200.00 feet, along right away, to point of beginning. The area contains a calculated area of 1.38 acres.

Thence from the Northeast corner Lot 13, R62.49'.23"E, 939.00 feet, to the Northeast corner, 8.62 acre lot. Thence S27.11'.37"E, 400 feet to the Southeast corner, 8.62 acre lot. Thence S62.49'.23"W, 939.00 feet to the Southeast corner, Lot 14. The area contains a calculated area of 8.62 acres.

Thence from the Northeast corner Lot 13, soil sample number 3, bears N75.27'.59"E, 562.95 feet. Soil sample number 6 hears N78.12'.58"E, 318.20 feet.

Thence from the Northeast corner, 8.62 acre lot, soil sample number 4, bears N80.38'.55"W, 239.20 feet.

Thence from the Southeast corner Lot 14, soil sample number 2, bears N7.44'.59"E, 190.35 feet.

Thence from the Southwest corner Lot 14, soil sample number 1, bears N24.12'.28"E, 131.70 feet. Fire hydrant bears N20.30'.06"W, 28.60 feet.

Thence from the Northwest corner Lot 14, soil sample number 5, bears N29.48'.40"E, 65.30 feet. -

FNGINEER'S CERTIFICATE: I certify that I have examined this plot of the Survey and found that it confirms with the data from which it was drawn and that I am satisfied the map is technically correct.

Augustan Fisher

Appendix P

Data from Monitoring WS-1, WS-2, and WS-3 Before Change-outs

| Poriodio Toot | | | | | J |
|--------------------------------------|------------------------|------------------------|---------------|------------|--------------------------|
| Periodic Test
Before
Changeout | Change Out | Last Change | Days | Day | Carbon Pounds Used |
| 22 ppm | 6/27/2011 | 6/24/2011 | 3 | Mon | 4000 |
| | 6/29/2011 | 6/27/2011 | 2 | Wed | 4000 |
| | 7/1/2011 | 6/29/2011 | 2 | Fri | 4000 |
| | 7/4/2011 | 7/1/2011 | 3 | Mon | 4000 |
| | 7/6/2011 | 7/4/2011 | 2 | Wed | 4000 |
| | 7/8/2011 | 7/6/2011 | 2 | Fri | 4000 |
| | 7/11/2011 | 7/8/2011 | 3 | Mon | 4000 |
| | 7/13/2011 | 7/11/2011 | 2 | wed | 4000 |
| | 7/15/2011 | 7/13/2011 | 2 | Fri | 4000 |
| | 7/18/2011
7/20/2011 | 7/15/2011
7/18/2011 | 3
2 | Mon | 4000
4000 |
| | 7/20/2011 | 7/10/2011 | 2 | wed
Fri | 4000 |
| 14 ppm | 7/25/2011 | 7/20/2011 | 3 | Mon | 4000 |
| 14 ррш | 7/27/2011 | 7/25/2011 | 2 | Wed | 4000 |
| | 7/29/2011 | 7/27/2011 | 2 | Fri | 4000 |
| | 8/1/2011 | 7/29/2011 | 3 | Mon | 4000 |
| | 8/3/2011 | 8/1/2011 | 2 | Wed | 4000 |
| | 8/5/2011 | 8/3/2011 | 2 | fri | 4000 |
| | 8/8/2011 | 8/5/2011 | 3 | mon | 4000 |
| 195 ppm | 8/10/2011 | 8/8/2011 | 2 | Wed | 4000 |
| | 8/12/2011 | 8/10/2011 | 2 | Fri | 4000 |
| | 8/15/2011 | 8/12/2011 | 3 | Mon | 4000 |
| | 8/17/2011 | 8/15/2011 | 2 | Wed | 4000 |
| | 8/19/2011 | 8/17/2011 | 2 | Fri | 4000 |
| | 8/22/2011 | 8/19/2011 | 3 | Mon | 4000 |
| | 8/24/2011 | 8/22/2011 | 2 | Wed | 4000 |
| | 8/26/2011 | 8/24/2011 | 2 | Fri | 4000 |
| | 8/29/2011 | 8/26/2011 | 3 | Mon | 4000 |
| | 8/31/2011 | 8/29/2011 | 2 | Wed | 4000 |
| | 9/2/2011 | 8/31/2011 | 2 | Fri | 4000 |
| | 9/5/2011 | 9/2/2011 | 3 | Mon | 4000 |
| | 9/7/2011 | 9/5/2011 | 2 | Wed | 4000 |
| | 9/9/2011 | 9/7/2011 | 2 | Fri | 4000 |
| | 9/12/2011 | 9/9/2011 | 3 | Mon | 4000 |
| | 9/14/2011 | 9/12/2011 | 2 | Wed | 4000 |
| | 9/16/2011 | 9/14/2011
9/16/2011 | 2
3 | Fri | 4000
4000 |
| 26 nnm | 9/19/2011
9/21/2011 | 9/19/2011 | 2 | Mon
Wed | 4000 |
| 26 ppm | 9/23/2011 | 9/21/2011 | 2 | Fri | 4000 |
| | 9/26/2011 | 9/23/2011 | 3 | Mon | 4000 |
| | 9/28/2011 | 9/26/2011 | 2 | Wed | 4000 |
| | 9/30/2011 | 9/28/2011 | 2 | Fri | 4000 |
| | 10/3/2011 | 9/30/2011 | 3 | Mon | 4000 |
| <u></u> | 10/5/2011 | 10/3/2011 | 2 | Wed | 4000 |
| 6 ppm | 10/7/2011 | 10/5/2011 | 2 | Fri | 4000 |
| | 10/10/2011 | 10/7/2011 | 3 | Mon | 4000 |
| | 10/11/2011 | 10/12/2011 | 1 | Tue | 2000 (Replaced Internal) |
| | 10/12/2011 | 10/10/2011 | 2 | Wed | 4000 |
| 14 ppm | 10/14/2011 | 10/12/2011 | 2 | Fri | 4000 |
| | 10/17/2011 | 10/14/2011 | 3 | Mon | 4000 |
| 24 ppm | 10/19/2011 | 10/17/2011 | 2 | Wed | 4000 |
| | 10/21/2011 | 10/19/2011 | 2 | Fri | 4000 |
| 35 ppm | 10/24/2011 | 10/21/2011 | 3 | Mon | 4000 |
| 23 ppm | 10/26/2011 | 10/24/2011 | 2 | Wed | 4000 |
| 201 ppm | 10/28/2011 | 10/26/2011 | 2 | Fri | 4000 |
| 45 ppm | 10/31/2011 | 10/28/2011 | 3 | Mon | 4000 |
| 45 ppm | 11/2/2011 | 10/31/2011 | <u>2</u>
2 | Wed | 4000 |
| 67 ppm | 11/4/2011
11/7/2011 | 11/2/2011
11/4/2011 | 3 | Fri
Mon | 4000
4000 |
| 27 nnm | 11/7/2011 | 11/4/2011 | 2 | Wed | 4000 |
| 27 ppm | 11/3/2011 | 11/1/2011 | | vveu | 4000 |

| Periodic Test | | | | | <i>J</i> / |
|---------------|------------------------|-------------------------|---------------|------------|---------------------|
| Before | Change Out | Last Change | Days | Day | Carbon Pounds Used |
| Changeout | Onlange Out | Last Onlange | Days | Day | Sarbon i Sunus Oscu |
| | 11/11/2011 | 11/9/2011 | 2 | Fri | 4000 |
| | 11/14/2011 | 11/11/2011 | 3 | Mon | 4000 |
| | 11/16/2011 | 11/14/2011 | 2 | Wed | 4000 |
| 34 ppm | 11/18/2011 | 11/16/2011 | 2 | Fri | 4000 |
| | 11/21/2011 | 11/18/2011 | 3 | Mon | 4000 |
| | 11/23/2011 | 11/21/2011 | 2 | Wed | 4000 |
| 16 ppm | 11/25/2011 | 11/23/2011 | 2 | Fri | 4000 |
| | 11/28/2011 | 11/25/2011 | 3 | Mon | 4000 |
| 22 ppm | 11/30/2011 | 11/28/2011 | 2 | Wed | 4000 |
| | 12/2/2011
12/5/2011 | 11/30/2011
12/2/2011 | 2
3 | Fri
Mon | 4000
4000 |
| | 12/7/2011 | 12/5/2011 | 2 | Wed | 4000 |
| 38 ppm | 12/9/2011 | 12/7/2011 | 2 | Fri | 4000 |
| oo ppiii | 12/12/2011 | 12/9/2011 | 3 | Mon | 4000 |
| | 12/14/2011 | 12/12/2011 | 2 | Wed | 4000 |
| | 12/16/2011 | 12/14/2011 | 2 | Fri | 4000 |
| | 12/19/2011 | 12/16/2011 | 3 | Mon | 4000 |
| | 12/21/2011 | 12/19/2011 | 2 | Wed | 4000 |
| | 12/23/2011 | 12/21/2011 | 2 | Fri | 4000 |
| | 12/26/2011 | 12/23/2011 | 3 | Mon | 4000 |
| 78 ppm | 12/28/2011 | 12/26/2011 | 2 | Wed | 4000 |
| | 12/30/2011 | 12/28/2011 | 2 | Fri | 4000 |
| | 1/2/2012 | 12/30/2011 | 3 | Mon | 4000 |
| 25 ppm | 1/4/2012 | 1/2/2012 | 2 | Wed | 4000 |
| | 1/6/2012
1/9/2012 | 1/4/2012
1/6/2012 | 2
3 | Fri
Mon | 4000
4000 |
| 52 ppm | 1/11/2012 | 1/9/2012 | 2 | Wed | 4000 |
| JZ ppiii | 1/13/2012 | 1/11/2012 | 2 | Fri | 4000 |
| 25 ppm | 1/16/2012 | 1/13/2012 | 3 | Mon | 4000 |
| | 1/18/2012 | 1/16/2012 | 2 | Wed | 4000 |
| | 1/20/2012 | 1/18/2012 | 2 | Fri | 4000 |
| 45 ppm | 1/23/2012 | 1/20/2012 | 3 | Mon | 4000 |
| | 1/25/2012 | 1/23/2012 | 2 | Wed | 4000 |
| | 1/27/2012 | 1/25/2012 | 2 | Fri | 4000 |
| | 1/30/2012 | 1/27/2012 | 3 | Mon | 4000 |
| | 2/1/2012 | 1/30/2012 | 2 | Wed | 4000 |
| | 2/3/2012 | 2/1/2012 | 2
3 | Fri | 4000 |
| | 2/6/2012
2/8/2012 | 2/3/2012
2/6/2012 | 2 | Mon
Wed | 4000
4000 |
| | 2/10/2012 | 2/8/2012 | 2 | Fri | 4000 |
| | 2/13/2012 | 2/10/2012 | 3 | Mon | 4000 |
| | 2/15/2012 | 2/13/2012 | 2 | Wed | 4000 |
| 13 ppm | 2/17/2012 | 2/15/2012 | 2 | Fri | 4000 |
| | 2/20/2012 | 2/17/2012 | 3 | Mon | NA |
| | 2/22/2012 | 2/20/2012 | 2 | Wed | NA |
| | 2/24/2012 | 2/22/2012 | 2 | Fri | NA NA |
| | 2/27/2012 | 2/24/2012 | 3 | Mon | NA |
| | 2/29/2012 | 2/27/2012 | 2 | Wed | 4000 |
| Fnnm | 3/2/2012 | 2/29/2012 | 2 | Fri
Mon | 4000 |
| 5 ppm | 3/5/2012
3/7/2012 | 3/2/2012
3/5/2012 | 3
2 | Wed | 4000
4000 |
| | 3/9/2012 | 3/7/2012 | 2 | Fri | 4000 |
| | 3/12/2012 | 3/9/2012 | 3 | Mon | 4000 |
| | 3/14/2012 | 3/12/2012 | 2 | Wed | 4000 |
| 20 ppm | 3/16/2012 | 3/14/2012 | 2 | Fri | 4000 |
| | 3/19/2012 | 3/16/2012 | 3 | Mon | 4000 |
| | 3/21/2012 | 3/19/2012 | 2 | Wed | 4000 |
| | 3/23/2012 | 3/21/2012 | 2 | Fri | 5000 |
| | 3/26/2012 | 3/23/2012 | 3 | Mon | 4000 |
| | 3/28/2012 | 3/26/2012 | 2 | Wed | 4000 |

| Periodic Test | | | | | <i>y</i> / |
|---------------------|------------------------|------------------------|---------------|------------|--------------------|
| Before
Changeout | Change Out | Last Change | Days | Day | Carbon Pounds Used |
| | 3/30/2012 | 3/28/2012 | 2 | Fri | 4000 |
| 11 ppm | 4/2/2012 | 3/30/2012 | 3 | Mon | 4000 |
| | 4/4/2012 | 4/2/2012 | 2 | Wed | 4000 |
| | 4/6/2012 | 4/4/2012 | 2 | Fri | 4000 |
| | 4/9/2012 | 4/6/2012 | 3 | Mon | 4000 |
| | 4/11/2012 | 4/9/2012 | 2 | Wed | 4000 |
| | 4/13/2012 | 4/11/2012 | 2 | Fri | 4000 |
| 40 | 4/16/2012 | 4/13/2012 | 3 | Mon | 4000 |
| 13 ppm | 4/18/2012
4/20/2012 | 4/16/2012
4/18/2012 | 2 | Wed
Fri | 4000
4000 |
| 9 ppm | 4/23/2012 | 4/20/2012 | 3 | Mon | 4000 |
| 63 ppm | 4/25/2012 | 4/23/2012 | 2 | Wed | 4000 |
| о ррш | 4/27/2012 | 4/25/2012 | 2 | Fri | 4000 |
| | 4/30/2012 | 4/27/2012 | 3 | Mon | 4000 |
| | 5/2/2012 | 4/30/2012 | 2 | Wed | 4000 |
| 25 ppm | 5/4/2012 | 5/2/2012 | 2 | Fri | 4000 |
| | 5/7/2012 | 5/4/2012 | 3 | Mon | 4000 |
| 16 ppm | 5/9/2012 | 5/7/2012 | 2 | Wed | 4000 |
| | 5/11/2012 | 5/9/2012 | 2 | Fri | 4000 |
| | 5/14/2012 | 5/11/2012 | 3 | Mon | 4000 |
| | 5/16/2012 | 5/14/2012 | 2 | Wed | 4000 |
| | 5/18/2012
5/21/2012 | 5/16/2012
5/18/2012 | 2
3 | Fri
Mon | 4000
4000 |
| | 5/23/2012 | 5/21/2012 | 2 | Wed | 4000 |
| | 5/25/2012 | 5/23/2012 | 2 | Fri | 4000 |
| | 5/28/2012 | 5/25/2012 | 3 | Mon | 4000 |
| | 5/30/2012 | 5/28/2012 | 2 | Wed | 4000 |
| 15 ppm | 6/1/2012 | 5/30/2012 | 2 | Fri | 4000 |
| | 6/4/2012 | 6/1/2012 | 3 | Mon | 4000 |
| 10 ppm | 6/6/2012 | 6/4/2012 | 2 | Wed | 4000 |
| | 6/8/2012 | 6/6/2012 | 2 | Fri | 4000 |
| | 6/11/2012 | 6/8/2012 | 3 | Mon | 4000 |
| | 6/13/2012 | 6/11/2012 | 2 | Wed | 4000 |
| | 6/15/2012
6/18/2012 | 6/13/2012
6/15/2012 | 2 | Fri
Mon | 4000
4000 |
| | 6/20/2012 | 6/18/2012 | 2 | Wed | 4000 |
| | 6/22/2012 | 6/20/2012 | 2 | Fri | 4000 |
| | 6/25/2012 | 6/22/2012 | 3 | Mon | 4000 |
| | 6/27/2012 | 6/25/2012 | 2 | Wed | 4000 |
| 2 ppm | 6/29/2012 | 6/27/2012 | 2 | Fri | 4000 |
| | 7/2/2012 | 6/29/2012 | 3 | Mon | 4000 |
| | 7/4/2012 | 7/2/2012 | 2 | Wed | 4000 |
| | 7/6/2012 | 7/4/2012 | 2 | Fri | 4000 |
| 14 ppm | 7/9/2012 | 7/6/2012 | 3 | Mon | 4000 |
| | 7/11/2012 | 7/9/2012 | 2 | Wed | 4000 |
| | 7/13/2012
7/16/2012 | 7/11/2012
7/13/2012 | 2
3 | Fri
Mon | 4000
4000 |
| | 7/16/2012 | 7/16/2012 | 2 | Wed | 4000 |
| | 7/20/2012 | 7/18/2012 | 2 | Fri | 4000 |
| | 7/23/2012 | 7/20/2012 | 3 | Mon | 4000 |
| | 7/25/2012 | 7/23/2012 | 2 | Wed | 4000 |
| | 7/27/2012 | 7/25/2012 | 2 | Fri | 4000 |
| | 7/30/2012 | 7/27/2012 | 3 | Mon | 4000 |
| 5 ppm | 8/1/2012 | 7/30/2012 | 2 | Wed | 4000 |
| | 8/3/2012 | 8/1/2012 | 2 | Fri | 4000 |
| | 8/6/2012 | 8/3/2012 | 3 | Mon | 4000 |
| | 8/8/2012 | 8/6/2012 | 2 | Wed | 4000 |
| | 8/10/2012
8/13/2012 | 8/8/2012
8/10/2012 | 2
3 | Fri
Mon | 4000
4000 |
| Ī | 8/15/2012 | 8/13/2012 | 2 | Wed | 4000 |
| I | 0/10/2012 | 0/10/2012 | L | vvcu | 7000 |

| Dominalia Tant | | | | | |
|--------------------------------------|--------------------------|--------------------------|---------------|------------|--------------------|
| Periodic Test
Before
Changeout | Change Out | Last Change | Days | Day | Carbon Pounds Used |
| | 8/17/2012 | 8/15/2012 | 2 | Fri | 4000 |
| 115 ppm | 8/20/2012 | 8/17/2012 | 3 | Mon | 4000 |
| | 8/22/2012 | 8/20/2012 | 2 | Wed | 4000 |
| | 8/24/2012 | 8/22/2012 | 2 | Fri | 4000 |
| | 8/27/2012 | 8/24/2012 | 3 | Mon | 4000 |
| | 8/29/2012 | 8/27/2012 | 2 | Wed | 4000 |
| | 8/31/2012 | 8/29/2012 | 2 | Fri | 4000 |
| | 9/3/2012 | 8/31/2012 | 3 | Mon | 4000 |
| | 9/5/2012 | 9/3/2012 | 2 | Wed | 4000 |
| | 9/7/2012 | 9/5/2012 | 2 | Fri | 4000 |
| 25 ppm | 9/10/2012 | 9/7/2012 | 3 | Mon | 4000 |
| | 9/12/2012 | 9/10/2012 | 2 | Wed | 4000 |
| | 9/14/2012 | 9/12/2012 | 2 | Fri | 4000 |
| | 9/17/2012 | 9/14/2012 | 3 | Mon | 4000 |
| 40 | 9/19/2012 | 9/17/2012 | 2 | Wed | 4000 |
| 10 ppm | 9/21/2012 | 9/19/2012 | 2
3 | Fri | 4000 |
| | 9/24/2012
9/26/2012 | 9/21/2012
9/24/2012 | 2 | Mon
Wed | 4000
4000 |
| | 9/28/2012 | 9/26/2012 | <u>2</u>
2 | Fri | 4000 |
| | 10/1/2012 | 9/28/2012 | 3 | Mon | 4000 |
| | 10/3/2012 | 10/1/2012 | 2 | Wed | 4000 |
| | 10/5/2012 | 10/3/2012 | 2 | Fri | 4000 |
| | 10/8/2012 | 10/5/2012 | 3 | Mon | 4000 |
| 12 ppm | 10/10/2012 | 10/8/2012 | 2 | Wed | 4000 |
| 12 pp | 10/12/2012 | 10/10/2012 | 2 | Fri | 4000 |
| | 10/15/2012 | 10/12/2012 | 3 | Mon | 4000 |
| | 10/17/2012 | 10/15/2012 | 2 | Wed | 4000 |
| | 10/19/2012 | 10/17/2012 | 2 | Fri | 4000 |
| | 10/22/2012 | 10/19/2012 | 3 | Mon | 4000 |
| | 10/24/2012 | 10/22/2012 | 2 | Wed | 4000 |
| | 10/26/2012 | 10/24/2012 | 2 | Fri | 4000 |
| | 10/29/2012 | 10/26/2012 | 3 | Mon | 4000 |
| | 10/31/2012 | 10/29/2012 | 2 | Wed | 4000 |
| | 11/2/2012 | 10/31/2012 | 2 | Fri | 4000 |
| 45 ppm | 11/5/2012 | 11/2/2012 | 3 | Mon | 4000 |
| | 11/7/2012 | 11/5/2012 | 2 | Wed | 4000 |
| | 11/9/2012 | 11/7/2012 | 2 | Fri | 4000 |
| | 11/12/2012 | 11/9/2012 | 3 | Mon | 4000 |
| | 11/14/2012 | 11/12/2012 | 2 | Wed | 4000 |
| | 11/16/2012 | 11/14/2012 | 2 | Fri | 4000 |
| | 11/19/2012 | 11/16/2012 | 3 | Mon | 4000 |
| | 11/21/2012 | 11/19/2012 | 2 | Wed | 4000 |
| | 11/23/2012 | 11/21/2012 | 3 | Fri | 4000 |
| 222 nnm | 11/26/2012
11/28/2012 | 11/23/2012
11/26/2012 | 2 | Mon
Wed | 4000
4000 |
| 223 ppm | 11/20/2012 | 11/28/2012 | 2 | Fri | 4000 |
| | 12/3/2012 | 11/30/2012 | 3 | Mon | 4000 |
| | 12/5/2012 | 12/3/2012 | 2 | Wed | 4000 |
| | 12/7/2012 | 12/5/2012 | 2 | Fri | 4000 |
| | 12/10/2012 | 12/7/2012 | 3 | Mon | 4000 |
| <2 ppm | 12/12/2012 | 12/10/2012 | 2 | Wed | 4000 |
| | 12/14/2012 | 12/12/2012 | 2 | Fri | 4000 |
| | 12/17/2012 | 12/14/2012 | 3 | Mon | 4000 |
| | 12/19/2012 | 12/17/2012 | 2 | Wed | 4000 |
| | 12/21/2012 | 12/19/2012 | 2 | Fri | 4000 |
| | 12/24/2012 | 12/21/2012 | 3 | Mon | 4000 |
| | 12/26/2012 | 12/24/2012 | 2 | Wed | 4000 |
| | 12/28/2012 | 12/26/2012 | 2 | Fri | 4000 |
| | 12/31/2012 | 12/28/2012 | 3 | Mon | 4000 |
| 19 ppm | 1/2/2013 | 12/31/2012 | 2 | Wed | 4000 |

| Doriodio Tool | | | | | J |
|--------------------------------------|------------------------|------------------------|---------------|------------|--------------------|
| Periodic Test
Before
Changeout | Change Out | Last Change | Days | Day | Carbon Pounds Used |
| | 1/4/2013 | 1/2/2013 | 2 | Fri | 4000 |
| | 1/7/2013 | 1/4/2013 | 3 | Mon | 4000 |
| | 1/9/2013 | 1/7/2013 | 2 | Wed | 4000 |
| | 1/11/2013 | 1/9/2013 | 2 | Fri | 4000 |
| | 1/14/2013 | 1/11/2013 | 3 | Mon | 4000 |
| | 1/16/2013 | 1/14/2013 | 2 | Wed | 4000 |
| | 1/18/2013 | 1/16/2013 | 2 | Fri | 4000 |
| | 1/21/2013 | 1/18/2013 | 3 | Mon | 4000 |
| | 1/23/2013 | 1/21/2013 | 2 | Wed | 4000 |
| | 1/25/2013 | 1/23/2013 | 2 | Fri | 4000 |
| | 1/28/2013 | 1/25/2013 | 3 | Mon | 4000 |
| | 1/30/2013
2/1/2013 | 1/28/2013
1/30/2013 | <u>2</u>
2 | Wed
Fri | 4000
4000 |
| 5 ppm | 2/4/2013 | 2/1/2013 | 3 | Mon | 4000 |
| | 2/6/2013 | 2/4/2013 | 2 | Wed | 4000 |
| | 2/8/2013 | 2/6/2013 | 2 | Fri | 4000 |
| | 2/11/2013 | 2/8/2013 | 3 | Mon | 4000 |
| | 2/13/2013 | 2/11/2013 | 2 | Wed | 4000 |
| | 2/15/2013 | 2/13/2013 | 2 | Fri | 4000 |
| | 2/18/2013 | 2/15/2013 | 3 | Mon | 4000 |
| | 2/20/2013 | 2/18/2013 | 2 | Wed | 4000 |
| | 2/22/2013 | 2/20/2013 | 2 | Fri | 4000 |
| | 2/25/2013 | 2/22/2013 | 3 | Mon | 4000 |
| | 2/27/2013 | 2/25/2013 | 2 | Wed | 4000 |
| 2 ppm | 3/1/2013 | 2/27/2013 | 2 | Fri | 4000 |
| | 3/4/2013 | 3/1/2013 | 3 | Mon | 4000 |
| | 3/6/2013 | 3/4/2013 | 2 | Wed | 4000 |
| | 3/8/2013 | 3/6/2013 | 2 | Fri | 4000 |
| | 3/11/2013 | 3/8/2013 | 3 | Mon | 4000 |
| | 3/13/2013 | 3/11/2013 | 2 | Wed | 4000 |
| | 3/15/2013 | 3/13/2013 | 2 | Fri | 4000 |
| | 3/18/2013 | 3/15/2013 | 3 | Mon | 4000 |
| | 3/20/2013 | 3/18/2013 | 2 | Wed | 4000 |
| | 3/22/2013 | 3/20/2013 | 2 | Fri | 4000 |
| | 3/25/2013 | 3/22/2013 | <u> </u> | Mon | 4000 |
| | 3/27/2013
3/29/2013 | 3/25/2013
3/27/2013 | 2 | Wed | 4000
4000 |
| | 4/1/2013 | 3/29/2013 | 3 | Fri
Mon | 4000 |
| | 4/3/2013 | 4/1/2013 | 2 | Wed | 4000 |
| | 4/5/2013 | 4/3/2013 | 2 | Fri | 4000 |
| | 4/8/2013 | 4/5/2013 | 3 | Mon | 4000 |
| | 4/10/2013 | 4/8/2013 | 2 | Wed | 4000 |
| | 4/12/2013 | 4/10/2013 | 2 | Fri | 4000 |
| | 4/15/2013 | 4/12/2013 | 3 | Mon | 4000 |
| | 4/17/2013 | 4/15/2013 | 2 | Wed | 4000 |
| | 4/19/2013 | 4/17/2013 | 2 | Fri | 4000 |
| 9 ppm | 4/22/2013 | 4/19/2013 | 3 | Mon | 4000 |
| | 4/24/2013 | 4/22/2013 | 2 | Wed | 4000 |
| · | 4/26/2013 | 4/24/2013 | 2 | Fri | 4000 |
| | 4/29/2013 | 4/26/2013 | 3 | Mon | 4000 |
| | 5/1/2013 | 4/29/2013 | 2 | Wed | 4000 |
| 05 | 5/3/2013 | 5/1/2013 | 2 | Fri | 4000 |
| 25 ppm | 5/6/2013 | 5/3/2013 | 3 | Mon | 4000 |
| | 5/8/2013
5/10/2013 | 5/6/2013
5/8/2013 | 2 | Wed | 4000
4000 |
| | 5/10/2013 | 5/8/2013 | 2
3 | Fri
Mon | 4000 |
| | 5/15/2013 | 5/13/2013 | 2 | Wed | 4000 |
| | 5/17/2013 | 5/15/2013 | 2 | Fri | 4000 |
| | 5/20/2013 | 5/17/2013 | 3 | Mon | 4000 |
| | 5/22/2013 | 5/20/2013 | 2 | Wed | 4000 |
| | | , | L | | |

4000 lbs

WS-1 (7.8 Days)

| Periodic Test | | | | | |
|---------------|--------------|-------------|------|-----|--------------------|
| Before | Change Out | Last Change | Days | Day | Carbon Pounds Used |
| Changeout | omanigo o an | | 24,0 | | |
| | 5/24/2013 | 5/22/2013 | 2 | Fri | 4000 |
| | 5/27/2013 | 5/24/2013 | 3 | Mon | 4000 |
| | 5/29/2013 | 5/27/2013 | 2 | Wed | 4000 |
| | 5/31/2013 | 5/29/2013 | 2 | Fri | 4000 |
| 12 ppm | 6/3/2013 | 5/31/2013 | 3 | Mon | 4000 |
| | 6/5/2013 | 6/3/2013 | 2 | Wed | 4000 |
| | 6/7/2013 | 6/5/2013 | 2 | Fri | 4000 |
| | 6/10/2013 | 6/7/2013 | 3 | Mon | 4000 |
| | 6/12/2013 | 6/10/2013 | 2 | Wed | 4000 |
| | 6/14/2013 | 6/12/2013 | 2 | Fri | 4000 |
| | 6/17/2013 | 6/14/2013 | 3 | Mon | 4000 |
| | 6/19/2013 | 6/17/2013 | 2 | Wed | 4000 |
| | 6/21/2013 | 6/19/2013 | 2 | Fri | 4000 |
| | 6/24/2013 | 6/21/2013 | 3 | Mon | 4000 |
| | 6/26/2013 | 6/24/2013 | 2 | Wed | 4000 |
| | 6/28/2013 | 6/26/2013 | 2 | Fri | 4000 |
| | 7/1/2013 | 6/28/2013 | 3 | Mon | 4000 |
| | 7/3/2013 | 7/1/2013 | 2 | Wed | |
| | 7/5/2013 | 7/3/2013 | 2 | Fri | |
| | 7/8/2013 | 7/5/2013 | 3 | Mon | |
| | 7/10/2013 | 7/8/2013 | 2 | Wed | |
| | 7/12/2013 | 7/10/2013 | 2 | Fri | |
| | 7/15/2013 | 7/12/2013 | 3 | Mon | |
| | 7/17/2013 | 7/15/2013 | 2 | Wed | |
| | 7/19/2013 | 7/17/2013 | 2 | Fri | |
| | 7/22/2013 | 7/19/2013 | 3 | Mon | |
| | 7/24/2013 | 7/22/2013 | 2 | Wed | |
| | 7/26/2013 | 7/24/2013 | 2 | Fri | |
| | 7/29/2013 | 7/26/2013 | 3 | Mon | |
| | 7/31/2013 | 7/29/2013 | 2 | Wed | |
| | 8/2/2013 | 7/31/2013 | 2 | Fri | |

5000 lbs

WS-2 (100 days)

| | | | | <u> </u> | |
|-----------------------------------|------------|-------------|------|--------------------|--|
| Periodic Test
Before Changeout | Change Out | Last Change | Days | Carbon Pounds Used | |
| <2 ppm | 7/1/2011 | 4/11/2011 | 81 | 5000 | |
| <2 ppm | 10/1/2011 | 7/1/2011 | 92 | 5000 | |
| <2 ppm | 12/6/2011 | 10/1/2011 | 66 | 5000 | |
| <2 ppm | 2/2/2012 | 12/6/2011 | 58 | 5000 | |
| <2 ppm | 5/3/2012 | 2/2/2012 | 91 | 5000 | |
| <2 ppm | 8/1/2012 | 5/3/2012 | 90 | 5000 | |
| <2 ppm | 9/18/2012 | 8/1/2012 | 48 | 5000 | |
| <2 ppm | 12/10/2012 | 9/18/2012 | 83 | 5000 | |
| <2 ppm | 3/7/2013 | 12/10/2012 | 87 | 5000 | |
| <2 ppm | 6/6/2013 | 3/7/2013 | 91 | 5000 | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

1000 lbs

WS-3 (38 days)

| Periodic Test
Before Changeout | | Last Change | Days | Carbon Pounds Used |
|-----------------------------------|-----------|-------------|------|--------------------|
| <2 ppm | 7/1/2011 | 6/1/2011 | 30 | 1000 |
| <2 ppm | 8/1/2011 | 7/1/2011 | 31 | 1000 |
| <2 ppm | 9/1/2011 | 8/1/2011 | 31 | 1000 |
| <2 ppm | 10/1/2011 | 9/1/2011 | 30 | 1000 |
| <2 ppm | 11/2/2011 | 10/1/2011 | 32 | 1000 |
| <2 ppm | 12/2/2011 | 11/2/2011 | 30 | 1000 |
| <2 ppm | 1/1/2012 | 12/2/2011 | 30 | 1000 |
| <2 ppm | 2/1/2012 | 1/1/2012 | 31 | 1000 |
| <2 ppm | 2/29/2012 | 2/1/2012 | 28 | 1000 |
| <2 ppm | 4/3/2012 | 2/29/2012 | 34 | 1000 |
| <2 ppm | 5/1/2012 | 4/3/2012 | 28 | 1000 |
| <2 ppm | 6/1/2012 | 5/1/2012 | 31 | 1000 |
| <2 ppm | 7/1/2012 | 6/1/2012 | 30 | 1000 |
| <2 ppm | 8/1/2012 | 7/1/2012 | 31 | 1000 |
| <2 ppm | 8/31/2012 | 8/1/2012 | 30 | 1000 |
| <2 ppm | 10/2/2012 | 8/31/2012 | 32 | 1000 |
| <2 ppm | 11/2/2012 | 10/2/2012 | 31 | 1000 |
| <2 ppm | 12/2/2012 | 11/2/2012 | 30 | 1000 |
| <2 ppm | 1/2/2013 | 12/2/2012 | 31 | 1000 |
| <2 ppm | 1/30/2013 | 1/2/2013 | 28 | 1000 |
| <2 ppm | 3/1/2013 | 1/30/2013 | 30 | 1000 |
| <2 ppm | 4/1/2013 | 3/1/2013 | 31 | 1000 |
| <2 ppm | 5/2/2013 | 4/1/2013 | 31 | 1000 |
| <2 ppm | 5/31/2013 | 5/2/2013 | 29 | 1000 |
| | 7/1/2013 | 5/31/2013 | 31 | 1000 |
| · | | 7/1/2013 | #### | |

Appendix Q

Sample of Stack Plume Hourly Visual Observations

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7/2/15

LP GAS LEVEL

OPERATING HOURS

STANDBY HOURS - NO SPENT CARBON

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7/3/15

LP GAS LEVEL
OPERATING HOURS
STANDBY HOURS - NO SPENT CARBON

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LP GAS LEVEL
OPERATING HOURS
STANDBY HOURS - NO SPENT CARBON

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LP GAS LEVEL

OPERATING HOURS

STANDBY HOURS - NO SPENT CARBON

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7/6/15

LP GAS LEVEL

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7/7/15

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7/8/15

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Appendix H Evoqua Facility Unit Maps (Figures J-1 through J-7)

