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DC
MAG 910140

October 21, 2005

United States Environmental Protection Agency
RCP-NOC Processing
Municipal Assistance Unit (CMU)
One Congress Street, Suite 1100
Boston, Massachusetts 02114-2023

Subject: Notice of Intent
Remediation General Permit
Former Exxon Service Station No. 3-5805
1425 Massachusetts Avenue
Boxborough, Massachusetts
Release Tracking Number 2-00026
NPDES Exclusion Reference #02-033

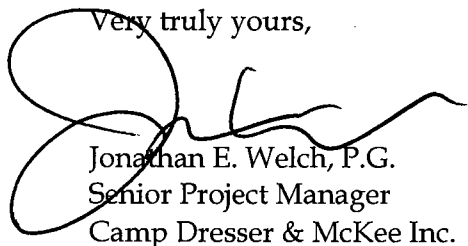
OCT 24

To Whom It May Concern:

On behalf of Exxon Mobil Corporation (ExxonMobil), Camp Dresser & McKee, Inc. is submitting this Notice of Intent for the Remediation General Permit for the Former Exxon Service Station No. 3-5805 located at 1425 Massachusetts Avenue in Boxborough, Massachusetts. ExxonMobil is currently operating a vacuum enhanced groundwater extraction remedial system located on the above property. This discharge is currently operating in accordance with 310 CMR 40.0000 and under National Pollution Discharge Elimination System Exclusion Reference #02-033.

If you have any further questions regarding this matter please contact the undersigned at (617) 452-6000.

Very truly yours,



Jonathan E. Welch, P.G.
Senior Project Manager
Camp Dresser & McKee Inc.



William R. Swanson, P.E., LSP
Vice President
Camp Dresser & McKee Inc.

cc: Ms. Diane Belliveau MADEP CERO - BWSC
Eric Errico, ExxonMobil
Marie Cannon, Boxborough Board of Health
File

Notice of Intent (NOI) for the Remediation General Permit No. MAG910000

1. General site information. Please provide the following information about the site:

a) Name of facility/site: Former Exxon Service Station No. 3-5805		Facility/site address:	
Location of facility/site: Longitude: -71°32'26.1" latitude: 42°29'10.4"		Facility SIC code(s): 5541	
b) Name of facility/site owner: VERC Enterprises, Inc.			
Email address of owner: lvercollone@vercenterprises.com		Town: Boxborough	
Telephone no. of facility/site owner: (781) 934-7300 x122		State: MA	Zip: 01719
Fax no. of facility/site owner: Not known		County: Middlesex	
Address of owner (if different from site):		Owner is (check one): 1. Federal _____ 2. State/Tribal _____	
Street: 5 Chestnut Street (P.O. Box 2809)		3. Private ☒ 4. other, if so, describe:	
Town: Duxbury		State: MA	Zip: 02331
County: Plymouth		Operator telephone no: (617) 381-2952	
Operator fax no.: (617) 381-2911		Operator email: eric.w.errico@exxonmobil.com	
Operator contact name and title: Eric Errico, Project Manager			
Address of operator (if different from owner):		Street: 52 Beacham Street	
Town: Everett	State: MA	Zip: 02149	County: Middlesex
d) Check "yes" or "no" for the following:			
1. Has a prior NPDES permit exclusion been granted for the discharge? Yes ☒ No _____, if "yes," number: 02-033			
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes _____ No ☒ , if "yes," date and tracking #:			
3. Is the discharge a "new discharge" as defined by 40 CFR 122.2? Yes _____ No ☒			
4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes ☒ No _____			
e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes ☒ No _____		f) Is the site/facility covered by any other EPA permit, including:	
If "yes," please list:		1. multi-sector storm water general permit? Y _____ N ☒ , if Y, number:	
1. site identification # assigned by the state of NH or MA: 2-00026		2. phase I or II construction storm water general permit? Y _____ N ☒ , if Y, number:	

2. permit or license # assigned: Tier 1B Permit No. 10984; MHD Permit # 3-2001-0008 3. state agency contact information: name, location, and telephone number: MADEP Bureau of Waste Site Cleanup, Central Regional Office, 627 Main Street, Worcester, MA, (508) 792-7650; Massachusetts Highway Department, 10 Park Plaza, Suite 3170, Boston, MA, (617) 973-7800	3. individual NPDES permit? Y <u> </u> N <u>X</u> , if Y, number: 4. any other water quality related permit? Y <u>X</u> N <u> </u> , if Y, number: Massachusetts Highway Department NPDES Phase II Stormwater General Permit
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2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage: Coverage is sought for discharge related to operation of a vacuum enhanced groundwater extraction (VEGE) remediation system, performed in compliance with the MCP. The VEGE system extracts groundwater which is routed through an oil/water separator, bag filters, an air stripper, vapor and liquid granular activated carbon, and ion exchange vessels before its discharge to a Massachusetts Highway catch basin.

b) Provide the following information about each discharge: 1) Number of discharge points: 1	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft ³ /s)? Max. flow <u>0.056</u> ft ³ /s Average flow <u>0.0028</u> ft ³ /s Is maximum flow a design value ? Y <u>X</u> N <u> </u> For average flow, include the units and appropriate notation if this value is a design value or estimate if not available.
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3) Latitude and longitude of each discharge within 100 feet: pt.1: long. -71°32'23.6" lat. 42°29'17.8"; pt.2: long. lat. ; pt.4: long. lat. ; pt.5: long. lat. ; pt.6: long. lat. ; pt.7: long. lat. ; pt.8: long. lat. ; etc.

4) If hydrostatic testing, total volume of the discharge (gals):	5) Is the discharge intermittent No <u> </u> or seasonal No <u> </u> ? Is discharge ongoing Yes <u>X</u> No <u> </u> ?
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c) Expected dates of discharge (mm/dd/yy): start 03/28/02 end 10/01/15

d) Please attach a line drawing or flow schematic showing water flow through the facility including:
 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).
 See attached Process & Instrumentation Diagram (4 sheets)

3. Contaminant information. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for **all** of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

Gasoline Only X	VOC Only	Primarily Metals	Urban Fill Sites	Contaminated Sumps	Mixed Contaminants	Aquifer Testing
Fuel Oils (and Other Oils) only	VOC with Other Contaminants	Petroleum with Other Contaminants	Listed Contaminated Sites	Contaminated Dredge Condensates	Hydrostatic Testing of Pipelines/Tanks	Well Development or Rehabilitation

b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min- imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method (ug/l)	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids		X	12	Grab	160.2	4000	45,000	6.13	14,583	0.099
2. Total Residual Chlorine	(1)									
3. Total Petroleum Hydrocarbons		X	12	Grab	418.1	600	1,400	0.19	396.7	0.003
4. Cyanide	(1)									
5. Benzene		X	12	Grab	624	0.50	28.7	0.004	6.52	0.00004
6. Toluene		X	12	Grab	624	1.0	111	0.015	31.8	0.0002
7. Ethylbenzene		X	12	Grab	624	1.0	362	0.049	57.4	0.0004
8. (m,p,o) Xylenes		X	12	Grab	624	1.0	621	0.085	191.5	0.001
9. Total BTEX ¹		X	12 sets	Grabs	624	3.5	1122.7	0.153	287.2	0.002

¹ BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method (ug/l)	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide ² (1,2-Dibromo-methane)	X (2)		1	Grab	504	0.012	0.006	0.0000008	0.006	0.00000004
11. Methyl-tert-Butyl Ether (MtBE)		X	12	Grab	624	1.0	17,400	2.371	4223.7	0.029
12. tert-Butyl Alcohol (TBA)		X	1	Grab	SW846 8260B	100	551	0.075	551	0.004
13. tert-Amyl Methyl Ether (TAME)		X	1	Grab	SW846 8260B	2.0	2.3	0.0003	2.3	0.000016
14. Naphthalene	X (2)		1	Grab	625	5.0	2.5	0.0003	2.5	0.000017
15. Carbon Tetra-chloride	(1)									
16. 1,4 Dichlorobenzene	(1)									
17. 1,2 Dichlorobenzene	(1)									
18. 1,3 Dichlorobenzene	(1)									
19. 1,1 Dichloroethane	(1)									
20. 1,2 Dichloroethane	(1)									
21. 1,1 Dichloroethylene	(1)									
22. cis-1,2 Dichloro-ethylene	(1)									
23. Dichloromethane (Methylene Chloride)	(1)									
24. Tetrachloroethylene	(1)									

² EDB is a groundwater contaminant at fuel spill and pesticide application sites in New England.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method (ug/l)	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	(1)									
26. 1,1,2 Trichloroethane	(1)									
27. Trichloroethylene	(1)									
28. Vinyl Chloride	(1)									
29. Acetone	(1)									
30. 1,4 Dioxane	(1)									
31. Total Phenols	(1)									
32. Pentachlorophenol	(1)									
33. Total Phthalates ³ (Phthalate esters)	(1)									
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	(1)									
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	(1)									
a. Benzo(a) Anthracene	(1)									
b. Benzo(a) Pyrene	(1)									
c. Benzo(b)Fluoranthene	(1)									
d. Benzo(k) Fluoranthene	(1)									
e. Chrysene	(1)									

³ The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method (ug/l)	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h)anthracene	(1)									
g. Indeno(1,2,3-cd)Pyrene	(1)									
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	(1)									
h. Acenaphthene	(1)									
i. Acenaphthylene	(1)									
j. Anthracene	(1)									
k. Benzo(ghi) Perylene	(1)									
l. Fluoranthene	(1)									
m. Fluorene	(1)									
n. Naphthalene-	(1)									
o. Phenanthrene	(1)									
p. Pyrene	(1)									
37. Total Polychlorinated Biphenyls (PCBs)	(1)									
38. Antimony	(1)									
39. Arsenic	(1)									
40. Cadmium	(1)									
41. Chromium III	(1)									
42. Chromium VI	(1)									

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method (ug/l)	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper	(1)									
44. Lead		X	13	Grab	SW846 6010B / 239.2	5.0 / 1.0	28.9	0.004	5.9	0.00004
45. Mercury	(1)									
46. Nickel	(1)									
47. Selenium	(1)									
48. Silver	(1)									
49. Zinc	(1)									
50. Iron		X	1	Grab	SW846 6010B	100	4180	0.57	4180	0.028
Other (describe):										

Footnotes: (1) Analysis for this parameter is not required for gasoline remediation sites in accordance with Part I.C. Table V of the RGP.

(2) Parameter not detected above the minimum level of test method. Half the minimum level is used in computing average daily values and compiling maximum daily values.

Notes: Data used (when more than one sample included) consists of data collected between 9/2004 and 10/2005. For undetected results among these data, half the minimum level is used in computing average daily values and compiling maximum daily values.

MLs listed represent the minimum detection limit of included results for a given analysis.

c) For discharges where metals are believed present, please fill out the following:

<i>Step 1:</i> Do any of the metals in the influent have a reasonable potential to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y X N	If yes, which metals? Lead, Iron
<i>Step 2:</i> For any metals which have reasonable potential to exceed the Appendix III limits, calculate the dilution factor (DF) using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals: <u>Lead, Iron</u> DF: <u>1.4</u>	Look up the limit calculated at the corresponding dilution factor in Appendix IV. Do any of the metals in the influent have the potential to exceed the corresponding effluent limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y X N If "Yes," list which metals: Lead, Iron

4. Treatment system information. Please describe the treatment system using separate sheets as necessary, including:

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:				
b) Identify each applicable treatment unit (check all that apply):	Frac. tank	Air stripper	Oil/water separator	Equalization tanks
	Chlorination	Dechlorination	Other (please describe): Ion exchange vessels	
c) Proposed average and maximum flow rates (gallons per minute) for the discharge and the design flow rate(s) (gallons per minute) of the treatment system: Average flow rate of discharge <u>1.25 gpm</u> Maximum flow rate of treatment system <u>25 gpm</u> Design flow rate of treatment system <u>25 gpm</u>				
d) A description of chemical additives being used or planned to be used (attach MSDS sheets):				

5. Receiving surface water(s). Please provide information about the receiving water(s), using separate sheets as necessary:

a) Identify the discharge pathway:	Direct	Within facility	Storm drain	River/brook	Wetlands	Other (describe):
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters: Upon entering the Massachusetts Highway catch basin, the treatment system discharge flows beneath Massachusetts Avenue to a storm drain. The water then flows beneath Adams Place to another storm drain. From there, the discharge flows toward a concrete headwall. Upon reaching the headwall, the water flows to an above-ground drainage swale which runs along Massachusetts Avenue until its discharge to a culvert which crosses beneath Massachusetts Avenue. Upon reaching the other side of Massachusetts Avenue, the discharge flows into a wetland area and eventually discharges into Beaver Brook.						
c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water: 1. For multiple discharges, number the discharges sequentially. 2. For indirect discharges, indicate the location of the discharge to the indirect conveyance and the discharge to surface water The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas. See attached Location Map.						
d) Provide the state water quality classification of the receiving water <u>Class B, Warm Water</u>						
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water <u>0.02 cfs</u> Please attach any calculation sheets used to support stream flow and dilution calculations.						
f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes <u>No</u> <u>X</u> If yes, for which pollutant(s)? Is there a TMDL? Yes <u>No</u> <u>X</u> If yes, for which pollutant(s)? See 7. Supplemental Information						

6. Results of Consultation with Federal Services: Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes No X
Has any consultation with the federal services been completed? Yes No X or is consultation underway? Yes No X See 7. Supplemental Information
What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (check one):
a “no jeopardy” opinion? or written concurrence on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?

b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge?
Yes No X Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes No X See 7.
Supplemental Information

7. Supplemental information. :

Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.

5. f) Uses have not been assessed for Beaver Brook immediately downstream of the facility. Beginning approximately 4 miles downstream, Beaver Brook is impaired by nutrients, pH, organic enrichment/low DO, pathogens, and suspended solids. There is a draft TMDL for pathogens. Source: *Proposed Massachusetts Year 2004 Integrated List of Waters*.

6. a) According to the website of the Massachusetts Natural Heritage and Endangered Species Program, no species protected by the federal Endangered Species Act occur in Boxborough or Harvard and no critical habitats are designated in those towns.

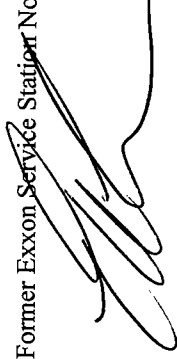
6. b) No sites on the National Register of Historic Places are located within one mile of the facility or discharge location.

8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

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, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility/Site Name: Former Exxon Service Station No. 3-5805, Boxborough, Massachusetts (NPDES Permit Exclusion Reference # 02-033)

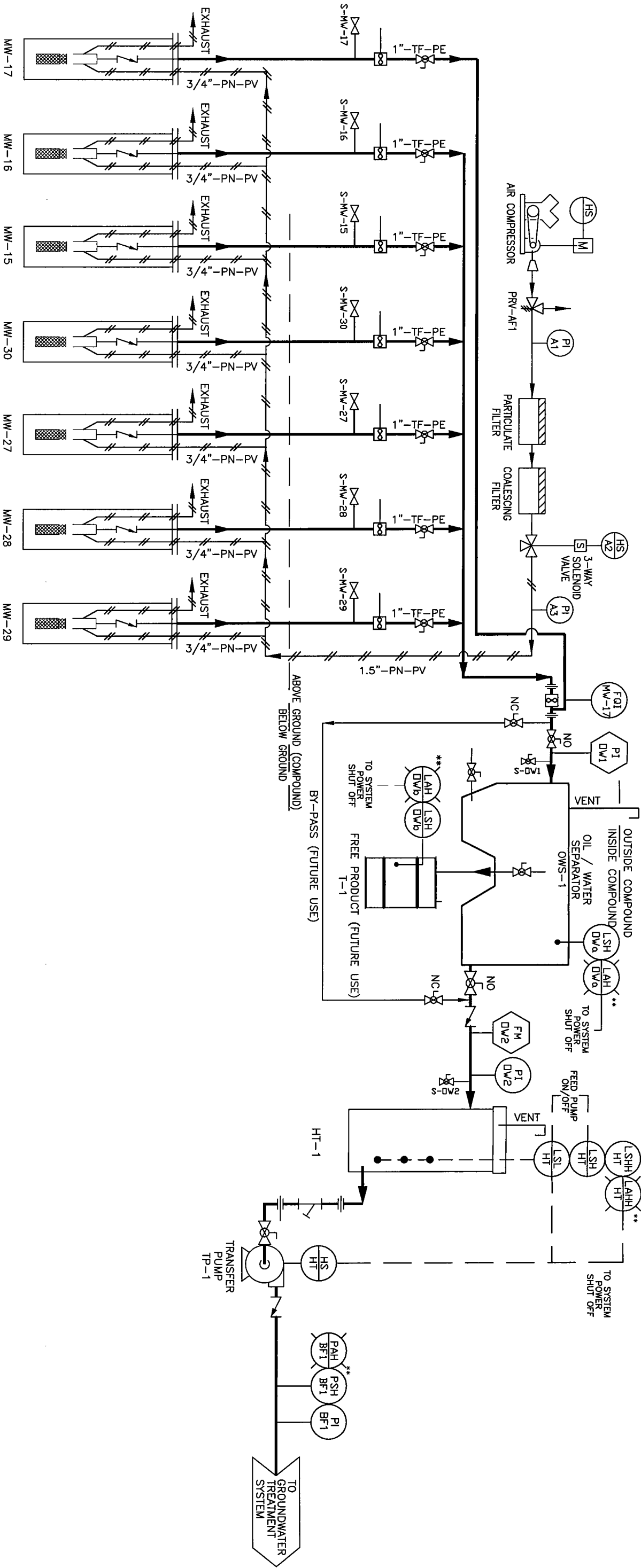
Operator signature:



Title: Project Manager

Date:

10-18-05



** CRITICAL DEVICE - SEE
CRITICAL DEVICE CHECKLIST
FOR DEVICE DESCRIPTION
AND INSPECTION PROCEDURE

NOTE:
FIGURE GENERATED BY
GROUNDWATER & ENVIRONMENTAL SERVICES INC.

NOT TO SCALE

CDM

FORMER EXXON SERVICE STATION #3-5805
1425 MASSACHUSETTS AVENUE (ROUTE 111)
BOXBOROUGH, MASSACHUSETTS

NOTICE OF INTENT FOR REMEDIATION GENERAL PERMIT
PROCESS & INSTRUMENTATION DIAGRAM
GROUNDWATER RECOVERY SYSTEM



NOT TO SCALE

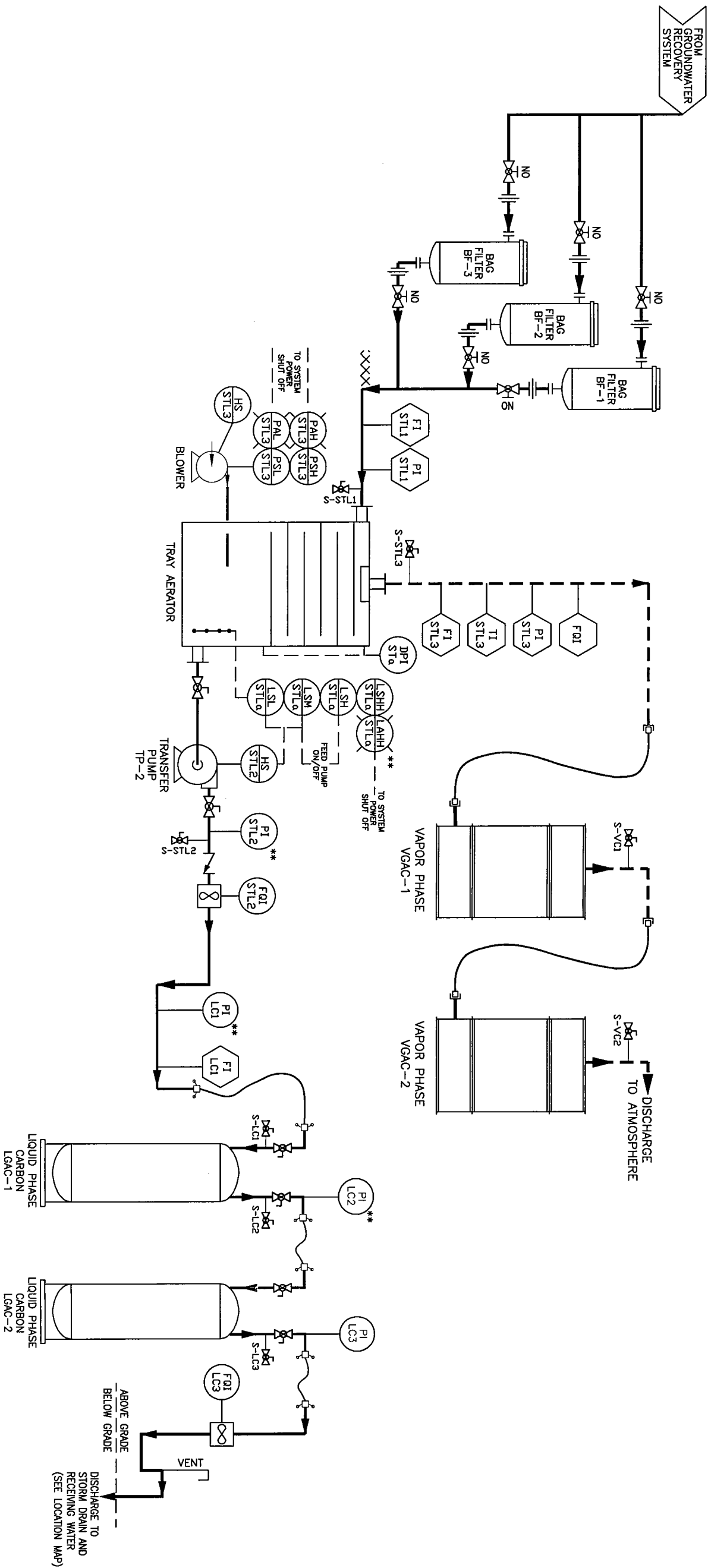
FORMER EXXON SERVICE STATION #3-5805
1425 MASSACHUSETTS AVENUE (ROUTE 111)
BOXBOROUGH, MASSACHUSETTS

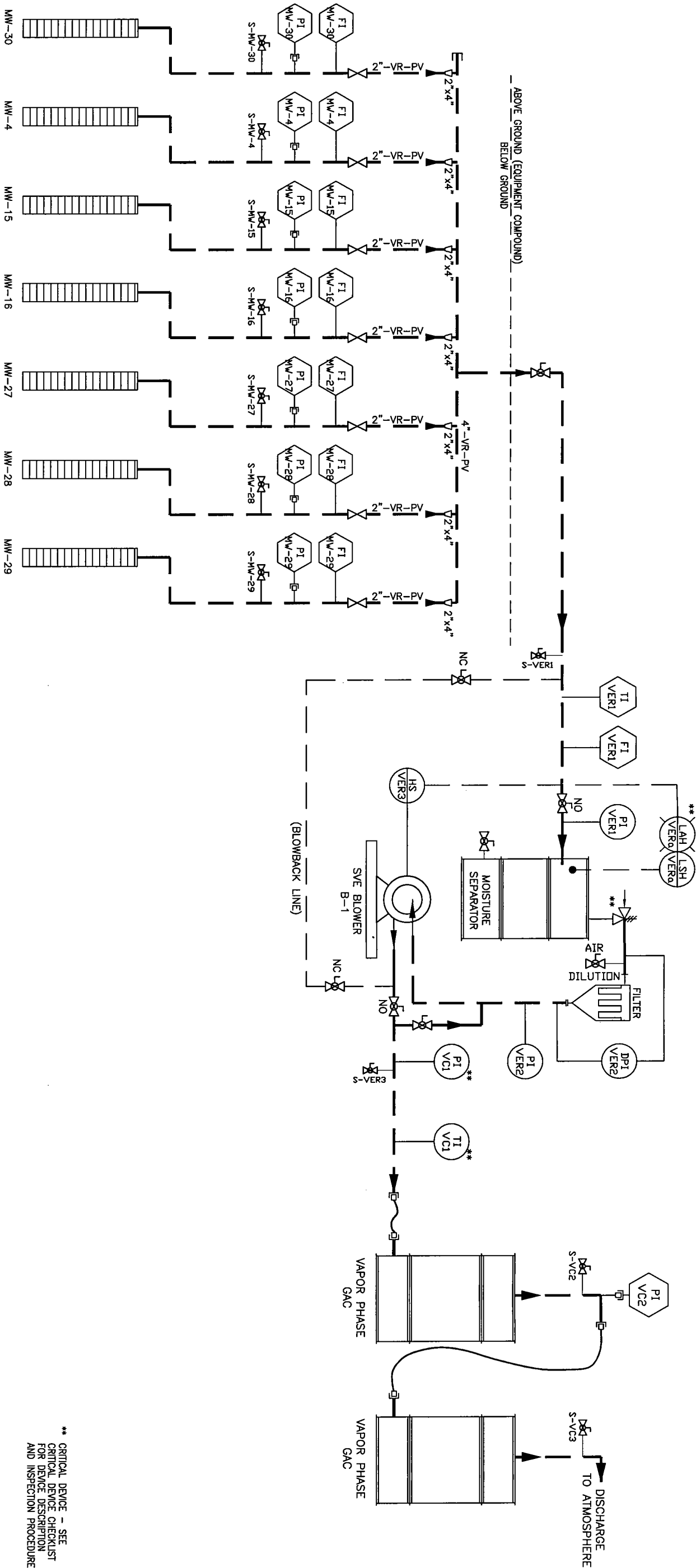
PROCESS & INSTRUMENTATION DIAGRAM
GROUNDWATER TREATMENT SYSTEM

DISCHARGE TO
STORM DRAIN AND
RECEIVING WATER
(SEE LOCATION MAP)

** CRITICAL DEVICE - SEE
CRITICAL DEVICE CHECKLIST
FOR DEVICE DESCRIPTION
AND INSPECTION PROCEDURE

NOTE:
FIGURE GENERATED BY
GROUNDWATER & ENVIRONMENTAL SERVICES INC.





** CRITICAL DEVICE - SEE
CRITICAL DEVICE CHECKLIST
FOR DEVICE DESCRIPTION
AND INSPECTION PROCEDURE

NOTE:
FIGURE GENERATED BY
GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

FORMER EXXON SERVICE STATION #3-5805
1425 MASSACHUSETTS AVENUE (ROUTE 111)
BOXBOROUGH, MASSACHUSETTS

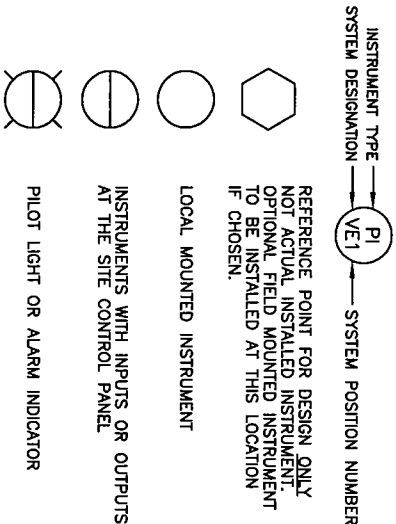
NOTICE OF INTENT FOR REMEDIATION GENERAL PERMIT
PROCESS & INSTRUMENTATION DIAGRAM
VAPOR RECOVERY & TREATMENT SYSTEM





SYMBOL SPECIFICATION

INSTRUMENTATION:



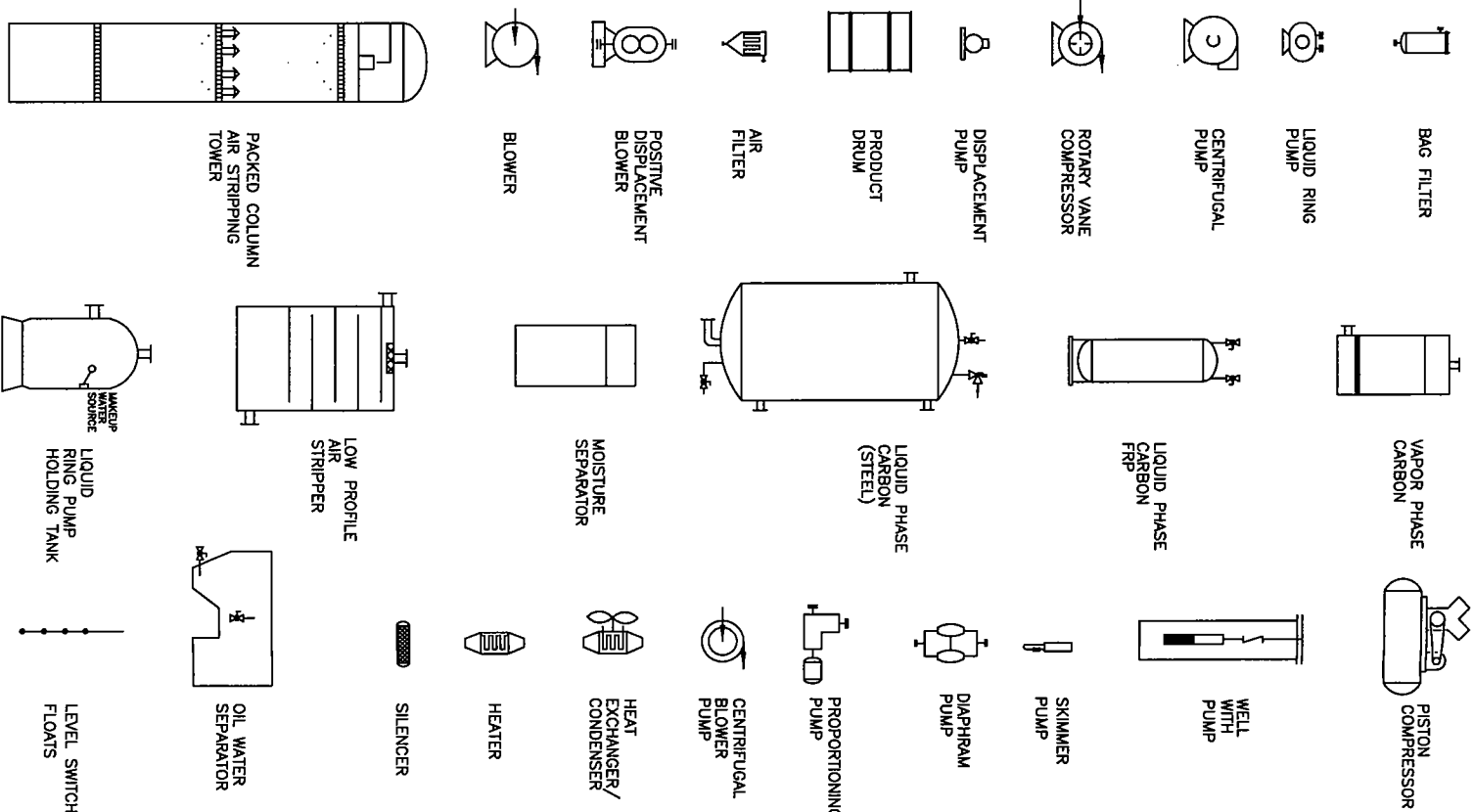
SYSTEM DESIGNATION:

- ASW AIR SPARGE WELL & MANIFOLD
- VSW VAPOR EXTRACTION WELL & MANIFOLD
- DPM DUAL PHASE WELL & MANIFOLD
- ERM ELECTRIC RECOVERY WELL & PUMP
- PRW PNEUMATIC RECOVERY WELL & PUMP
- VER VAPOR EXTRACTION REGENERATIVE BLOWER
- ASV AIR SPARGE ROTARY VANE COMPRESSOR
- ASB AIR SPARGE POSITIVE DISPLACEMENT BLOWER
- DPO DUAL PHASE SEALED LIQUID RING PUMP
- DPL DUAL PHASE LIQUID RING PUMP
- DBB OIL - WATER SEPARATOR SYSTEM
- OW OIL - WATER SEPARATOR SYSTEM
- STL AIR STRIPPER LOW PROFILE
- VC VAPOR PHASE CARBON
- LC LIQUID PHASE CARBON

INSTRUMENT TYPE/DESIGNATION:

- PI PRESSURE INDICATOR
- PS PRESSURE SWITCH
- PSH PRESSURE SWITCH HIGH
- PSL PRESSURE SWITCH LOW
- DPS DIFFERENTIAL PRESSURE SWITCH
- DPI DIFFERENTIAL PRESSURE INDICATOR
- PC PRESSURE CONTROL
- PAH PRESSURE ALARM HIGH
- PAL PRESSURE ALARM LOW
- FI FLOW INDICATOR
- FM FLOW METER
- FMI FLOW METER (TOTALIZING)
- FS FLOW SWITCH
- TI TEMPERATURE INDICATOR
- TSH TEMPERATURE SWITCH HIGH
- TSL TEMPERATURE SWITCH LOW
- TT TEMPERATURE TRANSDUCER
- TAH TEMPERATURE ALARM HIGH
- TAL TEMPERATURE ALARM LOW
- LSIL LEVEL SWITCH LOW LOW
- LSL LEVEL SWITCH LOW
- LSM LEVEL SWITCH MIDRANGE
- LSH LEVEL SWITCH HIGH
- LSHH LEVEL SWITCH HIGH HIGH
- LAL LEVEL ALARM LOW
- LALH LEVEL ALARM HIGH
- CS CAPACITIVE SENSOR
- S SAMPLE PORT
- KC CYCLE COUNTER/TIMER
- KP PUMP RUN TIMER

EQUIPMENT

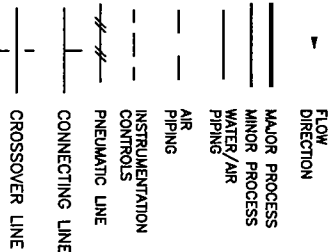


INSTRUMENTATION & CONTROLS

LINE DESIGNATION:

2 - VR - 01 - PV
SIZE IN PROCESS LINE MATERIAL
INCHES NUMBER SPECIFICATION

PROCESS LINE INDICATORS



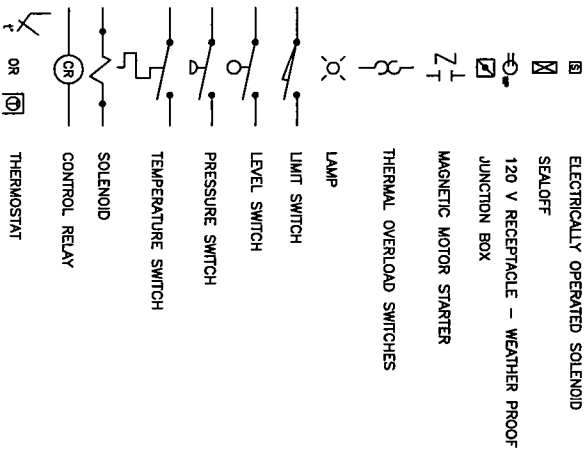
PROCESS LINE ABBREVIATIONS

- ES - ELECTRIC SUPPLY
- GS - GAS SUPPLY
- HS - HYDRAULIC SUPPLY
- NS - NITROGEN SUPPLY
- SS - STEAM SUPPLY
- W - WATER SUPPLY
- V - VACUUM
- VR - VAPOR REMOVAL
- TF - TOTAL FLUIDS
- AP - ACCESS PIPE / CONDUIT
- SA - SPARGE AIR
- PN - PNEUMATIC SUPPLY

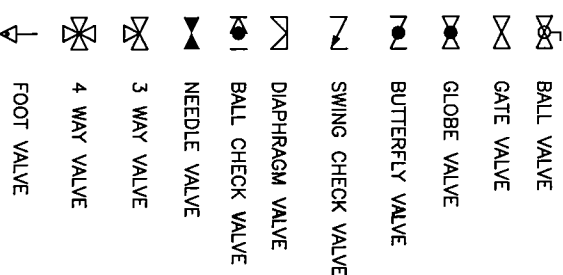
MATERIAL SPECIFICATION:

- PV - POLYVINYL CHLORIDE
- GM - GALVANIZED
- RC - RIGID COPPER
- IR - IRON
- ABS - ACRYLONITRILE BUTADIENE STYRENE
- FL - FLEX

ELECTRICAL SYMBOLS



CONTROL VALVE BODIES



VALVE ABBREVIATIONS

- N.C. - NORMALLY CLOSED
- N.O. - NORMALLY OPEN
- MAN - MANUAL

FORMER EXXON SERVICE STATION #3-5805
1425 MASSACHUSETTS AVENUE (ROUTE 111)
BOXBOROUGH, MASSACHUSETTS

NOTICE OF INTENT FOR REMEDIATION GENERAL PERMIT
PROCESS & INSTRUMENTATION DIAGRAM
LEGEND



02/02/05

Technical Report for

Exxon Service Station

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

PO#4504183520 WBS#08

Accutest Job Number: M42082

Sampling Date: 09/23/04

Report to:

Camp, Dresser & McKee

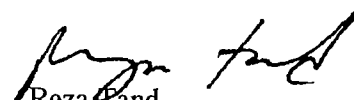
HimmelDB@cdm.com

ATTN: Dana Himmel

Total number of pages in report: 27



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Reza Fand
Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579)
NY (23346) NJ (MA926) NAVY USACE

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Sample Summary

Exxon Service Station

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4504183520 WBS#08

Job No: M42082

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
M42082-1	09/23/04	15:30 AP	09/24/04	AQ Effluent	EFF-GW-9-23-04
M42082-2	09/23/04	16:30 AP	09/24/04	AQ Influent	INF-GW-9-23-04
M42082-3	09/23/04	16:20 AP	09/24/04	AQ Ground Water	MW17-9-23-04

Report of Analysis

Page 1 of 1

Client Sample ID: INF-GW-9-23-04

Lab Sample ID: M42082-2

Date Sampled: 09/23/04

Matrix: AQ - Influent

Date Received: 09/24/04

Method: EPA 624

Percent Solids: n/a

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A48255.D	1	09/28/04	AMY	n/a	n/a	MSA1604
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	12.8	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	115%		80-127%
2037-26-5	Toluene-D8 (SUR)	101%		85-114%
460-00-4	4-Bromofluorobenzene (SUR)	90%		85-114%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	INF-GW-9-23-04	Date Sampled:	09/23/04
Lab Sample ID:	M42082-2	Date Received:	09/24/04
Matrix:	AQ - Influent	Percent Solids:	n/a
Project:	CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	09/27/04	09/27/04 LMN	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA5110

(2) Prep QC Batch: MP6103

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	INF-GW-9-23-04	Date Sampled:	09/23/04
Lab Sample ID:	M42082-2	Date Received:	09/24/04
Matrix:	AQ - Influent	Percent Solids:	n/a
Project:	CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Color, Apparent	50	5	CU	1	09/24/04 18:40	MA	EPA 110.2
Petroleum Hydrocarbons	< 0.61	0.61	mg/l	1	09/27/04	BF	EPA 418.1
Solids, Settleable	< 0.10	0.10	ml/l/hr	1	09/25/04 08:05	MA	EPA 160.5
Solids, Total Suspended	25.0	4.0	mg/l	1	09/28/04	BF	EPA 160.2
Turbidity	15.6	0.50	NTU	1	09/24/04 18:59	MA	EPA 180.1

RL = Reporting Limit



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle

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Internal Sample Tracking Chronicle

Exxon Service Station

Job No: M42082

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
 Project No: PO#4504183520 WBS#08

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M42082-1 Collected: 23-SEP-04 15:30 By: AP Received: 24-SEP-04 By: RS EFF GW-9 23-04						
M42082-1	EPA 110.2	24-SEP-04 18:40	MA			COL
M42082-1	EPA 180.1	24-SEP-04 18:59	MA			TURB
M42082-1	EPA 160.5	25-SEP-04 08:05	MA			SS
M42082-1	EPA 418.1	27-SEP-04	BF	27-SEP-04	BF	PHC
M42082-1	SW846 6010B	27-SEP-04 21:59	LMN	27-SEP-04	OP	PB
M42082-1	EPA 624	27-SEP-04 23:07	AMY			V624BTXM
M42082-1	EPA 160.2	28-SEP-04	BF			TSS
M42082-2 Collected: 23-SEP-04 16:30 By: AP Received: 24-SEP-04 By: RS INF GW-9 23-04						
M42082-2	EPA 110.2	24-SEP-04 18:40	MA			COL
M42082-2	EPA 180.1	24-SEP-04 18:59	MA			TURB
M42082-2	EPA 160.5	25-SEP-04 08:05	MA			SS
M42082-2	EPA 418.1	27-SEP-04	BF	27-SEP-04	BF	PHC
M42082-2	SW846 6010B	27-SEP-04 22:04	LMN	27-SEP-04	OP	PB
M42082-2	EPA 160.2	28-SEP-04	BF			TSS
M42082-2	EPA 624	28-SEP-04 02:59	AMY			V624BTXM
M42082-3 Collected: 23-SEP-04 16:20 By: AP Received: 24-SEP-04 By: RS MW17-9 23-04						
M42082-3	EPA 624	27-SEP-04 23:45	AMY			V624BTXM

Method Blank Summary

Page 1 of 1

Job Number: M42082

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSA1604-MB	A48237.D	1	09/27/04	AMY	n/a	n/a	MSA1604

The QC reported here applies to the following samples:

Method: EPA 624

M42082-1, M42082-2, M42082-3

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR) 112%	80-127%
2037-26-5	Toluene-D8 (SUR) 99%	85-114%
460-00-4	4-Bromofluorobenzene (SUR) 94%	85-114%

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: M42082
Account: EXXONSS Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSA1604-BS	A48234.D	1	09/27/04	AMY	n/a	n/a	MSA1604
MSA1604-BSD	A48235.D	1	09/27/04	AMY	n/a	n/a	MSA1604

The QC reported here applies to the following samples:

Method: EPA 624

M42082-1, M42082-2, M42082-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	24.7	124	22.4	112	10	37-151/30
100-41-4	Ethylbenzene	20	22.5	113	20.9	105	7	37-162/30
1634-04-4	Methyl Tert Butyl Ether	20	25.7	129	25.6	128	0	62-147/30
108-88-3	Toluene	20	23.0	115	21.7	109	6	47-150/30
1330-20-7	Xylenes (total)	60	64.6	108	63.8	106	1	73-139/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	115%	113%	80-127%
2037-26-5	Toluene-D8 (SUR)	97%	99%	85-114%
460-00-4	4-Bromofluorobenzene (SUR)	105%	107%	85-114%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: M42082

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M42088-1MS	A48243.D	5	09/27/04	AMY	n/a	n/a	MSA1604
M42088-1MSD	A48244.D	5	09/27/04	AMY	n/a	n/a	MSA1604
M42088-1	A48242.D	1	09/27/04	AMY	n/a	n/a	MSA1604

The QC reported here applies to the following samples:

Method: EPA 624

M42082-1, M42082-2, M42082-3

CAS No.	Compound	M42088-1 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	100	136	136	129	129	5	37-151/30
100-41-4	Ethylbenzene	ND	100	130	130	126	126	3	37-162/30
1634-04-4	Methyl Tert Butyl Ether	ND	100	128	128	122	122	5	48-150/39
108-88-3	Toluene	ND	100	130	130	129	129	1	47-150/30
1330-20-7	Xylenes (total)	ND	300	357	119	304	101	16	66-144/38

CAS No.	Surrogate Recoveries	MS	MSD	M42088-1	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	114%	99%	110%	80-127%
2037-26-5	Toluene-D8 (SUR)	101%	103%	97%	85-114%
460-00-4	4-Bromofluorobenzene (SUR)	107%	105%	99%	85-114%

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: M42082

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Method: EPA 624

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M42082-1	A48249.D	114.0	102.0	100.0
M42082-2	A48255.D	115.0	101.0	90.0
M42082-3	A48250.D	106.0	96.0	98.0
M42088-1MS	A48243.D	114.0	101.0	107.0
M42088-1MSD	A48244.D	99.0	103.0	105.0
MSA1604-BS	A48234.D	115.0	97.0	105.0
MSA1604-BSD	A48235.D	113.0	99.0	107.0
MSA1604-MB	A48237.D	112.0	99.0	94.0

Surrogate Compounds	Recovery Limits
------------------------	--------------------

S1 = 1,2-Dichloroethane-D4 (SUR) 80-127%

S2 = Toluene-D8 (SUR) 85-114%

S3 = 4-Bromofluorobenzene (SUR) 85-114%

Metals Analysis

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M42082
 Account: EXXONSS - Exxon Service Station
 Project: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6103
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 09/27/04 09/27/04

Metal	M42003-5A Original MS	Spikelot MPIRWS2	% Rec	QC Limits	M42003-5A Original DUP	RPD	QC Limits
Aluminum							
Antimony							
Arsenic	anr						
Barium	anr						
Beryllium							
Boron							
Cadmium	anr						
Calcium							
Chromium	anr						
Cobalt							
Copper							
Iron	anr						
Lead	0.0	991	1000	99.1	75-125	0.0	0.0
Magnesium						NC	0-20
Manganese	anr						
Molybdenum							
Nickel							
Potassium							
Selenium	anr						
Silver	anr						
Sodium							
Strontium							
Thallium							
Tin							
Titanium							
Vanadium							
Zinc							

Associated samples MP6103: M42082-1, M42082-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: M42082
 Account: EXXONSS - Exxon Service Station
 Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6103
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 09/27/04

Metal		M42003-5A Original SDL 1:5 RPD		QC Limits	
Aluminum					
Antimony					
Arsenic	anr				
Barium	anr				
Beryllium					
Boron					
Cadmium	anr				
Calcium					
Chromium	anr				
Cobalt					
Copper					
Iron	anr				
Lead	0.00	0.00	NC	0-10	
Magnesium					
Manganese	anr				
Molybdenum					
Nickel					
Potassium					
Selenium	anr				
Silver	anr				
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Vanadium					
Zinc					

Associated samples MP6103: M42082-1, M42082-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

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METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M42082
Account: EXXONSS - Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Color, Apparent	GN14876	5	<5	CU				
Petroleum Hydrocarbons	GP4854/GN14888	0.60	<0.60	mg/l	5	4.6	92.0	80-120%
Solids, Settleable	GN14878	0.10	<0.10	ml/l/hr				
Solids, Total Suspended	GN14899	4.0	<4.0	mg/l				
Turbidity	GN14875	0.50	<0.50	NTU				

Associated Samples:

Batch GN14875: M42082-1, M42082-2
Batch GN14876: M42082-1, M42082-2
Batch GN14878: M42082-1, M42082-2
Batch GN14899: M42082-1, M42082-2
Batch GP4854: M42082-1, M42082-2

6.1

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DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M42082

Account: EXXONSS - Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Color, Apparent	GN14876	M42082-1	CU	<5	<5	0.0	0-20%
Petroleum Hydrocarbons	GP4854/GN14888	M41964-1	mg/l	<0.61	<0.61	0.0	0-20%
Solids, Settleable	GN14878	M42082-2	ml/l/hr	<0.10	<0.10	0.0	0-20%
Solids, Total Suspended	GN14899	M42082-1	mg/l	<4.0	<4.0	0.0	0-20%
Turbidity	GN14875	M42082-1	NTU	<0.50	<0.50	0.0	0-20%

Associated Samples:

Batch GN14875: M42082-1, M42082-2

Batch GN14876: M42082-1, M42082-2

Batch GN14878: M42082-1, M42082-2

Batch GN14899: M42082-1, M42082-2

Batch GP4854: M42082-1, M42082-2

6.2

6

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M42082

Account: EXXONSS - Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Petroleum Hydrocarbons	GP4854/GN14888	M41963-2	mg/l	<0.61	5.1	4.7	92.2	75-125%

Associated Samples:

Batch GP4854: M42082-1, M42082-2

6.3
6



Technical Report for

Exxon Service Station

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

PO#4504183520 WBS#08

Accutest Job Number: M42587

Sampling Date: 10/20/04

Report to:

Camp Dresser & McKee
50 Hampshire Avenue
Cambridge, MA 02139

ATTN: Andrew Powers

Total number of pages in report: 25



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Fand
Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579)
NY (23346) NJ (MA926) NAVY USACE

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SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Exxon Service Station

Job No: M42587

Site: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Report Date 11/8/2004 4:26:38 PM

6 Samples were collected on 10/20/2004 and were received at Accutest on 10/20/2004 properly preserved, at 16.7 Deg. C and intact. These Samples received an Accutest job number of M42587. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method EPA 624

Matrix: AQ

Batch ID: MSA1631

- All samples were analyzed within the recommended method holding time.
- Sample(s) M42587-6MS, M42587-6MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Only BTX and MTBE requested.

Wet Chemistry By Method EPA 160.2

Matrix: AQ

Batch ID: GN15109

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M42589-11DUP were used as the QC samples for Solids, Total Suspended.

Wet Chemistry By Method EPA 418.1

Matrix: AQ

Batch ID: GP4957

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M42587-1DUP, M42587-2MS were used as the QC samples for Petroleum Hydrocarbons.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M42587).



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-CAM

Exhibit VII A-1

21 May 2004

Revision No. 3.2

Final

Page 10 of 32

Title: MADEP MCP Response Action Analytical Report Certification Form

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Accutest Laboratories of New England Project #: M42587

Project Location: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA MADEP RTN¹ None

This form provides certifications for the following data set:
M42587-1 through M42587-6

Test Method: EPA 624, 160.2, 418.1

Sample Matrices: Groundwater Soil/Sediment () Drinking Water () Other: (x) ()

MCP SW-846 Methods Used	8260B ()	8151A ()	8330 ()	6010B ()	7470A/1A ()
As specified in MADEP Compendium of Analytical Methods (Check all that apply)	8270C ()	8081A ()	VPH ()	6020 ()	9014M ² ()
	8082 ()	8021B ()	EPH ()	7000 S ³ ()	7196A ()

1 List Release Tracking Number (RTN), if known.

2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method.

3 S - SW-846 Methods 7000 Series. List individual method and analyte.

An affirmative response to questions A, B, C, and D is required for "Presumptive Certainty status"

- | | | | | |
|---|---|-------------------------------------|-----|--|
| A | Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set? | ☒ | Yes | ☐ No ¹ |
| B | Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? | ☒ | Yes | ☐ No ¹ |
| C | Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? | ☒ | Yes | ☐ No ¹ |
| D | VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3? | ☒ | Yes | ☐ No ¹ |

A response to questions E and F below is required for "Presumptive Certainty" status

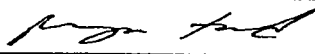
- | | | | | |
|---|--|-------------------------------------|-----|---|
| E | Were all QC performance standards and recommendations for the specified methods achieved? | ☒ | Yes | ☐ No ¹ |
| F | Were results for all analyte-list compounds/elements for the specified method(s) reported? | ☐ | Yes | ☒ No ¹ |

Refer to Narrative

Refer to Narrative

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: 

Position: Laboratory Director

Printed Name: Reza Tand

Date: 11/07/2004

Sample Summary

Exxon Service Station

Job No: M42587

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4504183520 WBS#08

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
M42587-1	10/20/04	10:30 RMB	10/20/04	AQ	Influent	GW INF
M42587-2	10/20/04	10:40 RMB	10/20/04	AQ	Effluent	GW EFF
M42587-3	10/20/04	10:50 RMB	10/20/04	AQ	Effluent1	GW GAC 1 EFF
M42587-4	10/20/04	11:00 RMB	10/20/04	AQ	Effluent2	GW GAC 2 EFF
M42587-5	10/20/04	11:10 RMB	10/20/04	AQ	Influent	GW AS INF
M42587-6	10/20/04	11:20 RMB	10/20/04	AQ	Effluent	GW AS EFF

Report of Analysis

Page 1 of 1

Client Sample ID:	GW INF						
Lab Sample ID:	M42587-1				Date Sampled:	10/20/04	
Matrix:	AQ - Influent				Date Received:	10/20/04	
Method:	EPA 624				Percent Solids:	n/a	
Project:	CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A48982.D	1	10/29/04	AMY	n/a	n/a	MSA1631
Run #2	A48992.D	100	10/30/04	AMY	n/a	n/a	MSA1631

Purge Volume	
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	1.6	0.50	ug/l	
108-88-3	Toluene	80.9	1.0	ug/l	
100-41-4	Ethylbenzene	35.5	1.0	ug/l	
1330-20-7	Xylenes (total)	300	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	17400 ^a	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	121%	127%	80-127%
2037-26-5	Toluene-D8 (SUR)	99%	99%	85-114%
460-00-4	4-Bromofluorobenzene (SUR)	108%	101%	85-114%

(a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	GW INF	Date Sampled:	10/20/04
Lab Sample ID:	M42587-1	Date Received:	10/20/04
Matrix:	AQ - Influent	Percent Solids:	n/a
Project:	CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	<0.60	0.60	mg/l	1	10/27/04	BF	EPA 418.1
Solids, Total Suspended	8.0	4.0	mg/l	1	10/25/04	BF	EPA 160.2

RL = Reporting Limit

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 1

Job Number: M42587

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSA1631-MB	A48969.D	1	10/29/04	AMY	n/a	n/a	MSA1631

The QC reported here applies to the following samples:

Method: EPA 624

M42587-1, M42587-2, M42587-3, M42587-4, M42587-5, M42587-6

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	121 % 80-127%
2037-26-5	Toluene-D8 (SUR)	93 % 85-114%
460-00-4	4-Bromofluorobenzene (SUR)	110 % 85-114%

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: M42587

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSA1631-BS	A48967.D	1	10/29/04	AMY	n/a	n/a	MSA1631
MSA1631-BSD	A48968.D	1	10/29/04	AMY	n/a	n/a	MSA1631

The QC reported here applies to the following samples:

Method: EPA 624

M42587-1, M42587-2, M42587-3, M42587-4, M42587-5, M42587-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	20.1	101	21.5	108	7	37-151/30
100-41-4	Ethylbenzene	20	19.1	96	19.7	99	3	37-162/30
1634-04-4	Methyl Tert Butyl Ether	20	27.8	139	24.7	124	12	62-147/30
108-88-3	Toluene	20	22.5	113	21.6	108	4	47-150/30
1330-20-7	Xylenes (total)	60	59.1	99	63.2	105	7	73-139/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	121%	119%	80-127%
2037-26-5	Toluene-D8 (SUR)	97%	94%	85-114%
460-00-4	4-Bromofluorobenzene (SUR)	101%	102%	85-114%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: M42587

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M42587-6MS	A48976.D	5	10/29/04	AMY	n/a	n/a	MSA1631
M42587-6MSD	A48977.D	5	10/29/04	AMY	n/a	n/a	MSA1631
M42587-6	A48975.D	1	10/29/04	AMY	n/a	n/a	MSA1631

The QC reported here applies to the following samples:

Method: EPA 624

M42587-1, M42587-2, M42587-3, M42587-4, M42587-5, M42587-6

CAS No.	Compound	M42587-6 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	100	107	107	94.1	94	13	37-151/30
100-41-4	Ethylbenzene	ND	100	94.7	95	95.8	96	1	37-162/30
1634-04-4	Methyl Tert Butyl Ether	2.9	100	121	118	113	110	7	48-150/39
108-88-3	Toluene	ND	100	107	107	101	101	6	47-150/30
1330-20-7	Xylenes (total)	ND	300	283	94	283	94	0	66-144/38

CAS No.	Surrogate Recoveries	MS	MSD	M42587-6	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	125%	122%	121%	80-127%
2037-26-5	Toluene-D8 (SUR)	99%	96%	98%	85-114%
460-00-4	4-Bromofluorobenzene (SUR)	105%	105%	104%	85-114%

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: M42587

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Method: EPA 624

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M42587-1	A48992.D	127.0	99.0	101.0
M42587-1	A48982.D	121.0	99.0	108.0
M42587-2	A48979.D	122.0	96.0	109.0
M42587-3	A48980.D	117.0	100.0	100.0
M42587-4	A48981.D	116.0	102.0	103.0
M42587-5	A48991.D	116.0	96.0	110.0
M42587-6	A48975.D	121.0	98.0	104.0
M42587-6MS	A48976.D	125.0	99.0	105.0
M42587-6MSD	A48977.D	122.0	96.0	105.0
MSA1631-BS	A48967.D	121.0	97.0	101.0
MSA1631-BSD	A48968.D	119.0	94.0	102.0
MSA1631-MB	A48969.D	121.0	93.0	110.0

Surrogate Compounds

Recovery Limits

S1 = 1,2-Dichloroethane-D4 (SUR)	80-127%
S2 = Toluene-D8 (SUR)	85-114%
S3 = 4-Bromofluorobenzene (SUR)	85-114%

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M42587

Account: EXXONSS - Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Petroleum Hydrocarbons	GP4957/GN15135	0.60	<0.60	mg/l	5	4.8	96.0	80-120%
Solids, Total Suspended	GN15109	4.0	<4.0	mg/l				

Associated Samples:

Batch GN15109: M42587-1, M42587-2

Batch GP4957: M42587-1, M42587-2

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M42587
Account: EXXONSS - Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Petroleum Hydrocarbons	GP4957/GN15135	M42587-1	mg/l	<0.60	<0.60	0.0	0-20%
Solids, Total Suspended	GN15109	M42589-11	mg/l	<4.0	<4.0	0.0	0-20%

Associated Samples:

Batch GN15109: M42587-1, M42587-2

Batch GP4957: M42587-1, M42587-2

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M42587
Account: EXXONSS - Exxon Service Station
Project: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Petroleum Hydrocarbons	GP4957/GN15135	M42587-2	mg/l	<0.60	5	4.8	96.0	75-125*

Associated Samples:
Batch GP4957: M42587-1, M42587-2

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Sample Tracking Chronicle

Internal Sample Tracking Chronicle

Exxon Service Station

Job No: M42587

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
 Project No: PO#4504183520 WBS#08

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M42587-1 Collected: 20-OCT-04 10:30 By: RMB Received: 20-OCT-04 By: SAP GW INF						
M42587-1	EPA 160.2	25-OCT-04	BF			TSS
M42587-1	EPA 418.1	27-OCT-04	BF	27-OCT-04	BF	PHC
M42587-1	EPA 624	29-OCT-04 22:38	AMY			V624BTXM
M42587-1	EPA 624	30-OCT-04 10:03	AMY			V624BTXM
M42587-2 Collected: 20-OCT-04 10:40 By: RMB Received: 20-OCT-04 By: SAP GW EFF						
M42587-2	EPA 160.2	25-OCT-04	BF			TSS
M42587-2	EPA 418.1	27-OCT-04	BF	27-OCT-04	BF	PHC
M42587-2	EPA 624	29-OCT-04 20:44	AMY			V624BTXM
M42587-3 Collected: 20-OCT-04 10:50 By: RMB Received: 20-OCT-04 By: SAP GW GAC 1 EFF						
M42587-3	EPA 624	29-OCT-04 21:22	AMY			V624BTXM
M42587-4 Collected: 20-OCT-04 11:00 By: RMB Received: 20-OCT-04 By: SAP GW GAC 2 EFF						
M42587-4	EPA 624	29-OCT-04 22:00	AMY			V624BTXM
M42587-5 Collected: 20-OCT-04 11:10 By: RMB Received: 20-OCT-04 By: SAP GW AS INF						
M42587-5	EPA 624	30-OCT-04 09:26	AMY			V624BTXM
M42587-6 Collected: 20-OCT-04 11:20 By: RMB Received: 20-OCT-04 By: SAP GW AS EFF						
M42587-6	EPA 624	29-OCT-04 18:12	AMY			V624BTXM

Betty Baer

From: Welch, Jonathan [WelchJE@cdm.com]
Sent: Thursday, October 21, 2004 3:41 PM
To: Betty Baer
Cc: Bouldin, Ryan
Subject: RE: Mobil Boxboro

Please run for BTEX and MTBE via Method 624

Thanks for you help

Jon

-----Original Message-----

From: Betty Baer [mailto:BettyB@Accutest.com]
Sent: Thursday, October 21, 2004 2:59 PM
To: Welch, Jonathan
Subject: Mobil Boxboro

Hi Jon, we received a Chain for this site on 10/20/04, requested analysis is VPH via 624. VPH is not done by 624, do you need VPH and 624 and if so do you need full list for the 624?

Betty

Betty Baer
Accutest Laboratories
495 Technology Center West, Building #1
Marlboro, MA 01752

Phone (508) 481- 6200
Fax (508) 481-7753

CLIENT INFORMATION			FACILITY INFORMATION			ANALYTICAL INFORMATION			MATRIX CODES		
NAME CDM ADDRESS 50 Hampshire St. CITY, STATE, ZIP Cambridge MA 02139 CONTACT Jon Welch PHONE # 617-452-6000			PROJECT NAME XOM Bxborough LOCATION 1425 Mass. Ave Bxborough, MA PROJECT NO. 3-5805 FAX # 			ANALYTICAL INFORMATION DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE LIQ - OTHER LIQUID SOL - OTHER SOLID			MATRIX CODES LAB USE ONLY		
DATA TURNOURD INFORMATION			DATA DELIVERABLE INFORMATION			COMMENTS/REMARKS					
☒ 14 DAYS STANDARD ☐ 7 DAYS RUSH ☐ 48 HOUR EMERGENCY ☐ OTHER 14 DAY TURNOURD HARD COPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED			☐ STANDARD ☐ COMMERCIAL "B" ☐ DISK DELIVERABLE ☐ STATE FORMS ☐ OTHER (SPECIFY)			MCP Presumptive Certainty Required SAMPLES RECEIVED DIRECTLY FROM FIELD SAMPLING					
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY			DATE TURNOURD INFORMATION			DATE DELIVERABLE INFORMATION					
RELINQUISHED BY: 1. Ryan M Boudelin DATE TIME: 10-20-04, 1245			RECEIVED BY: 2. Ryan M Boudelin DATE TIME: 10-20-04, 1245			RECEIVED BY: 2. Ryan M Boudelin DATE TIME: 10-20-04, 1245					
RELINQUISHED BY: 3. Ryan M Boudelin DATE TIME: 			RECEIVED BY: 4. Ryan M Boudelin DATE TIME: 			RECEIVED BY: 4. Ryan M Boudelin DATE TIME: 					
RELINQUISHED BY: 5. Ryan M Boudelin DATE TIME: 			RECEIVED BY: 5. Ryan M Boudelin DATE TIME: 			RECEIVED BY: 5. Ryan M Boudelin DATE TIME: 					



Technical Report for

Exxon Service Station

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

PO#4504183520 WBS#08

Accutest Job Number: M42711

Sampling Date: 10/26/04

Report to:

Camp Dresser & McKee
50 Hampshire Avenue
Cambridge, MA 02139

ATTN: Andrew Powers

Total number of pages in report: 19



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Fand
Reza Fand
Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579)
NY (23346) NJ (MA926) NAVY USACE

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Exxon Service Station

Job No: M42711

Site: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Report Date 11/11/2004 1:22:39 P

2 Samples were collected on 10/26/2004 and were received at Accutest on 10/26/2004 properly preserved, at 3.3 Deg. C and intact. These Samples received an Accutest job number of M42711. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP6295

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M42711-IDUP, M42711-IMS, M42711-ISDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Lead are outside control limits for sample MP6295-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry By Method EPA 110.2

Matrix: AQ

Batch ID: GN15127

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M42710-IDUP were used as the QC samples for Color, Apparent.
- M42711-1 for Color, Apparent: pH at the time of analysis 6.54 pH unit
- M42711-2 for Color, Apparent: pH at the time of analysis 6.84 pH unit

Wet Chemistry By Method EPA 180.1

Matrix: AQ

Batch ID: GN15128

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M42710-IDUP were used as the QC samples for Turbidity.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M42711).



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-CAM

Exhibit VII A-1

21 May 2004

Revision No. 3.2

Final

Page 10 of 32

Title: MADEP MCP Response Action Analytical Report Certification Form

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Accutest Laboratories of New England

Project #: M42711

Project Location: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

MADEP RTN None

This form provides certifications for the following data set:
M42711-1, M42711-2

Test Method: EPA 110.2, 180.1, and below

Sample Matrices: Groundwater Soil/Sediment () Drinking Water () Other: (x) ()

MCP SW-846	8260B ()	8151A ()	8330 ()	6010B (x)	7470A/1A ()
Methods Used	8270C ()	8081A ()	VPH ()	6020 ()	9014M ² ()
As specified in MADEP Compendium of Analytical Methods (Check all that apply)	8082 ()	8021B ()	EPH ()	7000 S ³ ()	7196A ()

1 List Release Tracking Number (RTN) if known

2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method

3 S - SW-846 Methods 7000 Series List individual method and analyte

An affirmative response to questions A, B, C, and D is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	☒	Yes	☐ No ¹
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	☒	Yes	☐ No ¹
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☒	Yes	☐ No ¹
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	☒	Yes	☐ No ¹

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	☒	Yes	☐ No ¹
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☒	Yes	☐ No ¹

Refer to Narrative

Refer to Narrative

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:

Position: Laboratory Director

Printed Name: Reza Tand

Date: 11/11/2004

Sample Summary

Exxon Service Station

Job No: M42711

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4504183520 WBS#08

Sample Number	Collected		Matrix		Client Sample ID
	Date	Time By	Received	Code Type	
M42711-1	10/26/04	00:00 RMB	10/26/04	AQ Influent	INF
M42711-2	10/26/04	00:00 RMB	10/26/04	AQ Effluent	EFF

Report of Analysis

Page 1 of 1

Client Sample ID: INF	Date Sampled: 10/26/04
Lab Sample ID: M42711-1	Date Received: 10/26/04
Matrix: AQ - Influent	Percent Solids: n/a
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	<5.0	5.0	ug/l	1	11/05/04	11/09/04 LMN	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA5253

(2) Prep QC Batch: MP6295

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: INF	Date Sampled: 10/26/04
Lab Sample ID: M42711-1	Date Received: 10/26/04
Matrix: AQ - Influent	Percent Solids: n/a
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Color, Apparent ^a	30	5	CU	1	10/26/04 18:03	MA	EPA 110.2
Turbidity	4.2	0.50	NTU	1	10/26/04 17:50	MA	EPA 180.1

(a) pH at the time of analysis 6.54 pH unit

RL = Reporting Limit

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M42711
Account: EXXONSS - Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6295
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 11/05/04

Metal	RL	IDL	MB raw	final
Aluminum	200	8.1		
Antimony	6.0	1.7		
Arsenic	5.0	2.2		
Barium	200	.64		
Beryllium	4.0	.12		
Boron	100	.88		
Cadmium	4.0	.3		
Calcium	5000	2.3		
Chromium	10	.26		
Cobalt	50	.81		
Copper	25	.47		
Iron	100	9.7		
Lead	5.0	1.5	-0.62	<5.0
Magnesium	5000	4.8		
Manganese	15	.15		
Molybdenum	100	.63		
Nickel	40	.61		
Potassium	5000	31		
Selenium	10	1.2		
Silver	5.0	.31		
Sodium	5000	150		
Strontium	10	.25		
Thallium	10	3		
Tin	100	4		
Titanium	50	.57		
Vanadium	50	1.4		
Zinc	20	.75		

Associated samples MP6295: M42711-1, M42711-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M42711
 Account: EXXONSS - Exxon Service Station
 Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6295
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date:

11/05/04

11/05/04

Metal	M42711-1 Original MS		SpikeLot MPIRWS2 % Rec		QC Limits	M42711-1 Original DUP		RPD	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	3.3	1050	1000	104.7	75-125	3.3	2.8	16.4	0-20
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP6295: M42711-1, M42711-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M42711

Account: EXXONSS - Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6295
Matrix Type: AQUEOUSMethods: SW846 6010B
Units: ug/l

Prep Date: 11/05/04

11/05/04

Metal	BSP Result	Spikelot MPIRWS2	% Rec	QC Limits	BSD Result	Spikelot MPIRWS2	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	1060	1000	106.0	80-120	1010	1000	101.0	4.8	
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP6295: M42711-1, M42711-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: M42711
 Account: EXXONSS - Exxon Service Station
 Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6295
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 11/05/04

M42711-1		QC	
Metal	Original	SDL 1:5	RPD Limits
Aluminum			
Antimony			
Arsenic			
Barium			
Beryllium			
Boron			
Cadmium			
Calcium			
Chromium			
Cobalt			
Copper			
Iron			
Lead	3.34	0.00	100.0(a) 0-10
Magnesium			
Manganese			
Molybdenum			
Nickel			
Potassium			
Selenium			
Silver			
Sodium			
Strontium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc			

Associated samples MP6295: M42711-1, M42711-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M42711

Account: EXXONSS - Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Color, Apparent	GN15127	5	<5	CU				
Turbidity	GN15128	0.50	<0.50	NTU				

Associated Samples:

Batch GN15127: M42711-1, M42711-2

Batch GN15128: M42711-1, M42711-2

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M42711
Account: EXXONSS - Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Color, Apparent	GN15127	M42710-1	CU	200	200	0.0	0-20%
Turbidity	GN15128	M42710-1	NTU	57.4	58.2	1.4	0-20%

Associated Samples:

Batch GN15127: M42711-1, M42711-2

Batch GN15128: M42711-1, M42711-2

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Sample Tracking Chronicle

Internal Sample Tracking Chronicle

Exxon Service Station

Job No: M42711

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4504183520 WBS#08

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M42711-1 Collected: 26-OCT-04 00:00 By: RMB Received: 26-OCT-04 By: RS INF						
M42711-1	EPA 180.1	26-OCT-04 17:50	MA			TURB
M42711-1	EPA 110.2	26-OCT-04 18:03	MA			COL
M42711-1	SW846 6010B	09-NOV-04 00:52	LMN	05-NOV-04 OP		PB
M42711-2 Collected: 26-OCT-04 00:00 By: RMB Received: 26-OCT-04 By: RS EFF						
M42711-2	EPA 180.1	26-OCT-04 17:50	MA			TURB
M42711-2	EPA 110.2	26-OCT-04 18:03	MA			COL
M42711-2	SW846 6010B	09-NOV-04 01:03	LMN	05-NOV-04 OP		PB



ACCUTEST
Laboratories

495 Tech Center West, Bldg. 1
Marlboro, MA 01752
508-481-6200 FAX: 508-481-6200

Client Information				Facility Information				Analytical Information			
EXXONMOBIL CORPORATION - Regional Laboratory Program Northeast Consultants Company Name: <u>CDM</u>				Project Name: <u>XOM Buxborough</u> Address: <u>50 Hampshire St.</u> City: <u>Cambridge MA</u> State: <u>MA</u> Zip: <u>02139</u> Project Contact: <u>Don Welch</u> ExxonMobil Contact: <u>Eric Enrico</u> ExxonMobil Contact Phone #: <u>8-5805</u>				Accutest Job #: <u>142711</u> TPH-8015 GRO ☐ TPH-8015 DRO ☐ TPH-MAINE GRO ☐ DRO ☐ TPH-CTDEP ☐ TPH-18.1 ☐ EPH RANGES ☐ TARGET (PAH) ☐ DIESEL (PAH) ☐ VPH RANGES ☐ TARGETS ☐ TBA ☐ Oxygens ☐ 5035/LOW ☐ 5035/MED ☐ VOC SOIL 8260 ☐ STD ☐ PPL ☐ MTBE ☐ PPL ☐ MTBE ☐ TBA ☐ Oxygens ☐ VOC AQUEOUS 8260 ☐ 624 ☐ 624 ☐ STD ☐ TCL ☐ TBA ☐ Naphthalene ☐ Oxygens ☐ BTEX 8260 ☐ 624 ☐ 8021 ☐ 524 ☐ MTBE ☐ TPH-8015 GRO ☐ TPH-8015 DRO ☐ TPH-MAINE GRO ☐ DRO ☐ TPH-CTDEP ☐ TPH-18.1 ☐ EPH RANGES ☐ TARGET (PAH) ☐ DIESEL (PAH) ☐ VPH RANGES ☐ TARGETS ☐ TBA ☐ Oxygens ☐ 5035/LOW ☐ 5035/MED ☐ VOC SOIL 8260 ☐ STD ☐ PPL ☐ MTBE ☐ PPL ☐ MTBE ☐ TBA ☐ Oxygens ☐ VOC AQUEOUS 8260 ☐ 624 ☐ 624 ☐ STD ☐ TCL ☐ TBA ☐ Naphthalene ☐ Oxygens ☐ BTEX 8260 ☐ 624 ☐ 8021 ☐ 524 ☐ MTBE ☐			
Accutest Sample # <u>12711-1</u> Field ID / Point of Collection <u>Inf</u> Date <u>10-26-04</u> Time <u>1</u>				Collection Date <u>10-26-04</u> Time <u>1</u> Matrix <u>PMB</u> # of bottles <u>2</u>				Preservation HCL ☐ NaOH ☐ HNO3 ☐ H2SO4 ☐ MEOH ☐ Encore ☐ Other ☐ None ☒			
Turnaround Time (Business days) ☒ Std. 10 Business Days ☐ 8 Day RUSH ☐ 5 Day RUSH ☐ 3 Day EMERGENCY ☐ 2 Day EMERGENCY ☐ 1 Day EMERGENCY Emergency T/A is for FAX or LabLink Data				Data Deliverable Information ☐ Commercial "A" ☐ FULL CLP ☐ Commercial "B" ☐ State Forms ☐ Full Deliverables ☐ Disk Deliverable Format ☐ Other Site Specific: QC Yes ☐ No ☐ If yes, indicate QC sample in Comments and submit triplicate volume.				Comments / Remarks <u>MCP Presumptive Certainty Required</u> <u>Loc. 9F, 5A</u>			
Sample Custody must be documented below each time samples change possession, including courier delivery. Relinquished by Sampler: <u>Ryan M Bouldin</u> Date Time: <u>10-26-04 1510</u> Relinquished by: <u>Don Welch</u> Date Time: <u>10-26-04 1510</u> Relinquished by: <u>Don Welch</u> Date Time: <u>10-26-04 1510</u> Relinquished by: <u>Don Welch</u> Date Time: <u>10-26-04 1510</u>				Received by: <u>Don Welch</u> Date Time: <u>10-26-04 1510</u> Received by: <u>Don Welch</u> Date Time: <u>10-26-04 1510</u> Received by: <u>Don Welch</u> Date Time: <u>10-26-04 1510</u> Received by: <u>Don Welch</u> Date Time: <u>10-26-04 1510</u>				On Ice ☒ Temp. <u>3.3 °C</u>			

Color & Turbidity
Unfiltered head

Technical Report for

Exxon Service Station

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

PO#4504183520 WBS#08

Accutest Job Number: M43382

Sampling Date: 11/22/04

Report to:

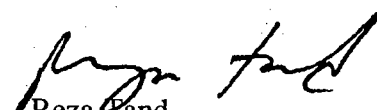
Camp Dresser & McKee
50 Hampshire Avenue
Cambridge, MA 02139

ATTN: Andrew Powers

Total number of pages in report: 15



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Reza Fand
Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579)
NY (23346) NJ (MA926) NAVY USACE

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SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Exxon Service Station

Job No: M43382

Site: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Report Date 12/1/2004 9:47:47 AM

3 Samples were collected on 11/22/2004 and were received at Accutest on 11/22/2004 properly preserved, at 12.5 Deg. C and intact. These Samples received an Accutest job number of M43382. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method EPA 624

Matrix: AQ

Batch ID: MSA1651

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M43382-3MS, M43382-3MSD were used as the QC samples indicated.
- Only BTX and MTBE requested.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M43382).

Sample Summary

Exxon Service Station

Job No: M43382

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4504183520 WBS#08

Sample Number	Collected		Matrix Received	Code	Type	Client Sample ID
	Date	Time By				
M43382-1	11/22/04	17:00 RMB	11/22/04	AQ	Influent Filtered	INF
M43382-2	11/22/04	17:10 RMB	11/22/04	AQ	Influent Filtered	AS INF
M43382-3	11/22/04	17:20 RMB	11/22/04	AQ	Effluent Filtered	GAC 3 EFF

Report of Analysis

Page 1 of 1

Client Sample ID:	INF	Date Sampled:	11/22/04
Lab Sample ID:	M43382-1	Date Received:	11/22/04
Matrix:	AQ - Influent Filtered	Percent Solids:	n/a
Method:	EPA 624		
Project:	CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A49577.D	1	11/23/04	AMY	n/a	n/a	MSA1651
Run #2	A49594.D	20	11/24/04	AMY	n/a	n/a	MSA1651

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	5.0	0.50	ug/l	
108-88-3	Toluene	15.0	1.0	ug/l	
100-41-4	Ethylbenzene	68.0	1.0	ug/l	
1330-20-7	Xylenes (total)	215	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2620 ^a	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	85%	90%	80-127%
2037-26-5	Toluene-D8 (SUR)	95%	94%	85-114%
460-00-4	4-Bromofluorobenzene (SUR)	89%	86%	85-114%

(a) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	AS INF		
Lab Sample ID:	M43382-2	Date Sampled:	11/22/04
Matrix:	AQ - Influent Filtered	Date Received:	11/22/04
Method:	EPA 624	Percent Solids:	n/a
Project:	CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A49578.D	1	11/23/04	AMY	n/a	n/a	MSA1651
Run #2	A49595.D	10	11/24/04	AMY	n/a	n/a	MSA1651

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	1.6	0.50	ug/l	
108-88-3	Toluene	3.6	1.0	ug/l	
100-41-4	Ethylbenzene	16.3	1.0	ug/l	
1330-20-7	Xylenes (total)	65.8	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1180 ^a	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	87%	89%	80-127%
2037-26-5	Toluene-D8 (SUR)	94%	94%	85-114%
460-00-4	4-Bromofluorobenzene (SUR)	95%	85%	85-114%

(a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: GAC 3 EFF

Lab Sample ID: M43382-3

Date Sampled: 11/22/04

Matrix: AQ - Effluent Filtered

Date Received: 11/22/04

Method: EPA 624

Percent Solids: n/a

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A49573.D	1	11/23/04	AMY	n/a	n/a	MSA1651
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
108-88-3	Toluene	2.1	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	85%		80-127%
2037-26-5	Toluene-D8 (SUR)	97%		85-114%
460-00-4	4-Bromofluorobenzene (SUR)	92%		85-114%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 1

Job Number: M43382

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSA1651-MB	A49571.D	1	11/23/04	AMY	n/a	n/a	MSA1651

The QC reported here applies to the following samples:

Method: EPA 624

M43382-1, M43382-2, M43382-3

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	86% 80-127%
2037-26-5	Toluene-D8 (SUR)	94% 85-114%
460-00-4	4-Bromofluorobenzene (SUR)	88% 85-114%

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: M43382

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSA1651-BS	A49568.D	1	11/23/04	AMY	n/a	n/a	MSA1651
MSA1651-BSD	A49569.D	1	11/23/04	AMY	n/a	n/a	MSA1651

The QC reported here applies to the following samples:

Method: EPA 624

M43382-1, M43382-2, M43382-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	19.0	95	21.0	105	10	37-151/30
100-41-4	Ethylbenzene	20	21.0	105	24.0	120	13	37-162/30
1634-04-4	Methyl Tert Butyl Ether	20	16.9	85	20.1	101	17	62-147/30
108-88-3	Toluene	20	17.6	88	20.0	100	13	47-150/30
1330-20-7	Xylenes (total)	60	63.7	106	68.6	114	7	73-139/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	90%	95%	80-127%
2037-26-5	Toluene-D8 (SUR)	104%	101%	85-114%
460-00-4	4-Bromofluorobenzene (SUR)	101%	96%	85-114%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: M43382

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M43382-3MS	A49592.D	5	11/24/04	AMY	n/a	n/a	MSA1651
M43382-3MSD	A49593.D	5	11/24/04	AMY	n/a	n/a	MSA1651
M43382-3	A49573.D	1	11/23/04	AMY	n/a	n/a	MSA1651

The QC reported here applies to the following samples:

Method: EPA 624

M43382-1, M43382-2, M43382-3

CAS No.	Compound	M43382-3 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	100	77.8	78	74.9	75	4	37-151/30
100-41-4	Ethylbenzene	ND	100	92.1	92	100	100	8	37-162/30
1634-04-4	Methyl Tert Butyl Ether	ND	100	78.4	78	87.3	87	11	48-150/39
108-88-3	Toluene	2.1	100	78.4	76	83.6	82	6	47-150/30
1330-20-7	Xylenes (total)	ND	300	279	93	287	96	3	66-144/38

CAS No.	Surrogate Recoveries	MS	MSD	M43382-3	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	82%	86%	85%	80-127%
2037-26-5	Toluene-D8 (SUR)	98%	99%	97%	85-114%
460-00-4	4-Bromofluorobenzene (SUR)	89%	89%	92%	85-114%

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: M43382

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Method: EPA 624

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M43382-1	A49594.D	90.0	94.0	86.0
M43382-1	A49577.D	85.0	95.0	89.0
M43382-2	A49595.D	89.0	94.0	85.0
M43382-2	A49578.D	87.0	94.0	95.0
M43382-3	A49573.D	85.0	97.0	92.0
M43382-3MS	A49592.D	82.0	98.0	89.0
M43382-3MSD	A49593.D	86.0	99.0	89.0
MSA1651-BS	A49568.D	90.0	104.0	101.0
MSA1651-BSD	A49569.D	95.0	101.0	96.0
MSA1651-MB	A49571.D	86.0	94.0	88.0

Surrogate
Compounds

Recovery
Limits

S1 = 1,2-Dichloroethane-D4 (SUR) 80-127%
S2 = Toluene-D8 (SUR) 85-114%
S3 = 4-Bromofluorobenzene (SUR) 85-114%

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Sample Tracking Chronicle

Internal Sample Tracking Chronicle

Exxon Service Station

Job No: M43382

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4504183520 WBS#08

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M43382-1	Collected: 22-NOV-04 17:00 By: RMB	Received: 22-NOV-04 By: RS				
INF						
M43382-1	EPA 624	23-NOV-04 22:59	AMY			V624BTXM
M43382-1	EPA 624	24-NOV-04 10:05	AMY			V624BTXM
M43382-2	Collected: 22-NOV-04 17:10 By: RMB	Received: 22-NOV-04 By: RS				
AS INF						
M43382-2	EPA 624	23-NOV-04 23:38	AMY			V624BTXM
M43382-2	EPA 624	24-NOV-04 10:44	AMY			V624BTXM
M43382-3	Collected: 22-NOV-04 17:20 By: RMB	Received: 22-NOV-04 By: RS				
GAC 3 EFF						
M43382-3	EPA 624	23-NOV-04 20:21	AMY			V624BTXM



MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ATTAIN UP CUSTOM

ACCUTEST JOB #:

ACCUTEST QUOTE #:

CLIENT INFORMATION			FACILITY INFORMATION			ANALYTICAL INFORMATION			MATRIX CODE		
NAME 50 Hampshire St. ADDRESS Cambridge, MA CITY, STATE Jon Welch SEND REPORT TO: PHONE # 617-452-0000			PROJECT NAME Xom Boxboro - 3-5805 LOCATION Boxboro, MA 3-5805, 20474-41118 PROJECT NO. FAX #			DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LQ - OTHER LIQUID SOL - OTHER SOLID			LAB USE ONLY		
FIELD ID / POINT OF COLLECTION Inf AS Inf GAC 3 Eff			COLLECTION DATE 11-22-04 TIME 1700 1710 1720			PRESERVATION # OF BOTTLES MATRIX HCl HNO3 H2SO4 NONE			BTX/MTBE via GC/MS		
ACCUTEST SAMPLE # 1133827 2 3			DATE 11-22-04 TIME 1700 1710 1720			PRESERVATION # OF BOTTLES MATRIX HCl HNO3 H2SO4 NONE			BTX/MTBE via GC/MS		
DATA TURNAROUND INFORMATION 14 DAYS STANDARD 7 DAYS RUSH 48 HOUR EMERGENCY OTHER 2 DAY 1 DAY TURNAROUND HARD COPY, EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED			DATA DELIVERABLE INFORMATION STANDARD COMMERCIAL "B" DISK DELIVERABLE STATE FORMS OTHER (SPECIFY)			DATA DELIVERABLE INFORMATION STANDARD COMMERCIAL "B" DISK DELIVERABLE STATE FORMS OTHER (SPECIFY)			COMMENTS/REMARKS MCR Presumptive Certainty GW-1 Stds Apply for 4H2		
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY			RELINQUISHED BY: 1. [Signature] DATE TIME: 11-22-04 1740 RELINQUISHED BY: 2. [Signature] DATE TIME: 11-22-04 18:11 RELINQUISHED BY: 3. [Signature] DATE TIME: 11-22-04 18:11 RELINQUISHED BY: 4. [Signature] DATE TIME: 11-22-04 18:11 RELINQUISHED BY: 5. [Signature] DATE TIME: 11-22-04 18:11			RELINQUISHED BY: 1. [Signature] DATE TIME: 11-22-04 1740 RELINQUISHED BY: 2. [Signature] DATE TIME: 11-22-04 18:11 RELINQUISHED BY: 3. [Signature] DATE TIME: 11-22-04 18:11 RELINQUISHED BY: 4. [Signature] DATE TIME: 11-22-04 18:11 RELINQUISHED BY: 5. [Signature] DATE TIME: 11-22-04 18:11			TEMPERATURE 12.5		



10/20/05

Technical Report for

Exxon Service Station

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

PO#4506003635 WBS#08

Accutest Job Number: M43544

Sampling Date: 11/30/04

Report to:

Camp, Dresser & McKee

HimmelDB@cdm.com

ATTN: Dana Himmel

Total number of pages in report: 84



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Fand
Reza Fand
Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579)
NY (23346) NJ (MA926) NAVY USACE

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Sample Summary

Exxon Service Station

Job No: M43544

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4506003635 WBS#08

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
M43544-1	11/30/04	08:50 TAN	12/01/04	AQ	Ground Water	MW-33
M43544-2	11/30/04	09:20 TAN	12/01/04	AQ	Ground Water	MW-9
M43544-3	11/30/04	09:45 TAN	12/01/04	AQ	Ground Water	MW-35
M43544-4	11/30/04	10:15 TAN	12/01/04	AQ	Ground Water	MW-36
M43544-5	11/30/04	10:40 TAN	12/01/04	AQ	Ground Water	MW-34
M43544-6	11/30/04	12:15 TAN	12/01/04	AQ	Ground Water	MW-37
M43544-7	11/30/04	13:20 RMB	12/01/04	AQ	Ground Water	MW-5
M43544-8	11/30/04	13:45 RMB	12/01/04	AQ	Ground Water	MW-38
M43544-9	11/30/04	14:20 RMB	12/01/04	AQ	Ground Water	MW-3
M43544-10	11/30/04	00:00 RMB	12/01/04	AQ	Ground Water	DUP-1
M43544-11	11/30/04	15:00 RMB	12/01/04	AQ	Ground Water	MW-19
M43544-12	11/30/04	15:20 RMB	12/01/04	AQ	Ground Water	MW-15
M43544-13	11/30/04	15:30 RMB	12/01/04	AQ	Ground Water	MW-16

Sample Summary

(continued)

Exxon Service Station

Job No: M43544

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4506003635 WBS#08

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
M43544-14	11/30/04	15:40 RMB	12/01/04	AQ	Ground Water	MW-28
M43544-15	11/30/04	15:45 RMB	12/01/04	AQ	Ground Water	MW-29
M43544-16	11/30/04	16:00 RMB	12/01/04	AQ	Ground Water	MW-27
M43544-17	11/30/04	16:20 RMB	12/01/04	DW	Drinking Water Inf	POET INF
M43544-18	11/30/04	16:30 RMB	12/01/04	DW	Drinking Water	POET MID
M43544-19	11/30/04	16:40 RMB	12/01/04	DW	Drinking Water Eff	POET EFF
M43544-20	11/30/04	16:45 RMB	12/01/04	DW	Drinking Water Eff	POET EFF (DUP)
M43544-21	11/30/04	00:00 RMB	12/01/04	DW	Drinking Water TB	TRIP BLANK
M43544-22	11/30/04	16:50 RMB	12/01/04	AQ	Influent	GW INF
M43544-23	11/30/04	16:55 RMB	12/01/04	AQ	Effluent	GW EFF
M43544-24	11/30/04	11:20 RMB	12/01/04	AQ	Ground Water	MW-6
M43544-25	11/30/04	11:55 RMB	12/01/04	AQ	Ground Water	MW-7

Report of Analysis

Page 1 of 1

Client Sample ID:	GW INF	Date Sampled:	11/30/04
Lab Sample ID:	M43544-22	Date Received:	12/01/04
Matrix:	AQ - Influent	Percent Solids:	n/a
Project:	CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	<5.0	5.0	ug/l	1	12/06/04	12/07/04 LMN	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA5316

(2) Prep QC Batch: MP6398

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	GW INF	Date Sampled:	11/30/04
Lab Sample ID:	M43544-22	Date Received:	12/01/04
Matrix:	AQ - Influent	Percent Solids:	n/a
Project:	CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Color, Apparent	30	5	CU	1	12/01/04 15:00	MA	EPA 110.2
Petroleum Hydrocarbons	< 0.61	0.61	mg/l	1	12/06/04	BF	EPA 418.1
Solids, Total Suspended	7.0	4.0	mg/l	1	12/01/04	BF	EPA 160.2
Turbidity	6.9	0.50	NTU	1	12/01/04 15:30	MA	EPA 180.1

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- VPH Form
- Sample Tracking Chronicle

MADEP VPH FORM

Matrix:	Aqueous ☒	Soil ☐	Sediment ☐	Other ☐
Containers:	Satisfactory ☒	Broken ☐	Leaking ☐	
Aqueous Preservatives:	N/A ☐	pH <= 2 ☒	pH > 2 ☐	
Temperature:	Received on Ice ☐	Received at 4 Deg. C ☐	Other ☒	Rec'd at 2.5 deg C
Methanol:	N/A			
Method for Ranges:	MADEP VPH REV 1.1		Client ID: MW-33	Lab ID: M43544-1
Method for Target Analytes:	MADEP VPH REV 1.1		Date Collected: 11/30/2004	Date Received: 12/1/2004
VPH Surrogate Standards			Date Extracted:	First Date Run:
PID: 2,5-Dibromotoluene			N/A	12/3/2004
FID: 2,5-Dibromotoluene			% Solids:	Low Dilution:
			N/A	1
			Last Date Run:	High Dilution:
			N/A	N/A

Unadjusted Ranges	CAS #	Elution Range	Units	Result	RDL	Q
C5- C8 Aliphatics (Unadj.)		N/A	ug/l	ND ^	50	
C9- C10 Aromatics (Unadj.)		N/A	ug/l	ND ^	50	
C9- C12 Aliphatics (Unadj.)		N/A	ug/l	ND ^	50	

Target Analytes						
Ethylbenzene	100-41-4	C9-C12	ug/l	ND	2	
Toluene	108-88-3	C5-C8	ug/l	ND	2	
Methyl Tert Butyl Ether	1634-04-4	C5-C8	ug/l	ND	2	
Benzene	71-43-2	C5-C8	ug/l	ND	2	
Naphthalene	91-20-3	N/A	ug/l	ND	3	
o-Xylene	95-47-6	C9-C12	ug/l	ND	2	
m,p-Xylene		C9-C12	ug/l	ND	2	

Adjusted Ranges						
C5- C8 Aliphatics		N/A	ug/l	ND ^	50	
C9- C12 Aliphatics		N/A	ug/l	ND ^	50	

Surrogate Recoveries				Acceptance Range	
FID:2,5-Dibromotoluene	%	114		70-130 %	
PID:2,5-Dibromotoluene	%	99		70-130 %	

Footnotes

A Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

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Z A 'J' qualifier indicates an estimated value

Were all QA/QC procedures REQUIRED by the VPH Method followed?

☒ Yes ☐ No- Details Attached

Were all performance/acceptance standards for required QA/QC procedures achieved?

☒ Yes ☐ No- Details Attached

Were any significant modifications made to the VPH method, as specified in Sect. 11.3?

☒ No ☐ Yes- Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Signature

Reza Tand

Postition

Laboratory Director

Printed Name

Reza Tand

Date

12/10/2004

MADEP VPH FORM

Matrix:	Aqueous ☒ Soil ☐ Sediment ☐ Other ☐																																																
Containers:	Satisfactory ☒ Broken ☐ Leaking ☐																																																
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VPH Surrogate Standards	PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene Date Extracted: N/A % Solids: N/A First Date Run: 12/3/2004 Low Dilution: 1 Last Date Run: N/A High Dilution: N/A																																																
Client ID: DUP-1	Lab ID: M43544-10																																																
Date Collected: 11/30/2004	Date Received: 12/1/2004																																																
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Were all QA/QC procedures REQUIRED by the VPH Method followed?

☒ Yes ☐ No- Details Attached

Were all performance/acceptance standards for required QA/QC procedures achieved?

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Were any significant modifications made to the VPH method, as specified in Sect. 11.3?

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I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Signature

Reza Tand

Postition

Laboratory Director

Printed Name

Reza Tand

Date

12/10/2004

MADEP VPH FORM

Matrix:	Aqueous ☒	Soil ☐	Sediment ☐	Other ☐
Containers:	Satisfactory ☒	Broken ☐	Leaking ☐	
Aqueous Preservatives:	N/A ☐	pH ≤ 2 ☒	pH > 2 ☐	
Temperature:	Received on Ice ☐	Received at 4 Deg. C ☐	Other ☒	Rec'd at 2.5 deg C
Methanol:	N/A			

Method for Ranges:	MADEP VPH REV 1.1	Client ID: MW-19	Lab ID: M43544-11
Method for Target Analytes:	MADEP VPH REV 1.1	Date Collected: 11/30/2004	Date Received: 12/1/2004
VPH Surrogate Standards		Date Extracted:	First Date Run:
PID: 2,5-Dibromotoluene		N/A	12/3/2004
FID: 2,5-Dibromotoluene		% Solids:	Low Dilution:
		N/A	1
			Last Date Run:
			N/A
			High Dilution:
			N/A

Unadjusted Ranges	CAS #	Elution Range	Units	Result	RDL	Q
C5- C8 Aliphatics (Unadj.)		N/A	ug/l	ND ^	50	
C9- C10 Aromatics (Unadj.)		N/A	ug/l	ND ^	50	
C9- C12 Aliphatics (Unadj.)		N/A	ug/l	ND ^	50	

Target Analytes	CAS #	Elution Range	Units	Result	RDL
Ethylbenzene	100-41-4	C9-C12	ug/l	ND	2
Toluene	108-88-3	C5-C8	ug/l	ND	2
Methyl Tert Butyl Ether	1634-04-4	C5-C8	ug/l	ND	2
Benzene	71-43-2	C5-C8	ug/l	ND	2
Naphthalene	91-20-3	N/A	ug/l	ND	3
o-Xylene	95-47-6	C9-C12	ug/l	ND	2
m,p-Xylene		C9-C12	ug/l	ND	2

Adjusted Ranges	Units	Result	RDL
C5- C8 Aliphatics	ug/l	ND ^	50
C9- C12 Aliphatics	ug/l	ND ^	50

Surrogate Recoveries	%	Acceptance Range
FID:2,5-Dibromotoluene	110	70-130 %
PID:2,5-Dibromotoluene	94	70-130 %

Footnotes

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☒ No ☐ Yes- Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Signature

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Laboratory Director

Printed Name

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MADEP VPH FORM

Matrix:	Aqueous ☒ Soil ☐ Sediment ☐ Other ☐																																																
Containers:	Satisfactory ☒ Broken ☐ Leaking ☐																																																
Aqueous/Preservatives:	N/A ☐ pH <= 2 ☒ pH > 2 ☐																																																
Temperature:	Received on Ice ☐ Received at 4 Deg. C ☐ Other ☒ Rec'd at 2.5 deg C																																																
Methanol:	N/A																																																
Method for Ranges:	MADEP VPH REV 1.1																																																
Method for Target Analytes:	MADEP VPH REV 1.1																																																
VPH Surrogate Standards	Client ID: MW-15 Date Collected: 11/30/2004 Lab ID: M43544-12 Date Received: 12/1/2004 Date Extracted: N/A % Solids: N/A First Date Run: 12/3/2004 Low Dilution: 1 Last Date Run: N/A High Dilution: N/A																																																
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Were all QA/QC procedures REQUIRED by the VPH Method followed?

☒ Yes ☐ No- Details Attached

Were all performance/acceptance standards for required QA/QC procedures achieved?

☒ Yes ☐ No- Details Attached

Were any significant modifications made to the VPH method, as specified in Sect. 11.3?

☒ No ☐ Yes- Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Signature

Reza Tand

Postition

Laboratory Director

Printed Name

Reza Tand

Date

12/10/2004

MADEP VPH FORM

Matrix:	Aqueous ☒	Soil ☐	Sediment ☐	Other ☐
Containers:	Satisfactory ☒	Broken ☐	Leaking ☐	
Aqueous Preservatives:	N/A ☐	pH <= 2 ☒	pH > 2 ☐	
Temperature:	Received on Ice ☐	Received at 4 Deg. C ☐	Other ☒	Rec'd at 2.5 deg C
Methanol:	N/A			

Method for Ranges:	MADEP VPH REV 1.1	Client ID: MW-16	Lab ID: M43544-13
Method for Target Analytes:	MADEP VPH REV 1.1	Date Collected: 11/30/2004	Date Received: 12/1/2004
VPH Surrogate Standards		Date Extracted:	First Date Run:
PID: 2,5-Dibromotoluene		N/A	12/3/2004
FID: 2,5-Dibromotoluene		% Solids:	Low Dilution:
		N/A	1
			Last Date Run:
			N/A
			High Dilution:
			N/A

Unadjusted Ranges	CAS #	Elution Range	Units	Result	RDL	Q
C5- C8 Aliphatics (Unadj.)		N/A	ug/l	510 ^	50	
C9- C10 Aromatics (Unadj.)		N/A	ug/l	ND ^	50	
C9- C12 Aliphatics (Unadj.)		N/A	ug/l	ND ^	50	

Target Analytes	CAS #	Elution Range	Units	Result	RDL	Q
Ethylbenzene	100-41-4	C9-C12	ug/l	ND	2	
Toluene	108-88-3	C5-C8	ug/l	ND	2	
Methyl Tert Butyl Ether	1634-04-4	C5-C8	ug/l	569	2	
Benzene	71-43-2	C5-C8	ug/l	ND	2	
Naphthalene	91-20-3	N/A	ug/l	ND	3	
o-Xylene	95-47-6	C9-C12	ug/l	ND	2	
m,p-Xylene		C9-C12	ug/l	ND	2	

Adjusted Ranges	CAS #	Elution Range	Units	Result	RDL	Q
C5- C8 Aliphatics		N/A	ug/l	ND ^	50	
C9- C12 Aliphatics		N/A	ug/l	ND ^	50	

Surrogate Recoveries	Acceptance Range
FID:2,5-Dibromotoluene	115 70-130 %
PID:2,5-Dibromotoluene	98 70-130 %

Footnotes

A Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

B Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. C6-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

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Z A 'J' qualifier indicates an estimated value

Were all QA/QC procedures REQUIRED by the VPH Method followed? ☒ Yes ☐ No- Details Attached

Were all performance/acceptance standards for required QA/QC procedures achieved? ☒ Yes ☐ No- Details Attached

Were any significant modifications made to the VPH method, as specified in Sect. 11.3? ☒ No ☐ Yes- Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Signature 

Postition Laboratory Director

Printed Name Reza Tand

Date 12/10/2004

MADEP VPH FORM

Matrix	Aqueous ☒ Soil ☐ Sediment ☐ Other ☐
Containers	Satisfactory ☒ Broken ☐ Leaking ☐
Aqueous Preservatives	N/A ☐ pH <= 2 ☒ pH > 2 ☐
Temperature	Received on Ice ☐ Received at 4 Deg. C ☐ Other ☒ Rec'd at 2.5 deg C
Methanol	N/A
Method for Ranges:	MADEP VPH REV 1.1
Method for Target Analytes:	MADEP VPH REV 1.1
VPH Surrogate Standards	PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene
Client ID: MW-28	Lab ID: M43544-14
Date Collected: 11/30/2004	Date Received: 12/1/2004
Date Extracted: N/A	First Date Run: 12/4/2004
% Solids: N/A	Low Dilution: 1
	Last Date Run: N/A
	High Dilution: N/A

Unadjusted Ranges	CAS #	Elution Range	Units	Result	RDL	Q
C5- C8 Aliphatics (Unadj.)		N/A	ug/l	558 ^	50	
C9- C10 Aromatics (Unadj.)		N/A	ug/l	ND ^	50	
C9- C12 Aliphatics (Unadj.)		N/A	ug/l	ND ^	50	

Target Analytes	CAS #	Elution Range	Units	Result	RDL
Ethylbenzene	100-41-4	C9-C12	ug/l	ND	2
Toluene	108-88-3	C5-C8	ug/l	ND	2
Methyl Tert Butyl Ether	1634-04-4	C5-C8	ug/l	600	2
Benzene	71-43-2	C5-C8	ug/l	ND	2
Naphthalene	91-20-3	N/A	ug/l	ND	3
o-Xylene	95-47-6	C9-C12	ug/l	ND	2
m,p-Xylene		C9-C12	ug/l	4.4	2

Adjusted Ranges	Units	Result	RDL
C5- C8 Aliphatics	ug/l	ND ^	50
C9- C12 Aliphatics	ug/l	ND ^	50

Surrogate Recoveries	Acceptance Range
FID:2,5-Dibromotoluene	70-130 %
PID:2,5-Dibromotoluene	70-130 %

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12/10/2004

MADEP VPH FORM

Matrix:	Aqueous ☒ Soil ☐ Sediment ☐ Other ☐
Containers:	Satisfactory ☒ Broken ☐ Leaking ☐
Aqueous Preservatives:	N/A ☐ pH <= 2 ☒ pH > 2 ☐
Temperature:	Received on Ice ☐ Received at 4 Deg. C ☐ Other ☒ Rec'd at 2.5 deg C
Methanol:	N/A
Method for Ranges:	MADEP VPH REV 1.1
Method for Target Analytes:	MADEP VPH REV 1.1
VPH Surrogate Standards	
PID: 2,5-Dibromotoluene	
FID: 2,5-Dibromotoluene	
Client ID: MW-29	Lab ID: M43544-15
Date Collected: 11/30/2004	Date Received: 12/1/2004
Date Extracted: N/A	First Date Run: 12/4/2004
% Solids: N/A	Low Dilution: 1
	Last Date Run: N/A
	High Dilution: N/A

Unadjusted Ranges	CAS #	Elution Range	Units	Result	RDL	Q
C5- C8 Aliphatics (Unadj.)		N/A	ug/l	2400 ^	50	
C9- C10 Aromatics (Unadj.)		N/A	ug/l	836 ^	50	
C9- C12 Aliphatics (Unadj.)		N/A	ug/l	2300 ^	50	

Target Analytes	CAS #	Elution Range	Units	Result	RDL
Ethylbenzene	100-41-4	C9-C12	ug/l	140	2
Toluene	108-88-3	C5-C8	ug/l	127	2
Methyl Tert Butyl Ether	1634-04-4	C5-C8	ug/l	1500	2
Benzene	71-43-2	C5-C8	ug/l	2.9	2
Naphthalene	91-20-3	N/A	ug/l	51.4	3
o-Xylene	95-47-6	C9-C12	ug/l	150	2
m,p-Xylene		C9-C12	ug/l	402	2

Adjusted Ranges	Units	Result	RDL
C5- C8 Aliphatics	ug/l	769 ^	50
C9- C12 Aliphatics	ug/l	770 ^	50

Surrogate Recoveries	Acceptance Range
FID:2,5-Dibromotoluene	70-130 %
PID:2,5-Dibromotoluene	70-130 %

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Reza Tand

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Were all QA/QC procedures REQUIRED by the VPH Method followed?

☒ Yes ☐ No- Details Attached

Were all performance/acceptance standards for required QA/QC procedures achieved?

☒ Yes ☐ No- Details Attached

Were any significant modifications made to the VPH method, as specified in Sect. 11.3?

☒ No ☐ Yes- Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Signature

Reza Tand

Postition

Laboratory Director

Printed Name

Reza Tand

Date

12/10/2004

MADEP VPH FORM

Matrix:	Aqueous ☒	Soil ☐	Sediment ☐	Other ☐
Containers:	Satisfactory ☒	Broken ☐	Leaking ☐	
Aqueous/Preservatives:	N/A ☐	pH <= 2 ☒	pH > 2 ☐	
Temperature:	Received on Ice ☐	Received at 4 Deg. C ☐	Other ☒	Rec'd at 2.5 deg C
Methanol:	N/A			
Method for Ranges:	MADEP VPH REV 1.1		Client ID: MW-9	Lab ID: M43544-2
Method for Target Analytes:	MADEP VPH REV 1.1		Date Collected: 11/30/2004	Date Received: 12/1/2004
VPH Surrogate Standards			Date Extracted:	First Date Run:
PID: 2,5-Dibromotoluene			N/A	12/3/2004
FID: 2,5-Dibromotoluene			% Solids:	Low Dilution:
			N/A	1
				Last Date Run:
				N/A
				High Dilution:
				N/A

Unadjusted Ranges	CAS #	Elution Range	Units	Result	RDL	Q
C5- C8 Aliphatics (Unadj.)		N/A	ug/l	ND ^	50	
C9- C10 Aromatics (Unadj.)		N/A	ug/l	ND ^	50	
C9- C12 Aliphatics (Unadj.)		N/A	ug/l	ND ^	50	

Target Analytes	CAS #	Elution Range	Units	Result	RDL
Ethylbenzene	100-41-4	C9-C12	ug/l	ND	2
Toluene	108-88-3	C5-C8	ug/l	ND	2
Methyl Tert Butyl Ether	1634-04-4	C5-C8	ug/l	ND	2
Benzene	71-43-2	C5-C8	ug/l	ND	2
Naphthalene	91-20-3	N/A	ug/l	ND	3
o-Xylene	95-47-6	C9-C12	ug/l	ND	2
m,p-Xylene		C9-C12	ug/l	ND	2

Adjusted Ranges	Units	Result	RDL
C5- C8 Aliphatics	ug/l	ND ^	50
C9- C12 Aliphatics	ug/l	ND ^	50

Surrogate Recoveries	Acceptance Range
FID:2,5-Dibromotoluene	112 70-130 %
PID:2,5-Dibromotoluene	96 70-130 %

Footnotes

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Were all QA/QC procedures REQUIRED by the VPH Method followed?

☒ Yes ☐ No- Details Attached

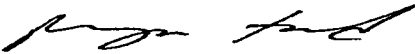
Were all performance/acceptance standards for required QA/QC procedures achieved?

☒ Yes ☐ No- Details Attached

Were any significant modifications made to the VPH method, as specified in Sect. 11.37

☒ No ☐ Yes- Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Signature 

Postition

Laboratory Director

Printed Name

Reza Tand

Date

12/10/2004

MADEP VPH FORM

3.2
3

Matrix:	Aqueous ☒ Soil ☐ Sediment ☐ Other ☐																																										
Containers:	Satisfactory ☒ Broken ☐ Leaking ☐																																										
Aqueous Preservatives:	N/A ☐ pH <= 2 ☒ pH > 2 ☐																																										
Temperature:	Received on Ice ☐ Received at 4 Deg. C ☐ Other ☒ Rec'd at 2.5 deg C																																										
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VPH Surrogate Standards	PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene Date Collected: 11/30/2004 Date Extracted: N/A % Solids: N/A Lab ID: M43544-24 Date Received: 12/1/2004 First Date Run: 12/4/2004 Low Dilution: 1 Last Date Run: N/A High Dilution: N/A																																										
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☒ Yes ☐ No- Details Attached

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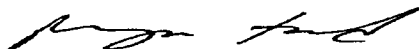
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I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Signature



Postition

Laboratory Director

Printed Name

Reza Tand

Date

12/10/2004

MADEP VPH FORM

Matrix:	Aqueous ☒ Soil ☐ Sediment ☐ Other ☐
Containers:	Satisfactory ☒ Broken ☐ Leaking ☐
Aqueous Preservatives:	N/A ☐ pH <= 2 ☒ pH > 2 ☐
Temperature:	Received on Ice ☐ Received at 4 Deg. C ☐ Other ☒ Rec'd at 2.5 deg C
Methanol:	N/A
Method for Ranges:	MADEP VPH REV 1.1
Method for Target Analytes:	MADEP VPH REV 1.1
VPH Surrogate Standards	
PID: 2,5-Dibromotoluene	
FID: 2,5-Dibromotoluene	
Client ID: MW-7	Lab ID: M43544-25
Date Collected: 11/30/2004	Date Received: 12/1/2004
Date Extracted: N/A	First Date Run: 12/4/2004
% Solids: N/A	Low Dilution: 1
	Last Date Run: N/A
	High Dilution: N/A
Unadjusted Ranges	
C5- C8 Aliphatics (Unadj.)	N/A ug/l ND ^ 50
C9- C10 Aromatics (Unadj.)	N/A ug/l ND ^ 50
C9- C12 Aliphatics (Unadj.)	N/A ug/l ND ^ 50
Target Analytes	
Ethylbenzene	100-41-4 C9-C12 ug/l ND 2
Toluene	108-88-3 C5-C8 ug/l ND 2
Methyl Tert Butyl Ether	1634-04-4 C5-C8 ug/l ND 2
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Method for Ranges:	MADEP VPH REV 1.1																																																	
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VPH Surrogate Standards	Client ID: MW-35 Lab ID: M43544-3 Date Collected: 11/30/2004 Date Received: 12/1/2004 Date Extracted: N/A First Date Run: 12/3/2004 Last Date Run: N/A % Solids: N/A Low Dilution: 1 High Dilution: N/A																																																	
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☒ Yes ☐ No- Details Attached

Were all performance/acceptance standards for required QA/QC procedures achieved?

☒ Yes ☐ No- Details Attached

Were any significant modifications made to the VPH method, as specified in Sect. 11.3?

☒ No ☐ Yes- Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

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12/10/2004

MADEP VPH FORM

Matrix:	Aqueous ☒	Soil ☐	Sediment ☐	Other ☐
Containers:	Satisfactory ☒	Broken ☐	Leaking ☐	
Aqueous/Preservatives:	N/A ☐	pH <= 2 ☒	pH > 2 ☐	
Temperature:	Received on Ice ☐	Received at 4 Deg. C ☐	Other ☒	Rec'd at 2.5 deg C
Methanol:	N/A			
Method for Ranges:	MADEP VPH REV 1.1		Client ID: MW-36	Lab ID: M43544-4
Method for Target Analytes:	MADEP VPH REV 1.1		Date Collected: 11/30/2004	Date Received: 12/1/2004
VPH Surrogate Standards			Date Extracted:	First Date Run:
PID: 2,5-Dibromotoluene			N/A	12/3/2004
FID: 2,5-Dibromotoluene			% Solids:	Low Dilution:
			N/A	1
			Last Date Run:	High Dilution:
			N/A	N/A

Unadjusted Ranges	CAS #	Elution Range	Units	Result	RDL	Q
C5- C8 Aliphatics (Unadj.)		N/A	ug/l	ND ^	50	
C9- C10 Aromatics (Unadj.)		N/A	ug/l	ND ^	50	
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Target Analytes	CAS #	Elution Range	Units	Result	RDL
Ethylbenzene	100-41-4	C9-C12	ug/l	ND	2
Toluene	108-88-3	C5-C8	ug/l	ND	2
Methyl Tert Butyl Ether	1634-04-4	C5-C8	ug/l	ND	2
Benzene	71-43-2	C5-C8	ug/l	ND	2
Naphthalene	91-20-3	N/A	ug/l	ND	3
o-Xylene	95-47-6	C9-C12	ug/l	ND	2
m,p-Xylene		C9-C12	ug/l	ND	2

Adjusted Ranges	Units	Result	RDL
C5- C8 Aliphatics	ug/l	ND ^	50
C9- C12 Aliphatics	ug/l	ND ^	50

Surrogate Recoveries	Acceptance Range
FID:2,5-Dibromotoluene	120 70-130 %
PID:2,5-Dibromotoluene	102 70-130 %

Footnotes

A Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

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Z A 'J' qualifier indicates an estimated value

Were all QA/QC procedures REQUIRED by the VPH Method followed?

☒ Yes ☐ No- Details Attached

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I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Signature

Reza Tand

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Laboratory Director

Printed Name

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12/10/2004

MADEP VPH FORM

Matrix	Aqueous ☒ Soil ☐ Sediment ☐ Other ☐																																																	
Containers	Satisfactory ☒ Broken ☐ Leaking ☐																																																	
Aqueous Preservatives	N/A ☐ pH <= 2 ☒ pH > 2 ☐																																																	
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Client ID: MW-34	Lab ID: M43544-5																																																	
Date Collected: 11/30/2004	Date Received: 12/1/2004																																																	
Date Extracted: N/A	First Date Run: 12/3/2004																																																	
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I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Signature

Reza Tand

Postition

Laboratory Director

Printed Name

Reza Tand

Date

12/10/2004



53 of 84

M43544

Laboratories

MADEP VPH FORM

Matrix	Aqueous ☒ Soil ☐ Sediment ☐ Other ☐
Containers	Satisfactory ☒ Broken ☐ Leaking ☐
Aqueous Preservatives	N/A ☐ pH <= 2 ☒ pH > 2 ☐
Temperature	Received on Ice ☐ Received at 4 Deg. C ☐ Other ☒ Rec'd at 2.5 deg C
Methanol	N/A

Method for Ranges:	MADEP VPH REV 1.1	Client ID: MW-37	Lab ID: M43544-6
Method for Target Analytes:	MADEP VPH REV 1.1	Date Collected: 11/30/2004	Date Received: 12/1/2004
VPH Surrogate Standards		Date Extracted:	First Date Run:
PID: 2,5-Dibromotoluene		N/A	12/3/2004
FID: 2,5-Dibromotoluene		% Solids:	Low Dilution:
		N/A	1
			High Dilution:
			N/A

Unadjusted Ranges	CAS #	Elution Range	Units	Result	RDL	Q
C5- C8 Aliphatics (Unadj.)		N/A	ug/l	ND ^	50	
C9- C10 Aromatics (Unadj.)		N/A	ug/l	ND ^	50	
C9- C12 Aliphatics (Unadj.)		N/A	ug/l	ND ^	50	

Target Analytes	CAS #	Elution Range	Units	Result	RDL
Ethylbenzene	100-41-4	C9-C12	ug/l	ND	2
Toluene	108-88-3	C5-C8	ug/l	ND	2
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m,p-Xylene		C9-C12	ug/l	ND	2

Adjusted Ranges	Units	Result	RDL
C5- C8 Aliphatics	ug/l	ND ^	50
C9- C12 Aliphatics	ug/l	ND ^	50

Surrogate Recoveries	Acceptance Range
FID:2,5-Dibromotoluene	112 70-130 %
PID:2,5-Dibromotoluene	95 70-130 %

Footnotes

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Signature

Reza Tand

Postition

Laboratory Director

Printed Name

Reza Tand

Date

12/10/2004

MADEP VPH FORM

3.2
3

Matrix:	Aqueous ☒ Soil ☐ Sediment ☐ Other ☐																																																	
Containers:	Satisfactory ☒ Broken ☐ Leaking ☐																																																	
Aqueous Preservatives:	N/A ☐ pH <= 2 ☒ pH > 2 ☐																																																	
Temperature:	Received on Ice ☐ Received at 4 Deg. C ☐ Other ☒ Rec'd at 2.5 deg C																																																	
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VPH Surrogate Standards	PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene Date Extracted: N/A % Solids: N/A Client ID: MW-5 Date Collected: 11/30/2004 First Date Run: 12/3/2004 Low Dilution: 1 Lab ID: M43544-7 Date Received: 12/1/2004 Last Date Run: N/A High Dilution: N/A																																																	
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Were all QA/QC procedures REQUIRED by the VPH Method followed?

☒ Yes ☐ No- Details Attached

Were all performance/acceptance standards for required QA/QC procedures achieved?

☒ Yes ☐ No- Details Attached

Were any significant modifications made to the VPH method, as specified in Sect. 11.37

☒ No ☐ Yes- Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Signature

Reza Tand

Postition

Laboratory Director

Printed Name

Reza Tand

Date

12/10/2004

MADEP VPH FORM

Matrix:	Aqueous ☒ Soil ☐ Sediment ☐ Other ☐																																																
Containers:	Satisfactory ☒ Broken ☐ Leaking ☐																																																
Aqueous Preservatives:	N/A ☐ pH <= 2 ☒ pH > 2 ☐																																																
Temperature:	Received on Ice ☐ Received at 4 Deg. C ☐ Other ☒ Rec'd at 2.5 deg C																																																
Methanol:	N/A																																																
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Client ID: MW-3	Lab ID: M43544-9																																																
Date Collected: 11/30/2004	Date Received: 12/1/2004																																																
Date Extracted: N/A	First Date Run: 12/3/2004																																																
% Solids: N/A	Low Dilution: 1																																																
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	High Dilution: N/A																																																
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Were any significant modifications made to the VPH method, as specified in Sect. 11.3?

☒ No ☐ Yes- Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Signature

Reza Tand

Postition

Laboratory Director

Printed Name

Reza Tand

Date

12/10/2004

Internal Sample Tracking Chronicle

Exxon Service Station

Job No: M43544

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4506003635 WBS#08

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M43544-1 MW-33	Collected: 30-NOV-04 08:50	By: TAN	Received: 01-DEC-04	By: RS		
M43544-1	MADEP VPH REV 1.1	03-DEC-04 15:17	AP			VMAVPH
M43544-2 MW-9	Collected: 30-NOV-04 09:20	By: TAN	Received: 01-DEC-04	By: RS		
M43544-2	MADEP VPH REV 1.1	03-DEC-04 16:00	AP			VMAVPH
M43544-3 MW-35	Collected: 30-NOV-04 09:45	By: TAN	Received: 01-DEC-04	By: RS		
M43544-3	MADEP VPH REV 1.1	03-DEC-04 16:43	AP			VMAVPH
M43544-4 MW-36	Collected: 30-NOV-04 10:15	By: TAN	Received: 01-DEC-04	By: RS		
M43544-4	MADEP VPH REV 1.1	03-DEC-04 17:26	AP			VMAVPH
M43544-5 MW-34	Collected: 30-NOV-04 10:40	By: TAN	Received: 01-DEC-04	By: RS		
M43544-5	MADEP VPH REV 1.1	03-DEC-04 18:09	AP			VMAVPH
M43544-6 MW-37	Collected: 30-NOV-04 12:15	By: TAN	Received: 01-DEC-04	By: RS		
M43544-6	MADEP VPH REV 1.1	03-DEC-04 18:52	AP			VMAVPH
M43544-7 MW-5	Collected: 30-NOV-04 13:20	By: RMB	Received: 01-DEC-04	By: RS		
M43544-7	MADEP VPH REV 1.1	03-DEC-04 19:35	AP			VMAVPH
M43544-8 MW-38	Collected: 30-NOV-04 13:45	By: RMB	Received: 01-DEC-04	By: RS		
M43544-8	MADEP VPH REV 1.1	03-DEC-04 20:18	AP			VMAVPH

Internal Sample Tracking Chronicle

Exxon Service Station

Job No: M43544

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4506003635 WBS#08

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M43544-9 Collected: 30-NOV-04 14:20 By: RMB Received: 01-DEC-04 By: RS MW-3						
M43544-9	MADEP VPH REV 1.1	03-DEC-04 21:00	AP			VMAVPH
M43544-10 Collected: 30-NOV-04 00:00 By: RMB Received: 01-DEC-04 By: RS DUP-1						
M43544-10	MADEP VPH REV 1.1	03-DEC-04 21:43	AP			VMAVPH
M43544-11 Collected: 30-NOV-04 15:00 By: RMB Received: 01-DEC-04 By: RS MW-19						
M43544-11	MADEP VPH REV 1.1	03-DEC-04 22:26	AP			VMAVPH
M43544-12 Collected: 30-NOV-04 15:20 By: RMB Received: 01-DEC-04 By: RS MW-15						
M43544-12	MADEP VPH REV 1.1	03-DEC-04 23:08	AP			VMAVPH
M43544-13 Collected: 30-NOV-04 15:30 By: RMB Received: 01-DEC-04 By: RS MW-16						
M43544-13	MADEP VPH REV 1.1	03-DEC-04 23:51	AP			VMAVPH
M43544-14 Collected: 30-NOV-04 15:40 By: RMB Received: 01-DEC-04 By: RS MW-28						
M43544-14	MADEP VPH REV 1.1	04-DEC-04 00:34	AP			VMAVPH
M43544-15 Collected: 30-NOV-04 15:45 By: RMB Received: 01-DEC-04 By: RS MW-29						
M43544-15	MADEP VPH REV 1.1	04-DEC-04 01:16	AP			VMAVPH
M43544-16 Collected: 30-NOV-04 16:00 By: RMB Received: 01-DEC-04 By: RS MW-27						
M43544-16	MADEP VPH REV 1.1	04-DEC-04 01:59	AP			VMAVPH

Internal Sample Tracking Chronicle

Exxon Service Station

Job No: M43544

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
 Project No: PO#4506003635 WBS#08

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M43544-17 Collected: 30-NOV-04 16:20 By: RMB Received: 01-DEC-04 By: RS POET INF						
M43544-17	EPA 524.2 REV 4.1	06-DEC-04 23:06	AT			V524STD +
M43544-18 Collected: 30-NOV-04 16:30 By: RMB Received: 01-DEC-04 By: RS POET MID						
M43544-18	EPA 524.2 REV 4.1	06-DEC-04 18:52	AT			V524STD +
M43544-19 Collected: 30-NOV-04 16:40 By: RMB Received: 01-DEC-04 By: RS POET EFF						
M43544-19	EPA 524.2 REV 4.1	06-DEC-04 18:10	AT			V524STD +
M43544-21 Collected: 30-NOV-04 00:00 By: RMB Received: 01-DEC-04 By: RS TRIP BLANK						
M43544-21	EPA 524.2 REV 4.1	06-DEC-04 16:45	AT			V524STD +
M43544-22 Collected: 30-NOV-04 16:50 By: RMB Received: 01-DEC-04 By: RS GW INF						
M43544-22	EPA 160.2	01-DEC-04	BF			TSS
M43544-22	EPA 110.2	01-DEC-04 15:00	MA			COL
M43544-22	EPA 180.1	01-DEC-04 15:30	MA			TURB
M43544-22	EPA 418.1	06-DEC-04	BF	06-DEC-04	BF	PHC
M43544-22	SW846 6010B	07-DEC-04 13:51	LMN	06-DEC-04	OP	PB
M43544-23 Collected: 30-NOV-04 16:55 By: RMB Received: 01-DEC-04 By: RS GW EFF						
M43544-23	EPA 160.2	01-DEC-04	BF			TSS
M43544-23	EPA 110.2	01-DEC-04 15:00	MA			COL
M43544-23	EPA 180.1	01-DEC-04 15:30	MA			TURB
M43544-23	EPA 418.1	06-DEC-04	BF	06-DEC-04	BF	PHC
M43544-23	SW846 6010B	07-DEC-04 13:25	LMN	06-DEC-04	OP	PB

Internal Sample Tracking Chronicle

Exxon Service Station

Job No: M43544

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4506003635 WBS#08

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
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M43544-24 Collected: 30 NOV 04 11:20 By: RMB Received: 01 DEC 04 By: RS
MW-6

M43544-24 MADEP VPH REV 1.1 04-DEC-04 21:50 AF VMAVPH

M43544-25 Collected: 30 NOV 04 11:55 By: RMB Received: 01 DEC 04 By: RS
MW-7

M43544-25 MADEP VPH REV 1.1 04-DEC-04 22:32 AF VMAVPH

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 2

Job Number: M43544

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2404-MB	D40788.D	1	12/06/04	AT	n/a	n/a	MSD2404

The QC reported here applies to the following samples:

Method: EPA 524.2 REV 4.1

M43544-17, M43544-18, M43544-19, M43544-21

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	0.50	ug/l	
74-97-5	Bromochloromethane	ND	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
74-83-9	Bromomethane	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
74-87-3	Chloromethane	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
74-95-3	Dibromomethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	0.50	ug/l	

Method Blank Summary

Page 2 of 2

Job Number: M43544

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2404-MB	D40788.D	1	12/06/04	AT	n/a	n/a	MSD2404

The QC reported here applies to the following samples:

Method: EPA 524.2 REV 4.1

M43544-17, M43544-18, M43544-19, M43544-21

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	ug/l	
75-09-2	Methylene chloride	ND	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.50	ug/l	
91-20-3	Naphthalene	ND	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	ug/l	
100-42-5	Styrene	ND	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	ug/l	
108-88-3	Toluene	ND	0.50	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
	m,p-Xylene	ND	0.50	ug/l	
95-47-6	o-Xylene	ND	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	0.50	ug/l	

CAS No.	Surrogate Recoveries	Limits
2199-69-1	1,2-Dichlorobenzene-d4	84% 70-130%
460-00-4	4-Bromofluorobenzene	88% 70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Page 1 of 2

Job Number: M43544

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2404-BS	D40785.D	1	12/06/04	AT	n/a	n/a	MSD2404

The QC reported here applies to the following samples:

Method: EPA 524.2 REV 4.1

M43544-17, M43544-18, M43544-19, M43544-21

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	5	4.9	98	70-130
108-86-1	Bromobenzene	5	4.9	98	70-130
74-97-5	Bromochloromethane	5	4.8	96	70-130
75-27-4	Bromodichloromethane	5	5.0	100	70-130
75-25-2	Bromoform	5	4.7	94	70-130
74-83-9	Bromomethane	5	4.7	94	70-130
104-51-8	n-Butylbenzene	5	5.1	102	70-130
135-98-8	sec-Butylbenzene	5	5.0	100	70-130
98-06-6	tert-Butylbenzene	5	5.2	104	70-130
108-90-7	Chlorobenzene	5	4.7	94	70-130
75-00-3	Chloroethane	5	4.9	98	70-130
67-66-3	Chloroform	5	5.2	104	70-130
74-87-3	Chloromethane	5	5.7	114	70-130
95-49-8	o-Chlorotoluene	5	4.8	96	70-130
106-43-4	p-Chlorotoluene	5	4.8	96	70-130
56-23-5	Carbon tetrachloride	5	5.7	114	70-130
75-34-3	1,1-Dichloroethane	5	5.1	102	70-130
75-35-4	1,1-Dichloroethylene	5	5.9	118	70-130
563-58-6	1,1-Dichloropropene	5	5.8	116	70-130
96-12-8	1,2-Dibromo-3-chloropropane	5	3.8	76	70-130
106-93-4	1,2-Dibromoethane	5	5.0	100	70-130
107-06-2	1,2-Dichloroethane	5	5.2	104	70-130
78-87-5	1,2-Dichloropropane	5	5.1	102	70-130
142-28-9	1,3-Dichloropropane	5	4.4	88	70-130
594-20-7	2,2-Dichloropropane	5	5.6	112	70-130
124-48-1	Dibromochloromethane	5	4.9	98	70-130
74-95-3	Dibromomethane	5	4.7	94	70-130
75-71-8	Dichlorodifluoromethane	5	4.8	96	70-130
10061-01-5	cis-1,3-Dichloropropene	5	4.5	90	70-130
541-73-1	m-Dichlorobenzene	5	4.6	92	70-130
95-50-1	o-Dichlorobenzene	5	4.3	86	70-130
106-46-7	p-Dichlorobenzene	5	4.5	90	70-130
156-60-5	trans-1,2-Dichloroethylene	5	5.9	118	70-130
156-59-2	cis-1,2-Dichloroethylene	5	4.9	98	70-130
10061-02-6	trans-1,3-Dichloropropene	5	4.9	98	70-130
100-41-4	Ethylbenzene	5	4.9	98	70-130

Blank Spike Summary

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Job Number: M43544

Account: EXXONSS Exxon Service Station

Project: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2404-BS	D40785.D	1	12/06/04	AT	n/a	n/a	MSD2404

The QC reported here applies to the following samples:

Method: EPA 524.2 REV 4.1

M43544-17, M43544-18, M43544-19, M43544-21

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	5	5.0	100	70-130
98-82-8	Isopropylbenzene	5	5.1	102	70-130
99-87-6	p-Isopropyltoluene	5	5.0	100	70-130
75-09-2	Methylene chloride	5	5.0	100	70-130
1634-04-4	Methyl Tert Butyl Ether	5	5.0	100	70-130
91-20-3	Naphthalene	5	4.1	82	70-130
103-65-1	n-Propylbenzene	5	4.9	98	70-130
100-42-5	Styrene	5	4.7	94	70-130
630-20-6	1,1,1,2-Tetrachloroethane	5	5.0	100	70-130
71-55-6	1,1,1-Trichloroethane	5	5.7	114	70-130
79-34-5	1,1,2,2-Tetrachloroethane	5	4.4	88	70-130
79-00-5	1,1,2-Trichloroethane	5	4.6	92	70-130
87-61-6	1,2,3-Trichlorobenzene	5	4.8	96	70-130
96-18-4	1,2,3-Trichloropropane	5	5.1	102	70-130
120-82-1	1,2,4-Trichlorobenzene	5	4.6	92	70-130
95-63-6	1,2,4-Trimethylbenzene	5	4.8	96	70-130
108-67-8	1,3,5-Trimethylbenzene	5	4.9	98	70-130
127-18-4	Tetrachloroethylene	5	5.1	102	70-130
108-88-3	Toluene	5	4.9	98	70-130
79-01-6	Trichloroethylene	5	5.2	104	70-130
75-69-4	Trichlorofluoromethane	5	5.8	116	70-130
75-01-4	Vinyl chloride	5	5.2	104	70-130
	m,p-Xylene	10	9.1	91	70-130
95-47-6	o-Xylene	5	4.7	94	70-130
1330-20-7	Xylenes (total)	15	13.8	92	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
2199-69-1	1,2-Dichlorobenzene-d4	100%	70-130%
460-00-4	4-Bromofluorobenzene	102%	70-130%

Duplicate Summary

Page 1 of 2

Job Number: M43544

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M43591-1DUP	D40799.D	1	12/06/04	AT	n/a	n/a	MSD2404
M43591-1	D40793.D	1	12/06/04	AT	n/a	n/a	MSD2404

The QC reported here applies to the following samples:

Method: EPA 524.2 REV 4.1

M43544-17, M43544-18, M43544-19, M43544-21

CAS No.	Compound	M43591-1 ug/l	DUP Q ug/l	Q	RPD	Limits
71-43-2	Benzene	ND	ND	nc	30	
108-86-1	Bromobenzene	ND	ND	nc	30	
74-97-5	Bromochloromethane	ND	ND	nc	30	
75-27-4	Bromodichloromethane	ND	ND	nc	30	
75-25-2	Bromoform	ND	ND	nc	30	
74-83-9	Bromomethane	ND	ND	nc	30	
104-51-8	n-Butylbenzene	ND	ND	nc	30	
135-98-8	sec-Butylbenzene	ND	ND	nc	30	
98-06-6	tert-Butylbenzene	ND	ND	nc	30	
108-90-7	Chlorobenzene	ND	ND	nc	30	
75-00-3	Chloroethane	ND	ND	nc	30	
67-66-3	Chloroform	ND	ND	nc	30	
74-87-3	Chloromethane	ND	ND	nc	30	
95-49-8	o-Chlorotoluene	ND	ND	nc	30	
106-43-4	p-Chlorotoluene	ND	ND	nc	30	
56-23-5	Carbon tetrachloride	ND	ND	nc	30	
75-34-3	1,1-Dichloroethane	ND	ND	nc	30	
75-35-4	1,1-Dichloroethylene	ND	ND	nc	30	
563-58-6	1,1-Dichloropropene	ND	ND	nc	30	
96-12-8	1,2-Dibromo-3-chloropropane	ND	ND	nc	30	
106-93-4	1,2-Dibromoethane	ND	ND	nc	30	
107-06-2	1,2-Dichloroethane	ND	ND	nc	30	
78-87-5	1,2-Dichloropropane	ND	ND	nc	30	
142-28-9	1,3-Dichloropropane	ND	ND	nc	30	
594-20-7	2,2-Dichloropropane	ND	ND	nc	30	
124-48-1	Dibromochloromethane	ND	ND	nc	30	
74-95-3	Dibromomethane	ND	ND	nc	30	
75-71-8	Dichlorodifluoromethane	ND	ND	nc	30	
10061-01-5	cis-1,3-Dichloropropene	ND	ND	nc	30	
541-73-1	m-Dichlorobenzene	ND	ND	nc	30	
95-50-1	o-Dichlorobenzene	ND	ND	nc	30	
106-46-7	p-Dichlorobenzene	ND	ND	nc	30	
156-60-5	trans-1,2-Dichloroethylene	ND	ND	nc	30	
156-59-2	cis-1,2-Dichloroethylene	ND	ND	nc	30	
10061-02-6	trans-1,3-Dichloropropene	ND	ND	nc	30	
100-41-4	Ethylbenzene	ND	ND	nc	30	

Duplicate Summary

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Job Number: M43544

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M43591-1DUP	D40799.D	1	12/06/04	AT	n/a	n/a	MSD2404
M43591-1	D40793.D	1	12/06/04	AT	n/a	n/a	MSD2404

The QC reported here applies to the following samples:

Method: EPA 524.2 REV 4.1

M43544-17, M43544-18, M43544-19, M43544-21

CAS No.	Compound	M43591-1 ug/l	DUP Q ug/l	Q	RPD	Limits
87-68-3	Hexachlorobutadiene	ND	ND	nc		30
98-82-8	Isopropylbenzene	ND	ND	nc		30
99-87-6	p-Isopropyltoluene	ND	ND	nc		30
75-09-2	Methylene chloride	ND	ND	nc		30
1634-04-4	Methyl Tert Butyl Ether	ND	ND	nc		30
91-20-3	Naphthalene	ND	ND	nc		30
103-65-1	n-Propylbenzene	ND	ND	nc		30
100-42-5	Styrene	ND	ND	nc		30
630-20-6	1,1,1,2-Tetrachloroethane	ND	ND	nc		30
71-55-6	1,1,1-Trichloroethane	ND	ND	nc		30
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	nc		30
79-00-5	1,1,2-Trichloroethane	ND	ND	nc		30
87-61-6	1,2,3-Trichlorobenzene	ND	ND	nc		30
96-18-4	1,2,3-Trichloropropane	ND	ND	nc		30
120-82-1	1,2,4-Trichlorobenzene	ND	ND	nc		30
95-63-6	1,2,4-Trimethylbenzene	ND	ND	nc		30
108-67-8	1,3,5-Trimethylbenzene	ND	ND	nc		30
127-18-4	Tetrachloroethylene	ND	ND	nc		30
108-88-3	Toluene	ND	ND	nc		30
79-01-6	Trichloroethylene	ND	ND	nc		30
75-69-4	Trichlorofluoromethane	ND	ND	nc		30
75-01-4	Vinyl chloride	ND	ND	nc		30
	m,p-Xylene	ND	ND	nc		30
95-47-6	o-Xylene	ND	ND	nc		30
1330-20-7	Xylenes (total)	ND	ND	nc		30

CAS No.	Surrogate Recoveries	DUP	M43591-1	Limits
2199-69-1	1,2-Dichlorobenzene-d4	88%	78%	70-130%
460-00-4	4-Bromofluorobenzene	76%	91%	70-130%

Volatile Surrogate Recovery Summary

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Job Number: M43544

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Method: EPA 524.2 REV 4.1

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
M43544-17	D40798.D	76.0	100.0
M43544-18	D40792.D	86.0	94.0
M43544-19	D40791.D	93.0	93.0
M43544-21	D40789.D	85.0	97.0
M43591-1DUP	D40799.D	88.0	76.0
MSD2404-BS	D40785.D	100.0	102.0
MSD2404-MB	D40788.D	84.0	88.0

Surrogate Compounds	Recovery Limits
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S1 = 1,2-Dichlorobenzene-d4	70-130%
S2 = 4-Bromofluorobenzene	70-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

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Job Number: M43544

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GMN1358-MB	MN31155.D	1	12/03/04	AP	n/a	n/a	GMN1358

The QC reported here applies to the following samples:

Method: MADEP VPH REV 1.1

M43544-1, M43544-2, M43544-3, M43544-4, M43544-5, M43544-6, M43544-7, M43544-8, M43544-9, M43544-10, M43544-11, M43544-12, M43544-13, M43544-14, M43544-15, M43544-16

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	3.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	
	C5- C8 Aliphatics (Unadj.)	ND	50	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	ug/l	
	C5- C8 Aliphatics	ND	50	ug/l	
	C9- C12 Aliphatics	ND	50	ug/l	

CAS No.	Surrogate Recoveries		Limits
615-59-8	2,5-Dibromotoluene	99%	70-130%
615-59-8	2,5-Dibromotoluene	88%	70-130%

Method Blank Summary

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Job Number: M43544

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GWX1195-MB	WX25813.D	1	12/04/04	AF	n/a	n/a	GWX1195

The QC reported here applies to the following samples:

Method: MADEP VPH REV 1.1

M43544-24, M43544-25

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	3.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	
	C5- C8 Aliphatics (Unadj.)	ND	50	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	ug/l	
	C5- C8 Aliphatics	ND	50	ug/l	
	C9- C12 Aliphatics	ND	50	ug/l	

CAS No.	Surrogate Recoveries		Limits
615-59-8	2,5-Dibromotoluene	81%	70-130%
615-59-8	2,5-Dibromotoluene	80%	70-130%

Blank Spike/Blank Spike Duplicate Summary

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Job Number: M43544

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GMN1358-BSP	MN31156.D	1	12/03/04	AP	n/a	n/a	GMN1358
GMN1358-BSD	MN31157.D	1	12/03/04	AP	n/a	n/a	GMN1358

The QC reported here applies to the following samples:

Method: MADEP VPH REV 1.1

M43544-1, M43544-2, M43544-3, M43544-4, M43544-5, M43544-6, M43544-7, M43544-8, M43544-9, M43544-10, M43544-11, M43544-12, M43544-13, M43544-14, M43544-15, M43544-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	17.7	89	17.8	89	1	70-130/25
100-41-4	Ethylbenzene	20	20.2	101	20.1	101	0	70-130/25
1634-04-4	Methyl Tert Butyl Ether	60	56.0	93	55.9	93	0	70-130/25
91-20-3	Naphthalene	40	42.2	106	43.0	108	2	70-130/25
108-88-3	Toluene	60	59.4	99	59.9	100	1	70-130/25
	m,p-Xylene	80	84.8	106	85.6	107	1	70-130/25
95-47-6	o-Xylene	40	39.6	99	40.0	100	1	70-130/25
	C5- C8 Aliphatics (Unadj.)		290		292		1	70-130/25
	C9- C12 Aliphatics (Unadj.)		384		380		1	70-130/25
	C9- C10 Aromatics (Unadj.)		96.7		97.4		1	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
615-59-8	2,5-Dibromotoluene	119%	121%	70-130%
615-59-8	2,5-Dibromotoluene	105%	111%	70-130%

Blank Spike/Blank Spike Duplicate Summary

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Job Number: M43544

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GWX1195-BSP	WX25814.D	1	12/04/04	AF	n/a	n/a	GWX1195
GWX1195-BSD	WX25815.D	1	12/04/04	AF	n/a	n/a	GWX1195

The QC reported here applies to the following samples:

Method: MADEP VPH REV 1.1

M43544-24, M43544-25

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	18.8	94	19.1	96	2	70-130/25
100-41-4	Ethylbenzene	20	19.5	98	19.5	98	0	70-130/25
1634-04-4	Methyl Tert Butyl Ether	60	56.9	95	57.9	97	2	70-130/25
91-20-3	Naphthalene	40	33.4	84	33.7	84	1	70-130/25
108-88-3	Toluene	60	58.5	98	58.8	98	1	70-130/25
95-47-6	m,p-Xylene	80	75.8	95	75.1	94	1	70-130/25
	o-Xylene	40	37.0	93	36.5	91	1	70-130/25
	C5- C8 Aliphatics (Unadj.)		311		312		0	70-130/25
	C9- C12 Aliphatics (Unadj.)		292		290		1	70-130/25
	C9- C10 Aromatics (Unadj.)		100		99.8		0	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
615-59-8	2,5-Dibromotoluene	87%	86%	70-130%
615-59-8	2,5-Dibromotoluene	87%	88%	70-130%

Volatile Surrogate Recovery Summary

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Job Number: M43544

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Method: MADEP VPH REV 1.1

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 ^a	S1 ^b
M43544-1	MN31162.D	114.0	99.0
M43544-2	MN31163.D	112.0	96.0
M43544-3	MN31164.D	119.0	102.0
M43544-4	MN31165.D	120.0	102.0
M43544-5	MN31166.D	111.0	94.0
M43544-6	MN31167.D	112.0	95.0
M43544-7	MN31168.D	116.0	100.0
M43544-8	MN31169.D	114.0	96.0
M43544-9	MN31170.D	120.0	102.0
M43544-10	MN31171.D	109.0	92.0
M43544-11	MN31172.D	110.0	94.0
M43544-12	MN31173.D	110.0	95.0
M43544-13	MN31174.D	115.0	98.0
M43544-14	MN31175.D	111.0	99.0
M43544-15	MN31176.D	126.0	103.0
M43544-16	MN31177.D	120.0	101.0
M43544-24	WX25830.D	85.0	84.0
M43544-25	WX25831.D	83.0	83.0
GMN1358-BSD	MN31157.D	121.0	111.0
GMN1358-BSP	MN31156.D	119.0	105.0
GMN1358-MB	MN31155.D	99.0	88.0
GWX1195-BSD	WX25815.D	86.0	88.0
GWX1195-BSP	WX25814.D	87.0	87.0
GWX1195-MB	WX25813.D	81.0	80.0

Surrogate Compounds Recovery Limits

S1 = 2,5-Dibromotoluene 70-130%

(a) Recovery from GC signal #1

(b) Recovery from GC signal #2

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M43544
Account: EXXONSS - Exxon Service Station
Project: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6398
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 12/06/04

Metal	RL	IDL	MB	
			raw	final
Aluminum	200	8.1		
Antimony	6.0	1.7		
Arsenic	5.0	2.2		
Barium	200	.64		
Beryllium	4.0	.12		
Boron	100	.88		
Cadmium	4.0	.3		
Calcium	5000	2.3		
Chromium	10	.26		
Cobalt	50	.81		
Copper	25	.47		
Iron	100	9.7		
Lead	5.0	1.5	-0.16	<5.0
Magnesium	5000	4.8		
Manganese	15	.15		
Molybdenum	100	.63		
Nickel	40	.61		
Potassium	5000	31		
Selenium	10	1.2		
Silver	5.0	.31		
Sodium	5000	150		
Strontium	10	.25		
Thallium	10	3		
Tin	100	4		
Titanium	50	.57		
Vanadium	50	1.4		
Zinc	20	.75		

Associated samples MP6398: M43544-22, M43544-23

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M43544
 Account: EXXONSS - Exxon Service Station
 Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6398
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 12/06/04 12/06/04

Metal	M43544-23 Original MS		Spikelot MPIRWS2	% Rec	QC Limits	M43544-22 Original DUP		RPD	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	0.0	963	1000	96.3	75-125	3.7	3.8	2.7	0-20
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP6398: M43544-22, M43544-23

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M43544
 Account: EXXONSS - Exxon Service Station
 Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6398
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 12/06/04 12/06/04

Metal	BSP Result	Spikelot MPIRWS2	% Rec	QC Limits	BSD Result	Spikelot MPIRWS2	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	978	1000	97.8	80-120	958	1000	95.8	2.1	
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP6398: M43544-22, M43544-23

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: M43544
 Account: EXXONSS - Exxon Service Station
 Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6398
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 12/06/04

Metal	M43544-23	Original	SDL 1:5	RPD	QC	Limits
-------	-----------	----------	---------	-----	----	--------

Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead	0.00	0.00	NC		0-10	
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP6398: M43544-22, M43544-23

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

6.1.4
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General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

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METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M43544
Account: EXXONSS - Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Color, Apparent	GN15387	5	<5	CU				
Petroleum Hydrocarbons	GP5079/GN15422	0.60	<0.60	mg/l	5	5.0	100.0	80-120%
Solids, Total Suspended	GN15380	4.0	<4.0	mg/l				
Turbidity	GN15391	0.50	<0.50	NTU				

Associated Samples:

Batch GN15380: M43544-22, M43544-23
Batch GN15387: M43544-22, M43544-23
Batch GN15391: M43544-22, M43544-23
Batch GP5079: M43544-22, M43544-23

7.1
7

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M43544
Account: EXXONSS - Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Color, Apparent	GN15387	M43544-23	CU	<5	<5	0.0	0-20%
Petroleum Hydrocarbons	GP5079/GN15422	M43544-22	mg/l	<0.61	<0.61	0.0	0-20%
Solids, Total Suspended	GN15380	M43487-1	mg/l	<4.0	<4.0	0.0	0-20%
Turbidity	GN15391	M43544-23	NTU	<0.50	<0.50	0.0	0-20%

Associated Samples:

Batch GN15380: M43544-22, M43544-23
Batch GN15387: M43544-22, M43544-23
Batch GN15391: M43544-22, M43544-23
Batch GP5079: M43544-22, M43544-23

7.2
7

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M43544
Account: EXXONSS - Exxon Service Station
Project: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Petroleum Hydrocarbons	GP5079/GN15422	M43544-23	mg/l	<0.61	5.1	5.4	105.9	75-125%

Associated Samples:
Batch GP5079: M43544-22, M43544-23

7.3
7

Technical Report for

Exxon Service Station

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Accutest Job Number: M43822

Sampling Date: 12/14/04

Report to:

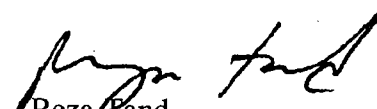
Camp Dresser & McKee
50 Hampshire Avenue
Cambridge, MA 02139

ATTN: Jon Welch

Total number of pages in report: 52



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Reza Fand
Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579)
NY (23346) NJ (MA926) NAVY USACE

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SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Exxon Service Station

Job No: M43822

Site: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Report Date 12/30/2004 11:24:46 A

12 Samples and 1 Trip Blank were collected on 12/14/2004 and were received at Accutest on 12/14/2004 properly preserved, at 1.5 Deg. C and intact. These Samples received an Accutest job number of M43822. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method EPA 524.2 REV 4.1

Matrix: AQ

Batch ID: MSD2413

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M43822-2DUP were used as the QC samples indicated.

Volatiles by GCMS By Method EPA 624

Matrix: AQ

Batch ID: MSA1676

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M43822-10MS, M43822-10MSD were used as the QC samples indicated.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Methyl Tert Butyl Ether are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Only BTX and MTBE requested.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP6449

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M43863-1MS, M43863-1SDL, M43863-1DUP were used as the QC samples for metals.
- RPD(s) for Duplicate for Lead are outside control limits for sample MP6449-D1. RPD acceptable due to low duplicate and sample concentrations.

Wet Chemistry By Method EPA 110.2

Matrix: AQ

Batch ID: GN15482

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M43822-5DUP were used as the QC samples for Color, Apparent.

Wet Chemistry By Method EPA 160.2

Matrix: AQ

Batch ID: GN15499

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M43822-5DUP were used as the QC samples for Solids, Total Suspended.

Wet Chemistry By Method EPA 180.1

Matrix: AQ

Batch ID: GN15483

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M43822-5DUP were used as the QC samples for Turbidity.

Wet Chemistry By Method EPA 418.1

Matrix: AQ

Batch ID: GP5108

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M43822-13DUP, M43822-5MS were used as the QC samples for Petroleum Hydrocarbons.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M43822).



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-CAM

Exhibit VII A-1

21 May 2004

Revision No. 3.2

Final

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Title: MADEP MCP Response Action Analytical Report Certification Form

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Accutest Laboratories of New England

Project #: M43822

Project Location: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

MADEP RTN 1 None

This form provides certifications for the following data set:

M43822-10, M43822-11, M43822-12, M43822-13, M43822-2, M43822-3, M43822-4, M43822-5
M43822-6, M43822-7, M43822-8

Test Method: EPA 524.2 REV 4.1, 624, 110.2, 160.2, 180.1, 418.1, and below

Sample Matrices: Groundwater Soil/Sediment () Drinking Water X Other: () ()

MCP SW-846 8260B () 8151A () 8330 () 6010B (X) 7470A/1A ()

Methods Used 8270C () 8081A () VPH () 6020 () 9014M² ()

As specified in MADEP 8082 () 8021B () EPH () 7000 S³ () 7196A ()

Completion of 1. USE Release Tracking Number (RTN) Unknown

Analytical Methods 2. M-SW-846 Method 9014 for MADEP Physiologically Available Cyanide (PAC) Method

(Check all that apply) 3. S-SW-846 Methods 7000 Series (use individual method and analyte)

An affirmative response to questions A, B, C, and D is required for "Presumptive Certainty status"

A Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set? ☒ Yes ☐ No¹

B Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? ☒ Yes ☐ No¹

C Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? ☒ Yes ☐ No¹

D VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3? ☒ Yes ☐ No¹

A response to questions E and F below is required for "Presumptive Certainty" status

E Were all QC performance standards and recommendations for the specified methods achieved? ☒ Yes ☐ No¹

F Were results for all analyte-list compounds/elements for the specified method(s) reported? ☐ Yes ☒ No¹

All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:

Position: Laboratory Director

Printed Name: Reza Tand

Date: 12/30/2004

Sample Summary

Exxon Service Station

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Job No: M43822

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
M43822-1	12/14/04	10:30 RMB	12/14/04	DW Drinking Water Eff	POET EFF (DUP)
M43822-2	12/14/04	10:30 RMB	12/14/04	DW Drinking Water Eff	POET EFF
M43822-3	12/14/04	10:40 RMB	12/14/04	DW Drinking Water	POET MID
M43822-4	12/14/04	10:45 RMB	12/14/04	DW Drinking Water Inf	POET INF
M43822-5	12/14/04	11:00 RMB	12/14/04	AQ Effluent3	GAC 3 EFF
M43822-6	12/14/04	11:10 RMB	12/14/04	AQ Effluent2	GAC 2 EFF
M43822-7	12/14/04	12:40 RMB	12/14/04	AQ Effluent1	GAC 1 EFF
M43822-8	12/14/04	12:15 RMB	12/14/04	DW Drinking Water	593 MIDDLE RD
M43822-9	12/14/04	12:15 RMB	12/14/04	DW Drinking Water	593 MIDDLE RD (DUP)
M43822-10	12/14/04	13:10 RMB	12/14/04	AQ Effluent	AS EFF
M43822-11	12/14/04	12:55 RMB	12/14/04	AQ Influent	AS INF
M43822-12	12/14/04	00:00 RMB	12/14/04	DW Drinking Water TB	TRIP BLANK
M43822-13	12/14/04	12:00 RMB	12/14/04	AQ Influent	INF

Report of Analysis

Page 1 of 1

Client Sample ID:	INF	Date Sampled:	12/14/04
Lab Sample ID:	M43822-13	Date Received:	12/14/04
Matrix:	AQ - Influent	Percent Solids:	n/a
Method:	EPA 624		
Project:	CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A50272.D	10	12/20/04	AMY	n/a	n/a	MSA1676
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	5.0	5.0	ug/l	
108-88-3	Toluene	85.0	10	ug/l	
100-41-4	Ethylbenzene	101	10	ug/l	
1330-20-7	Xylenes (total)	618	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1370	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	88%		80-127%
2037-26-5	Toluene-D8 (SUR)	99%		85-114%
460-00-4	4-Bromofluorobenzene (SUR)	93%		85-114%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: INF	
Lab Sample ID: M43822-13	Date Sampled: 12/14/04
Matrix: AQ - Influent	Date Received: 12/14/04
	Percent Solids: n/a
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	<5.0	5.0	ug/l	1	12/16/04	12/20/04 LMN	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA5348

(2) Prep QC Batch: MP6449

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: INF	Date Sampled: 12/14/04
Lab Sample ID: M43822-13	Date Received: 12/14/04
Matrix: AQ - Influent	Percent Solids: n/a
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Color, Apparent	30	5	CU	1	12/14/04 15:25	MA	EPA 110.2
Petroleum Hydrocarbons	<0.61	0.61	mg/l	1	12/15/04	BF	EPA 418.1
Solids, Total Suspended	<4.0	4.0	mg/l	1	12/16/04	BF	EPA 160.2
Turbidity	8.2	0.50	NTU	1	12/14/04 15:45	MA	EPA 180.1

RL = Reporting Limit

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 2

Job Number: M43822

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2413-MB	D40960.D	1	12/15/04	AT	n/a	n/a	MSD2413

The QC reported here applies to the following samples:

Method: EPA 524.2 REV 4.1

M43822-2, M43822-3, M43822-4, M43822-8, M43822-12

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	0.50	ug/l	
74-97-5	Bromochloromethane	ND	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
74-83-9	Bromomethane	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
74-87-3	Chloromethane	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
74-95-3	Dibromomethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	0.50	ug/l	

Method Blank Summary

Page 2 of 2

Job Number: M43822

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2413-MB	D40960.D	1	12/15/04	AT	n/a	n/a	MSD2413

The QC reported here applies to the following samples:

Method: EPA 524.2 REV 4.1

M43822-2, M43822-3, M43822-4, M43822-8, M43822-12

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	ug/l	
75-09-2	Methylene chloride	ND	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.50	ug/l	
91-20-3	Naphthalene	ND	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	ug/l	
100-42-5	Styrene	ND	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	ug/l	
108-88-3	Toluene	ND	0.50	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
	m,p-Xylene	ND	0.50	ug/l	
95-47-6	o-Xylene	ND	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	0.50	ug/l	

CAS No.	Surrogate Recoveries	Limits
2199-69-1	1,2-Dichlorobenzene-d4	85% 70-130%
460-00-4	4-Bromofluorobenzene	89% 70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Page 1 of 2

Job Number: M43822

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2413-BS	D40957.D	1	12/15/04	AT	n/a	n/a	MSD2413

The QC reported here applies to the following samples:

Method: EPA 524.2 REV 4.1

M43822-2, M43822-3, M43822-4, M43822-8, M43822-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	5	4.9	98	70-130
108-86-1	Bromobenzene	5	4.9	98	70-130
74-97-5	Bromochloromethane	5	4.9	98	70-130
75-27-4	Bromodichloromethane	5	5.0	100	70-130
75-25-2	Bromoform	5	4.7	94	70-130
74-83-9	Bromomethane	5	4.1	82	70-130
104-51-8	n-Butylbenzene	5	5.1	102	70-130
135-98-8	sec-Butylbenzene	5	4.8	96	70-130
98-06-6	tert-Butylbenzene	5	5.0	100	70-130
108-90-7	Chlorobenzene	5	4.6	92	70-130
75-00-3	Chloroethane	5	4.0	80	70-130
67-66-3	Chloroform	5	5.0	100	70-130
74-87-3	Chloromethane	5	5.2	104	70-130
95-49-8	o-Chlorotoluene	5	5.0	100	70-130
106-43-4	p-Chlorotoluene	5	5.0	100	70-130
56-23-5	Carbon tetrachloride	5	5.3	106	70-130
75-34-3	1,1-Dichloroethane	5	4.8	96	70-130
75-35-4	1,1-Dichloroethylene	5	5.7	114	70-130
563-58-6	1,1-Dichloropropene	5	5.6	112	70-130
96-12-8	1,2-Dibromo-3-chloropropane	5	5.4	108	70-130
106-93-4	1,2-Dibromoethane	5	4.8	96	70-130
107-06-2	1,2-Dichloroethane	5	5.2	104	70-130
78-87-5	1,2-Dichloropropane	5	4.9	98	70-130
142-28-9	1,3-Dichloropropane	5	4.6	92	70-130
594-20-7	2,2-Dichloropropane	5	5.0	100	70-130
124-48-1	Dibromochloromethane	5	4.8	96	70-130
74-95-3	Dibromomethane	5	4.9	98	70-130
75-71-8	Dichlorodifluoromethane	5	4.2	84	70-130
10061-01-5	cis-1,3-Dichloropropene	5	4.7	94	70-130
541-73-1	m-Dichlorobenzene	5	4.6	92	70-130
95-50-1	o-Dichlorobenzene	5	4.6	92	70-130
106-46-7	p-Dichlorobenzene	5	5.0	100	70-130
156-60-5	trans-1,2-Dichloroethylene	5	5.7	114	70-130
156-59-2	cis-1,2-Dichloroethylene	5	4.9	98	70-130
10061-02-6	trans-1,3-Dichloropropene	5	5.2	104	70-130
100-41-4	Ethylbenzene	5	5.1	102	70-130

Blank Spike Summary

Page 2 of 2

Job Number: M43822
Account: EXXONSS Exxon Service Station
Project: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2413-BS	D40957.D	1	12/15/04	AT	n/a	n/a	MSD2413

The QC reported here applies to the following samples:

Method: EPA 524.2 REV 4.1

M43822-2, M43822-3, M43822-4, M43822-8, M43822-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	5	4.6	92	70-130
98-82-8	Isopropylbenzene	5	5.2	104	70-130
99-87-6	p-Isopropyltoluene	5	5.1	102	70-130
75-09-2	Methylene chloride	5	4.5	90	70-130
1634-04-4	Methyl Tert Butyl Ether	5	5.5	110	70-130
91-20-3	Naphthalene	5	4.5	90	70-130
103-65-1	n-Propylbenzene	5	5.0	100	70-130
100-42-5	Styrene	5	4.9	98	70-130
630-20-6	1,1,1,2-Tetrachloroethane	5	4.9	98	70-130
71-55-6	1,1,1-Trichloroethane	5	5.4	108	70-130
79-34-5	1,1,2,2-Tetrachloroethane	5	4.8	96	70-130
79-00-5	1,1,2-Trichloroethane	5	4.7	94	70-130
87-61-6	1,2,3-Trichlorobenzene	5	4.4	88	70-130
96-18-4	1,2,3-Trichloropropane	5	4.7	94	70-130
120-82-1	1,2,4-Trichlorobenzene	5	4.7	94	70-130
95-63-6	1,2,4-Trimethylbenzene	5	4.8	96	70-130
108-67-8	1,3,5-Trimethylbenzene	5	5.0	100	70-130
127-18-4	Tetrachloroethylene	5	4.7	94	70-130
108-88-3	Toluene	5	4.5	90	70-130
79-01-6	Trichloroethylene	5	5.0	100	70-130
75-69-4	Trichlorofluoromethane	5	5.4	108	70-130
75-01-4	Vinyl chloride	5	4.5	90	70-130
	m,p-Xylene	10	8.9	89	70-130
95-47-6	o-Xylene	5	4.9	98	70-130
1330-20-7	Xylenes (total)	15	13.8	92	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
2199-69-1	1,2-Dichlorobenzene-d4	116%	70-130%
460-00-4	4-Bromofluorobenzene	100%	70-130%

Duplicate Summary

Page 1 of 2

Job Number: M43822

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M43822-2DUP	D40968.D	1	12/15/04	AT	n/a	n/a	MSD2413
M43822-2	D40967.D	1	12/15/04	AT	n/a	n/a	MSD2413

The QC reported here applies to the following samples:

Method: EPA 524.2 REV 4.1

M43822-2, M43822-3, M43822-4, M43822-8, M43822-12

CAS No.	Compound	M43822-2 ug/l	DUP Q ug/l	Q	RPD	Limits
71-43-2	Benzene	ND	ND	nc		30
108-86-1	Bromobenzene	ND	ND	nc		30
74-97-5	Bromochloromethane	ND	ND	nc		30
75-27-4	Bromodichloromethane	ND	ND	nc		30
75-25-2	Bromoform	ND	ND	nc		30
74-83-9	Bromomethane	ND	ND	nc		30
104-51-8	n-Butylbenzene	ND	ND	nc		30
135-98-8	sec-Butylbenzene	ND	ND	nc		30
98-06-6	tert-Butylbenzene	ND	ND	nc		30
108-90-7	Chlorobenzene	ND	ND	nc		30
75-00-3	Chloroethane	ND	ND	nc		30
67-66-3	Chloroform	0.44	0.46	J 4		30
74-87-3	Chloromethane	ND	ND	nc		30
95-49-8	o-Chlorotoluene	ND	ND	nc		30
106-43-4	p-Chlorotoluene	ND	ND	nc		30
56-23-5	Carbon tetrachloride	ND	ND	nc		30
75-34-3	1,1-Dichloroethane	ND	ND	nc		30
75-35-4	1,1-Dichloroethylene	ND	ND	nc		30
563-58-6	1,1-Dichloropropene	ND	ND	nc		30
96-12-8	1,2-Dibromo-3-chloropropane	ND	ND	nc		30
106-93-4	1,2-Dibromoethane	ND	ND	nc		30
107-06-2	1,2-Dichloroethane	ND	ND	nc		30
78-87-5	1,2-Dichloropropane	ND	ND	nc		30
142-28-9	1,3-Dichloropropane	ND	ND	nc		30
594-20-7	2,2-Dichloropropane	ND	ND	nc		30
124-48-1	Dibromochloromethane	ND	ND	nc		30
74-95-3	Dibromomethane	ND	ND	nc		30
75-71-8	Dichlorodifluoromethane	ND	ND	nc		30
10061-01-5	cis-1,3-Dichloropropene	ND	ND	nc		30
541-73-1	m-Dichlorobenzene	ND	ND	nc		30
95-50-1	o-Dichlorobenzene	ND	ND	nc		30
106-46-7	p-Dichlorobenzene	ND	ND	nc		30
156-60-5	trans-1,2-Dichloroethylene	ND	ND	nc		30
156-59-2	cis-1,2-Dichloroethylene	ND	ND	nc		30
10061-02-6	trans-1,3-Dichloropropene	ND	ND	nc		30
100-41-4	Ethylbenzene	ND	ND	nc		30

Duplicate Summary

Page 2 of 2

Job Number: M43822

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M43822-2DUP	D40968.D	1	12/15/04	AT	n/a	n/a	MSD2413
M43822-2	D40967.D	1	12/15/04	AT	n/a	n/a	MSD2413

The QC reported here applies to the following samples:

Method: EPA 524.2 REV 4.1

M43822-2, M43822-3, M43822-4, M43822-8, M43822-12

CAS No.	Compound	M43822-2		Q	RPD	Limits
		ug/l	DUP ug/l			
87-68-3	Hexachlorobutadiene	ND	ND	nc		30
98-82-8	Isopropylbenzene	ND	ND	nc		30
99-87-6	p-Isopropyltoluene	ND	ND	nc		30
75-09-2	Methylene chloride	ND	ND	nc		30
1634-04-4	Methyl Tert Butyl Ether	ND	ND	nc		30
91-20-3	Naphthalene	ND	ND	nc		30
103-65-1	n-Propylbenzene	ND	ND	nc		30
100-42-5	Styrene	ND	ND	nc		30
630-20-6	1,1,1,2-Tetrachloroethane	ND	ND	nc		30
71-55-6	1,1,1-Trichloroethane	ND	ND	nc		30
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	nc		30
79-00-5	1,1,2-Trichloroethane	ND	ND	nc		30
87-61-6	1,2,3-Trichlorobenzene	ND	ND	nc		30
96-18-4	1,2,3-Trichloropropane	ND	ND	nc		30
120-82-1	1,2,4-Trichlorobenzene	ND	ND	nc		30
95-63-6	1,2,4-Trimethylbenzene	ND	ND	nc		30
108-67-8	1,3,5-Trimethylbenzene	ND	ND	nc		30
127-18-4	Tetrachloroethylene	ND	ND	nc		30
108-88-3	Toluene	ND	ND	nc		30
79-01-6	Trichloroethylene	ND	ND	nc		30
75-69-4	Trichlorofluoromethane	ND	ND	nc		30
75-01-4	Vinyl chloride	ND	ND	nc		30
	m,p-Xylene	ND	ND	nc		30
95-47-6	o-Xylene	ND	ND	nc		30
1330-20-7	Xylenes (total)	ND	ND	nc		30

CAS No.	Surrogate Recoveries	DUP	M43822-2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	79%	100%	70-130%
460-00-4	4-Bromofluorobenzene	106%	101%	70-130%

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: M43822

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Method: EPA 524.2 REV 4.1

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
M43822-2	D40967.D	100.0	101.0
M43822-3	D40970.D	76.0	101.0
M43822-4	D40971.D	84.0	88.0
M43822-8	D40969.D	91.0	98.0
M43822-12	D40962.D	87.0	92.0
M43822-2DUP	D40968.D	79.0	106.0
MSD2413-BS	D40957.D	116.0	100.0
MSD2413-MB	D40960.D	85.0	89.0

Surrogate
Compounds

Recovery
Limits

S1 = 1,2-Dichlorobenzene-d4

70-130%

S2 = 4-Bromofluorobenzene

70-130%

Method Blank Summary

Page 1 of 1

Job Number: M43822

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSA1676-MB	A50267.D	1	12/20/04	AMY	n/a	n/a	MSA1676

The QC reported here applies to the following samples:

Method: EPA 624

M43822-5, M43822-6, M43822-7, M43822-10, M43822-11, M43822-13

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	89% 80-127%
2037-26-5	Toluene-D8 (SUR)	104% 85-114%
460-00-4	4-Bromofluorobenzene (SUR)	87% 85-114%

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: M43822

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSA1676-BS	A50265.D	1	12/20/04	AMY	n/a	n/a	MSA1676
MSA1676-BSD	A50268.D	1	12/20/04	AMY	n/a	n/a	MSA1676

The QC reported here applies to the following samples:

Method: EPA 624

M43822-5, M43822-6, M43822-7, M43822-10, M43822-11, M43822-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	20.0	100	15.7	79	24	37-151/30
100-41-4	Ethylbenzene	20	21.3	107	15.9	80	29	37-162/30
1634-04-4	Methyl Tert Butyl Ether	20	23.2	116	18.5	93	23	62-147/30
108-88-3	Toluene	20	19.1	96	14.6	73	27	47-150/30
1330-20-7	Xylenes (total)	60	73.2	122	57.3	96	24	73-139/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	94%	84%	80-127%
2037-26-5	Toluene-D8 (SUR)	96%	89%	85-114%
460-00-4	4-Bromofluorobenzene (SUR)	96%	96%	85-114%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: M43822

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M43822-10MS	A50278.D	5	12/20/04	AMY	n/a	n/a	MSA1676
M43822-10MSDA50279.D		5	12/20/04	AMY	n/a	n/a	MSA1676
M43822-10	A50277.D	1	12/20/04	AMY	n/a	n/a	MSA1676

The QC reported here applies to the following samples:

Method: EPA 624

M43822-5, M43822-6, M43822-7, M43822-10, M43822-11, M43822-13

CAS No.	Compound	M43822-10 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	100	97.3	97	103	103	6	37-151/30
100-41-4	Ethylbenzene	ND	100	104	104	104	104	0	37-162/30
1634-04-4	Methyl Tert Butyl Ether	416	100	409	7* a	417	1* a	2	48-150/39
108-88-3	Toluene	ND	100	94.6	95	93.8	94	1	47-150/30
1330-20-7	Xylenes (total)	3.4	300	317	105	292	96	8	66-144/38

CAS No.	Surrogate Recoveries	MS	MSD	M43822-10	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	101%	90%	96%	80-127%
2037-26-5	Toluene-D8 (SUR)	97%	105%	101%	85-114%
460-00-4	4-Bromofluorobenzene (SUR)	92%	102%	89%	85-114%

(a) Outside control limits due to high level in sample relative to spike amount.

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: M43822

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Method: EPA 624

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M43822-5	A50274.D	90.0	92.0	91.0
M43822-6	A50275.D	93.0	97.0	90.0
M43822-7	A50276.D	87.0	99.0	91.0
M43822-10	A50277.D	96.0	101.0	89.0
M43822-11	A50271.D	93.0	99.0	90.0
M43822-13	A50272.D	88.0	99.0	93.0
M43822-10MS	A50278.D	101.0	97.0	92.0
M43822-10MSD	A50279.D	90.0	105.0	102.0
MSA1676-BS	A50265.D	94.0	96.0	96.0
MSA1676-BSD	A50268.D	84.0	89.0	96.0
MSA1676-MB	A50267.D	89.0	104.0	87.0

Surrogate
Compounds

Recovery
Limits

S1 = 1,2-Dichloroethane-D4 (SUR) 80-127%
S2 = Toluene-D8 (SUR) 85-114%
S3 = 4-Bromofluorobenzene (SUR) 85-114%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M43822
Account: EXXONSS - Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6449
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 12/16/04

Metal	RL	IDL	MB raw	final
Aluminum	200	8.1		
Antimony	6.0	1.7	anr	
Arsenic	5.0	2.2	anr	
Barium	200	.64	anr	
Beryllium	4.0	.12	anr	
Boron	100	.88		
Cadmium	4.0	.3	anr	
Calcium	5000	2.3		
Chromium	10	.26	anr	
Cobalt	50	.81		
Copper	25	.47		
Iron	100	9.7		
Lead	5.0	1.5	-0.59	<5.0
Magnesium	5000	4.8		
Manganese	15	.15		
Molybdenum	100	.63		
Nickel	40	.61	anr	
Potassium	5000	31		
Selenium	10	1.2	anr	
Silver	5.0	.31	anr	
Sodium	5000	150		
Strontium	10	.25		
Thallium	10	3	anr	
Tin	100	4		
Titanium	50	.57		
Vanadium	50	1.4	anr	
Zinc	20	.75	anr	

Associated samples MP6449: M43822-5, M43822-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M43822
 Account: EXXONSS - Exxon Service Station
 Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6449
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 12/16/04 12/16/04

Metal	M43863-1 Original MS	Spikelot MPIRWS2	% Rec	QC Limits	M43863-1 Original DUP	RPD	QC Limits
Aluminum							
Antimony	anr						
Arsenic	anr						
Barium	anr						
Beryllium	anr						
Boron							
Cadmium	anr						
Calcium							
Chromium	anr						
Cobalt							
Copper							
Iron							
Lead	0.0	980	1000	98.0	75-125	0.0	1.5
Magnesium						200.0(a)	0-20
Manganese							
Molybdenum							
Nickel	anr						
Potassium							
Selenium	anr						
Silver	anr						
Sodium							
Strontium							
Thallium	anr						
Tin							
Titanium							
Vanadium	anr						
Zinc	anr						

Associated samples MP6449: M43822-5, M43822-13

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested
 (a) RPD acceptable due to low duplicate and sample concentrations.

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: M44377

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSA1687-BS	A50625.D	1	01/12/05	AMY	n/a	n/a	MSA1687
MSA1687-BSD	A50626.D	1	01/12/05	AMY	n/a	n/a	MSA1687

The QC reported here applies to the following samples:

Method: EPA 624

M44377-1, M44377-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	26.7	134	25.4	127	5	37-151/30
100-41-4	Ethylbenzene	20	24.8	124	24.4	122	2	37-162/30
1634-04-4	Methyl Tert Butyl Ether	20	14.8	74	13.8	69	7	62-147/30
108-88-3	Toluene	20	26.5	133	25.1	126	5	47-150/30
1330-20-7	Xylenes (total)	60	60.2	100	62.7	105	4	73-139/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	99%	101%	80-127%
2037-26-5	Toluene-D8 (SUR)	106%	105%	85-114%
460-00-4	4-Bromofluorobenzene (SUR)	100%	107%	85-114%

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: M44377

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSA1689-BS	A50682.D	1	01/17/05	AMY	n/a	n/a	MSA1689
MSA1689-BSD	A50683.D	1	01/17/05	AMY	n/a	n/a	MSA1689

The QC reported here applies to the following samples:

Method: EPA 624

M44377-2, M44377-3, M44377-4, M44377-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	18.9	95	20.3	102	7	37-151/30
100-41-4	Ethylbenzene	20	19.9	100	21.3	107	7	37-162/30
1634-04-4	Methyl Tert Butyl Ether	20	25.9	130	25.3	127	2	62-147/30
108-88-3	Toluene	20	19.5	98	21.0	105	7	47-150/30
1330-20-7	Xylenes (total)	60	60.8	101	61.9	103	2	73-139/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	100%	107%	80-127%
2037-26-5	Toluene-D8 (SUR)	96%	101%	85-114%
460-00-4	4-Bromofluorobenzene (SUR)	97%	93%	85-114%

Method Blank Summary

Page 1 of 1

Job Number: M44377

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSA1687-MB	A50628.D	1	01/12/05	AMY	n/a	n/a	MSA1687

The QC reported here applies to the following samples:

Method: EPA 624

M44377-1, M44377-6

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	94% 80-127%
2037-26-5	Toluene-D8 (SUR)	108% 85-114%
460-00-4	4-Bromofluorobenzene (SUR)	98% 85-114%

Method Blank Summary

Page 1 of 1

Job Number: M44377

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSA1689-MB	A50685.D	1	01/17/05	AMY	n/a	n/a	MSA1689

The QC reported here applies to the following samples:

Method: EPA 624

M44377-2, M44377-3, M44377-4, M44377-5

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	100% 80-127%
2037-26-5	Toluene-D8 (SUR)	100% 85-114%
460-00-4	4-Bromofluorobenzene (SUR)	89% 85-114%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: M44377

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M44370-8MS	A50642.D	5	01/13/05	AMY	n/a	n/a	MSA1687
M44370-8MSD	A50643.D	5	01/13/05	AMY	n/a	n/a	MSA1687
M44370-8	A50641.D	1	01/13/05	AMY	n/a	n/a	MSA1687

The QC reported here applies to the following samples:

Method: EPA 624

M44377-1, M44377-6

CAS No.	Compound	M44370-8 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	0.78	100	144	143	123	122	16	37-151/30
100-41-4	Ethylbenzene	ND	100	139	139	111	111	22	37-162/30
1634-04-4	Methyl Tert Butyl Ether	7.1	100	119	112	84.7	78	34	48-150/39
108-88-3	Toluene	ND	100	136	136	122	122	11	47-150/30
1330-20-7	Xylenes (total)	ND	300	448	149* a	356	119	23	66-144/38

CAS No.	Surrogate Recoveries	MS	MSD	M44370-8	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	105%	103%	109%	80-127%
2037-26-5	Toluene-D8 (SUR)	105%	112%	105%	85-114%
460-00-4	4-Bromofluorobenzene (SUR)	109%	103%	101%	85-114%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: M44377

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M44479-1MS	A50698.D	5	01/18/05	AMY	n/a	n/a	MSA1689
M44479-1MSD	A50699.D	5	01/18/05	AMY	n/a	n/a	MSA1689
M44479-1	A50690.D	1	01/17/05	AMY	n/a	n/a	MSA1689

The QC reported here applies to the following samples:

Method: EPA 624

M44377-2, M44377-3, M44377-4, M44377-5

CAS No.	Compound	M44479-1 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	100	94.7	95	102	102	7	37-151/30
100-41-4	Ethylbenzene	ND	100	116	116	105	105	10	37-162/30
1634-04-4	Methyl Tert Butyl Ether	ND	100	112	112	129	129	14	48-150/39
108-88-3	Toluene	ND	100	92.1	92	91.9	92	0	47-150/30
1330-20-7	Xylenes (total)	ND	300	297	99	305	102	3	66-144/38

CAS No.	Surrogate Recoveries	MS	MSD	M44479-1	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	94%	107%	106%	80-127%
2037-26-5	Toluene-D8 (SUR)	94%	108%	100%	85-114%
460-00-4	4-Bromofluorobenzene (SUR)	93%	98%	87%	85-114%

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: M44377

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Method: EPA 624

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M44377-1	A50648.D	100.0	109.0	97.0
M44377-1	A50645.D	103.0	96.0	98.0
M44377-2	A50696.D	111.0	95.0	91.0
M44377-3	A50701.D	101.0	94.0	88.0
M44377-3	A50697.D	104.0	103.0	105.0
M44377-4	A50694.D	102.0	96.0	92.0
M44377-5	A50695.D	99.0	100.0	85.0
M44377-6	A50644.D	102.0	103.0	94.0
M44370-8MS	A50642.D	105.0	105.0	109.0
M44370-8MSD	A50643.D	103.0	112.0	103.0
M44479-1MS	A50698.D	94.0	94.0	93.0
M44479-1MSD	A50699.D	107.0	108.0	98.0
MSA1687-BS	A50625.D	99.0	106.0	100.0
MSA1687-BSD	A50626.D	101.0	105.0	107.0
MSA1687-MB	A50628.D	94.0	108.0	98.0
MSA1689-BS	A50682.D	100.0	96.0	97.0
MSA1689-BSD	A50683.D	107.0	101.0	93.0
MSA1689-MB	A50685.D	100.0	100.0	89.0

Surrogate Compounds	Recovery Limits
------------------------	--------------------

S1 = 1,2-Dichloroethane-D4 (SUR)	80-127%
S2 = Toluene-D8 (SUR)	85-114%
S3 = 4-Bromofluorobenzene (SUR)	85-114%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M44377
Account: EXXONSS - Exxon Service Station
Project: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6526
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 01/13/05

Metal	RL	IDL	MB raw	final
Aluminum	200	8.1		
Antimony	6.0	1.7		
Arsenic	5.0	2.2		
Barium	200	.64		
Beryllium	4.0	.12		
Boron	100	.88		
Cadmium	4.0	.3		
Calcium	5000	2.3		
Chromium	10	.26		
Cobalt	50	.81		
Copper	25	.47		
Iron	100	9.7		
Lead	5.0	1.5	0.41	<5.0
Magnesium	5000	4.8		
Manganese	15	.15		
Molybdenum	100	.63		
Nickel	40	.61		
Potassium	5000	31		
Selenium	10	1.2		
Silver	5.0	.31		
Sodium	5000	150		
Strontium	10	.25		
Thallium	10	3		
Tin	100	4		
Titanium	50	.57		
Vanadium	50	1.4		
Zinc	20	.75		

Associated samples MP6526: M44377-1, M44377-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M44377
 Account: EXXONSS - Exxon Service Station
 Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6526
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 01/13/05 01/13/05

Metal	M44377-6 Original MS		SpikeLot MPIRWS2 % Rec		QC Limits	M44377-6 Original DUP		RPD	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	2.2	958	1000	95.6	75-125	2.2	1.9	14.6	0-20
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP6526: M44377-1, M44377-6

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M44377

Account: EXXONSS - Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6526

Methods: SW846 6010B

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

01/13/05

01/13/05

Metal	BSP Result	Spikelot MPIRWS2	% Rec	QC Limits	BSD Result	Spikelot MPIRWS2	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	966	1000	96.6	80-120	925	1000	92.5	4.3	
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP6526: M44377-1, M44377-6

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: M44377
 Account: EXXONSS - Exxon Service Station
 Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6526
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 01/13/05

Metal		M44377-6 Original SDL 1:5 RPD		QC Limits	
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead	2.24	0.00	100.0(a)	0-10	
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Vanadium					
Zinc					

Associated samples MP6526: M44377-1, M44377-6

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M44377

Account: EXXONSS - Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Color, Apparent	GN15642	5	<5	CU				
Petroleum Hydrocarbons	GP5178/GN15651	0.60	<0.60	mg/l	5	5.0	100.0	80-120%
Solids, Total Suspended	GN15670	4.0	<4.0	mg/l				
Turbidity	GN15641	0.50	<0.50	NTU				

Associated Samples:

Batch GN15641: M44377-1, M44377-6

Batch GN15642: M44377-1, M44377-6

Batch GN15670: M44377-1, M44377-6

Batch GP5178: M44377-1, M44377-6

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M44377

Account: EXXONSS - Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Color, Apparent	GN15642	M44377-6	CU	<5	<5	0.0	0-20%
Petroleum Hydrocarbons	GP5178/GN15651	M44367-1A	mg/l	<0.61	<0.61	0.0	0-20%
Solids, Total Suspended	GN15670	M44377-6	mg/l	<4.0	<4.0	0.0	0-20%
Turbidity	GN15641	M44377-6	NTU	<0.50	<0.50	0.0	0-20%

Associated Samples:

Batch GN15641: M44377-1, M44377-6

Batch GN15642: M44377-1, M44377-6

Batch GN15670: M44377-1, M44377-6

Batch GP5178: M44377-1, M44377-6

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M44377

Account: EXXONSS - Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Petroleum Hydrocarbons	GP5178/GN15651	M44368-1	mg/l	<0.61	5.1	4.8	94.1	75-125%

Associated Samples:

Batch GP5178: M44377-1, M44377-6

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Sample Tracking Chronicle

Internal Sample Tracking Chronicle

Exxon Service Station

Job No: M44377

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M44377-1 Collected: 11-JAN-05 14:05 By: RMB Received: 11-JAN-05 By: RS INF-GW-11105						
M44377-1	EPA 180.1	11-JAN-05 16:30	MA			TURB
M44377-1	EPA 110.2	11-JAN-05 16:50	MA			COL
M44377-1	EPA 418.1	12-JAN-05	BF	12-JAN-05	BF	PHC
M44377-1	EPA 624	13-JAN-05 13:23	AMY			V624BTXM
M44377-1	EPA 624	13-JAN-05 15:23	AMY			V624BTXM
M44377-1	EPA 160.2	14-JAN-05	BF			TSS
M44377-1	SW846 6010B	14-JAN-05 12:00	LMN	13-JAN-05	OP	PB
M44377-2 Collected: 11-JAN-05 14:00 By: RMB Received: 11-JAN-05 By: RS INF-MW17-11105						
M44377-2	EPA 624	17-JAN-05 22:42	AMY			V624BTXM
M44377-3 Collected: 11-JAN-05 13:55 By: RMB Received: 11-JAN-05 By: RS ASINF-GW-11105						
M44377-3	EPA 624	17-JAN-05 23:21	AMY			V624BTXM
M44377-3	EPA 624	18-JAN-05 09:20	AMY			V624BTXM
M44377-4 Collected: 11-JAN-05 13:50 By: RMB Received: 11-JAN-05 By: RS ASEFF-GW-11105						
M44377-4	EPA 624	17-JAN-05 21:23	AMY			V624BTXM
M44377-5 Collected: 11-JAN-05 13:40 By: RMB Received: 11-JAN-05 By: RS MID2-GW-11105						
M44377-5	EPA 624	17-JAN-05 22:02	AMY			V624BTXM
M44377-6 Collected: 11-JAN-05 13:30 By: RMB Received: 11-JAN-05 By: RS EFF-GW-11105						
M44377-6	EPA 180.1	11-JAN-05 16:30	MA			TURB
M44377-6	EPA 110.2	11-JAN-05 16:50	MA			COL
M44377-6	EPA 418.1	12-JAN-05	BF	12-JAN-05	BF	PHC
M44377-6	EPA 624	13-JAN-05 12:42	AMY			V624BTXM
M44377-6	EPA 160.2	14-JAN-05	BF			TSS

Internal Sample Tracking Chronicle

Exxon Service Station

Job No: M44377

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M44377-6	SW846 6010B	14-JAN-05 11:48	LMN	13-JAN-05	OP	PB



Technical Report for

Exxon Service Station

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Accutest Job Number: M44980

Sampling Date: 02/09/05

Report to:

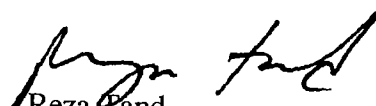
Camp Dresser & McKee
50 Hampshire Avenue
Cambridge, MA 02139

ATTN: Jon Welch

Total number of pages in report: 5



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Reza Fand
Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579)
NY (23346) NJ (MA926) NAVY USACE

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Sample Summary

Exxon Service Station

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Job No: M44980

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
M44980-1	02/09/05	15:15 CGH	02/10/05	AQ Influent	INF-GW-02/09/05
M44980-2	02/09/05	15:20 CGH	02/10/05	AQ Effluent	EFF-GW-02/09/05

Report of Analysis

Page 1 of 1

Client Sample ID: INF-GW-02/09/05

Lab Sample ID: M44980-1

Matrix: AQ - Influent

Date Sampled: 02/09/05

Date Received: 02/10/05

Percent Solids: n/a

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	25.8	5.0	ug/l	1	02/11/05	02/14/05 LMN	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA5489

(2) Prep QC Batch: MP6628

RL = Reporting Limit

508-481-6200 FAX: 508-481-6200

Accutest Job #: M44980

[illegible]



Technical Report for

Exxon Service Station

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

PO#4506003635 WBS#08

Accutest Job Number: M45270

Sampling Date: 02/23/05

Report to:

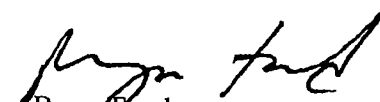
Camp Dresser & McKee
50 Hampshire Avenue
Cambridge, MA 02139

ATTN: Jon Welch

Total number of pages in report: 45



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Reza Pand
Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579)
NY (23346) NJ (MA926) NAVY USACE

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SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Exxon Service Station

Job No: M45270

Site: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Report Date 3/7/2005 2:44:48 PM

6 Samples were collected on 02/23/2005 and were received at Accutest on 02/23/2005 properly preserved, at 10.8 Deg. C and intact. These Samples received an Accutest job number of M45270. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method EPA 624

Matrix: AQ

Batch ID: MSA1705

- All samples were analyzed within the recommended method holding time.
- Sample(s) M45270-3MS, M45270-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Only BTX and MTBE requested.

Matrix: AQ

Batch ID: MSD2447

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Only BTX and MTBE requested.

Matrix: AQ

Batch ID: MSL150

- All samples were analyzed within the recommended method holding time.
- Sample(s) M45267-4MS, M45267-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Methyl Tert Butyl Ether are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Only BTX and MTBE requested.
- Sample(s) M45267-4MS, M45267-4MSD have surrogates outside control limits. Confirmed by MS/MSD

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP6669

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M45270-5DUP, M45270-5MS, M45270-5SDL were used as the QC samples for metals.

Wet Chemistry By Method EPA 110.2

Matrix: AQ

Batch ID: GN15936

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M45270-5DUP were used as the QC samples for Color, Apparent.
- M45270-5 for Color, Apparent: pH at the time of analysis 6.82.
- M45270-1 for Color, Apparent: pH at the time of analysis 6.54.

Wet Chemistry By Method EPA 160.2

Matrix: AQ

Batch ID: GN15938

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M45263-1DUP were used as the QC samples for Solids, Total Suspended.

Wet Chemistry By Method EPA 160.5

Matrix: AQ

Batch ID: GN15934

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M45270-1DUP were used as the QC samples for Solids, Settleable.

Wet Chemistry By Method EPA 180.1

Matrix: AQ

Batch ID: GN15937

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M45270-5DUP were used as the QC samples for Turbidity.

Wet Chemistry By Method EPA 418.1

Matrix: AQ

Batch ID: GP5301

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M45270-1DUP, M45270-5MS were used as the QC samples for Petroleum Hydrocarbons.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M45270).



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-CAM

Exhibit VII A-1

21 May 2004

Revision No. 3.2

Final

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Title: MADEP MCP Response Action Analytical Report Certification Form

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Accutest Laboratories of New England

Project #: M45270

Project Location: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

MADEP RTN

None

This form provides certifications for the following data set:

M45270-1, M45270-1A, M45270-2, M45270-3, M45270-4, M45270-5, M45270-5A, M45270-6

Test Method: EPA 624, 110.2, 160.2, 160.5, 180.1, 418.1, and below

Sample Matrices: Groundwater X Soil/Sediment () Drinking Water () Other: () ()

MCP SW-846 8260B () 8151A () 8330 () 6010B (X) 7470A/1A ()

Methods Used 8270C () 8081A () VPH () 6020 () 9014M² ()

As specified in MADEP 8082 () 8021B () EPH () 7000 S³ () 7196A ()

Compendium of 1. List Release Tracking Number (RTN) if known

Analytical Methods 2. MCP SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method

(Check all that apply) 3. SW-846 Method 7000 Series. List individual method and analyte.

An affirmative response to questions A, B, C, and D is required for "Presumptive Certainty status

A Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set? ☒ Yes ☐ No¹

B Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? ☒ Yes ☐ No¹

C Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? ☒ Yes ☐ No¹

D VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3? ☒ Yes ☐ No¹

A response to questions E and F below is required for "Presumptive Certainty" status

E Were all QC performance standards and recommendations for the specified methods achieved? ☐ Yes ☒ No¹

F Were results for all analyte-list compounds/elements for the specified method(s) reported? ☐ Yes ☒ No¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:

Reza Tand

Position:

Laboratory Director

Printed Name:

Reza Tand

Date:

03/07/2005

Sample Summary

Exxon Service Station

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4506003635 WBS#08

Job No: M45270

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
M45270-1	02/23/05	14:20 RMB	02/23/05	AQ Influent	INF
M45270-1A	02/23/05	14:20 RMB	02/23/05	AQ Influent Filtered	INF
M45270-2	02/23/05	15:00 RMB	02/23/05	AQ Ground Water	OWS EFF
M45270-3	02/23/05	15:10 RMB	02/23/05	AQ Effluent	AS EFF
M45270-4	02/23/05	15:20 RMB	02/23/05	AQ Effluent1	GAC 1 EFF
M45270-5	02/23/05	14:45 RMB	02/23/05	AQ Effluent2	EFF
M45270-5A	02/23/05	14:45 RMB	02/23/05	AQ Effluent Filtered	EFF
M45270-6	02/23/05	15:30 RMB	02/23/05	AQ Effluent3	GAC 2 EFF

Report of Analysis

Page 1 of 1

Client Sample ID:	INF	Date Sampled:	02/23/05
Lab Sample ID:	M45270-1	Date Received:	02/23/05
Matrix:	AQ - Influent	Percent Solids:	n/a
Method:	EPA 624		
Project:	CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L4115.D	1	03/01/05	AMY	n/a	n/a	MSL150
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	117	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	131%		76-138%
2037-26-5	Toluene-D8 (SUR)	105%		86-114%
460-00-4	4-Bromofluorobenzene (SUR)	96%		76-114%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: INF	Date Sampled: 02/23/05
Lab Sample ID: M45270-1	Date Received: 02/23/05
Matrix: AQ - Influent	Percent Solids: n/a
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	<5.0	5.0	ug/l	1	02/25/05	02/25/05 LMN	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA5512

(2) Prep QC Batch: MP6669

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: INF	
Lab Sample ID: M45270-1	Date Sampled: 02/23/05
Matrix: AQ - Influent	Date Received: 02/23/05
	Percent Solids: n/a
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Color, Apparent ^a	30	5	CU	1	02/23/05 16:40	MA	EPA 110.2
Petroleum Hydrocarbons	<0.61	0.61	mg/l	1	02/25/05	BF	EPA 418.1
Solids, Settleable	<0.10	0.10	ml/l/hr	1	02/23/05 17:10	MA	EPA 160.5
Solids, Total Suspended	21.0	4.0	mg/l	1	02/24/05	BF	EPA 160.2
Turbidity	11.6	0.50	NTU	1	02/23/05 16:55	MA	EPA 180.1

(a) pH at the time of analysis 6.54.

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: INF	Date Sampled: 02/23/05
Lab Sample ID: M45270-1A	Date Received: 02/23/05
Matrix: AQ - Influent Filtered	Percent Solids: n/a
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	<5.0	5.0	ug/l	1	02/25/05	02/25/05 LMN	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA5512

(2) Prep QC Batch: MP6669

RL = Reporting Limit

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 1

Job Number: M45270

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2447-MB	D41773.D	1	02/25/05	AT	n/a	n/a	MSD2447

The QC reported here applies to the following samples:

Method: EPA 624

M45270-5

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	84% 76-138%
2037-26-5	Toluene-D8 (SUR)	97% 86-114%
460-00-4	4-Bromofluorobenzene (SUR)	96% 76-114%

Method Blank Summary

Page 1 of 1

Job Number: M45270

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL150-MB	L4107.D	1	02/28/05	AMY	n/a	n/a	MSL150

The QC reported here applies to the following samples:

Method: EPA 624

M45270-1

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	115% 76-138%
2037-26-5	Toluene-D8 (SUR)	103% 86-114%
460-00-4	4-Bromofluorobenzene (SUR)	99% 76-114%

Method Blank Summary

Page 1 of 1

Job Number: M45270

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSA1705-MB	A51189.D	1	03/02/05	AT	n/a	n/a	MSA1705

The QC reported here applies to the following samples:

Method: EPA 624

M45270-2, M45270-3, M45270-4, M45270-6

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	95% 76-138%
2037-26-5	Toluene-D8 (SUR)	96% 86-114%
460-00-4	4-Bromofluorobenzene (SUR)	95% 76-114%

Blank Spike Summary

Page 1 of 1

Job Number: M45270

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2447-BS	D41771.D	1	02/25/05	AT	n/a	n/a	MSD2447

The QC reported here applies to the following samples:

Method: EPA 624

M45270-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	25.5	128	37-151
100-41-4	Ethylbenzene	20	22.7	114	37-162
1634-04-4	Methyl Tert Butyl Ether	20	22.2	111	58-150
108-88-3	Toluene	20	22.1	111	47-150
1330-20-7	Xylenes (total)	60	64.0	107	68-136

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	100%	76-138%
2037-26-5	Toluene-D8 (SUR)	103%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	108%	76-114%

Blank Spike Summary

Page 1 of 1

Job Number: M45270

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL150-BS	L4106.D	1	02/28/05	AMY	n/a	n/a	MSL150

The QC reported here applies to the following samples:

Method: EPA 624

M45270-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	24.8	124	37-151
100-41-4	Ethylbenzene	20	21.6	108	37-162
1634-04-4	Methyl Tert Butyl Ether	20	24.7	124	58-150
108-88-3	Toluene	20	23.7	119	47-150
1330-20-7	Xylenes (total)	60	70.0	117	68-136

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	113%	76-138%
2037-26-5	Toluene-D8 (SUR)	102%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	100%	76-114%

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: M45270

Account: EXXONSS Exxon Service Station

Project: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSA1705-BS	A51186.D	1	03/02/05	AT	n/a	n/a	MSA1705
MSA1705-BSD	A51187.D	1	03/02/05	AT	n/a	n/a	MSA1705

The QC reported here applies to the following samples:

Method: EPA 624

M45270-2, M45270-3, M45270-4, M45270-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	21.1	106	20.7	104	2	37-151/30
100-41-4	Ethylbenzene	20	19.9	100	19.1	96	4	37-162/30
1634-04-4	Methyl Tert Butyl Ether	20	24.3	122	22.0	110	10	58-150/30
108-88-3	Toluene	20	20.6	103	18.8	94	9	47-150/30
1330-20-7	Xylenes (total)	60	65.7	110	61.9	103	6	68-136/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	110%	95%	76-138%
2037-26-5	Toluene-D8 (SUR)	97%	93%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	98%	92%	76-114%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: M45270

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M45267-4MS	L4119.D	5	03/01/05	AMY	n/a	n/a	MSL150
M45267-4MSD	L4120.D	5	03/01/05	AMY	n/a	n/a	MSL150
M45267-4	L4118.D	1	03/01/05	AMY	n/a	n/a	MSL150

The QC reported here applies to the following samples:

Method: EPA 624

M45270-1

CAS No.	Compound	M45267-4 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	100	145	145	142	142	2	37-151/30
100-41-4	Ethylbenzene	ND	100	111	111	107	107	4	37-162/30
1634-04-4	Methyl Tert Butyl Ether	ND	100	159	159* a	167	167* a	5	46-150/24
108-88-3	Toluene	ND	100	143	143	141	141	1	47-150/30
1330-20-7	Xylenes (total)	ND	300	304	101	302	101	1	66-138/28

CAS No.	Surrogate Recoveries	MS	MSD	M45267-4	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	155%* c	143%* c	141%* b	76-138%
2037-26-5	Toluene-D8 (SUR)	109%	107%	114%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	105%	106%	99%	76-114%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

(b) Confirmed by MS/MSD.

(c) Outside control limits due to possible matrix interference. Confirmed by MS/MSD.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: M45270
Account: EXXONSS Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M45270-3MS	A51191.D	5	03/02/05	AT	n/a	n/a	MSA1705
M45270-3MSD	A51192.D	5	03/02/05	AT	n/a	n/a	MSA1705
M45270-3	A51190.D	1	03/02/05	AT	n/a	n/a	MSA1705

The QC reported here applies to the following samples:

Method: EPA 624

M45270-2, M45270-3, M45270-4, M45270-6

CAS No.	Compound	M45270-3 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	100	106	106	107	107	1	37-151/30
100-41-4	Ethylbenzene	ND	100	105	105	97.8	98	7	37-162/30
1634-04-4	Methyl Tert Butyl Ether	11.7	100	119	107	121	109	2	46-150/24
108-88-3	Toluene	ND	100	88.3	88	99.3	99	12	47-150/30
1330-20-7	Xylenes (total)	ND	300	341	114	335	112	2	66-138/28

CAS No.	Surrogate Recoveries	MS	MSD	M45270-3	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	93%	98%	104%	76-138%
2037-26-5	Toluene-D8 (SUR)	93%	101%	96%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	109%	106%	97%	76-114%

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: M45270

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Method: EPA 624

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M45270-1	L4115.D	131.0	105.0	96.0
M45270-2	A51196.D	106.0	93.0	93.0
M45270-3	A51190.D	104.0	96.0	97.0
M45270-4	A51194.D	110.0	93.0	92.0
M45270-5	D41774.D	90.0	98.0	93.0
M45270-6	A51195.D	101.0	96.0	89.0
M45267-4MS	L4119.D	155.0* ^a	109.0	105.0
M45267-4MSD	L4120.D	143.0* ^a	107.0	106.0
M45270-3MS	A51191.D	93.0	93.0	109.0
M45270-3MSD	A51192.D	98.0	101.0	106.0
MSA1705-BS	A51186.D	110.0	97.0	98.0
MSA1705-BSD	A51187.D	95.0	93.0	92.0
MSA1705-MB	A51189.D	95.0	96.0	95.0
MSD2447-BS	D41771.D	100.0	103.0	108.0
MSD2447-MB	D41773.D	84.0	97.0	96.0
MSL150-BS	L4106.D	113.0	102.0	100.0
MSL150-MB	L4107.D	115.0	103.0	99.0

Surrogate
Compounds

Recovery
Limits

S1 = 1,2-Dichloroethane-D4 (SUR) 76-138%

S2 = Toluene-D8 (SUR) 86-114%

S3 = 4-Bromofluorobenzene (SUR) 76-114%

(a) Outside control limits due to possible matrix interference. Confirmed by MS/MSD.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M45270
Account: EXXONSS - Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6669
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 02/25/05 02/25/05

Metal	RL	IDL	MB raw	final	MB raw	final
Aluminum	200	14				
Antimony	6.0	1.6				
Arsenic	5.0	2.3				
Barium	200	1.7				
Beryllium	4.0	.18				
Boron	100	1.2				
Cadmium	4.0	.31				
Calcium	5000	4.7				
Chromium	10	.53				
Cobalt	50	.47				
Copper	25	2.8				
Iron	100	14				
Lead	5.0	1.9	-0.020	<5.0	0.20	<5.0
Magnesium	5000	5.3				
Manganese	15	.17				
Molybdenum	100	.92				
Nickel	40	.65				
Potassium	5000	31				
Selenium	10	2.7				
Silver	5.0	.53				
Sodium	5000	110				
Strontium	10	.22				
Thallium	10	2.9				
Tin	100	9.4				
Titanium	50	1.3				
Vanadium	50	2.4				
Zinc	20	1.2				

Associated samples MP6669: M45270-1, M45270-2, M45270-3, M45270-4, M45270-5, M45270-6, M45270-1A, M45270-5A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M45270
 Account: EXXONSS - Exxon Service Station
 Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6669
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 02/25/05 02/25/05

Metal	M45270-5 Original MS	Spikelot MPIRWS2	% Rec	QC Limits	M45270-5 Original DUP	RPD	QC Limits
Aluminum							
Antimony							
Arsenic							
Barium							
Beryllium							
Boron							
Cadmium							
Calcium							
Chromium							
Cobalt							
Copper							
Iron							
Lead	0.0	982	1000	98.2	75-125	0.0	0.0
Magnesium							
Manganese							
Molybdenum							
Nickel							
Potassium							
Selenium							
Silver							
Sodium							
Strontium							
Thallium							
Tin							
Titanium							
Vanadium							
Zinc							

Associated samples MP6669: M45270-1, M45270-2, M45270-3, M45270-4, M45270-5, M45270-6, M45270-1A, M45270-5A

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M45270

Account: EXXONSS - Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6669

Methods: SW846 6010B

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

02/25/05

02/25/05

Metal	BSP Result	Spikelot MPIRWS2	% Rec	QC Limits	BSD Result	Spikelot MPIRWS2	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	999	1000	99.9	80-120	1020	1000	102.0	2.1	
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP6669: M45270-1, M45270-2, M45270-3, M45270-4, M45270-5, M45270-6, M45270-1A, M45270-5A

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: M45270
 Account: EXXONSS - Exxon Service Station
 Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6669
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 02/25/05

M45270-5		QC	
Metal	Original SDL 1:5	RPD	Limits
Aluminum			
Antimony			
Arsenic			
Barium			
Beryllium			
Boron			
Cadmium			
Calcium			
Chromium			
Cobalt			
Copper			
Iron			
Lead	0.00	0.00	NC 0-10
Magnesium			
Manganese			
Molybdenum			
Nickel			
Potassium			
Selenium			
Silver			
Sodium			
Strontium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc			

Associated samples MP6669: M45270-1, M45270-2, M45270-3, M45270-4, M45270-5, M45270-6, M45270-1A, M45270-5A

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M45270
Account: EXXONSS - Exxon Service Station
Project: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Color, Apparent	GN15936	5	<5	CU				
Petroleum Hydrocarbons	GP5301/GN15958	0.60	<0.60	mg/l	5	4.6	92.0	80-120%
Solids, Settleable	GN15934	0.10	<0.10	ml/l/hr				
Solids, Total Suspended	GN15938	4.0	<4.0	mg/l				
Turbidity	GN15937	0.50	<0.50	NTU				

Associated Samples:

Batch GN15934: M45270-1, M45270-5
Batch GN15936: M45270-1, M45270-5
Batch GN15937: M45270-1, M45270-5
Batch GN15938: M45270-1, M45270-5
Batch GP5301: M45270-1, M45270-5

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M45270
Account: EXXONSS - Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Color, Apparent	GN15936	M45270-5	CU	<5	<5	0.0	0-20%
Petroleum Hydrocarbons	GP5301/GN15958	M45270-1	mg/l	<0.61	<0.61	0.0	0-20%
Solids, Settleable	GN15934	M45270-1	ml/l/hr	<0.10	<0.20	0.0	0-20%
Solids, Total Suspended	GN15938	M45263-1	mg/l	32.0	32.0	0.0	0-20%
Turbidity	GN15937	M45270-5	NTU	<0.50	<0.50	0.0	0-20%

Associated Samples:

Batch GN15934: M45270-1, M45270-5
Batch GN15936: M45270-1, M45270-5
Batch GN15937: M45270-1, M45270-5
Batch GN15938: M45270-1, M45270-5
Batch GP5301: M45270-1, M45270-5

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M45270
Account: EXXONSS - Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Petroleum Hydrocarbons	GP5301/GN15958	M45270-5	mg/l	<0.61	5.1	4.8	94.1	75-125%

Associated Samples:
Batch GP5301: M45270-1, M45270-5

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Sample Tracking Chronicle

Internal Sample Tracking Chronicle

Exxon Service Station

Job No: M45270

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4506003635 WBS#08

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M45270-1	Collected: 23-FEB-05 14:20 By: RMB Received: 23-FEB-05 By: RS					
INF						
M45270-1	EPA 110.2	23-FEB-05 16:40	MA			COL
M45270-1	EPA 180.1	23-FEB-05 16:55	MA			TURB
M45270-1	EPA 160.5	23-FEB-05 17:10	MA			SS
M45270-1	EPA 160.2	24-FEB-05	BF			TSS
M45270-1	EPA 418.1	25-FEB-05	BF	25-FEB-05	BF	PHC
M45270-1	SW846 6010B	25-FEB-05 15:15	LMN	25-FEB-05	OP	PB
M45270-1	EPA 624	01-MAR-05 00:04	AMY			V624BTXM
M45270-2	Collected: 23-FEB-05 15:00 By: RMB Received: 23-FEB-05 By: RS					
OWS EFF						
M45270-2	SW846 6010B	25-FEB-05 15:44	LMN	25-FEB-05	OP	PB
M45270-2	EPA 624	02-MAR-05 20:23	AT			V624BTXM
M45270-3	Collected: 23-FEB-05 15:10 By: RMB Received: 23-FEB-05 By: RS					
AS EFF						
M45270-3	SW846 6010B	25-FEB-05 15:49	LMN	25-FEB-05	OP	PB
M45270-3	EPA 624	02-MAR-05 16:29	AT			V624BTXM
M45270-4	Collected: 23-FEB-05 15:20 By: RMB Received: 23-FEB-05 By: RS					
GAC 1 EFF						
M45270-4	SW846 6010B	25-FEB-05 15:55	LMN	25-FEB-05	OP	PB
M45270-4	EPA 624	02-MAR-05 19:05	AT			V624BTXM
M45270-5	Collected: 23-FEB-05 14:45 By: RMB Received: 23-FEB-05 By: RS					
EFF						
M45270-5	EPA 110.2	23-FEB-05 16:40	MA			COL
M45270-5	EPA 180.1	23-FEB-05 16:55	MA			TURB
M45270-5	EPA 160.5	23-FEB-05 17:40	MA			SS
M45270-5	EPA 160.2	24-FEB-05	BF			TSS
M45270-5	EPA 418.1	25-FEB-05	BF	25-FEB-05	BF	PHC
M45270-5	EPA 624	25-FEB-05 15:00	AT			V624BTXM
M45270-5	SW846 6010B	25-FEB-05 15:04	LMN	25-FEB-05	OP	PB

Internal Sample Tracking Chronicle

Exxon Service Station

Job No: M45270

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4506003635 WBS#08

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M45270-6 Collected: 23-FEB-05 15:30 By: RMB Received: 23-FEB-05 By: RS GAC 2 EFF						
M45270-6	SW846 6010B	25-FEB-05 16:01	LMN	25-FEB-05	OP	PB
M45270-6	EPA 624	02-MAR-05 19:45	AT			V624BTXM
M45270-1A Collected: 23-FEB-05 14:20 By: RMB Received: 23-FEB-05 By: RS INF						
M45270-1A	SW846 6010B	25-FEB-05 15:21	LMN	25-FEB-05	OP	PB
M45270-5A Collected: 23-FEB-05 14:45 By: RMB Received: 23-FEB-05 By: RS EFF						
M45270-5A	SW846 6010B	25-FEB-05 15:27	LMN	25-FEB-05	OP	PB



508-481-6200 FAX: 508-481-6200

Client Information				Facility Information				Analytical Information			
EXXONMOBIL CORPORATION - Regional Laboratory Program Northeast				Project Name:				Project Name:			
Consultants Company Name:				Project Name:				Project Name:			
Address				City				City			
50 Hampshire St.				Cambridge				Boxboro			
State MA				State MA				State MA			
Zip 02140				Zip 02140				Zip 02140			
Project Contact				Project Contact				Project Contact			
Jon Welch				Eric Emico				Eric Emico			
Sample's Name:				Sample's Name:				Sample's Name:			
Ryan Bouldin				Ryan Bouldin				Ryan Bouldin			
Phone #:				Phone #:				Phone #:			
617-452-6000				617-452-6000				617-452-6000			
Ext.:				Ext.:				Ext.:			
Fax #:				Fax #:				Fax #:			
Location ID#				Location ID#				Location ID#			
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PO#				PO#				PO#			
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Laboratories

Accutest Job #:

M45270

[illegible]



03/28/05

Technical Report for

Exxon Service Station

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

PO#4506003635 WBS#08

Accutest Job Number: M45707

Sampling Date: 03/15/05

Report to:

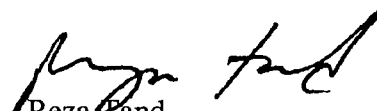
Camp Dresser & McKee
50 Hampshire Avenue
Cambridge, MA 02139

ATTN: Jon Welch

Total number of pages in report: 29



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Reza Fand
Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579)
NY (23346) NJ (MA926) NAVY USACE

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Exxon Service Station

Job No: M45707

Site: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Report Date 3/23/2005 2:51:46 PM

2 Sample were collected on 03/15/2005 and were received at Accutest on 03/16/2005 properly preserved, at 0.4 Deg. C and intact. These Samples received an Accutest job number of M45707. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method EPA 624

Matrix: AQ

Batch ID: MSD2459

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Only BTX and MTBE requested.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP6749

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M45707-2DUP, M45707-2MS, M45707-2SDL were used as the QC samples for metals.

Wet Chemistry By Method EPA 110.2

Matrix: AQ

Batch ID: GN16112

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M45707-2DUP were used as the QC samples for Color, Apparent.
- M45707-2 for Color, Apparent: pH at the time of analysis, 9.84.
- M45707-1 for Color, Apparent: pH at the time of analysis, 6.33.

Wet Chemistry By Method EPA 160.2

Matrix: AQ

Batch ID: GN16129

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M45707-2DUP were used as the QC samples for Solids, Total Suspended.

Wet Chemistry By Method EPA 160.5

Matrix: AQ

Batch ID: GN16114

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M45707-2DUP were used as the QC samples for Solids, Settleable.

Wednesday, March 23, 2005

Wet Chemistry By Method EPA 180.1

Matrix: AQ

Batch ID: GNI6113

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M45707-2DUP were used as the QC samples for Turbidity.

Wet Chemistry By Method EPA 418.1

Matrix: AQ

Batch ID: GP5355

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M45705-6MS, M45705-7DUP were used as the QC samples for Petroleum Hydrocarbons.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M45707).



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-CAM

21 May 2004

Final

Exhibit VII A-1

Revision No. 3.2

Page 10 of 32

Title: **MADEP MCP Response Action Analytical Report Certification Form**

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Accutest Laboratories of New England

Project #: M45707

Project Location: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

MADEP RTN

None

This form provides certifications for the following data set:
M45707-1, M45707-2

Test Method: EPA 624, 110.2, 160.2, 160.5, 180.1, 418.1, and below

Sample Matrices: Groundwater Soil/Sediment () Drinking Water () Other: X () ()

MCP SW-846	8260B ()	8151A ()	8330 ()	6010B (X)	7470A/1A ()
Methods Used	8270C ()	8081A ()	VPH ()	6020 ()	9014M ² ()
As specified in MADEP	8082 ()	8021B ()	EPH ()	7000 S ³ ()	7196A ()

Compendium of Analytical Methods (Check all that apply):
1. List Release Tracking Number (RTN) if known.
2. MCP SW-846 Method 9014 for MADEP Physiologically Available (PAQ) Method.
3. MCP SW-846 Methods 7000 Series. List individual method and analyte.

An affirmative response to questions A, B, C, and D is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	☒	Yes	☐ No ¹
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	☒	Yes	☐ No ¹
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☒	Yes	☐ No ¹
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	☒	Yes	☐ No ¹

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	☒	Yes	☐ No ¹
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☐	Yes	☒ No ¹

All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Reza Tand

Position: Laboratory Director

Printed Name: Reza Tand

Date: 03/24/2005

Sample Summary

Exxon Service Station

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4506003635 WBS#08

Job No: M45707

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
M45707-1	03/15/05	00:00 RMB	03/16/05	AQ Influent	INF-GW-3/15/05
M45707-2	03/15/05	00:00 RMB	03/16/05	AQ Effluent	EFF-GW-3/15/05

Report of Analysis

Page 1 of 1

Client Sample ID: INF-GW-3/15/05

Lab Sample ID: M45707-1

Date Sampled: 03/15/05

Matrix: AQ - Influent

Date Received: 03/16/05

Method: EPA 624

Percent Solids: n/a

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D42102.D	1	03/18/05	AT	n/a	n/a	MSD2459
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	27.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	96%		76-138%
2037-26-5	Toluene-D8 (SUR)	97%		86-114%
460-00-4	4-Bromofluorobenzene (SUR)	89%		76-114%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: INF-GW-3/15/05	Date Sampled: 03/15/05
Lab Sample ID: M45707-1	Date Received: 03/16/05
Matrix: AQ - Influent	Percent Solids: n/a
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	<5.0	5.0	ug/l	1	03/17/05	03/18/05 LMN	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA5577

(2) Prep QC Batch: MP6749

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: INF-GW-3/15/05	Date Sampled: 03/15/05
Lab Sample ID: M45707-1	Date Received: 03/16/05
Matrix: AQ - Influent	Percent Solids: n/a
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Color, Apparent ^a	15	5	CU	1	03/16/05 17:45	MA	EPA 110.2
Petroleum Hydrocarbons	<0.61	0.61	mg/l	1	03/18/05	BF	EPA 418.1
Solids, Settleable	<0.10	0.10	ml/l/hr	1	03/16/05 18:10	MA	EPA 160.5
Solids, Total Suspended	13.0	4.0	mg/l	1	03/18/05	BF	EPA 160.2
Turbidity	5.3	0.50	NTU	1	03/16/05 17:30	MA	EPA 180.1

(a) pH at the time of analysis, 6.33.

RL = Reporting Limit

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 1

Job Number: M45707

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2459-MB	D42100.D	1	03/18/05	AT	n/a	n/a	MSD2459

The QC reported here applies to the following samples:

Method: EPA 624

M45707-1, M45707-2

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	96% 76-138%
2037-26-5	Toluene-D8 (SUR)	98% 86-114%
460-00-4	4-Bromofluorobenzene (SUR)	93% 76-114%

Method Blank Summary

Page 1 of 1

Job Number: M45707

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2459-MB1	D42126.D	1	03/22/05	AT	n/a	n/a	MSD2459

The QC reported here applies to the following samples:

Method: EPA 624

M45708-2MS, M45708-2MSD

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	97% 76-138 %
2037-26-5	Toluene-D8 (SUR)	102% 86-114 %
460-00-4	4-Bromofluorobenzene (SUR)	86% 76-114 %

Blank Spike Summary

Page 1 of 1

Job Number: M45707

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2459-BS	D42098.D	1	03/18/05	AT	n/a	n/a	MSD2459

The QC reported here applies to the following samples:

Method: EPA 624

M45707-1, M45707-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	22.3	112	37-151
100-41-4	Ethylbenzene	20	21.6	108	37-162
1634-04-4	Methyl Tert Butyl Ether	20	18.3	92	58-150
108-88-3	Toluene	20	21.6	108	47-150
1330-20-7	Xylenes (total)	60	60.1	100	68-136

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	94%	76-138%
2037-26-5	Toluene-D8 (SUR)	99%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	88%	76-114%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: M45707

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M45708-2MS	D42130.D	2.5	03/22/05	AT	n/a	n/a	MSD2459
M45708-2MSD	D42131.D	2.5	03/22/05	AT	n/a	n/a	MSD2459
M45708-2	D42129.D	1	03/22/05	AT	n/a	n/a	MSD2459

The QC reported here applies to the following samples:

Method: EPA 624

M45707-1, M45707-2

CAS No.	Compound	M45708-2 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	50	54.1	108	56.3	113	4	37-151/30
100-41-4	Ethylbenzene	ND	50	55.1	110	56.9	114	3	37-162/30
1634-04-4	Methyl Tert Butyl Ether	3.2	50	52.2	98	52.6	99	1	46-150/24
108-88-3	Toluene	ND	50	53.5	107	56.6	113	6	47-150/30
1330-20-7	Xylenes (total)	ND	150	163	109	166	111	2	66-138/28

CAS No.	Surrogate Recoveries	MS	MSD	M45708-2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	96%	95%	94%	76-138%
2037-26-5	Toluene-D8 (SUR)	100%	102%	100%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	91%	93%	87%	76-114%

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: M45707

Account: EXXONSS Exxon Service Station

Project: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Method: EPA 624

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M45707-1	D42102.D	96.0	97.0	89.0
M45707-2	D42101.D	95.0	98.0	92.0
M45708-2MS	D42130.D	96.0	100.0	91.0
M45708-2MSD	D42131.D	95.0	102.0	93.0
MSD2459-BS	D42098.D	94.0	99.0	88.0
MSD2459-MB	D42100.D	96.0	98.0	93.0
MSD2459-MB1	D42126.D	97.0	102.0	86.0

Surrogate
Compounds

Recovery
Limits

S1 = 1,2-Dichloroethane-D4 (SUR) 76-138%
S2 = Toluene-D8 (SUR) 86-114%
S3 = 4-Bromofluorobenzene (SUR) 76-114%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M45707
Account: EXXONSS - Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6749
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 03/17/05

Metal	RL	IDL	MB raw	final
Aluminum	200	22		
Antimony	6.0	2.4		
Arsenic	5.0	3.3		
Barium	200	.64		
Beryllium	4.0	.18		
Boron	100	1.8		
Cadmium	4.0	.22		
Calcium	5000	5.9		
Chromium	10	.72		
Cobalt	50	.69		
Copper	25	1.2		
Iron	100	20		
Lead	5.0	1.2	0.0	<5.0
Magnesium	5000	7.7		
Manganese	15	.36		
Molybdenum	100	.48		
Nickel	40	.49		
Potassium	5000	19		
Selenium	10	1.7		
Silicon	100	11		
Silver	5.0	.12		
Sodium	5000	94		
Strontium	10	.12		
Thallium	10	3.1		
Tin	100	1.7		
Titanium	50	1.6		
Tungsten	100			
Vanadium	50	1.3		
Zinc	20	3.8		

Associated samples MP6749: M45707-1, M45707-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M45707
 Account: EXXONSS - Exxon Service Station
 Project: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6749
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 03/17/05 03/17/05

Metal	M45707-2 Original MS	Spikelet MPIRWS2	% Rec	QC Limits	M45707-2 Original DUP	RPD	QC Limits
Aluminum							
Antimony							
Arsenic							
Barium							
Beryllium							
Boron							
Cadmium							
Calcium							
Chromium							
Cobalt							
Copper							
Iron							
Lead	0.0	1040	1000	104.0	75-125	0.0	0.0
Magnesium							
Manganese							
Molybdenum							
Nickel							
Potassium							
Selenium							
Silicon							
Silver							
Sodium							
Strontium							
Thallium							
Tin							
Titanium							
Tungsten							
Vanadium							
Zinc							

Associated samples MP6749: M45707-1, M45707-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M45707

Account: EXXONSS - Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6749

Methods: SW846 6010B

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

03/17/05

03/17/05

Metal	BSP Result	Spikelot MPIRWS2	% Rec	QC Limits	BSD Result	Spikelot MPIRWS2	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	1010	1000	101.0	80-120	1040	1000	104.0	2.9	
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silicon									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									
Vanadium									
Zinc									

Associated samples MP6749: M45707-1, M45707-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: M45707
 Account: EXXONSS - Exxon Service Station
 Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6749
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 03/17/05

M45707-2		QC	
Metal	Original SDL 1:5 RPD	Limits	
Aluminum			
Antimony			
Arsenic			
Barium			
Beryllium			
Boron			
Cadmium			
Calcium			
Chromium			
Cobalt			
Copper			
Iron			
Lead	0.00 0.00	NC	0-10
Magnesium			
Manganese			
Molybdenum			
Nickel			
Potassium			
Selenium			
Silicon			
Silver			
Sodium			
Strontium			
Thallium			
Tin			
Titanium			
Tungsten			
Vanadium			
Zinc			

Associated samples MP6749: M45707-1, M45707-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M45707

Account: EXXONSS - Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Color, Apparent	GN16112	5	<5	CU				
Petroleum Hydrocarbons	GP5355/GN16139	0.60	<0.60	mg/l	5	4.8	96.0	80-120%
Solids, Settleable	GN16114	0.10	<0.10	ml/l/hr				
Solids, Total Suspended	GN16129	4.0	<4.0	mg/l				
Turbidity	GN16113	0.50	<0.50	NTU				

Associated Samples:

Batch GN16112: M45707-1, M45707-2

Batch GN16113: M45707-1, M45707-2

Batch GN16114: M45707-1, M45707-2

Batch GN16129: M45707-1, M45707-2

Batch GP5355: M45707-1, M45707-2

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M45707

Account: EXXONSS - Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Color, Apparent	GN16112	M45707-2	CU	<5	<5	0.0	0-20%
Petroleum Hydrocarbons	GP5355/GN16139	M45705-7	mg/l	<0.61	<0.61	0.0	0-20%
Solids, Settleable	GN16114	M45707-2	ml/l/hr	<0.10	<0.10	0.0	0-20%
Solids, Total Suspended	GN16129	M45707-2	mg/l	<4.0	<4.0	0.0	0-20%
Turbidity	GN16113	M45707-2	NTU	<0.50	<0.50	0.0	0-20%

Associated Samples:

Batch GN16112: M45707-1, M45707-2

Batch GN16113: M45707-1, M45707-2

Batch GN16114: M45707-1, M45707-2

Batch GN16129: M45707-1, M45707-2

Batch GP5355: M45707-1, M45707-2

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M45707

Account: EXXONSS - Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Petroleum Hydrocarbons	GP5355/GN16139	M45705-6	mg/l	<0.61	5.1	4.3	84.3	75-125%

Associated Samples:

Batch GP5355: M45707-1, M45707-2

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Sample Tracking Chronicle

Internal Sample Tracking Chronicle

Exxon Service Station

Job No: M45707

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Project No: PO#4506003635 WBS#08

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M45707-1 Collected: 15-MAR-05 00:00 By: RMB Received: 16-MAR-05 By: RS INF-GW-3/15/05						
M45707-1	EPA 180.1	16-MAR-05 17:30	MA			TURB
M45707-1	EPA 110.2	16-MAR-05 17:45	MA			COL
M45707-1	EPA 160.5	16-MAR-05 18:10	MA			SS
M45707-1	EPA 418.1	18-MAR-05	BF	18-MAR-05	BF	PHC
M45707-1	EPA 160.2	18-MAR-05	BF			TSS
M45707-1	SW846 6010B	18-MAR-05 12:46	LMN	17-MAR-05	OP	PB
M45707-1	EPA 624	18-MAR-05 14:51	AT			V624BTXM
M45707-2 Collected: 15-MAR-05 00:00 By: RMB Received: 16-MAR-05 By: RS EFF-GW-3/15/05						
M45707-2	EPA 160.5	16-MAR-05 17:05	MA			SS
M45707-2	EPA 180.1	16-MAR-05 17:30	MA			TURB
M45707-2	EPA 110.2	16-MAR-05 17:45	MA			COL
M45707-2	EPA 418.1	18-MAR-05	BF	18-MAR-05	BF	PHC
M45707-2	EPA 160.2	18-MAR-05	BF			TSS
M45707-2	SW846 6010B	18-MAR-05 12:24	LMN	17-MAR-05	OP	PB
M45707-2	EPA 624	18-MAR-05 14:13	AT			V624BTXM

Accutest Job #:

M45707

Client Information				Facility Information				Analytical Information							
EXXONMOBIL CORPORATION - Regional Laboratory Program Northeast				Project Name: XOM Bxboro											
Consultant's Company Name: CDM				Street: 1425 Mass Ave											
Address: 50 Hampshire St				City: Bxboro											
State: MA				State: MA											
Zip: 02139				City: Bxboro											
Project Contact: Jon Welch				ExxonMobil Contact: Eric Errico											
Supplier's Name: Ryan Bouldin				ExxonMobil Contact Phone #: 3-5805											
Phone #: Ext. Fax #:				Location ID# 3-5805											
AFE #:				PO#											
Line#				WBS#											
Collection		Preservation		Data Deliverable Information		Comments / Remarks									
Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled by	Matrix	# of bottles	HCL	NaOH	HNO3	H2SO4	MEOH	Encore	Other	None	
-1	Inf-GW-3/15/05	3/15/05		RMB	GW	9	✓	✓	✓	✓	✓	✓	✓	✓	
-2	Eff-GW-3/15/05	3/15/05		RMB	GW	9	✓	✓	✓	✓	✓	✓	✓	✓	
29															
Std. 10 Business Days				Approved By/Date				GW-1 stds.				Total Lead			
8 Day RUSH												TSS			
5 Day RUSH												Color Turbidity			
3 Day EMERGENCY												Total Settable Solids			
2 Day EMERGENCY															
1 Day EMERGENCY															
Emergency T/A is for FAX or Lablink Data															
Relinquished by: Ryan M. Bouldin				Date Time: 3/16/05 07:30				Relinquished by: [Signature]				Date Time: 3/16/05 15:20			
Relinquished by: [Signature]				Date Time: 3/16/05 16:10				Relinquished by: [Signature]				Date Time: 3/16/05 15:20			
Relinquished by: [Signature]				Date Time: 3/16/05 16:10				Relinquished by: [Signature]				Date Time: 3/16/05 15:20			
Relinquished by: [Signature]				Date Time: 3/16/05 16:10				Relinquished by: [Signature]				Date Time: 3/16/05 15:20			



Technical Report for

Exxon Service Station

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

PO#4506003635 WBS#08

Accutest Job Number: M46301

Sampling Date: 04/07/05

Report to:

Camp Dresser & McKee
50 Hampshire Avenue
Cambridge, MA 02139

ATTN: Jon Welch

Total number of pages in report: 43



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Fand
Reza Fand
Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579)
NY (23346) NJ (MA926) NAVY USACE

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SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Exxon Service Station

Job No: M46301

Site: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Report Date 4/18/2005 11:27:20 A

6 Samples were collected on 04/07/2005 and were received at Accutest on 04/07/2005 properly preserved, at 4.2 Deg. C and intact. These Samples received an Accutest job number of M46301. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method EPA 624

Matrix: AQ

Batch ID: MSD2477

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M46251-3MS, M46251-3MSD were used as the QC samples indicated.
- Only BTX and MTBE requested.

Matrix: AQ

Batch ID: MSD2478

- All samples were analyzed within the recommended method holding time.
- Sample(s) M46277-2MS, M46277-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Only BTX and MTBE requested.

Matrix: AQ

Batch ID: MSD2479

- All samples were analyzed within the recommended method holding time.
- Sample(s) M46459-9MS, M46459-9MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Only BTX and MTBE requested.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP6874

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M46301-1DUP, M46301-1MS, M46301-1SDL were used as the QC samples for metals.

Wet Chemistry By Method EPA 110.2

Matrix: AQ

Batch ID: GN16343

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M46301-1DUP were used as the QC samples for Color, Apparent.
- M46301-1 for Color, Apparent: pH at the time of analysis 6.29.
- M46301-3 for Color, Apparent: pH at the time of analysis 7.38.

Wet Chemistry By Method EPA 160.2

Matrix: AQ

Batch ID: GN16345

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M46277-2DUP were used as the QC samples for Solids, Total Suspended.

Wet Chemistry By Method EPA 160.5

Matrix: AQ

Batch ID: GN16344

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M46301-3DUP were used as the QC samples for Solids, Settleable.

Wet Chemistry By Method EPA 180.1

Matrix: AQ

Batch ID: GN16342

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M46301-3DUP were used as the QC samples for Turbidity.

Wet Chemistry By Method EPA 418.1

Matrix: AQ

Batch ID: GP5441

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M46345-1DUP, M46345-2MS were used as the QC samples for Petroleum Hydrocarbons.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M46301).



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-CAM

Exhibit VII A-1

21 May 2004

Revision No. 3.2

Final

Page 10 of 32

Title: MADEP MCP Response Action Analytical Report Certification Form

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Accutest Laboratories of New England Project #: M46301
Project Location: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA MADEP RTN¹ None
This form provides certifications for the following data set:
M46301-1, M46301-2, M46301-3, M46301-4, M46301-5, M46301-6

Test Method: EPA 624, 110.2, 160.2, 165.0, 180.1, 418.1

Sample Matrices: Groundwater Soil/Sediment () Drinking Water () Other: X () ()
MCP SW-846 Methods Used: 8260B () 8151A () 8330 () 6010B (X) 7470A/1A ()
8270C () 8081A () VPH () 6020 () 9014M² ()
As Specified in MADEP Commandum of Analytical Methods: 8082 () 8021B () EPH () 7000 S³ () 7196A ()
This release tracking Number (RTN) is known: 21M-SW-846 Method 9014 of MADEP Physiologically Available Cyanide (PAC) Method
(Check all that apply): 21M-SW-846 Methods 7905 Series is standard method and analytical

An affirmative response to questions A, B, C, and D is required for "Presumptive Certainty status"

A Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set? ☒ Yes ☐ No¹
B Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? ☒ Yes ☐ No¹
C Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? ☒ Yes ☐ No¹
D VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3? ☒ Yes ☐ No¹

A response to questions E and F below is required for "Presumptive Certainty" status

E Were all QC performance standards and recommendations for the specified methods achieved? ☒ Yes ☐ No¹
F Were results for all analyte-list compounds/elements for the specified method(s) reported? ☐ Yes ☒ No¹
Refer to Narrative Refer to Narrative

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:

Position: Laboratory Director

Printed Name: Reza Tand

Date: 04/18/2005

Sample Summary

Exxon Service Station

Job No: M46301

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4506003635 WBS#08

Sample Number	Collected		Matrix Received	Code Type		Client Sample ID
	Date	Time By				
M46301-1	04/07/05	12:50 GG	04/07/05	AQ	Influent	INF-GW-040705
M46301-2	04/07/05	13:00 GG	04/07/05	AQ	Influent	ASINF-GW-040705
M46301-3	04/07/05	12:35 GG	04/07/05	AQ	Effluent	EFF-GW-040705
M46301-4	04/07/05	13:05 GG	04/07/05	AQ	Effluent	ASEFF-GW-040705
M46301-5	04/07/05	13:15 GG	04/07/05	AQ	Effluent1	GAC1EFF-GW-040705
M46301-6	04/07/05	13:10 GG	04/07/05	AQ	Effluent2	GAC2EFF-GW-040705

Report of Analysis

Page 1 of 1

Client Sample ID:	INF-GW-040705	Date Sampled:	04/07/05
Lab Sample ID:	M46301-1	Date Received:	04/07/05
Matrix:	AQ - Influent	Percent Solids:	n/a
Method:	EPA 624		
Project:	CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D42592.D	1	04/12/05	AT	n/a	n/a	MSD2477
Run #2	D42600.D	100	04/12/05	AT	n/a	n/a	MSD2477

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	28.7	0.50	ug/l	
108-88-3	Toluene	111	1.0	ug/l	
100-41-4	Ethylbenzene	27.7	1.0	ug/l	
1330-20-7	Xylenes (total)	152	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	5620 ^a	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	102%	110%	76-138%
2037-26-5	Toluene-D8 (SUR)	95%	86%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	86%	92%	76-114%

(a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: INF-GW-040705

Lab Sample ID: M46301-1

Matrix: AQ - Influent

Date Sampled: 04/07/05

Date Received: 04/07/05

Percent Solids: n/a

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	<5.0	5.0	ug/l	1	04/13/05	04/13/05 LMN	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA5673

(2) Prep QC Batch: MP6874

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	INF-GW-040705	Date Sampled:	04/07/05
Lab Sample ID:	M46301-1	Date Received:	04/07/05
Matrix:	AQ - Influent	Percent Solids:	n/a
Project:	CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Color, Apparent ^a	20	5	CU	1	04/08/05 08:30	MA	EPA 110.2
Petroleum Hydrocarbons	<0.63	0.63	mg/l	1	04/11/05	BF	EPA 418.1
Solids, Settleable	<0.10	0.10	ml/l/hr	1	04/08/05 08:55	MA	EPA 160.5
Solids, Total Suspended	45.0	4.0	mg/l	1	04/08/05	BF	EPA 160.2
Turbidity	10.1	0.50	NTU	1	04/08/05 08:55	MA	EPA 180.1

(a) pH at the time of analysis 6.29.

RL = Reporting Limit

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 1

Job Number: M46301

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2477-MB	D42576.D	1	04/11/05	AT	n/a	n/a	MSD2477

The QC reported here applies to the following samples:

Method: EPA 624

M46301-1, M46301-3

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	99% 76-138%
2037-26-5	Toluene-D8 (SUR)	96% 86-114%
460-00-4	4-Bromofluorobenzene (SUR)	91% 76-114%

Method Blank Summary

Page 1 of 1

Job Number: M46301

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2478-MB	D42607.D	1	04/12/05	AT	n/a	n/a	MSD2478

The QC reported here applies to the following samples:

Method: EPA 624

M46301-4, M46301-5, M46301-6

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	112% 76-138%
2037-26-5	Toluene-D8 (SUR)	97% 86-114%
460-00-4	4-Bromofluorobenzene (SUR)	88% 76-114%

Blank Spike Summary

Page 1 of 1

Job Number: M46301

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2478-BS	D42605.D	1	04/12/05	AT	n/a	n/a	MSD2478

The QC reported here applies to the following samples:

Method: EPA 624

M46301-4, M46301-5, M46301-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	21.4	107	37-151
100-41-4	Ethylbenzene	20	20.7	104	37-162
1634-04-4	Methyl Tert Butyl Ether	20	22.6	113	58-150
108-88-3	Toluene	20	21.6	108	47-150
1330-20-7	Xylenes (total)	60	58.9	98	68-136

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	105%	76-138%
2037-26-5	Toluene-D8 (SUR)	101%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	90%	76-114%

Blank Spike Summary

Page 1 of 1

Job Number: M46301

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2479-BS	D42655.D	1	04/14/05	AT	n/a	n/a	MSD2479

The QC reported here applies to the following samples:

Method: EPA 624

M46301-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	22.2	111	37-151
100-41-4	Ethylbenzene	20	21.6	108	37-162
1634-04-4	Methyl Tert Butyl Ether	20	21.9	110	58-150
108-88-3	Toluene	20	21.5	108	47-150
1330-20-7	Xylenes (total)	60	57.6	96	68-136

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	111%	76-138%
2037-26-5	Toluene-D8 (SUR)	100%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	90%	76-114%

Method Blank Summary

Page 1 of 1

Job Number: M46301

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2479-MB	D42657.D	1	04/14/05	AT	n/a	n/a	MSD2479

The QC reported here applies to the following samples:

Method: EPA 624

M46301-2

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	116% 76-138%
2037-26-5	Toluene-D8 (SUR)	100% 86-114%
460-00-4	4-Bromofluorobenzene (SUR)	91% 76-114%

Blank Spike Summary

Page 1 of 1

Job Number: M46301

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2477-BS	D42574.D	1	04/11/05	AT	n/a	n/a	MSD2477

The QC reported here applies to the following samples:

Method: EPA 624

M46301-1, M46301-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	19.5	98	37-151
100-41-4	Ethylbenzene	20	21.3	107	37-162
1634-04-4	Methyl Tert Butyl Ether	20	20.1	101	58-150
108-88-3	Toluene	20	20.1	101	47-150
1330-20-7	Xylenes (total)	60	58.7	98	68-136

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	100%	76-138%
2037-26-5	Toluene-D8 (SUR)	99%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	96%	76-114%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: M46301

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M46251-3MS	D42597.D	5	04/12/05	AT	n/a	n/a	MSD2477
M46251-3MSD	D42598.D	5	04/12/05	AT	n/a	n/a	MSD2477
M46251-3	D42589.D	1	04/12/05	AT	n/a	n/a	MSD2477

The QC reported here applies to the following samples:

Method: EPA 624

M46301-1, M46301-3

CAS No.	Compound	M46251-3 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	100	105	105	105	105	0	37-151/30
100-41-4	Ethylbenzene	ND	100	104	104	104	104	0	37-162/30
1634-04-4	Methyl Tert Butyl Ether	4.1	100	109	105	105	101	4	46-150/24
108-88-3	Toluene	ND	100	103	103	104	104	1	47-150/30
1330-20-7	Xylenes (total)	ND	300	312	104	293	98	6	66-138/28

CAS No.	Surrogate Recoveries	MS	MSD	M46251-3	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	107%	109%	106%	76-138%
2037-26-5	Toluene-D8 (SUR)	97%	101%	98%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	87%	82%	86%	76-114%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: M46301

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M46277-2MS	D42628.D	5	04/13/05	AT	n/a	n/a	MSD2478
M46277-2MSD	D42629.D	5	04/13/05	AT	n/a	n/a	MSD2478
M46277-2	D42627.D	1	04/13/05	AT	n/a	n/a	MSD2478

The QC reported here applies to the following samples:

Method: EPA 624

M46301-4, M46301-5, M46301-6

CAS No.	Compound	M46277-2 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	100	108	108	105	105	3	37-151/30
100-41-4	Ethylbenzene	ND	100	106	106	106	106	0	37-162/30
1634-04-4	Methyl Tert Butyl Ether	ND	100	117	117	111	111	5	46-150/24
108-88-3	Toluene	ND	100	107	107	105	105	2	47-150/30
1330-20-7	Xylenes (total)	ND	300	302	101	300	100	1	66-138/28

CAS No.	Surrogate Recoveries	MS	MSD	M46277-2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	110%	97%	106%	76-138%
2037-26-5	Toluene-D8 (SUR)	100%	97%	98%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	85%	91%	94%	76-114%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: M46301

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M46459-9MS	D42680.D	5	04/15/05	AT	n/a	n/a	MSD2479
M46459-9MSD	D42681.D	5	04/15/05	AT	n/a	n/a	MSD2479
M46459-9	D42676.D	1	04/15/05	AT	n/a	n/a	MSD2479
M46459-9	D42683.D	5	04/15/05	AT	n/a	n/a	MSD2479

The QC reported here applies to the following samples:

Method: EPA 624

M46301-2

CAS No.	Compound	M46459-9 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	100	102	102	108	108	6	37-151/30
100-41-4	Ethylbenzene	ND	100	105	105	106	106	1	37-162/30
1634-04-4	Methyl Tert Butyl Ether	431 ^a	100	508	77	512	81	1	46-150/24
108-88-3	Toluene	ND	100	93.4	93	99.4	99	6	47-150/30
1330-20-7	Xylenes (total)	ND	300	276	92	282	94	2	66-138/28

CAS No.	Surrogate Recoveries	MS	MSD	M46459-9	M46459-9	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	115%	113%	120%	121%	76-138%
2037-26-5	Toluene-D8 (SUR)	89%	90%	97%	92%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	100%	98%	90%	88%	76-114%

(a) Result is from Run #2.

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: M46301

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Method: EPA 624

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M46301-1	D42600.D	110.0	86.0	92.0
M46301-1	D42592.D	102.0	95.0	86.0
M46301-2	D42659.D	113.0	103.0	90.0
M46301-2	D42658.D	115.0	98.0	88.0
M46301-3	D42580.D	106.0	96.0	89.0
M46301-4	D42633.D	108.0	100.0	87.0
M46301-4	D42609.D	109.0	99.0	89.0
M46301-5	D42610.D	111.0	98.0	91.0
M46301-6	D42611.D	112.0	98.0	87.0
M46251-3MS	D42597.D	107.0	97.0	87.0
M46251-3MSD	D42598.D	109.0	101.0	82.0
M46277-2MS	D42628.D	110.0	100.0	85.0
M46277-2MSD	D42629.D	97.0	97.0	91.0
M46459-9MS	D42680.D	115.0	89.0	100.0
M46459-9MSD	D42681.D	113.0	90.0	98.0
MSD2477-BS	D42574.D	100.0	99.0	96.0
MSD2477-MB	D42576.D	99.0	96.0	91.0
MSD2478-BS	D42605.D	105.0	101.0	90.0
MSD2478-MB	D42607.D	112.0	97.0	88.0
MSD2479-BS	D42655.D	111.0	100.0	90.0
MSD2479-MB	D42657.D	116.0	100.0	91.0

Surrogate
Compounds

Recovery
Limits

S1 = 1,2-Dichloroethane-D4 (SUR) 76-138%
S2 = Toluene-D8 (SUR) 86-114%
S3 = 4-Bromofluorobenzene (SUR) 76-114%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M46301
Account: EXXONSS - Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6874
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/13/05

Metal	RL	IDL	MB raw	final
Aluminum	200	22		
Antimony	6.0	2.4		
Arsenic	5.0	3.3		
Barium	200	.64		
Beryllium	4.0	.18		
Boron	100	1.8		
Cadmium	4.0	.22		
Calcium	5000	5.9		
Chromium	10	.72		
Cobalt	50	.69		
Copper	25	1.2		
Iron	100	20	anr	
Lead	5.0	1.2	-0.19	<5.0
Magnesium	5000	7.7		
Manganese	15	.36		
Molybdenum	100	.48		
Nickel	40	.49		
Potassium	5000	19		
Selenium	10	1.7		
Silicon	100	11		
Silver	5.0	.12		
Sodium	5000	94		
Strontium	10	.12		
Thallium	10	3.1		
Tin	100	1.7		
Titanium	50	1.6		
Tungsten	100			
Vanadium	50	1.3		
Zinc	20	3.8		

Associated samples MP6874: M46301-1, M46301-2, M46301-3, M46301-4, M46301-5, M46301-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M46301
 Account: EXXONSS - Exxon Service Station
 Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6874
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date:

04/13/05

04/13/05

Metal	M46301-1 Original MS	Spikelot MPIRWS2	% Rec	QC Limits	M46301-1 Original DUP	RPD	QC Limits
Aluminum							
Antimony							
Arsenic							
Barium							
Beryllium							
Boron							
Cadmium							
Calcium							
Chromium							
Cobalt							
Copper							
Iron	anr						
Lead	0.0	986	1000	98.6	75-125	0.0	0.0
Magnesium							
Manganese							
Molybdenum							
Nickel							
Potassium							
Selenium							
Silicon							
Silver							
Sodium							
Strontium							
Thallium							
Tin							
Titanium							
Tungsten							
Vanadium							
Zinc							

Associated samples MP6874: M46301-1, M46301-2, M46301-3, M46301-4, M46301-5, M46301-6

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M46301

Account: EXXONSS - Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6874

Matrix Type: AQUEOUS

Methods: SW846 6010B

Units: ug/l

Prep Date:

04/13/05

04/13/05

Metal	BSP Result	Spikelot MPIRWS2	% Rec	QC Limits	BSD Result	Spikelot MPIRWS2	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron	anr								
Lead	969	1000	96.9	80-120	987	1000	98.7	1.8	
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silicon									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									
Vanadium									
Zinc									

Associated samples MP6874: M46301-1, M46301-2, M46301-3, M46301-4, M46301-5, M46301-6

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: M46301
 Account: EXXONSS - Exxon Service Station
 Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP6874
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 04/13/05

M46301-1		QC	
Metal	Original SDL 1:5	RPD	Limits
Aluminum			
Antimony			
Arsenic			
Barium			
Beryllium			
Boron			
Cadmium			
Calcium			
Chromium			
Cobalt			
Copper			
Iron	anr		
Lead	0.00	0.00	NC 0-10
Magnesium			
Manganese			
Molybdenum			
Nickel			
Potassium			
Selenium			
Silicon			
Silver			
Sodium			
Strontium			
Thallium			
Tin			
Titanium			
Tungsten			
Vanadium			
Zinc			

Associated samples MP6874: M46301-1, M46301-2, M46301-3, M46301-4, M46301-5, M46301-6

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M46301
Account: EXXONSS - Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Color, Apparent	GN16343	5	<5	CU				
Petroleum Hydrocarbons	GP5441/GN16369	0.60	<0.60	mg/l	5	4.8	96.0	80-120%
Solids, Settleable	GN16344	0.10	<0.10	ml/l/hr				
Solids, Total Suspended	GN16345	4.0	<4.0	mg/l				
Turbidity	GN16342	0.50	<0.50	NTU				

Associated Samples:

Batch GN16342: M46301-1, M46301-3
Batch GN16343: M46301-1, M46301-3
Batch GN16344: M46301-1, M46301-3
Batch GN16345: M46301-1, M46301-3
Batch GP5441: M46301-1, M46301-3

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M46301
Account: EXXONSS - Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Color, Apparent	GN16343	M46301-1	CU	20	20	0.0	0-20%
Petroleum Hydrocarbons	GP5441/GN16369	M46345-1	mg/l	<0.61	<0.63	0.0	0-20%
Solids, Settleable	GN16344	M46301-3	ml/l/hr	<0.10	<0.10	0.0	0-20%
Solids, Total Suspended	GN16345	M46277-2	mg/l	<4.0	<4.0	0.0	0-20%
Turbidity	GN16342	M46301-3	NTU	<0.50	<0.50	0.0	0-20%

Associated Samples:

Batch GN16342: M46301-1, M46301-3
Batch GN16343: M46301-1, M46301-3
Batch GN16344: M46301-1, M46301-3
Batch GN16345: M46301-1, M46301-3
Batch GP5441: M46301-1, M46301-3

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M46301

Account: EXXONSS - Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Petroleum Hydrocarbons	GP5441/GN16369	M46345-2	mg/l	<0.61	5.3	5.5	103.8	75-125%

Associated Samples:

Batch GP5441: M46301-1, M46301-3

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Sample Tracking Chronicle

Internal Sample Tracking Chronicle

Exxon Service Station

Job No: M46301

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4506003635 WBS#08

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M46301-1 Collected: 07-APR-05 12:50 By: GG Received: 07-APR-05 By: RS INF-GW-040705						
M46301-1	EPA 160.2	08-APR-05	BF			TSS
M46301-1	EPA 110.2	08-APR-05 08:30	MA			COL
M46301-1	EPA 160.5	08-APR-05 08:55	MA			SS
M46301-1	EPA 180.1	08-APR-05 08:55	MA			TURB
M46301-1	EPA 418.1	11-APR-05	BF	11-APR-05	BF	PHC
M46301-1	EPA 624	12-APR-05 03:43	AT			V624BTXM
M46301-1	EPA 624	12-APR-05 10:18	AT			V624BTXM
M46301-1	SW846 6010B	13-APR-05 15:09	LMN	13-APR-05	OP	PB
M46301-2 Collected: 07-APR-05 13:00 By: GG Received: 07-APR-05 By: RS ASINF-GW-040705						
M46301-2	SW846 6010B	13-APR-05 15:20	LMN	13-APR-05	OP	PB
M46301-2	EPA 624	14-APR-05 16:00	AT			V624BTXM
M46301-2	EPA 624	14-APR-05 16:53	AT			V624BTXM
M46301-3 Collected: 07-APR-05 12:35 By: GG Received: 07-APR-05 By: RS EFF-GW-040705						
M46301-3	EPA 160.2	08-APR-05	BF			TSS
M46301-3	EPA 110.2	08-APR-05 08:30	MA			COL
M46301-3	EPA 160.5	08-APR-05 08:55	MA			SS
M46301-3	EPA 180.1	08-APR-05 08:55	MA			TURB
M46301-3	EPA 418.1	11-APR-05	BF	11-APR-05	BF	PHC
M46301-3	EPA 624	11-APR-05 20:08	AT			V624BTXM
M46301-3	SW846 6010B	13-APR-05 15:37	LMN	13-APR-05	OP	PB
M46301-4 Collected: 07-APR-05 13:05 By: GG Received: 07-APR-05 By: RS ASEFF-GW-040705						
M46301-4	EPA 624	12-APR-05 17:32	AT			V624BTXM
M46301-4	EPA 624	13-APR-05 11:39	AT			V624BTXM
M46301-4	SW846 6010B	13-APR-05 15:42	LMN	13-APR-05	OP	PB
M46301-5 Collected: 07-APR-05 13:15 By: GG Received: 07-APR-05 By: RS GACIEFF-GW-040705						

Internal Sample Tracking Chronicle

Exxon Service Station

Job No: M46301

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
 Project No: PO#4506003635 WBS#08

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
------------------	--------	----------	----	---------	----	------------

M46301-5	EPA 624	12-APR-05 18:11	AT			V624BTXM
M46301-5	SW846 6010B	13-APR-05 15:48	LMN	13-APR-05	OP	PB

M46301-6 Collected: 07-APR-05 13:40 By: GG Received: 07-APR-05 By: RS
 GAC2EFF-GW-040705

M46301-6	EPA 624	12-APR-05 18:49	AT			V624BTXM
M46301-6	SW846 6010B	13-APR-05 15:54	LMN	13-APR-05	OP	PB



06/09/05

Technical Report for

Exxon Service Station

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

PO#4506003635 WBS#08

Accutest Job Number: M47349

Sampling Date: 05/16/05

Report to:

Camp Dresser & McKee
50 Hampshire Avenue
Cambridge, MA 02139

ATTN: Jon Welch

Total number of pages in report: 48



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Fand
Reza Fand
Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579)
NY (23346) NJ (MA926) NAVY USACE

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Sample Summary

Exxon Service Station

Job No: M47349

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4506003635 WBS#08

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
M47349-1	05/16/05	15:10 RMB	05/16/05	AQ Influent	GW-INF-051605
M47349-2	05/16/05	14:50 RMB	05/16/05	AQ Effluent	GW-EFF-051605
M47349-3	05/16/05	15:20 RMB	05/16/05	AQ Ground Water	GW-GAC2EFF-051605
M47349-4	05/16/05	15:25 RMB	05/16/05	AQ Ground Water	GW-GAC1EFF-051605
M47349-5	05/16/05	15:40 RMB	05/16/05	AQ Ground Water	GW-ASEFF-051605
M47349-6	05/16/05	15:45 RMB	05/16/05	AQ Ground Water	GW-OWEFF-051605

SAMPLE DELIVERY GROUP CASE NARRATIVE**Client:** Exxon Service Station**Job No** M47349**Site:** CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA**Report Date** 6/8/2005 5:25:15 PM

6 Samples were collected on 05/16/2005 and were received at Accutest on 05/16/2005 properly preserved, at 3.4 Deg. C and intact. These Samples received an Accutest job number of M47349. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method EPA 624

Matrix AQ	Batch ID: MSD2504
------------------	--------------------------

- All samples were analyzed within the recommended method holding time.
- Sample(s) M47202-18MS, M47202-18MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Only BTX and MTBE requested.

Matrix AQ	Batch ID: MSD2508
------------------	--------------------------

- All samples were analyzed within the recommended method holding time.
- Sample(s) M47503-6MS, M47503-6MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Only BTX and MTBE requested.

Matrix AQ	Batch ID: MSD2509
------------------	--------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M47648-2MS, M47648-2MSD were used as the QC samples indicated.
- Only BTX and MTBE requested.

Metals By Method SW846 6010B

Matrix AQ	Batch ID: MP7085
------------------	-------------------------

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M47350-1ADUP, M47350-1AMS, M47350-1ASDL were used as the QC samples for metals.

Matrix AQ	Batch ID: MP7161
------------------	-------------------------

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M47435-2DUP, M47435-2MS, M47435-2SDL were used as the QC samples for metals.

Wet Chemistry By Method EPA 110.2

Matrix AQ

Batch ID: GN16762

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M47349-2DUP were used as the QC samples for Color, Apparent.
- M47349-1 for Color, Apparent: pH at the time of analysis 6.17.
- M47349-2 for Color, Apparent: pH at the time of analysis 9.12.

Wet Chemistry By Method EPA 160.2

Matrix AQ

Batch ID: GN16837

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M47349-2DUP were used as the QC samples for Solids, Total Suspended.

Wet Chemistry By Method EPA 160.5

Matrix AQ

Batch ID: GN16760

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M47349-1DUP were used as the QC samples for Solids, Settleable.

Wet Chemistry By Method EPA 180.1

Matrix AQ

Batch ID: GN16761

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M47349-2DUP were used as the QC samples for Turbidity.

Wet Chemistry By Method EPA 418.1

Matrix AQ

Batch ID: GP5560

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M47345-1DUP, M47349-2MS were used as the QC samples for Petroleum Hydrocarbons.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M47349).

Report of Analysis

Page 1 of 1

3.1

3

Client Sample ID: GW-INF-051605

Lab Sample ID: M47349-1

Date Sampled: 05/16/05

Matrix: AQ - Influent

Date Received: 05/16/05

Method: EPA 624

Percent Solids: n/a

Project: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D43426.D	1	05/20/05	AT	n/a	n/a	MSD2504
Run #2	D43435.D	50	05/20/05	AT	n/a	n/a	MSD2504

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	23.7	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	10.1	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	5100 ^a	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	130%	103%	76-138%
2037-26-5	Toluene-D8 (SUR)	89%	95%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	98%	96%	76-114%

(a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	GW-INF-051605	Date Sampled:	05/16/05
Lab Sample ID:	M47349-1	Date Received:	05/16/05
Matrix:	AQ - Influent	Percent Solids:	n/a
Project:	CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	<5.0	5.0	ug/l	1	05/18/05	05/19/05 LMN	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA5842

(2) Prep QC Batch: MP7085

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GW-INF-051605	Date Sampled:	05/16/05
Lab Sample ID:	M47349-1	Date Received:	05/16/05
Matrix:	AQ - Influent	Percent Solids:	n/a
Project:	CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Color, Apparent ^a	15	5	CU	1	05/16/05 18:02	MA	EPA 110.2
Petroleum Hydrocarbons	<0.61	0.61	mg/l	1	05/18/05	BF	EPA 418.1
Solids, Settleable	<0.10	0.10	ml/l/hr	1	05/16/05 18:25	MA	EPA 160.5
Solids, Total Suspended	18.0	4.0	mg/l	1	05/23/05	BF	EPA 160.2
Turbidity	16.4	0.50	NTU	1	05/16/05 17:42	MA	EPA 180.1

(a) pH at the time of analysis 6.17.

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- MCP Form
- Sample Tracking Chronicle



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-CAM

Exhibit VII A-1

21 May 2004

Revision No. 3.2

Final

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Title: MADEP MCP Response Action Analytical Report Certification Form

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Accutest Laboratories of New England Project #: M47349
Project Location: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA MADEP RTN¹ None

This form provides certifications for the following data set:
M47349-1, M47349-2, M47349-3, M47349-4, M47349-5, M47349-6

Test Method: EPA 624, 110.2, 160.2, 160.5, 180.1, 418.1, and below

Sample Matrices: Groundwater X Soil/Sediment () Drinking Water () Other: () ()

MADEP SW-846 Methods Used	8260B ()	8151A ()	8330 ()	6010B (X)	7470A/1A ()
As specified in MADEP Compendium of Analytical Methods (Check all that apply)	8270C ()	8081A ()	VPH ()	6020 ()	9014M ² ()
	8082 ()	8021B ()	EPH ()	7000 S ³ ()	7196A ()

1. List Release/Tracking Number (RTN), if known.
2. M-SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method.
3. S-SW-846 Methods 7000 Series 1 is individual method and analysis.

An affirmative response to questions A, B, C, and D is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	☒	Yes	☐ No ¹
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	☒	Yes	☐ No ¹
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☒	Yes	☐ No ¹
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	☒	Yes	☐ No ¹

A response to questions E and F below is required for "Presumptive Certainty" status

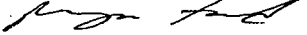
E	Were all QC performance standards and recommendations for the specified methods achieved?	☒	Yes	☐ No ¹
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☐	Yes	☒ No ¹

Refer to Narrative

Refer to Narrative

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: 

Position: Laboratory Director

Printed Name: Reza Tand

Date: 06/08/2005

Internal Sample Tracking Chronicle

Exxon Service Station

Job No: M47349

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
 Project No: PO#4506003635 WBS#08

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M47349-1 Collected: 16-MAY-05 15:10 By: RMB Received: 16-MAY-05 By: RS GW-INT-051605						
M47349-1	EPA 180.1	16-MAY-05 17:42	MA			TURB
M47349-1	EPA 110.2	16-MAY-05 18:02	MA			COL
M47349-1	EPA 160.5	16-MAY-05 18:25	MA			SS
M47349-1	EPA 418.1	18-MAY-05	BF	18-MAY-05 BF		PHC
M47349-1	SW846 6010B	19-MAY-05 20:14	LMN	18-MAY-05 OP		PB
M47349-1	EPA 624	20-MAY-05 00:36	AT			V624BTXM
M47349-1	EPA 624	20-MAY-05 09:49	AT			V624BTXM
M47349-1	EPA 160.2	23-MAY-05	BF			TSS
M47349-2 Collected: 16-MAY-05 14:50 By: RMB Received: 16-MAY-05 By: RS GW-BFF-051605						
M47349-2	EPA 180.1	16-MAY-05 17:42	MA			TURB
M47349-2	EPA 110.2	16-MAY-05 18:02	MA			COL
M47349-2	EPA 160.5	16-MAY-05 18:25	MA			SS
M47349-2	EPA 418.1	18-MAY-05	BF	18-MAY-05 BF		PHC
M47349-2	EPA 624	19-MAY-05 16:54	AT			V624BTXM
M47349-2	SW846 6010B	19-MAY-05 20:19	LMN	18-MAY-05 OP		PB
M47349-2	EPA 160.2	23-MAY-05	BF			TSS
M47349-3 Collected: 16-MAY-05 15:20 By: RMB Received: 16-MAY-05 By: RS GW-GAC2EFF-051605						
M47349-3	EPA 624	25-MAY-05 20:47	AT			V624BTXM
M47349-3	SW846 6010B	03-JUN-05 17:32	LMN	27-MAY-05 OP		PB
M47349-4 Collected: 16-MAY-05 15:25 By: RMB Received: 16-MAY-05 By: RS GW-GAC1EFF-051605						
M47349-4	EPA 624	25-MAY-05 21:25	AT			V624BTXM
M47349-4	SW846 6010B	03-JUN-05 17:38	LMN	27-MAY-05 OP		PB
M47349-5 Collected: 16-MAY-05 15:40 By: RMB Received: 16-MAY-05 By: RS GW-ASEFF-051605						
M47349-5	EPA 624	25-MAY-05 22:04	AT			V624BTXM
M47349-5	EPA 624	27-MAY-05 17:56	AT			V624BTXM

Internal Sample Tracking Chronicle

Exxon Service Station

Job No: M47349

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4506003635 WBS#08

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
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M47349-5	SW846 6010B	03-JUN-05 17:44	LMN	27-MAY-05 OP	PB	
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M47349-6 Collected: 16-MAY-05 15:45 By: RMB Received: 16-MAY-05 By: RS
GW 6010B 051605

M47349-6	EPA 624	25-MAY-05 22:43	AT			V624BTXM
M47349-6	EPA 624	26-MAY-05 11:43	AT			V624BTXM
M47349-6	SW846 6010B	03-JUN-05 17:50	LMN	27-MAY-05 OP	PB	

GC/MS Volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 1

Job Number: M47349

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2504-MB	D43411.D	1	05/19/05	AT	n/a	n/a	MSD2504

The QC reported here applies to the following samples:

Method: EPA 624

M47349-1, M47349-2

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	109% 76-138%
2037-26-5	Toluene-D8 (SUR)	94% 86-114%
460-00-4	4-Bromofluorobenzene (SUR)	100% 76-114%

Method Blank Summary

Page 1 of 1

Job Number: M47349

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2508-MB	D43557.D	1	05/25/05	AT	n/a	n/a	MSD2508

The QC reported here applies to the following samples:

Method: EPA 624

M47349-3, M47349-4, M47349-5, M47349-6

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	114% 76-138%
2037-26-5	Toluene-D8 (SUR)	97% 86-114%
460-00-4	4-Bromofluorobenzene (SUR)	98% 76-114%

Method Blank Summary

Page 1 of 1

Job Number: M47349

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2509-MB	D43590.D	1	05/27/05	AT	n/a	n/a	MSD2509

The QC reported here applies to the following samples:

Method: EPA 624

M47349-5

CAS No.	Compound	Result	RL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	116% 76-138%
2037-26-5	Toluene-D8 (SUR)	97% 86-114%
460-00-4	4-Bromofluorobenzene (SUR)	101% 76-114%

Blank Spike Summary

Page 1 of 1

Job Number: M47349

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2504-BS	D43409.D	1	05/19/05	AT	n/a	n/a	MSD2504

The QC reported here applies to the following samples:

Method: EPA 624

M47349-1, M47349-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	16.6	83	37-151
100-41-4	Ethylbenzene	20	18.8	94	37-162
1634-04-4	Methyl Tert Butyl Ether	20	20.8	104	58-150
108-88-3	Toluene	20	18.4	92	47-150
1330-20-7	Xylenes (total)	60	62.5	104	68-136

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	109%	76-138%
2037-26-5	Toluene-D8 (SUR)	95%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	113%	76-114%

Blank Spike Summary

Page 1 of 1

Job Number: M47349

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2508-BS	D43555.D	1	05/25/05	AT	n/a	n/a	MSD2508

The QC reported here applies to the following samples:

Method: EPA 624

M47349-3, M47349-4, M47349-5, M47349-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	16.9	85	37-151
100-41-4	Ethylbenzene	20	18.6	93	37-162
1634-04-4	Methyl Tert Butyl Ether	20	24.5	123	58-150
108-88-3	Toluene	20	17.9	90	47-150
1330-20-7	Xylenes (total)	60	72.1	120	68-136

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	110%	76-138%
2037-26-5	Toluene-D8 (SUR)	95%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	100%	76-114%



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M47349 Laboratories

Blank Spike Summary

Page 1 of 1

Job Number: M47349

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2509-BS	D43588.D	1	05/27/05	AT	n/a	n/a	MSD2509

The QC reported here applies to the following samples:

Method: EPA 624

M47349-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1634-04-4	Methyl Tert Butyl Ether	20	25.4	127	58-150

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	120%	76-138%
2037-26-5	Toluene-D8 (SUR)	95%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	104%	76-114%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: M47349

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M47202-18MS	D43430.D	5	05/20/05	AT	n/a	n/a	MSD2504
M47202-18MSDD43431.D		5	05/20/05	AT	n/a	n/a	MSD2504
M47202-18	D43425.D	1	05/19/05	AT	n/a	n/a	MSD2504

The QC reported here applies to the following samples:

Method: EPA 624

M47349-1, M47349-2

CAS No.	Compound	M47202-18 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	100	92.5	93	92.9	93	0	37-151/30
100-41-4	Ethylbenzene	ND	100	96.0	96	97.8	98	2	37-162/30
1634-04-4	Methyl Tert Butyl Ether	ND	100	119	119	113	113	5	46-150/24
108-88-3	Toluene	ND	100	93.2	93	98.8	99	6	47-150/30
1330-20-7	Xylenes (total)	ND	300	300	100	301	100	0	66-138/28

CAS No.	Surrogate Recoveries	MS	MSD	M47202-18	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	119%	121%	125%	76-138%
2037-26-5	Toluene-D8 (SUR)	95%	95%	94%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	91%	109%	100%	76-114%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: M47349

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M47503-6MS	D43578.D	5	05/26/05	AT	n/a	n/a	MSD2508
M47503-6MSD	D43579.D	5	05/26/05	AT	n/a	n/a	MSD2508
M47503-6	D43572.D	1	05/26/05	AT	n/a	n/a	MSD2508

The QC reported here applies to the following samples:

Method: EPA 624

M47349-3, M47349-4, M47349-5, M47349-6

CAS No.	Compound	M47503-6 ug/l	Spike Q	ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	0.52	100	90.7	90	88.3	88	3	37-151/30	
100-41-4	Ethylbenzene	ND	100	98.3	98	96.9	97	1	37-162/30	
1634-04-4	Methyl Tert Butyl Ether	20.3	100	149	129	145	125	3	46-150/24	
108-88-3	Toluene	ND	100	94.5	95	98.2	98	4	47-150/30	
1330-20-7	Xylenes (total)	ND	300	328	109	348	116	6	66-138/28	

CAS No.	Surrogate Recoveries	MS	MSD	M47503-6	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	132%	124%	128%	76-138%
2037-26-5	Toluene-D8 (SUR)	95%	96%	96%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	93%	95%	94%	76-114%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: M47349

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M47648-2MS	D43597.D	5	05/27/05	AT	n/a	n/a	MSD2509
M47648-2MSD	D43598.D	5	05/27/05	AT	n/a	n/a	MSD2509
M47648-2	D43594.D	1	05/27/05	AT	n/a	n/a	MSD2509

The QC reported here applies to the following samples:

Method: EPA 624

M47349-5

CAS No.	Compound	M47648-2 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1634-04-4	Methyl Tert Butyl Ether	8.9	100	125	116	123	114	2	46-150/24

CAS No.	Surrogate Recoveries	MS	MSD	M47648-2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	124%	119%	117%	76-138%
2037-26-5	Toluene-D8 (SUR)	96%	94%	93%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	103%	106%	99%	76-114%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M47349
Account: EXXONSS - Exxon Service Station
Project: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP7085
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 05/18/05 05/18/05

Metal	RL	IDL	MB raw	final	MB raw	final
Aluminum	200	22				
Antimony	6.0	2.4				
Arsenic	5.0	3.3				
Barium	200	.64				
Beryllium	4.0	.18				
Boron	100	1.8				
Cadmium	4.0	.22				
Calcium	5000	5.9				
Chromium	10	.72				
Cobalt	50	.69				
Copper	25	1.2				
Iron	100	20	anr			
Lead	5.0	1.2	0.28	<5.0	-0.13	<5.0
Magnesium	5000	7.7				
Manganese	15	.36				
Molybdenum	100	.48				
Nickel	40	.49				
Potassium	5000	19				
Selenium	10	1.7				
Silicon	100	11				
Silver	5.0	.12				
Sodium	5000	94				
Strontium	10	.12				
Thallium	10	3.1				
Tin	100	1.7				
Titanium	50	1.6				
Tungsten	100					
Vanadium	50	1.3				
Zinc	20	3.8				

Associated samples MP7085: M47349-1, M47349-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M47349
 Account: EXXONSS - Exxon Service Station
 Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP7085
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 05/18/05 05/18/05

Metal	M47350-1A Original MS	SpikeLot MPIRWS2	% Rec	QC Limits	M47350-1A Original DUP	RPD	QC Limits
Aluminum							
Antimony							
Arsenic							
Barium							
Beryllium							
Boron							
Cadmium							
Calcium							
Chromium							
Cobalt							
Copper							
Iron	anr						
Lead	0.0	940	1000	94.0	75-125	0.0	0.0
Magnesium						NC	0-20
Manganese							
Molybdenum							
Nickel							
Potassium							
Selenium							
Silicon							
Silver							
Sodium							
Strontium							
Thallium							
Tin							
Titanium							
Tungsten							
Vanadium							
Zinc							

Associated samples MP7085: M47349-1, M47349-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M47349
 Account: EXXONSS - Exxon Service Station
 Project: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP7085
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 05/18/05 05/18/05

Metal	BSP Result	Spikelot MPIRWS2	% Rec	QC Limits	BSD Result	Spikelot MPIRWS2	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron	anr								
Lead	915	1000	91.5	80-120	936	1000	93.6	2.3	
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silicon									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									
Vanadium									
Zinc									

Associated samples MP7085: M47349-1, M47349-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: M47349
 Account: EXXONSS - Exxon Service Station
 Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP7085
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 05/18/05

Metal	M47350-1A	Original	SDL 1:5	RPD	QC	Limits
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron	anr					
Lead	0.00	0.00	NC		0-10	
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silicon						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Tungsten						
Vanadium						
Zinc						

Associated samples MP7085: M47349-1, M47349-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

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BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M47349
Account: EXXONSS - Exxon Service Station
Project: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP7161
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 05/27/05

Metal	RL	IDL	MB raw	final
Aluminum	200	14		
Antimony	6.0	1.6	anr	
Arsenic	5.0	2.3	anr	
Barium	200	1.7	anr	
Beryllium	4.0	.18	anr	
Boron	100	1.2		
Cadmium	4.0	.31	anr	
Calcium	5000	4.7		
Chromium	10	.53	anr	
Cobalt	50	.47		
Copper	25	2.8		
Iron	100	14	anr	
Lead	5.0	1.9	-0.61	<5.0
Magnesium	5000	5.3		
Manganese	15	.17		
Molybdenum	100	.92		
Nickel	40	.65	anr	
Potassium	5000	31		
Selenium	10	2.7	anr	
Silver	5.0	.53	anr	
Sodium	5000	110		
Strontium	10	.22		
Thallium	10	2.9	anr	
Tin	100	9.4		
Titanium	50	1.3		
Vanadium	50	2.4	anr	
Zinc	20	1.2	anr	

Associated samples MP7161: M47349-3, M47349-4, M47349-5, M47349-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M47349
 Account: EXXONSS - Exxon Service Station
 Project: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP7161
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 05/27/05 05/27/05

Metal	M47435-2 Original MS	Spikelot MP1RWS2	% Rec	QC Limits	M47435-2 Original DUP	RPD	QC Limits
Aluminum							
Antimony	anr						
Arsenic	anr						
Barium	anr						
Beryllium	anr						
Boron							
Cadmium	anr						
Calcium							
Chromium	anr						
Cobalt							
Copper							
Iron	anr						
Lead	0.0	925	1000	92-5	75-125	0.0	0.0
Magnesium						NC	0-20
Manganese							
Molybdenum							
Nickel	anr						
Potassium							
Selenium	anr						
Silver	anr						
Sodium							
Strontium							
Thallium	anr						
Tin							
Titanium							
Vanadium	anr						
Zinc	anr						

Associated samples MP7161: M47349-3, M47349-4, M47349-5, M47349-6

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M47349
Account: EXXONSS - Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP7161
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 05/27/05

05/27/05

Metal	BSP Result	Spikelot MPIRWS2	% Rec	QC Limits	BSD Result	Spikelot MPIRWS2	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper									
Iron	anr								
Lead	936	1000	93.6	80-120	922	1000	92.2	1.5	
Magnesium									
Manganese									
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

Associated samples MP7161: M47349-3, M47349-4, M47349-5, M47349-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: M47349
 Account: EXXONSS - Exxon Service Station
 Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP7161
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 05/27/05

Metal	M47435-2 Original	SDL 1:5	RPD	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron	anr			
Lead	0.00	0.00	NC	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP7161: M47349-3, M47349-4, M47349-5, M47349-6

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

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METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M47349

Account: EXXONSS - Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Color, Apparent	GN16762	5	<5	CU				
Petroleum Hydrocarbons	GP5560/GN16780	0.60	<0.60	mg/l	5	5.5	110.0	80-120%
Solids, Settleable	GN16760	0.10	<0.10	ml/l/hr				
Solids, Total Suspended	GN16837	4.0	<4.0	mg/l				
Turbidity	GN16761	0.50	<0.50	NTU				

Associated Samples:

Batch GN16760: M47349-1, M47349-2

Batch GN16761: M47349-1, M47349-2

Batch GN16762: M47349-1, M47349-2

Batch GN16837: M47349-1, M47349-2

Batch GP5560: M47349-1, M47349-2

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M47349
Account: EXXONSS - Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Color, Apparent	GN16762	M47349-2	CU	<5	<5	0.0	0-20%
Petroleum Hydrocarbons	GP5560/GN16780	M47345-1	mg/l	<0.61	<0.61	0.0	0-20%
Solids, Settleable	GN16760	M47349-1	ml/l/hr	<0.10	<0.10	0.0	0-20%
Solids, Total Suspended	GN16837	M47349-2	mg/l	<4.0	<4.0	0.0	0-20%
Turbidity	GN16761	M47349-2	NTU	<0.50	<0.50	0.0	0-20%

Associated Samples:

Batch GN16760: M47349-1, M47349-2
Batch GN16761: M47349-1, M47349-2
Batch GN16762: M47349-1, M47349-2
Batch GN16837: M47349-1, M47349-2
Batch GP5560: M47349-1, M47349-2

7.2

7

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M47349
Account: EXXONSS - Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Petroleum Hydrocarbons	GP5560/GN16780	M47349-2	mg/l	<0.61	5.1	5.5	107.8	75-125%

Associated Samples:

Batch GP5560: M47349-1, M47349-2

7.3

7



New England
ACCUTEST.
Laboratories

06/10/05

Technical Report for

Exxon Service Station

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

PO#4506003635 WBS#08

Accutest Job Number: M47799

Sampling Date: 06/01/05

Report to:

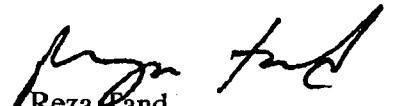
Camp Dresser & McKee
50 Hampshire Avenue
Cambridge, MA 02139

ATTN: Jon Welch

Total number of pages in report: 30



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Reza Fand
Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579)
NY (23346) NJ (MA926) NAVY USACE

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SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Exxon Service Station

Job No: M47799

Site: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Report Date 6/10/2005 4:00:22 PM

2 Samples were collected on 06/01/2005 and were received at Accutest on 06/02/2005 properly preserved, at 3.4 Deg. C and intact. These Samples received an Accutest job number of M47799. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method EPA 624

Matrix: AQ

Batch ID: MSD2515

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M47846-2MS, M47846-2MSD were used as the QC samples indicated.
- Only BTX and MTBE requested.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP7201

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M47696-1AMS, M47696-1ASDL, M47696-1ADUP were used as the QC samples for metals.
- RPD(s) for Duplicate for Lead are outside control limits for sample MP7201-D1. RPD acceptable due to low duplicate and sample concentrations.

Wet Chemistry By Method EPA 110.2

Matrix: AQ

Batch ID: GN16941

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M47799-2DUP were used as the QC samples for Color, Apparent.
- M47799-2 for Color, Apparent: pH at the time of analysis, 8.63.
- M47799-1 for Color, Apparent: pH at the time of analysis, 6.64.

Wet Chemistry By Method EPA 160.2

Matrix: AQ

Batch ID: GN16956

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M47799-2DUP were used as the QC samples for Solids, Total Suspended.

Wet Chemistry By Method EPA 160.5

Matrix: AQ

Batch ID: GN16942

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M47799-2DUP were used as the QC samples for Solids, Settleable.

Wet Chemistry By Method EPA 180.1

Matrix: AQ

Batch ID: GN16943

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M47799-2DUP were used as the QC samples for Turbidity.

Wet Chemistry By Method EPA 418.1

Matrix: AQ

Batch ID: GP5627

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M47846-1DUP, M47846-4MS were used as the QC samples for Petroleum Hydrocarbons.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M47799).

Sample Summary

Exxon Service Station

Job No: M47799

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4506003635 WBS#08

Sample Number	Collected		Matrix		Client Sample ID
	Date	Time By	Received	Code Type	
M47799-1	06/01/05	15:15 TAN	06/02/05	AQ Ground Water	INF-GW-6105
M47799-2	06/01/05	15:35 TAN	06/02/05	AQ Ground Water	EFF-GW-6105

Report of Analysis

Page 1 of 1

Client Sample ID: INF-GW-6105

Lab Sample ID: M47799-1

Date Sampled: 06/01/05

Matrix: AQ - Ground Water

Date Received: 06/02/05

Method: EPA 624

Percent Solids: n/a

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D43731.D	1	06/04/05	AT	n/a	n/a	MSD2515
Run #2	D43746.D	20	06/05/05	AT	n/a	n/a	MSD2515

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	3.6	0.50	ug/l	
108-88-3	Toluene	29.4	1.0	ug/l	
100-41-4	Ethylbenzene	70.4	1.0	ug/l	
1330-20-7	Xylenes (total)	245	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3040 ^a	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	112%	119%	76-138%
2037-26-5	Toluene-D8 (SUR)	95%	91%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	110%	106%	76-114%

(a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 1

Job Number: M47799

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2515-MB	D43728.D	1	06/04/05	AT	n/a	n/a	MSD2515

The QC reported here applies to the following samples:

Method: EPA 624

M47799-1, M47799-2

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	105% 76-138%
2037-26-5	Toluene-D8 (SUR)	95% 86-114%
460-00-4	4-Bromofluorobenzene (SUR)	107% 76-114%

Report of Analysis

Page 1 of 1

Client Sample ID:	INF-GW-6105		
Lab Sample ID:	M47799-1	Date Sampled:	06/01/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
		Percent Solids:	n/a
Project:	CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	6.3	5.0	ug/l	1	06/06/05	06/09/05 AC	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA5939

(2) Prep QC Batch: MP7201

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: INF-GW-6105	Date Sampled: 06/01/05
Lab Sample ID: M47799-1	Date Received: 06/02/05
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Color, Apparent ^a	25	5	CU	1	06/02/05 17:10	MA	EPA 110.2
Petroleum Hydrocarbons	<0.61	0.61	mg/l	1	06/07/05	BF	EPA 418.1
Solids, Settleable	<0.10	0.10	ml/l/hr	1	06/02/05 18:05	MA	EPA 160.5
Solids, Total Suspended	7.0	4.0	mg/l	1	06/06/05	BF	EPA 160.2
Turbidity	8.4	0.50	NTU	1	06/02/05 17:20	MA	EPA 180.1

(a) pH at the time of analysis, 6.64.

RL = Reporting Limit

Blank Spike Summary

Page 1 of 1

Job Number: M47799
Account: EXXONSS Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2515-BS	D43725.D	1	06/04/05	AT	n/a	n/a	MSD2515

The QC reported here applies to the following samples:

Method: EPA 624

M47799-1, M47799-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	10.5	53	37-151
100-41-4	Ethylbenzene	20	19.8	99	37-162
1634-04-4	Methyl Tert Butyl Ether	20	25.7	129	58-150
108-88-3	Toluene	20	17.5	88	47-150
1330-20-7	Xylenes (total)	60	72.6	121	68-136

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	108%	76-138%
2037-26-5	Toluene-D8 (SUR)	94%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	105%	76-114%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: M47799

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M47846-2MS	D43743.D	5	06/05/05	AT	n/a	n/a	MSD2515
M47846-2MSD	D43744.D	5	06/05/05	AT	n/a	n/a	MSD2515
M47846-2	D43739.D	1	06/05/05	AT	n/a	n/a	MSD2515

The QC reported here applies to the following samples:

Method: EPA 624

M47799-1, M47799-2

CAS No.	Compound	M47846-2 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	10	100	54.4	44	53.1	43	2	37-151/30
100-41-4	Ethylbenzene	5.6	100	92.9	87	92.0	86	1	37-162/30
1634-04-4	Methyl Tert Butyl Ether	5.9	100	143	137	140	134	2	46-150/24
108-88-3	Toluene	10.2	100	80.7	71	80.0	70	1	47-150/30
1330-20-7	Xylenes (total)	62.3	300	428	122	417	118	3	66-138/28

CAS No.	Surrogate Recoveries	MS	MSD	M47846-2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	120%	115%	118%	76-138%
2037-26-5	Toluene-D8 (SUR)	92%	93%	92%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	107%	102%	111%	76-114%

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: M47799

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Method: EPA 624

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M47799-1	D43746.D	119.0	91.0	106.0
M47799-1	D43731.D	112.0	95.0	110.0
M47799-2	D43732.D	112.0	95.0	107.0
M47846-2MS	D43743.D	120.0	92.0	107.0
M47846-2MSD	D43744.D	115.0	93.0	102.0
MSD2515-BS	D43725.D	108.0	94.0	105.0
MSD2515-MB	D43728.D	105.0	95.0	107.0

Surrogate Compounds

Recovery Limits

S1 = 1,2-Dichloroethane-D4 (SUR) 76-138%
S2 = Toluene-D8 (SUR) 86-114%
S3 = 4-Bromofluorobenzene (SUR) 76-114%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M47799
Account: EXXONSS - Exxon Service Station
Project: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP7201
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/06/05 06/06/05

Metal	RL	IDL	MB raw	final	MB raw	final
Aluminum	200	22				
Antimony	6.0	2.4				
Arsenic	5.0	3.3	anr			
Barium	200	.64	anr			
Beryllium	4.0	.18				
Boron	100	1.8				
Cadmium	4.0	.22	anr			
Calcium	5000	5.9				
Chromium	10	.72	anr			
Cobalt	50	.69				
Copper	25	1.2				
Iron	100	20	anr			
Lead	5.0	1.2	0.83	<5.0	0.42	<5.0
Magnesium	5000	7.7				
Manganese	15	.36				
Molybdenum	100	.48				
Nickel	40	.49				
Potassium	5000	19				
Selenium	10	1.7	anr			
Silver	5.0	.12	anr			
Sodium	5000	94				
Strontium	10	.12				
Thallium	10	3.1				
Tin	100	1.7				
Titanium	50	1.6				
Tungsten	100					
Vanadium	50	1.3				
Zinc	20	3.8				

Associated samples MP7201: M47799-1, M47799-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M47799
 Account: EXXONSS - Exxon Service Station
 Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP7201
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date:

06/06/05

06/06/05

Metal	M47696-1A Original MS	Spikelot MPIRWS2	QC Limits	M47696-1A Original DUP	RPD	QC Limits
Aluminum						
Antimony						
Arsenic	anr					
Barium	anr					
Beryllium						
Boron						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper						
Iron	anr					
Lead	0.0	993	1000	99.3	75-125	0.0 2.2 200.0(a) 0-20
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Tungsten						
Vanadium						
Zinc						

Associated samples MP7201: M47799-1, M47799-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) RPD acceptable due to low duplicate and sample concentrations.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M47799
 Account: EXXONSS - Exxon Service Station
 Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP7201
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 05/06/05

06/06/05

Metal	BSP Result	Spikelot MPIRWS2	% Rec	QC Limits	BSD Result	Spikelot MPIRWS2	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium									
Boron									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper									
Iron	anr								
Lead	984	1000	98.4	80-120	985	1000	98.5	0.1	
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									
Vanadium									
Zinc									

Associated samples MP7201: M47799-1, M47799-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: M47799
 Account: EXXONSS - Exxon Service Station
 Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP7201
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 06/06/05

M47696-1A		QC	
Metal	Original SDL 1:5 RPD		Limits
Aluminum			
Antimony			
Arsenic	anr		
Barium	anr		
Beryllium			
Boron			
Cadmium	anr		
Calcium			
Chromium	anr		
Cobalt			
Copper			
Iron	anr		
Lead	0.00 8.87		0-10
Magnesium			
Manganese			
Molybdenum			
Nickel			
Potassium			
Selenium	anr		
Silver	anr		
Sodium			
Strontium			
Thallium			
Tin			
Titanium			
Tungsten			
Vanadium			
Zinc			

Associated samples MP7201: M47799-1, M47799-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M47799
Account: EXXONSS - Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Color, Apparent	GN16941	5	<5	CU				
Petroleum Hydrocarbons	GP5627/GN16974	0.60	<0.60	mg/l	5	5.1	102.0	80-120%
Solids, Settleable	GN16942	0.10	<0.10	ml/l/hr				
Solids, Total Suspended	GN16956	4.0	<4.0	mg/l				
Turbidity	GN16943	0.50	<0.50	NTU				

Associated Samples:

Batch GN16941: M47799-1, M47799-2
Batch GN16942: M47799-1, M47799-2
Batch GN16943: M47799-1, M47799-2
Batch GN16956: M47799-1, M47799-2
Batch GP5627: M47799-1, M47799-2

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M47799
Account: EXXONSS - Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Color, Apparent	GN16941	M47799-2	CU	<5	<5	0.0	0-20%
Petroleum Hydrocarbons	GP5627/GN16974	M47846-1	mg/l	0.68	0.68	0.0	0-20%
Solids, Settleable	GN16942	M47799-2	ml/l/hr	<0.10	<0.10	0.0	0-20%
Solids, Total Suspended	GN16956	M47799-2	mg/l	<4.0	<4.0	0.0	0-20%
Turbidity	GN16943	M47799-2	NTU	<0.50	<0.50	0.0	0-20%

Associated Samples:

Batch GN16941: M47799-1, M47799-2
Batch GN16942: M47799-1, M47799-2
Batch GN16943: M47799-1, M47799-2
Batch GN16956: M47799-1, M47799-2
Batch GP5627: M47799-1, M47799-2

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M47799

Account: EXXONSS - Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Petroleum Hydrocarbons	GP5627/GN16974	M47846-4	mg/l	<0.61	5.1	4.8	94.1	75-125

Associated Samples:

Batch GP5627: M47799-1, M47799-2

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Sample Tracking Chronicle

Internal Sample Tracking Chronicle

Exxon Service Station

Job No: M47799

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
 Project No: PO#4506003635 WBS#08

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M47799-1 Collected: 01-JUN-05 15:15 By: TAN Received: 02-JUN-05 By: SAP INF-GW-6105						
M47799-1	EPA 110.2	02-JUN-05 17:10	MA			COL
M47799-1	EPA 180.1	02-JUN-05 17:20	MA			TURB
M47799-1	EPA 160.5	02-JUN-05 18:05	MA			SS
M47799-1	EPA 624	04-JUN-05 19:22	AT			V624BTXM
M47799-1	EPA 624	05-JUN-05 11:26	AT			V624BTXM
M47799-1	EPA 160.2	06-JUN-05	BF			TSS
M47799-1	EPA 418.1	07-JUN-05	BF	07-JUN-05	BF	PHC
M47799-1	SW846 6010B	09-JUN-05 12:34	AC	06-JUN-05	OP	PB
M47799-2 Collected: 01-JUN-05 15:35 By: TAN Received: 02-JUN-05 By: SAP EFF-GW-6105						
M47799-2	EPA 110.2	02-JUN-05 17:10	MA			COL
M47799-2	EPA 180.1	02-JUN-05 17:20	MA			TURB
M47799-2	EPA 160.5	02-JUN-05 18:05	MA			SS
M47799-2	EPA 624	04-JUN-05 19:59	AT			V624BTXM
M47799-2	EPA 160.2	06-JUN-05	BF			TSS
M47799-2	EPA 418.1	07-JUN-05	BF	07-JUN-05	BF	PHC
M47799-2	SW846 6010B	09-JUN-05 12:40	AC	06-JUN-05	OP	PB

Betty Baer

From: Betty Baer
Sent: Thursday, June 02, 2005 6:51 PM
To: 'welchje@cdm.com'
Subject: XOM Boxborough

We rec'd a Chain for this site 6/2/05, two GW samples MCP INF-GW-6105 and EFF-GW-6105, what are the total metals that are needed, this is a 5 day rush.

Betty

Betty Baer
Accutest Laboratories
495 Technology Center West, Building #1
Marlboro, MA 01752

Phone (508) 481- 6200
Fax (508) 481-7753

Betty Baer

From: Welch, Jonathan [WelchJE@cdm.com]
Sent: Monday, June 06, 2005 9:19 AM
To: Betty Baer
Subject: RE: XOM Boxborough

Lead only

From: Betty Baer [mailto:bettyb@accutest.com]
Sent: Thursday, June 02, 2005 6:51 PM
To: Welch, Jonathan
Subject: XOM Boxborough

We rec'd a Chain for this site 6/2/05, two GW samples MCP INF-GW-6105 and EFF-GW-6105, what are the total metals that are needed, this is a 5 day rush.

Betty

Betty Baer

Accutest Laboratories

495 Technology Center West, Building #1

Marlboro, MA 01752

Phone (508) 481- 6200

Fax (508) 481-7753



Laboratories

CHAIN OF CUSTODY

495 Tech Center West, Bldg. 1
Marlboro, MA 01752

508-481-6200 FAX: 508-481-6200

Accutest Job #:

Client Information

Facility Information

Analytical Information

EXXONMOBIL CORPORATION - Regional Laboratory Program Northeast

Project Name: BAYBOROUGH HAZARDOUS

Address: 60 HAMPSHIRE ST

City: BAYBOROUGH, RI

State: RI

Zip: 02806

Project Contact: J. NAUON

ExxonMobil Contact: J. NAUON

Phone #: 401-452-6832

ExxonMobil Contact Phone #: 401-381-2932

Ext.:

Location ID#

PO#

WBS#

Line#

Acctest Sample #

Field ID / Point of Collection

Date

Time

Sampled by

Matrix

of bottles

HCL

NaOH

HNO3

H2SO4

MEOH

Encore

Other

None

BTX 8260

624

8021

524

MTBE

TBA

Naphthalene

Oxygenates

VOC AQUEOUS 8260

624

STD

TCL

PPL

MTBE

TBA

Oxygenates

5035/LOW

5035MED

VPH RANGES

TARGETS

EPH RANGES

TARGET (PAH)

DIESEL (PAH)

TPH-CTDEP

TPH418.1

TPH-MAINE GRO

DRO

TPH-8015 GRO

TPH-8015 DRO

METALS TOTAL

DISSOLVED

HM8

HM5

METALS TCLP

SPLP

HM8

HM5

TSS/CLOR/TURBIDITY

TOTAL SETTLABLE SOLIDS



New England
ACCUTEST.
Laboratories

06/21/05

Technical Report for

Exxon Service Station

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

PO#4506003635 WBS#08

Accutest Job Number: M48312

Sampling Date: 06/17/05

Report to:

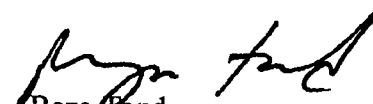
Camp Dresser & McKee
50 Hampshire Avenue
Cambridge, MA 02139

ATTN: Jon Welch

Total number of pages in report: 8



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Reza Pand
Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579)
NY (23346) NJ (MA926) NAVY USACE

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Sample Summary

Exxon Service Station

Job No: M48312

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4506003635 WBS#08

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
M48312-1	06/17/05	08:45 TAN	06/17/05	AQ Influent	INF-GW-61705
M48312-2	06/17/05	08:50 TAN	06/17/05	AQ Influent	INF-AS-GW-61705
M48312-3	06/17/05	08:55 TAN	06/17/05	AQ Effluent1	EFF-AS-GW-61705
M48312-4	06/17/05	09:00 TAN	06/17/05	AQ Effluent2	GAC1-EFF-GW-61705
M48312-5	06/17/05	09:05 TAN	06/17/05	AQ Effluent3	GAC2-EFF-GW-61705

Report of Analysis

Page 1 of 1

Client Sample ID: INF-GW-61705

Lab Sample ID: M48312-1

Matrix: AQ - Influent

Date Sampled: 06/17/05

Date Received: 06/17/05

Percent Solids: n/a

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	<5.0	5.0	ug/l	1	06/20/05	06/21/05 HBM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA5966

(2) Prep QC Batch: MP7267

RL = Reporting Limit

Laboratories

Laboratories		508-481-6200 FAX: 508-481-6200		Account Job #: M48312	
Client Information		Facility Information		Analytical Information	
EXXONMOBIL CORPORATION - Regional Laboratory Program Northeast Consultants Company Name: CDM Address: 50 Hampshire Street City: Cambridge MA 02139 State: MA Zip: 02139 Project Contact: Jon Welch ExonMobil Contact: Eric Errico ExonMobil Contact Phone #: 617-452-6332 Phone #: 617-452-6332 Ext.: Fax #: 617-381-2952 AFE #: WBS# 35805 POB: Line#		Project Name: Boxborough/Exxon Street: 1425 Mass Ave City: Boxborough MA State: MA ExonMobil Contact: Eric Errico ExonMobil Contact Phone #: 617-381-2952 Location ID# 35805 POB: Line#		VOC AQUEOUS B260 □ STD □ 524 □ TOL □ TBA □ MTBE □ TBA □ Oxygens □ VOC SOIL B260 □ STD □ TOL □ PPL □ MTBE □ TBA □ Oxygens □ 5035LOW □ 5035MED □ VPH RANGES □ TARGETS □ EPH RANGES □ TARGET (PAH) □ DIESEL (PAH) □ TPH-CTDEP □ TPH416.1 □ TPH-MAINE GRO □ DRO □ TPH-8015 GRO □ TPH-8015 DRO □ METALS TOTAL □ DISSOLVED □ HMB □ HNS □ METALS TCLP □ SPLD □ HMB □ HNS □ Total Lead	
Accutest Sample # Field ID / Point of Collection Date Time Sampled by Matrix # of bottles Preservation HCl NaOH HNO3 H2SO4 MEOH EtOH Other None		Data Deliverable Information Commercial "A" ☐ FULL CLP Commercial "B" ☐ State Forms Full Deliverables ☐ Disk Deliverable Format Other ☐ Site Specific: QC Yes ☐ No ☐ If yes, indicate QC sample in comments and submit triplicate volume.		Turnaround Time (Business days) Std. 10 Business Days 8 Day RUSH 5 Day RUSH 3 Day EMERGENCY 2 Day EMERGENCY 1 Day EMERGENCY Emergency T/A is for FAX or Lablink Data	
Approved By/Date Date Time: 6/17/05 16:35 Date Time: 6/17/05 16:35 Date Time: 6/17/05 16:35 Date Time: 6/17/05 16:35		Sample Custody must be documented below each time samples change possession, including courier delivery. Received by: 1. [Signature] Date Time: 6/17/05 16:35 Received by: 2. [Signature] Date Time: 6/17/05 17:20 Received by: 3. [Signature] Date Time: 6/17/05 17:20 Received by: 4. [Signature] Date Time: 6/17/05 17:20 Received by: 5. [Signature] Date Time: 6/17/05 17:20		Comments / Remarks 48 hour TAT Loc. 6F	
Relinquished by: 1. [Signature] Date Time: 6/17/05 16:35 Relinquished by: 2. [Signature] Date Time: 6/17/05 16:35 Relinquished by: 3. [Signature] Date Time: 6/17/05 16:35 Relinquished by: 4. [Signature] Date Time: 6/17/05 16:35 Relinquished by: 5. [Signature] Date Time: 6/17/05 16:35		Relinquished by: 1. [Signature] Date Time: 6/17/05 16:35 Relinquished by: 2. [Signature] Date Time: 6/17/05 16:35 Relinquished by: 3. [Signature] Date Time: 6/17/05 16:35 Relinquished by: 4. [Signature] Date Time: 6/17/05 16:35 Relinquished by: 5. [Signature] Date Time: 6/17/05 16:35		On Loc: 4.2°C Temp: 4.2°C	



New England

ACCUTEST.

Laboratories

08/11/05

Technical Report for

Exxon Service Station

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

PO#4506003635 WBS#08

Accutest Job Number: M49645

Sampling Date: 08/02/05

Report to:

Camp Dresser & McKee
50 Hampshire Avenue
Cambridge, MA 02139

ATTN: Jon Welch

Total number of pages in report: 38



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Fand
Reza Fand
Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579)
NY (23346) NJ (MA926) NAVY USACE

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SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Exxon Service Station

Job No M49645

Site: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Report Date 8/11/2005 8:21:47 AM

7 Samples were collected on 08/02/2005 and were received at Accutest on 08/02/2005 properly preserved, at 4.1 Deg. C and intact. These Samples received an Accutest job number of M49645. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method EPA 624

Matrix: AQ

Batch ID: MSD2545

- * All samples were analyzed within the recommended method holding time.
- * All method blanks for this batch meet method specific criteria.
- * Sample(s) M49688-5MS, M49688-5MSD were used as the QC samples indicated.
- * Only BTX and MTBE requested.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP7473

- * All samples were digested within the recommended method holding time.
- * All samples were analyzed within the recommended method holding time.
- * All method blanks for this batch meet method specific criteria.
- * Sample(s) M49645-1DUP, M49645-1MS, M49645-1SDL were used as the QC samples for metals.

Wet Chemistry By Method EPA 110.2

Matrix: AQ

Batch ID: GN17469

- * All samples were analyzed within the recommended method holding time.
- * All method blanks for this batch meet method specific criteria.
- * Sample(s) M49645-4DUP were used as the QC samples for Color, Apparent.

Wet Chemistry By Method EPA 160.2

Matrix: AQ

Batch ID: GN17479

- * All samples were analyzed within the recommended method holding time.
- * All method blanks for this batch meet method specific criteria.
- * Sample(s) M49645-4DUP were used as the QC samples for Solids, Total Suspended.

Wet Chemistry By Method EPA 180.1

Matrix: AQ

Batch ID: GN17466

- * All samples were analyzed within the recommended method holding time.
- * All method blanks for this batch meet method specific criteria.
- * Sample(s) M49645-4DUP were used as the QC samples for Turbidity.

Wet Chemistry By Method EPA 418.1

Matrix: AQ

Batch ID: GP5828

- ※ All samples were distilled within the recommended method holding time.
- ※ All samples were analyzed within the recommended method holding time.
- ※ All method blanks for this batch meet method specific criteria.
- ※ Sample(s) M49688-2DUP, M49688-5MS were used as the QC samples for Petroleum Hydrocarbons.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M49645).



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-CAM

Exhibit VII A-1

21 May 2004

Revision No. 3.2

Final

Page 10 of 32

Title: MADEP MCP Response Action Analytical Report Certification Form

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Accutest Laboratories of New England

Project #: M49645

Project Location: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

MADEP RTN ¹ None

This form provides certifications for the following data set:

M49645-1, M49645-2, M49645-3, M49645-4, M49645-5, M49645-6, M49645-7

Test Method: EPA 624, 110.2, 160.2, 180.1, 418.1, and below

Sample Matrices: Groundwater X Soil/Sediment () Drinking Water () Other: () ()

MCP SW-846	8260B ()	8151A ()	8330 ()	6010B (X)	7470A/1A ()
Methods Used	8270C ()	8081A ()	VPH ()	6020 ()	9014M ² ()
As specified in MADEP Compendium of Analytical Methods (Check all that apply)	8082 ()	8021B ()	EPH ()	7000 S ³ ()	7196A ()

¹ List Release Tracking Number (RTN), if known

² M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method

³ S - SW-846 Methods 7000 Series. List individual method and analyte

An affirmative response to questions A, B, C, and D is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	☒	Yes	☐ No ¹
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	☒	Yes	☐ No ¹
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☒	Yes	☐ No ¹
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	☒	Yes	☐ No ¹

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	☒	Yes	☐ No ¹
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☐	Yes	☒ No ¹

Refer to Narrative

Refer to Narrative

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:

Position:

Laboratory Director

Printed Name:

Reza Tand

Date:

08/11/2005

Sample Summary

Exxon Service Station

Job No: M49645

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4506003635 WBS#08

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
M49645-1	08/02/05	11:35 RMB	08/02/05	AQ Ground Water	IX-MID-080205
M49645-2	08/02/05	11:40 RMB	08/02/05	AQ Ground Water	IX-INF-080205
M49645-3	08/02/05	12:10 RMB	08/02/05	AQ Ground Water	INF-GW-080205
M49645-4	08/02/05	11:30 RMB	08/02/05	AQ Ground Water	EFF-GW-080205
M49645-5	08/02/05	11:55 RMB	08/02/05	AQ Ground Water	MID-GW-080205
M49645-6	08/02/05	11:45 RMB	08/02/05	AQ Ground Water	ASINF-GW-080205
M49645-7	08/02/05	11:50 RMB	08/02/05	AQ Ground Water	ASEFF-GW-080205

Report of Analysis

Page 1 of 1

Client Sample ID:	INF-GW-080205	Date Sampled:	08/02/05
Lab Sample ID:	M49645-3	Date Received:	08/02/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D44732.D	1	08/05/05	AT	n/a	n/a	MSD2545
Run #2	D44744.D	500	08/06/05	AT	n/a	n/a	MSD2545

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	6.4	0.50	ug/l	
108-88-3	Toluene	45.2	1.0	ug/l	
100-41-4	Ethylbenzene	362	1.0	ug/l	
1330-20-7	Xylenes (total)	621	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	11800 ^a	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	94%	96%	76-138%
2037-26-5	Toluene-D8 (SUR)	97%	95%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	100%	96%	76-114%

(a) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: INF-GW-080205	Date Sampled: 08/02/05
Lab Sample ID: M49645-3	Date Received: 08/02/05
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	<5.0	5.0	ug/l	1	08/04/05	08/05/05 LMN	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA6137

(2) Prep QC Batch: MP7473

Report of Analysis

Page 1 of 1

Client Sample ID: INF-GW-080205	Date Sampled: 08/02/05
Lab Sample ID: M49645-3	Date Received: 08/02/05
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Color, Apparent	40	5	CU	1	08/02/05 17:40	MA	EPA 110.2
Petroleum Hydrocarbons	1.4	0.62	mg/l	1	08/08/05	BF	EPA 418.1
Solids, Total Suspended	12.0	4.0	mg/l	1	08/04/05	BF	EPA 160.2
Turbidity	8.5	0.50	NTU	1	08/02/05 17:10	MA	EPA 180.1

RL = Reporting Limit

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 1

Job Number: M49645
Account: EXXONSS Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2545-MB	D44723.D	1	08/05/05	AT	n/a	n/a	MSD2545

The QC reported here applies to the following samples:

Method: EPA 624

M49645-3, M49645-5, M49645-6, M49645-7

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	95% 76-138%
2037-26-5	Toluene-D8 (SUR)	95% 86-114%
460-00-4	4-Bromofluorobenzene (SUR)	92% 76-114%

Blank Spike Summary

Page 1 of 1

Job Number: M49645

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2545-BS	D44721.D	1	08/05/05	AT	n/a	n/a	MSD2545

The QC reported here applies to the following samples:

Method: EPA 624

M49645-3, M49645-5, M49645-6, M49645-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	16.1	81	37-151
100-41-4	Ethylbenzene	20	21.5	108	37-162
1634-04-4	Methyl Tert Butyl Ether	20	21.8	109	58-150
108-88-3	Toluene	20	20.8	104	47-150
1330-20-7	Xylenes (total)	60	61.7	103	68-136

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	99%	76-138%
2037-26-5	Toluene-D8 (SUR)	98%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	97%	76-114%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: M49645

Account: EXXONSS Exxon Service Station

Project: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M49688-5MS	D44726.D	5	08/05/05	AT	n/a	n/a	MSD2545
M49688-5MSD	D44727.D	5	08/05/05	AT	n/a	n/a	MSD2545
M49688-5	D44725.D	1	08/05/05	AT	n/a	n/a	MSD2545

The QC reported here applies to the following samples:

Method: EPA 624

M49645-3, M49645-5, M49645-6, M49645-7

CAS No.	Compound	M49688-5 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	100	81.6	82	81.7	82	0	37-151/30
100-41-4	Ethylbenzene	ND	100	114	114	106	106	7	37-162/30
1634-04-4	Methyl Tert Butyl Ether	ND	100	104	104	109	109	5	46-150/24
108-88-3	Toluene	ND	100	111	111	113	113	2	47-150/30
1330-20-7	Xylenes (total)	ND	300	329	110	328	109	0	66-138/28

CAS No.	Surrogate Recoveries	MS	MSD	M49688-5	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	97%	97%	98%	76-138%
2037-26-5	Toluene-D8 (SUR)	98%	101%	93%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	96%	101%	96%	76-114%

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: M49645

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Method: EPA 624

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M49645-3	D44744.D	96.0	95.0	96.0
M49645-3	D44732.D	94.0	97.0	100.0
M49645-4	D44784.D	93.0	99.0	99.0
M49645-5	D44743.D	87.0	99.0	94.0
M49645-6	D44745.D	95.0	97.0	95.0
M49645-6	D44735.D	88.0	97.0	99.0
M49645-7	D44746.D	94.0	99.0	94.0
M49645-7	D44736.D	95.0	97.0	98.0
M49688-5MS	D44726.D	97.0	98.0	96.0
M49688-5MSD	D44727.D	97.0	101.0	101.0
MSD2545-BS	D44721.D	99.0	98.0	97.0
MSD2545-MB	D44723.D	95.0	95.0	92.0

Surrogate Compounds	Recovery Limits
------------------------	--------------------

S1 = 1,2-Dichloroethane-D4 (SUR) 76-138%

S2 = Toluene-D8 (SUR) 86-114%

S3 = 4-Bromofluorobenzene (SUR) 76-114%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M49645
Account: EXXONSS - Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP7473
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 08/04/05

Metal	RL	IDL	MB raw	final
Aluminum	200	14		
Antimony	6.0	1.6		
Arsenic	5.0	2.3		
Barium	200	1.7		
Beryllium	4.0	.18		
Boron	100	1.2		
Cadmium	4.0	.31		
Calcium	5000	4.7		
Chromium	10	.53		
Cobalt	50	.47		
Copper	25	2.8		
Iron	100	14		
Lead	5.0	1.9	-1.5	<5.0
Magnesium	5000	5.3		
Manganese	15	.17		
Molybdenum	100	.92		
Nickel	40	.65		
Potassium	5000	31		
Selenium	10	2.7		
Silver	5.0	.53		
Sodium	5000	110		
Strontium	10	.22		
Thallium	10	2.9		
Tin	100	9.4		
Titanium	50	1.3		
Vanadium	50	2.4		
Zinc	20	1.2		

Associated samples MP7473: M49645-1, M49645-2, M49645-3, M49645-4, M49645-5, M49645-6, M49645-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M49645
 Account: EXXONSS - Exxon Service Station
 Project: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP7473
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date:

08/04/05

08/04/05

Metal	M49645-1 Original MS		Spikelot MP1RWS2 % Rec		QC Limits	M49645-1 Original DUP		RPD	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	0.0	1010	1000	101.0	75-125	0.0	0.0	NC	0-20
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP7473: M49645-1, M49645-2, M49645-3, M49645-4, M49645-5, M49645-6, M49645-7

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M49645

Account: EXXONSS - Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP7473
Matrix Type: AQUEOUSMethods: SW846 6010B
Units: ug/l

Prep Date: 08/04/05

08/04/05

Metal	BSP Result	Spikelot MPIRWS2	% Rec	QC Limits	BSD Result	Spikelot MPIRWS2	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	976	1000	97.6	80-120	1020	1000	102.0	4.4	
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP7473: M49645-1, M49645-2, M49645-3, M49645-4, M49645-5, M49645-6, M49645-7

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: M49645
 Account: EXXONSS - Exxon Service Station
 Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP7473
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 08/04/05

M49645-1		QC	
Metal	Original SDL 1:5 RPD	Limits	
Aluminum			
Antimony			
Arsenic			
Barium			
Beryllium			
Boron			
Cadmium			
Calcium			
Chromium			
Cobalt			
Copper			
Iron			
Lead	0.00 0.00	NC	0-10
Magnesium			
Manganese			
Molybdenum			
Nickel			
Potassium			
Selenium			
Silver			
Sodium			
Strontium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc			

Associated samples MP7473: M49645-1, M49645-2, M49645-3, M49645-4, M49645-5, M49645-6, M49645-7

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M49645

Account: EXXONSS - Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Color, Apparent	GN17469	5	<5	CU				
Petroleum Hydrocarbons	GP5828/GN17507	0.60	<0.60	mg/l	5	4.2	84.0	80-120%
Solids, Total Suspended	GN17479	4.0	<4.0	mg/l				
Turbidity	GN17466	0.50	<0.50	NTU				

Associated Samples:

Batch GN17466: M49645-3, M49645-4

Batch GN17469: M49645-3, M49645-4

Batch GN17479: M49645-3, M49645-4

Batch GP5828: M49645-3, M49645-4

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M49645
Account: EXXONSS - Exxon Service Station
Project: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Color, Apparent	GN17469	M49645-4	CU	<5	<5	0.0	0-20%
Petroleum Hydrocarbons	GP5828/GN17507	M49688-2	mg/l	<0.61	<0.61	0.0	0-20%
Solids, Total Suspended	GN17479	M49645-4	mg/l	<4.0	<4.0	0.0	0-20%
Turbidity	GN17466	M49645-4	NTU	<0.50	<0.50	0.0	0-20%

Associated Samples:

Batch GN17466: M49645-3, M49645-4
Batch GN17469: M49645-3, M49645-4
Batch GN17479: M49645-3, M49645-4
Batch GP5828: M49645-3, M49645-4

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M49645
Account: EXXONSS - Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Petroleum Hydrocarbons	GP5828/GN17507	M49688-5	mg/l	<0.61	5.1	5.1	100.0	75-125%

Associated Samples:
Batch GP5828: M49645-3, M49645-4

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Sample Tracking Chronicle

Internal Sample Tracking Chronicle

Exxon Service Station

Job No: M49645

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4506003635 WBS#08

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M49645-1 Collected: 02-AUG-05 11:35 By: RMB Received: 02-AUG-05 By: RS IX-MID-080205						
M49645-1	SW846 6010B	05-AUG-05 15:06	LMN	04-AUG-05 OP		PB
M49645-2 Collected: 02-AUG-05 11:40 By: RMB Received: 02-AUG-05 By: RS IX-INF-080205						
M49645-2	SW846 6010B	05-AUG-05 15:18	LMN	04-AUG-05 OP		PB
M49645-3 Collected: 02-AUG-05 12:10 By: RMB Received: 02-AUG-05 By: RS INF-GW-080205						
M49645-3	EPA 180.1	02-AUG-05 17:10	MA			TURB
M49645-3	EPA 110.2	02-AUG-05 17:40	MA			COL
M49645-3	EPA 160.2	04-AUG-05	BF			TSS
M49645-3	SW846 6010B	05-AUG-05 15:24	LMN	04-AUG-05 OP		PB
M49645-3	EPA 624	05-AUG-05 23:37	AT			V624BTXM
M49645-3	EPA 624	06-AUG-05 11:12	AT			V624BTXM
M49645-3	EPA 418.1	08-AUG-05	BF	08-AUG-05 BF		PHC
M49645-4 Collected: 02-AUG-05 11:30 By: RMB Received: 02-AUG-05 By: RS EFF-GW-080205						
M49645-4	EPA 180.1	02-AUG-05 17:10	MA			TURB
M49645-4	EPA 110.2	02-AUG-05 17:40	MA			COL
M49645-4	EPA 160.2	04-AUG-05	BF			TSS
M49645-4	SW846 6010B	05-AUG-05 15:41	LMN	04-AUG-05 OP		PB
M49645-4	EPA 418.1	08-AUG-05	BF	08-AUG-05 BF		PHC
M49645-4	EPA 624	09-AUG-05 16:55	AT			V624BTXM
M49645-5 Collected: 02-AUG-05 11:55 By: RMB Received: 02-AUG-05 By: RS MID-GW-080205						
M49645-5	SW846 6010B	05-AUG-05 15:47	LMN	04-AUG-05 OP		PB
M49645-5	EPA 624	06-AUG-05 10:35	AT			V624BTXM
M49645-6 Collected: 02-AUG-05 11:45 By: RMB Received: 02-AUG-05 By: RS ASINF-GW-080205						

Internal Sample Tracking Chronicle

Exxon Service Station

Job No: M49645

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Project No: PO#4506003635 WBS#08

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M49645-6	SW846 6010B	05-AUG-05 15:53	LMN	04-AUG-05	OP	PB
M49645-6	EPA 624	06-AUG-05 01:31	AT			V624BTXM
M49645-6	EPA 624	06-AUG-05 11:50	AT			V624BTXM
M49645-7 Collected: 02-AUG-05 11:50 By: RMB Received: 02-AUG-05 By: RS ASEFP-GW-080205						
M49645-7	SW846 6010B	05-AUG-05 15:59	LMN	04-AUG-05	OP	PB
M49645-7	EPA 624	06-AUG-05 02:09	AT			V624BTXM
M49645-7	EPA 624	06-AUG-05 12:28	AT			V624BTXM

INTERNAL MEMO
SAMPLE MANAGEMENT

Client: C.D.M. Point of contact: Jon Welch Time of contact: PM

Tel # _____ Fax # _____ Job #: 1149645

Sample status: ☐ Cancel: ☐ Add: ☐ Change: ☐

Turn Around:

Supply status: Bottles: COC: Preservative:

[illegible]



Laboratories

M49645

Client Information						Facility Information						Analytical Information																													
EXXONMOBIL CORPORATION - Regional Laboratory Program Northeast																																									
Consultant's Company Name: CDM						Project Name: XOM Buxboro																																			
Address 50 Hampshire St City State Zip Cambridge MA 02137						Street 1425 Mass. Ave City State Buxboro MA																																			
Project Contact Jon Welch						ExxonMobil Contact ERIC Errico																																			
Sampler's Name: Ryan Bouldin						ExxonMobil Contact Phone #:																																			
Phone #: 617-452-6000 Ext.						Location ID: WBSS# 3-5805																																			
AFE #:						POI:																																			
Accutest Sample #		Field ID / Point of Collection		Collection		Preservation		# of bottles		Matrix		TBA		VOC AQUEOUS		PPL		VOC SOIL		VPH-RANGES		EPH-RANGES		TPH-GTDEP		TPH-MAINE GRO		TPH-9015 GRO		METALS TOTAL		METALS TCLP		Color/Turbidity		Total Seilable Solids		Total Lead (Unfiltered)			
-1	IX-Mid-080205	B-2-05	1135	RMB	GW	1	HCL	HNO3	H2SO4	MEOH	ENCORE	Other	None	TBA □ Naphthalenes □ 8021 □ 824 □ MTBE □ Oxygenates	VOC AQUEOUS 8260 □ 624 □ 524 □ STD □ TCL □ PPL □ MTBE □ TBA □ Oxygenates	VOC SOIL 8260 □ STD □ TCL □ PPL □ MTBE □ TBA □ Oxygenates	VPH-RANGES □ TARGETS □	EPH-RANGES □ TARGET (PAH) □ DIESEL (PAH) □	TPH-GTDEP □ TPH18.17 □	TPH-MAINE GRO □ DRO □	TPH-9015 GRO □ TPH-9015 DRO □	METALS TOTAL □ DISSOLVED □ HM8 □ HM5 □	METALS TCLP □ SPLP □ HM8 □ HM5 □	Color/Turbidity	Total Seilable Solids	Total Lead (Unfiltered)															
-2	IX-Inf-080205		1140			1								X																											
-3	Inf-GW-080205		1210			7																																			
-4	Eff-GW-080205		1130			7																																			
-5	Mid-GW-080205		1155			3																																			
-6	AS Inf-GW-080205		1145			3																																			
-7	ASEFF-GW-080205		1150			3																																			

Turnaround Time (Business days)

Std. 10 Business Days _____ Approved By/Date _____

8 Day RUSH _____

5 Day RUSH _____

3 Day EMERGENCY _____

2 Day EMERGENCY _____

1 Day EMERGENCY _____

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

☐ Commercial "A" ☐ FULL CLP

☐ Commercial "B" ☐ State Forms

☐ Full Deliverables ☐ Disk Deliverable Format

☐ Other _____

Site Specific: QC Yes ☐ No ☐ If yes, indicate QC sample in Comments and submit triplicate volume.

Comments / Remarks

NCP Presumptive Certainty Required

* 5 day TAT, all others standard TAT

GW-1 stds Apply

Loc. SB 11B, 2C3, 4F

Sample Custody must be documented below each time samples change possession, including courier delivery.

Date Time:	Received by:	Date Time:	Relinquished by:
8/2/05 13:30	[Signature]		

Seal #

Received by: _____ Date Time: _____

Relinquished by: _____ Date Time: _____

Preserved where applicable _____

Technical Report for

Exxon Service Station

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

PO#4506003635 WBS#08

Accutest Job Number: M50976

Sampling Date: 09/22/05

Report to:

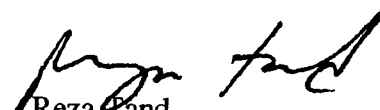
Camp Dresser & McKee
50 Hampshire Avenue
Cambridge, MA 02139

ATTN: Jon Welch

Total number of pages in report: 28



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Reza Fand
Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579)
NY (23346) NJ (MA926) NAVY USACE

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SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Exxon Service Station

Job No M50976

Site: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Report Date 10/4/2005 5:08:00 PM

2 Samples were collected on 09/22/2005 and were received at Accutest on 09/22/2005 properly preserved, at 4.2 Deg. C and intact. These Samples received an Accutest job number of M50976. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method EPA 624

Matrix: AQ

Batch ID: MSD2561

- * All samples were analyzed within the recommended method holding time.
- * All method blanks for this batch meet method specific criteria.
- * Sample(s) M50979-1MS, M50979-1MSD were used as the QC samples indicated.
- * Only BTX and MTBE requested.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP7668

- * All samples were digested within the recommended method holding time.
- * All samples were analyzed within the recommended method holding time.
- * All method blanks for this batch meet method specific criteria.
- * Sample(s) M50854-1ADUP, M50854-1AMS, M50854-1ASDL were used as the QC samples for metals.

Wet Chemistry By Method EPA 110.2

Matrix: AQ

Batch ID: GN17898

- * All samples were analyzed within the recommended method holding time.
- * All method blanks for this batch meet method specific criteria.
- * Sample(s) M50976-2DUP were used as the QC samples for Color, Apparent.

Wet Chemistry By Method EPA 160.2

Matrix: AQ

Batch ID: GN17905

- * All samples were analyzed within the recommended method holding time.
- * All method blanks for this batch meet method specific criteria.
- * Sample(s) M50976-2DUP were used as the QC samples for Solids, Total Suspended.

Wet Chemistry By Method EPA 160.5

Matrix: AQ

Batch ID: GN17899

- * All samples were analyzed within the recommended method holding time.
- * All method blanks for this batch meet method specific criteria.
- * Sample(s) M50976-1DUP were used as the QC samples for Solids, Settleable.

Wet Chemistry By Method EPA 180.1

Matrix: AQ

Batch ID: GN17900

- * All samples were analyzed within the recommended method holding time.
- * All method blanks for this batch meet method specific criteria.
- * Sample(s) M50976-2DUP were used as the QC samples for Turbidity.

Wet Chemistry By Method EPA 418.1

Matrix: AQ

Batch ID: GP5984

- * All samples were distilled within the recommended method holding time.
- * All samples were analyzed within the recommended method holding time.
- * All method blanks for this batch meet method specific criteria.
- * Sample(s) M50936-1DUP, M50936-2MS were used as the QC samples for Petroleum Hydrocarbons.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M50976).



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-CAM

Exhibit VII A-1

21 May 2004

Revision No. 3.2

Final

Page 10 of 32

Title: MADEP MCP Response Action Analytical Report Certification Form

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Accutest Laboratories of New England

Project #: M50976

Project Location: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

MADEP RTN ¹ None

This form provides certifications for the following data set:
M50976-1, M50976-2

Test Method: EPA 624, 110.2, 160.2, 160.5, 180.1, 418.1, and below

Sample Matrices: Groundwater X Soil/Sediment () Drinking Water () Other: () ()

MCP SW-846	8260B ()	8151A ()	8330 ()	6010B (X)	7470A/1A ()
Methods Used	8270C ()	8081A ()	VPH ()	6020 ()	9014M ² ()
As specified in MADEP Compendium of Analytical Methods (Check all that apply)	8082 ()	8021B ()	EPH ()	7000 S ³ ()	7196A ()
¹ List Release Tracking Number (RTN), if known ² M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method ³ S - SW-846 Methods 7000 Series. List individual method and analyte					

An affirmative response to questions A, B, C, and D is required for "Presumptive Certainty status"

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	☒	Yes	☐ No ¹
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	☒	Yes	☐ No ¹
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☒	Yes	☐ No ¹
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	☒	Yes	☐ No ¹

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	☒	Yes	☐ No ¹
Refer to Narrative				
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☐	Yes	☒ No ¹
Refer to Narrative				

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:

Position: Laboratory Director

Printed Name: Reza Tand

Date: 10/04/2005

Sample Summary

Exxon Service Station

Job No: M50976

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4506003635 WBS#08

Sample Number	Collected		Matrix		Client Sample ID
	Date	Time By	Received	Code Type	
M50976-1	09/22/05	13:10 TAN	09/22/05	AQ Ground Water	INF-GW-92205
M50976-2	09/22/05	13:20 TAN	09/22/05	AQ Ground Water	EPP-GW-92205

Report of Analysis

Page 1 of 1

Client Sample ID:	INF-GW-92205	Date Sampled:	09/22/05
Lab Sample ID:	M50976-1	Date Received:	09/22/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D45321.D	1	09/26/05	AT	n/a	n/a	MSD2561
Run #2	D45338.D	50	09/27/05	AT	n/a	n/a	MSD2561

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	5.8	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3140 ^a	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	116%	114%	76-138%
2037-26-5	Toluene-D8 (SUR)	98%	98%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	103%	106%	76-114%

(a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: INF-GW-92205	Date Sampled: 09/22/05
Lab Sample ID: M50976-1	Date Received: 09/22/05
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	<5.0	5.0	ug/l	1	09/26/05	09/27/05 LMN	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA6289

(2) Prep QC Batch: MP7668

Report of Analysis

Page 1 of 1

Client Sample ID: INF-GW-92205	Date Sampled: 09/22/05
Lab Sample ID: M50976-1	Date Received: 09/22/05
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Color, Apparent	75	25	CU	5	09/22/05 17:40	MA	EPA 110.2
Petroleum Hydrocarbons	<0.61	0.61	mg/l	1	09/23/05	BF	EPA 418.1
Solids, Settleable	<0.10	0.10	ml/l/hr	1	09/22/05 17:30	MA	EPA 160.5
Solids, Total Suspended	12.0	4.0	mg/l	1	09/23/05	BF	EPA 160.2
Turbidity	18.1	0.50	NTU	1	09/22/05 17:25	MA	EPA 180.1

RL = Reporting Limit

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 1

Job Number: M50976

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2561-MB	D45311.D	1	09/26/05	AT	n/a	n/a	MSD2561

The QC reported here applies to the following samples:

Method: EPA 624

M50976-1, M50976-2

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	107% 76-138%
2037-26-5	Toluene-D8 (SUR)	98% 86-114%
460-00-4	4-Bromofluorobenzene (SUR)	104% 76-114%

Blank Spike Summary

Page 1 of 1

Job Number: M50976

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSD2561-BS	D45309.D	1	09/26/05	AT	n/a	n/a	MSD2561

The QC reported here applies to the following samples:

Method: EPA 624

M50976-1, M50976-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	22.6	113	37-151
100-41-4	Ethylbenzene	20	21.1	106	37-162
1634-04-4	Methyl Tert Butyl Ether	20	22.9	115	58-150
108-88-3	Toluene	20	20.8	104	47-150
1330-20-7	Xylenes (total)	60	62.7	105	68-136

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	105%	76-138%
2037-26-5	Toluene-D8 (SUR)	104%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	105%	76-114%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: M50976

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M50979-1MS	D45314.D	5	09/26/05	AT	n/a	n/a	MSD2561
M50979-1MSD	D45315.D	5	09/26/05	AT	n/a	n/a	MSD2561
M50979-1	D45313.D	1	09/26/05	AT	n/a	n/a	MSD2561

The QC reported here applies to the following samples:

Method: EPA 624

M50976-1, M50976-2

CAS No.	Compound	M50979-1 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	100	116	116	114	114	2	37-151/30
100-41-4	Ethylbenzene	ND	100	105	105	107	107	2	37-162/30
1634-04-4	Methyl Tert Butyl Ether	69.0	100	150	81	144	75	4	46-150/24
108-88-3	Toluene	ND	100	110	110	104	104	6	47-150/30
1330-20-7	Xylenes (total)	ND	300	309	103	298	99	4	66-138/28

CAS No.	Surrogate Recoveries	MS	MSD	M50979-1	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	109%	104%	114%	76-138%
2037-26-5	Toluene-D8 (SUR)	102%	96%	96%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	106%	106%	100%	76-114%

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M50976
Account: EXXONSS - Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP7668
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 09/26/05

Metal	RL	IDL	MB raw	final
Aluminum	200	14		
Antimony	6.0	1.6	anr	
Arsenic	5.0	2.3	anr	
Barium	200	.64	anr	
Beryllium	4.0	.18	anr	
Boron	100	1.2		
Cadmium	4.0	.22	anr	
Calcium	5000	4.7		
Chromium	10	.53	anr	
Cobalt	50	.47		
Copper	25	1.2		
Iron	100	14	anr	
Lead	5.0	1.2	-0.43	<5.0
Magnesium	5000	5.3		
Manganese	15	.17		
Molybdenum	100	.48		
Nickel	40	.49	anr	
Potassium	5000	19		
Selenium	10	1.7	anr	
Silicon	100	11		
Silver	5.0	.12	anr	
Sodium	5000	94		
Strontium	10	.12		
Thallium	10	2.9	anr	
Tin	100	1.7		
Titanium	50	1.3		
Tungsten	100			
Vanadium	50	1.3	anr	
Zinc	20	1.2	anr	

Associated samples MP7668: M50976-1, M50976-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M50976
 Account: EXXONSS - Exxon Service Station
 Project: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP7668
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date:

09/26/05

09/26/05

Metal	M50854-1A Original MS	Spikelot MPIRWS2	% Rec	QC Limits	M50854-1A Original DUP	RPD	QC Limits
Aluminum							
Antimony	anr						
Arsenic	anr						
Barium	anr						
Beryllium	anr						
Boron							
Cadmium	anr						
Calcium							
Chromium	anr						
Cobalt							
Copper							
Iron	anr						
Lead	0.0	952	1000	95.2	75-125	0.0	0.0
Magnesium							
Manganese							
Molybdenum							
Nickel	anr						
Potassium							
Selenium	anr						
Silicon							
Silver	anr						
Sodium							
Strontium							
Thallium	anr						
Tin							
Titanium							
Tungsten							
Vanadium	anr						
Zinc	anr						

Associated samples MP7668: M50976-1, M50976-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: M50976

Account: EXXONSS Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Method: EPA 624

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M50976-1	D45338.D	114.0	98.0	106.0
M50976-1	D45321.D	116.0	98.0	103.0
M50976-2	D45336.D	109.0	92.0	105.0
M50979-1MS	D45314.D	109.0	102.0	106.0
M50979-1MSD	D45315.D	104.0	96.0	106.0
MSD2561-BS	D45309.D	105.0	104.0	105.0
MSD2561-MB	D45311.D	107.0	98.0	104.0

Surrogate
Compounds

Recovery
Limits

S1 = 1,2-Dichloroethane-D4 (SUR) 76-138%

S2 = Toluene-D8 (SUR) 86-114%

S3 = 4-Bromofluorobenzene (SUR) 76-114%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M50976

Account: EXXONSS - Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP7668

Methods: SW846 6010B

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

09/26/05

09/26/05

Metal	BSP Result	Spikelot MPIRWS2	% Rec	QC Limits	BSD Result	Spikelot MPIRWS2	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper									
Iron	anr								
Lead	982	1000	98.2	80-120	1010	1000	101.0	2.8	
Magnesium									
Manganese									
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silicon									
Silver	anr								
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

Associated samples MP7668: M50976-1, M50976-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: M50976
 Account: EXXONSS - Exxon Service Station
 Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

QC Batch ID: MP7668
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 09/26/05

Metal		M50854-1A Original SDL 1:5 RPD		QC Limits	
Aluminum					
Antimony	anr				
Arsenic	anr				
Barium	anr				
Beryllium	anr				
Boron					
Cadmium	anr				
Calcium					
Chromium	anr				
Cobalt					
Copper					
Iron	anr				
Lead	0.00	0.00	NC	0-10	
Magnesium					
Manganese					
Molybdenum					
Nickel	anr				
Potassium					
Selenium	anr				
Silicon					
Silver	anr				
Sodium					
Strontium					
Thallium	anr				
Tin					
Titanium					
Tungsten					
Vanadium	anr				
Zinc	anr				

Associated samples MP7668: M50976-1, M50976-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M50976

Account: EXXONSS - Exxon Service Station

Project: CDM/S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Color, Apparent	GN17898	5	<5	CU				
Petroleum Hydrocarbons	GP5984/GN17906	0.60	<0.60	mg/l	5	5.1	102.0	80-120%
Solids, Settleable	GN17899	0.10	<0.10	ml/l/hr				
Solids, Total Suspended	GN17905	4.0	<4.0	mg/l				
Turbidity	GN17900	0.50	<0.50	NTU				

Associated Samples:

Batch GN17898: M50976-1, M50976-2

Batch GN17899: M50976-1, M50976-2

Batch GN17900: M50976-1, M50976-2

Batch GN17905: M50976-1, M50976-2

Batch GP5984: M50976-1, M50976-2



ACCUTEST.

Laboratories

CHAIN OF CUSTODY

495 Tech Center West, Bldg. 1

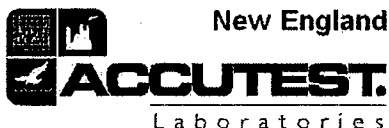
508-481-6200 FAX: 508-481-6200

Accutest Job #

M50976

10/11

[illegible]



10/19/05

Technical Report for

Exxon Service Station

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

PO#4506003635 WBS#08

Accutest Job Number: M51386

Sampling Date: 10/04/05

Report to:

Camp, Dresser & McKee

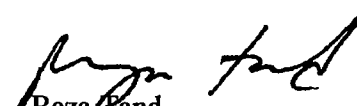
HimmelDB@cdm.com

ATTN: Dana Himmel

Total number of pages in report: 11



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Reza Fand
Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579)
NY (23346) NJ (MA926) NAVY USACE

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DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M50976
Account: EXXONSS - Exxon Service Station
Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Color, Apparent	GN17898	M50976-2	CU	<5	<5	0.0	0-20%
Petroleum Hydrocarbons	GP5984/GN17906	M50936-1	mg/l	<0.61	<0.61	0.0	0-20%
Solids, Settleable	GN17899	M50976-1	ml/l/hr	<0.10	<0.10	0.0	0-20%
Solids, Total Suspended	GN17905	M50976-2	mg/l	<4.0	<4.0	0.0	0-20%
Turbidity	GN17900	M50976-2	NTU	<0.50	<0.50	0.0	0-20%

Associated Samples:

Batch GN17898: M50976-1, M50976-2
Batch GN17899: M50976-1, M50976-2
Batch GN17900: M50976-1, M50976-2
Batch GN17905: M50976-1, M50976-2
Batch GP5984: M50976-1, M50976-2

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M50976

Account: EXXONSS - Exxon Service Station

Project: CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Petroleum Hydrocarbons	GP5984/GN17906	M50936-2	mg/l	<0.61	5.1	5.2	102.0	75-125%

Associated Samples:

Batch GP5984: M50976-1, M50976-2

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Sample Tracking Chronicle

Internal Sample Tracking Chronicle

Exxon Service Station

Job No: M50976

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4506003635 WBS#08

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M50976-1 Collected: 22-SEP-05 13:10 By: TAN Received: 22-SEP-05 By: RS INF-GW-92205						
M50976-1	EPA 180.1	22-SEP-05 17:25	MA			TURB
M50976-1	EPA 160.5	22-SEP-05 17:30	MA			SS
M50976-1	EPA 110.2	22-SEP-05 17:40	MA			COL
M50976-1	EPA 418.1	23-SEP-05	BF	23-SEP-05	BF	PHC
M50976-1	EPA 160.2	23-SEP-05	BF			TSS
M50976-1	EPA 624	26-SEP-05 23:48	AT			V624BTXM
M50976-1	EPA 624	27-SEP-05 11:00	AT			V624BTXM
M50976-1	SW846 6010B	27-SEP-05 11:19	LMN	26-SEP-05	OP	PB
M50976-2 Collected: 22-SEP-05 13:20 By: TAN Received: 22-SEP-05 By: RS EFF-GW-92205						
M50976-2	EPA 180.1	22-SEP-05 17:25	MA			TURB
M50976-2	EPA 110.2	22-SEP-05 17:40	MA			COL
M50976-2	EPA 160.5	22-SEP-05 18:35	MA			SS
M50976-2	EPA 418.1	23-SEP-05	BF	23-SEP-05	BF	PHC
M50976-2	EPA 160.2	23-SEP-05	BF			TSS
M50976-2	EPA 624	27-SEP-05 09:43	AT			V624BTXM
M50976-2	SW846 6010B	27-SEP-05 11:25	LMN	26-SEP-05	OP	PB

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Sample Summary

Exxon Service Station

Job No: M51386

CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA
Project No: PO#4506003635 WBS#08

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
M51386-1	10/04/05	10:30 TAN	10/04/05	AQ Ground Water	INF-10405
M51386-2	10/04/05	08:30 TAN	10/04/05	AQ Trip Blank Water	TB

Report of Analysis

Page 1 of 1

Client Sample ID:	INF-10405	Date Sampled:	10/04/05
Lab Sample ID:	M51386-1	Date Received:	10/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	P2140.D	1	10/10/05	AMY	n/a	n/a	MSP73
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Oxygenates

CAS No.	Compound	Result	RL	Units	Q
994-05-8	tert-Amyl Methyl Ether	2.3	2.0	ug/l	
75-65-0	Tert Butyl Alcohol	551	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		82-127%
2037-26-5	Toluene-D8	99%		88-112%
460-00-4	4-Bromofluorobenzene	110%		80-118%

(a) The pH of the sample aliquot for VOA analysis was > 2 at time of analysis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	INF-10405	Date Sampled:	10/04/05
Lab Sample ID:	M51386-1	Date Received:	10/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 625 EPA 625		
Project:	CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E24637.D	1	10/07/05	PB	10/06/05	OP9781	MSE1288
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
91-20-3	Naphthalene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	57%		22-126%
321-60-8	2-Fluorobiphenyl	53%		21-124%
1718-51-0	Terphenyl-d14	50%		24-133%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	INF-10405	Date Sampled:	10/04/05
Lab Sample ID:	M51386-1	Date Received:	10/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 504 EPA 504		
Project:	CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ28984.D	1	10/11/05	CZ	10/10/05	OP9803	GYZ1204
Run #2							

	Initial Volume	Final Volume
Run #1	42.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
---------	----------	--------	----	-------	---

106-93-4	1,2-Dibromoethane	ND	0.012	ug/l	
----------	-------------------	----	-------	------	--

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
---------	----------------------	--------	--------	--------

460-00-4	Bromofluorobenzene (S)	124%		26-158%
----------	------------------------	------	--	---------

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	INF-10405	Date Sampled:	10/04/05
Lab Sample ID:	M51386-1	Date Received:	10/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	4180	100	ug/l	1	10/07/05	10/10/05 AC	SW846 6010B ²	SW846 3010A ³
Lead	<1.0	1.0	ug/l	1	10/10/05	10/10/05 LMN	EPA 239.2 ¹	SW846 3020A ⁴

(1) Instrument QC Batch: MA6325

(2) Instrument QC Batch: MA6332

(3) Prep QC Batch: MP7728

(4) Prep QC Batch: MP7730

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	TB	Date Sampled:	10/04/05
Lab Sample ID:	M51386-2	Date Received:	10/04/05
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	EPA 504 EPA 504		
Project:	CDM:S/S 3-5805 1425 Massachusetts Ave., Boxborough, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ28985.D	1	10/11/05	CZ	10/10/05	OP9803	GYZ1204
Run #2							

Run #	Initial Volume	Final Volume
Run #1	42.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.012	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
460-00-4	Bromofluorobenzene (S)	131%		26-158%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



Reza Tand

From: Himmel, Dana [HimmelDB@cdm.com]
Sent: Wednesday, October 05, 2005 8:21 AM
To: Reza Tand
Cc: Zigmont, James
Subject: RE: Samples (Charlton, Lee, and Boxborough)

Reza,

We would only like the analyses listed in this email. Please ignore the COCs, as we had received spotty information prior. Turns out the EPA only requires these additional parameters to be analyzed for a gasoline site. If you have any further questions, you can reach me at 617-452-6380.

From: Reza Tand [mailto:reza@accutest.com]
Sent: Tuesday, October 04, 2005 7:33 PM
To: Himmel, Dana
Cc: Zigmont, James; Welch, Jonathan; Molloy, Kevin
Subject: RE: Samples (Charlton, Lee, and Boxborough)

Hi Dana,

After looking at the COC's that we received, it appears there are more analysis requested than this email. I will call you in the morning to discuss what exactly you need & the T/A that we can offer you.

Thanks, Reza

From: Himmel, Dana [mailto:HimmelDB@cdm.com]
Sent: Tuesday, October 04, 2005 3:05 PM
To: Reza Tand
Cc: Zigmont, James; Welch, Jonathan; Molloy, Kevin
Subject: Samples (Charlton, Lee, and Boxborough)

Reza,

We had put the samples collected for the RGP process on hold, however, at this time, we wish to go ahead and analyze for the following for the influent samples collected today (10/3/05) from Charlton, Lee, and Boxborough:

Parameter	Necessary Detection Limit	Approved Methods
Naphthalene	20 ug/L	610 GC/FID, 625, 610 HPLC, 524.2, 8270D
Ethylene dibromide	0.05 ug/L	618, 504.1, 524.2, 8260C
tert-Butyl Alcohol	none	602, 1666, 8260C
tert-Amyl Methyl Ether	none	602, 8260C
Lead (total recoverable)	1.3 ug/L	Flame Atomic Absorption, ICP, Furnace Atomic Absorption
Iron (total recoverable)	1000 ug/L	Flame Atomic Absorption, ICP, Furnace Atomic Absorption

Please let me know if you have any questions. Thanks.

Dana Himmel

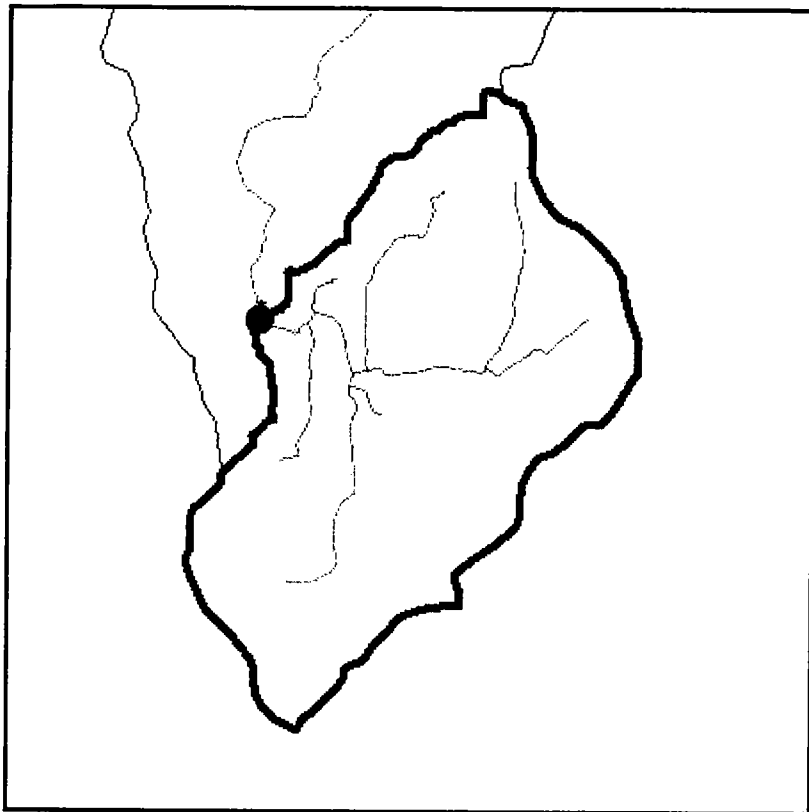
M51386: Chain of Custody
Page 2 of 2

Dilution Factor
NPDES RGP
Boxborough, Massachusetts

Qd gpm	Qd cfs	Qs (7Q10) cfs	DF
25	0.056	0.02	1.4



Streamflow Statistics Report



Date: Mon Oct 17 10:52:01 2005

Warning! Drainage Area outside allowable range. Prediction intervals not calculated.

Latitude: 42.4882

Longitude: -71.5398

Measured Basin Characteristics:

Drainage Area (square miles): 1.53

Stratified Drift Area (square miles): 0.12

Stream Length (miles): 4.35

Slope (percent): 2.57

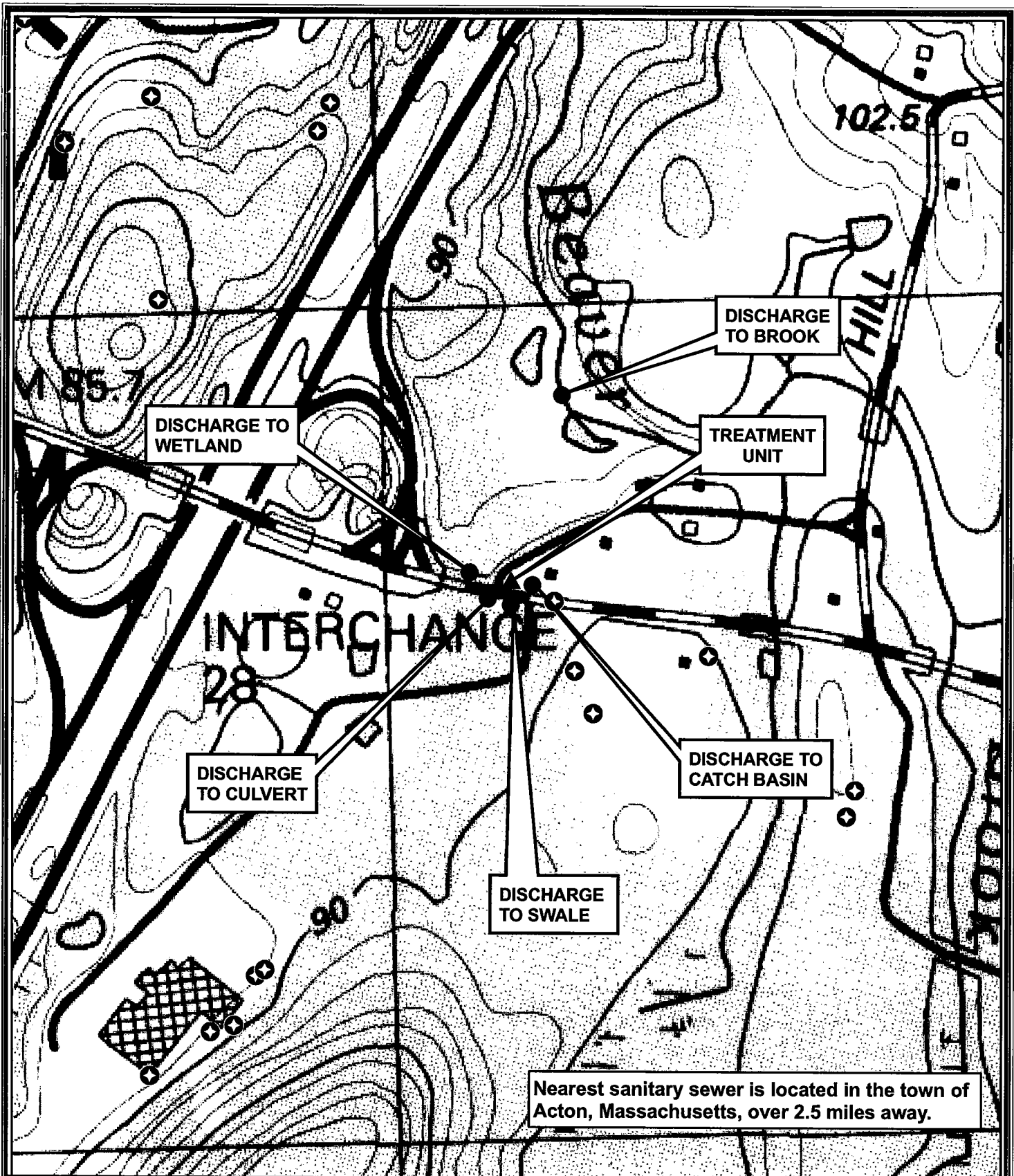
Region: 0

Statistic	Estimated streamflow, ft ³ /s	90% Prediction interval	
		Minimum	Maximum
99-percent duration flow	0.01		
98-percent duration flow	0.03		
95-percent duration flow	0.05		

90-percent duration flow	0.10		
85-percent duration flow	0.16		
80-percent duration flow	0.23		
75-percent duration flow	0.33		
70-percent duration flow	0.46		
60-percent duration flow	0.93		
50-percent duration flow	1.48		
7-day, 2-year low flow	0.06		
7-day, 10-year low flow	0.02		
August median flow	0.17		

U.S. Department of the Interior, U.S. Geological Survey
10 Bearfoot Road
Northborough, MA 01532
(508) 490-5000

Maintainer: webmaster@mass1.er.usgs.gov



FORMER EXXON SERVICE STATION NO. 3-5805
 1425 MASSACHUSETTS AVENUE (RT. 111)
 BOXBOROUGH, MASSACHUSETTS

Legend

⊕ Public Water Supply (Wells)



0 250 500 1,000
 Feet

NOTICE OF INTENT FOR
 REMEDIATION GENERAL PERMIT
 LOCATION MAP

CDM