



One Cambridge Place, 50 Hampshire Street
Cambridge, Massachusetts 02139
tel: 617 452-6000
fax: 617 452-8000

DC ✓
MAG-910150

October 21, 2005

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

OCT 24 2005

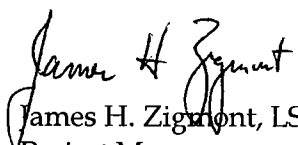
Subject: Notice of Intent
Remediation General Permit
Mobil Service Station No. 17248 (formerly 01-ELN)
328 Shrewsbury Street
Boylston, Massachusetts
Release Tracking Number 2-808
NPDES Exclusion Reference #01-055

To Whom It May Concern:

On behalf of Mobil Business Resource Corporation (Mobil), Camp Dresser & McKee, Inc. is submitting this Notice of Intent for the Remediation General Permit for Mobil Service Station No. 17248 (formerly 01-ELN) located at 328 Shrewsbury Street in Boylston, Massachusetts. Mobil 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 National Pollution Discharge Elimination System Exclusion Reference #01-055.

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

Very truly yours,


James H. Zigmunt, LSP
Project Manager
Camp Dresser & McKee Inc.


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

cc: Diane Belliveau, MADEP CERO
Elizabeth Zinkevich, ExxonMobil
Melanie Rich, Boylston 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: Mobil Service Station No. 17248 (formerly 01-ELN)		Facility/site address: 328 Shrewsbury Street	
Location of facility/site: Longitude: <u>-71°43'19"</u> latitude: <u>42°19'32"</u>		Facility SIC code(s): 5541	
b) Name of facility/site owner: Mobil Business Resources Corporation		Town: Boylston	
Email address of owner: elizabeth.e.zinkevicz@exxonmobil.com		State: MA	Zip: 01505
Telephone no. of facility/site owner: 617-381-2851		County: Worcester	
Fax no. of facility/site owner: 617-381-2911		Owner is (check one): 1. Federal _____ 2. State/Tribal _____	
Address of owner (if different from site):		3. Private ☒ 4. other, if so, describe: _____	
Street: 52 Beacham Street			
Town: Everett	State: MA	Zip: 02149-5226	County: Middlesex
c) Legal name of operator: Exxon Mobil Corporation		Operator telephone no: 617-381-2851	
		Operator fax no.: 617-381-2911	
Operator contact name and title: Elizabeth Zinkevicz, Project Manager			
Address of operator (if different from owner):		Street:	
Town:	State:	Zip:	County:
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: 01-055			
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: MCP compliance		1. multi-sector storm water general permit? Y _____ N ☒ if Y, number: _____	
		2. phase I or II construction storm water general permit? Y _____ N ☒	

1. site identification # assigned by the state of NH or MA: RTN 2-808	if Y, number: 3. individual NPDES permit? Y <u> </u> N <u>X</u> , if Y, number: 4. any other water quality related permit? Y <u> </u> N <u>X</u> , if Y, number:
2. permit or license # assigned: Tier 1A Permit No. 84852	
3. state agency contact information: name, location, and telephone number: MADEP, 627 Main Street, Worcester, MA 01608, 508-792-7650	

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 associated with operation of a vacuum enhanced groundwater extraction (VEGE) system. The VEGE system extracts groundwater which is transported to an oil/water separator and is then pumped through bag filters, a low profile air stripper, and 3 500-lb liquid granular activated carbon vessels prior to discharge.

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>0.078</u> ft ³ /sec Average flow <u>0.0031</u> ft ³ /sec 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°43'20" lat. 42°19'36" pt.2: long lat. pt.3: 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 N <u> </u> or seasonal N <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 04/02/01 end 10/01/15 Expected date for end of discharge is estimated and is dependent on achievement of groundwater cleanup standards under the Massachusetts Contingency Plan.

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 (2 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 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)
1. Total Suspended Solids		X	6	Grab	160.2	100	9,000	1.72	3,750	0.0286
2. Total Residual Chlorine	(1)									
3. Total Petroleum Hydrocarbons		X	6	Grab	418.1	100	370	0.071	270	0.00208
4. Cyanide	(1)									
5. Benzene		X	6	Grab	VPH-98-1 / 8260B / 624	1.0 / 0.5 / 0.5	184	0.035	43.28	0.00033
6. Toluene		X	6	Grab	VPH-98-1 / 8260B / 624	3.0 / 0.5 / 1.0	330	0.063	61.83	0.0005
7. Ethylbenzene		X	6	Grab	VPH-98-1 / 8260B / 624	1.0 / 0.5 / 1.0	101	0.019	20.53	0.0002

8. (m,p,o) Xylenes	X	6	Grab	VPH-98-1 / 8260B / 624	6.0 / 0.5 / 1.0	306	0.058	58.22	0.0004
9. Total BTEX ¹	X	6 sets	Grabs	VPH-98-1 / 8260B / 624	11 / 2.0 / 3.5	921	0.176	183.85	0.0014

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)	(2)									
11. Methyl-tert-Butyl Ether (MtBE)		X	6	Grab	VPH-98-1 / 8260B / 624	3.0 / 5.0 / 1.0	978	0.187	521.17	0.004
12. tert-Butyl Alcohol (TBA)	(2)									
13. tert-Amyl Methyl Ether (TAME)	(2)									
14. Naphthalene	(2)									
15. Carbon Tetrachloride	(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 Dichloroethylene	(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		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	(2)									
45. Mercury	(1)									
46. Nickel	(1)									
47. Selenium	(1)									
48. Silver	(1)									
49. Zinc	(1)									
50. Iron	(2)									
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) System turned off since July 21, 2005 for upgrades - new sample for these parameters unable to be obtained. Influent will be sampled once system comes back online. Data used consists of data collected between 9/2004 and 9/2005. 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: See 7. Supplemental Information

<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___ N___ *No new sample was able to be obtained due to upgrades to the system which require the system to remain off. Therefore, metals data is not available.	If yes, which metals?
<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: _____ DF: <u>1.0</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___ N___ If "Yes," list which metals:

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	GAC filter
	Chlorination	Dechlorination	Other (please describe):	Bag filter	
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>1.4 gpm</u> Maximum flow rate of treatment system <u>35 gpm</u> Design flow rate of treatment system <u>35 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: Discharge is to a storm drain which discharges to an unnamed tributary to Sewall 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</u> cfs 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> </u> No <u>X</u> If yes, for which pollutant(s)? Is there a TMDL? Yes <u> </u> No <u>X</u> If yes, for which pollutant(s)?						

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 ☐ See 7. Supplemental Information
Has any consultation with the federal services been completed? Yes ☐ No ☒ or is consultation underway? Yes ☒ No ☐
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 ☒ Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes ☐ No ☒ 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.

3. c) No new sample was able to be obtained due to upgrades to the system which require the system to remain off. Therefore, metals data is not available.
6. a) One species, the bald eagle, occurs in Boylston. Its status is threatened, and it is proposed for de-listing. The U.S. Fish and Wildlife Service has been consulted regarding the proximity of this species to the discharge (letter attached). No critical habitats are designated in the county.
6. b) No sites on the National Register of Historic Places are located within 1/2-mile of the facility or discharge location or within 1/4-mile of the unnamed tributary to Sewall Brook.

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: Mobil Service Station No. 17248 (formerly 01-ELN), Boylston, Massachusetts (NPDES Permit Exclusion Reference #01-055)

Operator signature:

Elizabeth Wutz

Title: Project Manager

Date:

10.10.19.05



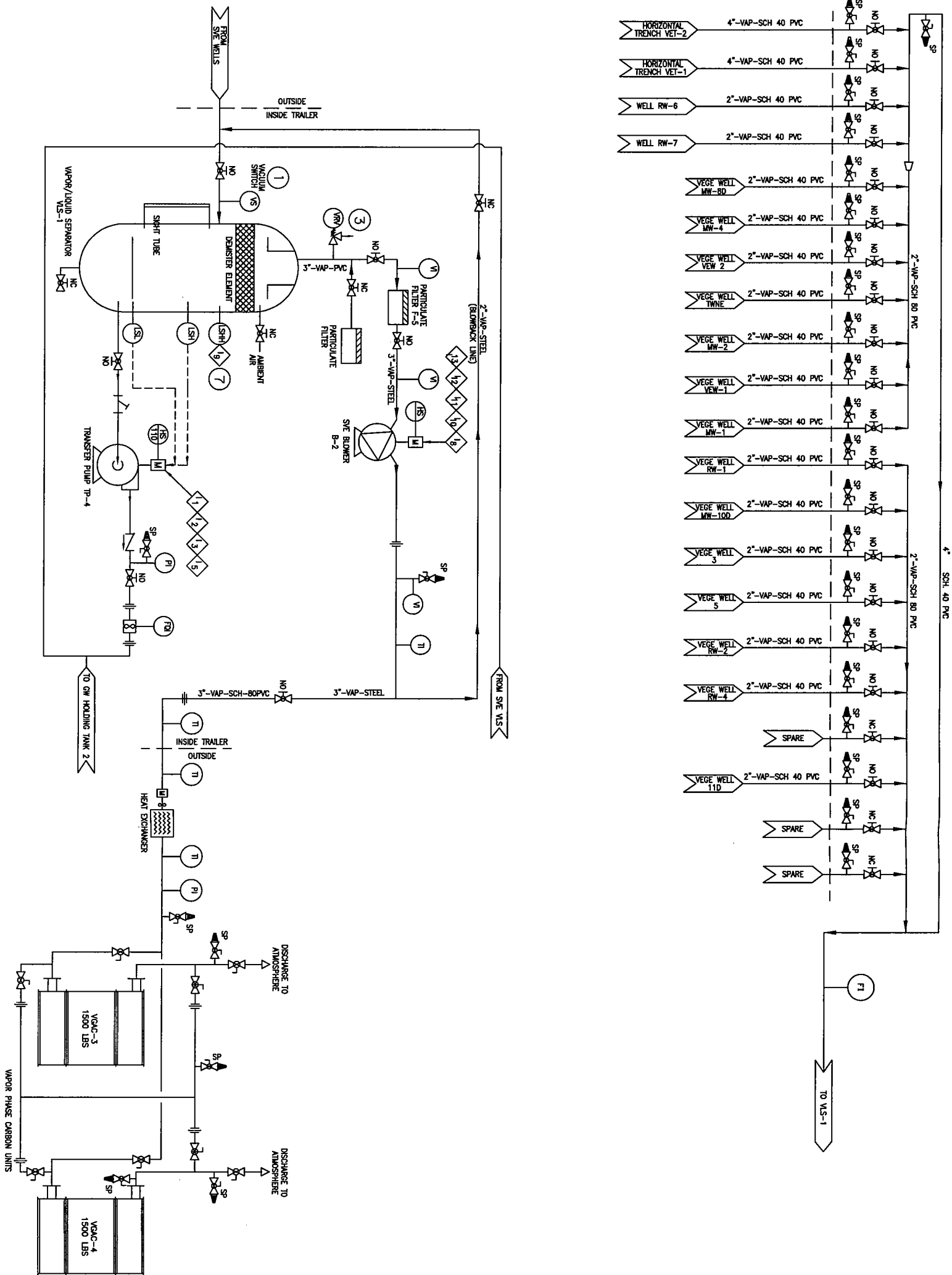
NOTICE OF INTENT FOR REMEDIATION GENERAL PERMIT

PROCESS & INSTRUMENTATION DIAGRAM



MOBIL SERVICE STATION 17248 (FORMERLY 01-ELN)
328 SHREWSBURY STREET
BOYLSTON, MASSACHUSETTS

NOTICE OF INTENT FOR REMEDIATION GENERAL PERMIT
PROCESS & INSTRUMENTATION DIAGRAM
SOIL VAPOR EXTRACTION SYSTEM



- CRITICAL SAFETY DEVICE IDENTIFICATION
- ① LOW VACUUM SWITCH - SVE BLOWER
 - ③ VACUUM RELIEF VALVE - SVE BLOWER
 - ⑦ HIGH HIGH LEVEL MOISTURE SEPARATOR

TestAmerica
ANALYTICAL TESTING CORPORATION
Nashville Division

COOLER RECEIPT FORM

BC#



Client Name : CPM

Cooler Received/Opened On: 7/15/04 Accessioned By: Paul R. Buckingham II

[Signature]
Log-in Personnel Signature

1. Temperature of Cooler when triaged: 2.8 Degrees Celsius
2. Were custody seals on outside of cooler?..... ☒ YES...NO...NA
 - a. If yes, how many, what kind and where: 1 front
3. Were custody seals on containers and intact?..... NO...YES...☒ NA
4. Were the seals intact, signed, and dated correctly?..... ☒ YES...NO...NA
5. Were custody papers inside cooler?..... ☒ YES...NO...NA
6. Were custody papers properly filled out (ink, signed, etc)?..... ☒ YES...NO...NA
7. Did you sign the custody papers in the appropriate place?..... ☒ YES...NO...NA
8. What kind of packing material used? ☒ Bubblewrap ☐ Peanuts ☐ Vermiculite ☐ Other ☐ None
9. Cooling process: ☒ Ice ☐ Ice-pack ☐ Ice (direct contact) ☐ Dry ice ☐ Other ☐ None
10. Did all containers arrive in good condition (unbroken)?..... ☒ YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)?..... ☒ YES...NO...NA
12. Did all container labels and tags agree with custody papers?..... ☒ YES...NO...NA
13. Were correct containers used for the analysis requested?..... ☒ YES...NO...NA
14. a. Were VOA vials received?..... ☒ YES...NO...NA
 - b. Was there any observable head space present in any VOA vial?..... ☒ NO...YES...NA
15. Was sufficient amount of sample sent in each container?..... ☒ YES...NO...NA
16. Were correct preservatives used?..... ☒ YES...NO...NA

If not, record standard ID of preservative used here _____

17. Was residual chlorine present?..... NO...YES...☒ NA
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:

0933
☒ Fed-Ex

8469
UPS

Velocity

Airborne

Route

Off-street

Misc.

19. If a Non-Conformance exists, see attached or comments below:

Consultant Name:

CDM

TA Account #:

10250

Address:

50 Hampshire St.

City/State/Zip:

Cambridge, MA

ExxonMobil Territory Mgr:

Paul Degan

Consultant Project Mgr:

Jim Zigmont

Consultant Telephone Number:

617-452-6000

Fax No.:

Sampler Name: (Print)

Ryan Bouldin

Sampler Signature:

Ryan M Bouldin

Facility ID #

01-ELN

Site Address

328 Shrewsbury St.

City, State, Zip

Boxton, MA

Regulatory District (CA)

Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative							Matrix					Analyze For:	RUSH TAT (Pre-Schedule) TAT request (in Bus. Days)	Tax Results (yes or no)	Due Date of Report																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
							Methanol	Sodium Bisulfate	HCl (Blue Label)	NaOH (Orange Label)	H ₂ SO ₄ Plastic (Yellow Label)	H ₂ SO ₄ Glass (Yellow Label)	HNO ₃ (Red Label)	None (Black Label)	Groundwater	Wastewater	Drinking Water	Sludge					Soil	Other (specify):																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Comments/Special Instructions:

MCP Presumptive Certainty Required

GW-1 STD APPLY

Laboratory Comments:

Temperature Upon Receipt: Y N
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
QC Deliverables (please circle one)
Level 2
Level 3
Level 4

Relinquished by:

Ryan M Bouldin

Relinquished by:

K Coffey

Site Specific - if yes, please a pre-schedule w/ TestAmerica Project Manager or attach specific instructions

Sample NonConformance/COC Revision Form

Initiated by: Pbuckingham Phone: 617 452 6579 NC Closed ☒
Client Name: CDM Camp Dress Sample Range: 148342-343 Date Closed 9/28/2004
Client Contact: SDG: 390721
Client Account: 10250 Analyst:
Date Created: 9/25/2004 Supervisor:
NC #: NC Type:
Project Name: 01-ELN Terminal Manager: BETH ZINKEVICZ
Project Number:
Project Origin
Regulatory :

Process: Out of Holding Time-List Analysis

Corrected By: Dorothy Roberts

Action: Run

Closed: ☒ Droberts

Comments: Comment added by: Pbuckingham on 9/28/2004 2:26:27 PM
NC closed with out comments

Comment added by: Droberts on 9/27/2004 4:03:06 PM
per Jim Zigmont

Comment added by: Droberts on 9/27/2004 2:40:51 PM
Mr. Zigmont has been contacted for instructions.

Received last day of hold time. We did not get it step up within time. Report color and turbidity?

10/ 2/04

CASE NARRATIVE

CDM Camp Dresser & McKee 10250
JIM ZIGMONT
50 HAMPSHIRE ST
CAMBRIDGE, MA 02139

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: EXXONMOBIL 01-ELN

Laboratory Project Number: 390721.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. These results relate only to the items tested, and this report may not be reproduced except in full and with the permission of the Laboratory. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation. This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

Sample Identification	Lab Number	Page 1 Collection Date
-----	-----	-----
AS EFF	04-A148340	9/23/04
LGAC MID	04-A148341	9/23/04
AS INF	04-A148342	
LGAC EFF	04-A148343	

CASE NARRATIVE:

All samples were received in good condition, properly preserved, and properly labeled. All analyses were completed within holding times.

All no responses from the attached "MCP Response Action Analytical Report Certification Form" are addressed below.

Sample Identification

Lab Number

Page 2

Collection Date

B. Samples for color and turbidity were received too close to holding time to perform analysis within method specified holding times.

EPH/VPH QUALIFICATIONS

Hydrocarbon range data exclude concentrations of any surrogate and internal standards eluting in that range.

VPH C5-C8 Aliphatic hydrocarbons exclude the concentration of target analytes in that range.

VPH C9-C12 Aliphatic hydrocarbons exclude target analytes eluting in that range AND concentration of C9-C10 aromatic hydrocarbons. Adjusted C5-C8 Aliphatic Hydrocarbon range excludes the concentrations of Benzene, Toluene, and

MTBE.. Adjusted C9-C12 Aliphatic Hydrocarbon range excludes the concentration of Ethylbenzene, m-, p-, and o- Xylene, and the C9-C10 Aromatic Hydrocarbon values.

Laboratory Certification Number: M-TN032

Additional Laboratory Footnotes:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

MADEP MCP Response Action Analytical Report Certification Form
Laboratory Name: TestAmerica Analytical Testing Corp. Project #: 390721

Project Location: 01-ELN, Boylston MADEP RTN:

This Form provides certifications for the following data set: Lab SDG # 390721
Laboratory Sample ID's 04-A 148340 through 04-A 148343

Sample Matrices: ☒ Groundwater ☐ Soil/Sediment ☐ Drinking Water ☐ Other

MCP SW-846 ☐ 8260B ☐ 8151A ☐ 8330 ☐ 6010B ☐ 7470A/1A

Methods Used ☐ 8270C ☐ 8081A ☒ VPH ☐ 6020 ☐ 9014M

☐ 8082 ☐ 8021B ☐ EPH ☐ 7000 S ☒ Other

An affirmative response to questions A, B, and C 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
- 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
- C. Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? ☒ Yes ☐ No
- D. VPH and EPH methods only: Was the EPH or VPH method run without significant modifications, as specified in section 11.3? ☒ Yes ☐ No

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
- F. Were results for all analyte-list compounds/elements for the specified method(s) reported? ☒ Yes ☐ No

All No answers must be addressed in an attached 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: Roxanne L. Connor Position: Technical Services

Printed Name: Roxanne L. Connor Date: 10/ 1/04

ANALYTICAL REPORT

CDM Camp Dresser & McKee 10250
JIM ZIGMONT
50 HAMPSHIRE ST
CAMBRIDGE, MA 02139

Lab Number: 04-A148342
Sample ID: AS INF
Sample Type: Water

Project Name: EXXONMOBIL 01-ELN
Matrix: Water
Receipt Temperature: 2.8 degrees C
Container condition: Good
Sampler:

Date Collected:
Time Collected:
Date Received: 9/25/04

Time Received: 8:05
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MADEP VPH									
VPH Preservation pH:	< 2.00								
Benzene	ND	ug/L	1.00	1	9/30/04	14:28	J. Redmond	VPH-98-1	221
Toluene	ND	ug/L	3.0	1	9/30/04	14:28	J. Redmond	VPH-98-1	221
Ethylbenzene	1.1	ug/L	1.0	1	9/30/04	14:28	J. Redmond	VPH-98-1	221
o-Xylene	ND	ug/L	2.0	1	9/30/04	14:28	J. Redmond	VPH-98-1	221
mp-Xylene	ND	ug/L	4.0	1	9/30/04	14:28	J. Redmond	VPH-98-1	221
Methyl-t-butylether	539.	ug/L	3.0	1	9/30/04	14:28	J. Redmond	VPH-98-1	221
Naphthalene	ND	ug/L	5.0	1	9/30/04	14:28	J. Redmond	VPH-98-1	221
Unadj VPH C5-C8 Aliph	551.	ug/L	100.	1	9/30/04	14:28	J. Redmond	VPH-98-1	221
Unadj VPH C9-C12 Aliph	ND	ug/L	100.	1	9/30/04	14:28	J. Redmond	VPH-98-1	221
VPH C5-C8 Aliphatics	ND	ug/L	100.	1	9/30/04	14:28	J. Redmond	VPH-98-1	221
VPH C9-C12 Aliphatics	ND	ug/L	100.	1	9/30/04	14:28	J. Redmond	VPH-98-1	221
VPH C9-C10 Aromatics	ND	ug/L	100.	1	9/30/04	14:28	J. Redmond	VPH-98-1	221

Surrogate	% Recovery	Target Range
VPH Surr-2,5-Dibromotoluene (PID)	118.	70 - 130

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A148342

Sample ID: AS INF

Project:

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VPH surr-2,5-Dibromotoluene (FID)			121.		70 - 130				

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A148342
Sample ID: AS INF
Project:
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Miscellaneous Parameter									
TRPH IR water	ND	mg/l	0.1	1	9/30/04	8:54	J. Davis	418.1	149
Turbidity	3.5	N.T. Units	1	1	9/27/04	13:00	T. Beverly	2130B	56
Apparent Color	ND	Color Unit	5		9/27/04	13:20	T. Beverly	110.2	525
Total Suspended Solids	1.5	mg/l	1.1	1.05	9/25/04	17:45	W. Choate	160.2	42

End of Sample Report.

PROJECT QUALITY CONTROL DATA

Lab SDG #:390721.

Project Name:EXXONMOBIL 01-ELN.

Page: 1

Laboratory Receipt Date: 9/25/04

Matrix Spike/Matrix Spike Duplicate Recoveries

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
MISC PARAMETERS								
TRPH IR water	mg/l	< 0.100	20.3	20.0	102	94. - 110.	149	blank
TRPH IR water	mg/l	< 0.100	20.4	20.0	102	94. - 110.	149	M:blank

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Lab SDG # : 390721

Project Name: EXXONMOBIL 01-ELN.

Page: 2

Laboratory Receipt Date: 9/25/04

Matrix Spike Duplicate RPD's

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
TRPH IR water	mg/l	20.3	20.4	0.49	20.	149

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Lab SDG # : 390721

Project Name: EXXONMOBIL 01-ELN.

Page: 3

Laboratory Receipt Date: 9/25/04

Laboratory Control Sample Recoveries

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch

EPH/VPH PARAMETERS						
Unadj VPH C5-C8 Aliph	mg/l	0.300	0.382	127	70 - 130	221
Unadj VPH C5-C8 Aliph	mg/l	0.300	0.334	111	70 - 130	221
Unadj VPH C9-C12 Aliph	mg/l	0.300	0.339	113	70 - 130	221
Unadj VPH C9-C12 Aliph	mg/l	0.300	0.326	109	70 - 130	221
Benzene	mg/l	0.0500	0.0476	95	70 - 130	221
Benzene	mg/l	0.0500	0.0464	93	70 - 130	221
Toluene	mg/l	0.0500	0.0513	103	70 - 130	221
Toluene	mg/l	0.0500	0.0506	101	70 - 130	221
Ethylbenzene	mg/l	0.0500	0.0523	105	70 - 130	221
Ethylbenzene	mg/l	0.0500	0.0523	105	70 - 130	221
o-Xylene	mg/l	0.0500	0.0521	104	70 - 130	221
o-Xylene	mg/l	0.0500	0.0522	104	70 - 130	221
mp-Xylene	mg/l	0.100	0.103	103	70 - 130	221
mp-Xylene	mg/l	0.100	0.103	103	70 - 130	221
VPH C5-C8 Aliphatics	mg/l	0.300	0.382	127	70 - 130	221
VPH C5-C8 Aliphatics	mg/l	0.300	0.334	111	70 - 130	221
VPH C9-C12 Aliphatics	mg/l	0.300	0.339	113	70 - 130	221
VPH C9-C12 Aliphatics	mg/l	0.300	0.326	109	70 - 130	221
VPH C9-C10 Aromatics	mg/l	5.00	5.44	109	70 - 130	221
VPH C9-C10 Aromatics	mg/l	5.00	5.20	104	70 - 130	221
Methyl-t-butylether	mg/l	0.0500	0.0529	106	70 - 130	221
Methyl-t-butylether	mg/l	0.0500	0.0472	94	70 - 130	221
Naphthalene	mg/l	0.0500	0.0477	95	70 - 130	221
Naphthalene	mg/l	0.0500	0.0527	105	70 - 130	221

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Lab SDG # : 390721
Project Name: EXXONMOBIL 01-ELN.
Page: 4
Laboratory Receipt Date: 9/25/04

Laboratory Control Sample Recoveries

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
MISC PARAMETERS						
Turbidity	N.T. Units	5.00	4.90	98	90 - 110	56
Apparent Color	Color Unit	20.	20.	100	-	525
Total Suspended Solids	mg/l	100.	92.0	92	81 - 119	42
TRPH IR water	mg/l	20.0	20.3	102	90 - 111	149

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Lab SDG # : 390721

Project Name: EXXONMOBIL 01-ELN.

Page: 5

Laboratory Receipt Date: 9/25/04

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Turbidity	N.T. Units	< 1.00	< 1.00	N/A	15.	56	04-A148343
Apparent Color	Color Unit	< 5.	< 5.	N/A	15.	525	04-A148343
Total Suspended Solids	mg/l	34.3	35.3	2.87	15.	42	04-A147529

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Lab SDG # : 390721

Project Name: EXXONMOBIL 01-ELN.

Page: 6

Laboratory Receipt Date: 9/25/04

Method Blank Results

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
EPH/VPH PARAMETERS					
Unadj VPH C5-C8 Aliph	< 0.100	mg/l	221	9/30/04	6:11
Unadj VPH C9-C12 Aliph	< 0.100	mg/l	221	9/30/04	6:11
Benzene	< 0.00100	mg/l	221	9/30/04	6:11
Toluene	< 0.0030	mg/l	221	9/30/04	6:11
Ethylbenzene	< 0.0010	mg/l	221	9/30/04	6:11
o-Xylene	< 0.0020	mg/l	221	9/30/04	6:11
mp-Xylene	< 0.0040	mg/l	221	9/30/04	6:11
VPH C5-C8 Aliphatics	< 0.100	mg/l	221	9/30/04	6:11
VPH C9-C12 Aliphatics	< 0.100	mg/l	221	9/30/04	6:11
VPH C9-C10 Aromatics	< 0.100	mg/l	221	9/30/04	6:11
Methyl-t-butylether	< 0.0030	mg/l	221	9/30/04	6:11
TRPH IR water	< 0.100	mg/l	149	9/30/04	8:54
Naphthalene	< 0.0050	mg/l	221	9/30/04	6:11
VPH Surr-2,5-Dibromotoluene (PID)	100.	% Recovery	221	9/30/04	6:11
VPH Surr-2,5-Dibromotoluene (FID)	108.	% Rec	221	9/30/04	6:11
MISC PARAMETERS					
Turbidity	< 1.00	N.T. Units	56	9/27/04	13:00
Apparent Color	< 5.	Color Unit	525	9/27/04	13:20
Total Suspended Solids	< 1.0	mg/l	42	9/25/04	17:45

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 390721

10/26/04

Technical Report for

ExxonMobil

CDM:S/S 01-ELN 328 Shrewsbury St., Boylston, MA

Accutest Job Number: M42640

Sampling Date: 10/21/04

Report to:

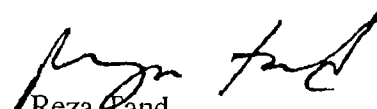
Camp Dresser & McKee
50 Hampshire St.
Cambridge, MA 02139

ATTN: Jim Zigmont

Total number of pages in report: 12



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: ExxonMobil

Job No: M42640

Site: CDM:S/S 01-ELN 328 Shrewsbury St., Boylston, MA

Report Date 10/26/2004 12:49:06 P

2 Samples were collected on 10/21/2004 and were received at Accutest on 10/22/2004 properly preserved, at 1.9 Deg. C and intact. These Samples received an Accutest job number of M42640. 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.

Wet Chemistry By Method EPA 110.2

Matrix: AQ

Batch ID: GN15097

- ☒ All samples were analyzed within the recommended method holding time.
- ☒ All method blanks for this batch meet method specific criteria.
- ☒ Sample(s) M42640-1DUP were used as the QC samples for Color, Apparent.
- ☒ M42640-1 for Color, Apparent: pH at the time of analysis 6.54 pH unit.
- ☒ M42640-2 for Color, Apparent: pH at the time of analysis 7.02 pH unit.

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 180.1

Matrix: AQ

Batch ID: GN15096

- ☒ All samples were analyzed within the recommended method holding time.
- ☒ All method blanks for this batch meet method specific criteria.
- ☒ Sample(s) M42640-1DUP 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(M42640).



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 #: **M42640**

Project Location: **CDM/S/S 01-ELN 328 Shrewsbury St., Boylston, MA**

MADEP RTN ¹ **None**

This form provides certifications for the following data set:
M42640-1, M42640-2

Test Method: EPA 110.2, 160.2, 180.1

Sample Matrices:	Groundwater	Soil/Sediment	() Drinking Water	() Other:	(x)	()
MCP SW-846	8260B ()	8151A ()	8330 ()	6010B	()	7470A/1A ()
Methods Used	8270C ()	8081A ()	VPH ()	6020	()	9014M ² ()
As specified in MADEP	8082 ()	8021B ()	EPH ()	7000 S ³	()	7196A ()
Compendium of	1 List Release Tracking Number (RTN), if known					
Analytical Methods	2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method					
(Check all that apply)	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:

10/26/2004

Sample Summary

ExxonMobil

CDM:S/S 01-ELN 328 Shrewsbury St., Boylston, MA

Job No: M42640

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
M42640-1	10/21/04	15:20 RMB	10/22/04	AQ Influent	INF
M42640-2	10/21/04	15:40 RMB	10/22/04	AQ Effluent	EFF

Report of Analysis

Page 1 of 1

Client Sample ID:	INF	Date Sampled:	10/21/04
Lab Sample ID:	M42640-1	Date Received:	10/22/04
Matrix:	AQ - Influent	Percent Solids:	n/a
Project:	CDM:S/S 01-ELN 328 Shrewsbury St., Boylston, MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Color, Apparent ^a	35	5	CU	1	10/22/04 13:49	MA	EPA 110.2
Solids, Total Suspended	<4.0	4.0	mg/l	1	10/25/04	BF	EPA 160.2
Turbidity	14.4	0.50	NTU	1	10/22/04 13:20	MA	EPA 180.1

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

RL = Reporting Limit

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: M42640
Account: MOBILSS - ExxonMobil
Project: CDM:S/S 01-ELN 328 Shrewsbury St., Boylston, MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov.	QC Limits
Color, Apparent	GN15097	5	<5	CU				
Solids, Total Suspended	GN15109	4.0	<4.0	mg/l				
Turbidity	GN15096	0.50	<0.50	NTU				

Associated Samples:

Batch GN15096: M42640-1, M42640-2

Batch GN15097: M42640-1, M42640-2

Batch GN15109: M42640-1, M42640-2

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M42640
Account: MOBILSS - ExxonMobil
Project: CDM:S/S 01-ELN 328 Shrewsbury St., Boylston, MA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Color, Apparent	GN15097	M42640-1	CU	35	35	0.0	0-20%
Solids, Total Suspended	GN15109	M42589-11	mg/l	<4.0	<4.0	0.0	0-20%
Turbidity	GN15096	M42640-1	NTU	14.4	14.8	2.7	0-20%

Associated Samples:

Batch GN15096: M42640-1, M42640-2

Batch GN15097: M42640-1, M42640-2

Batch GN15109: M42640-1, M42640-2

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Sample Tracking Chronicle

Internal Sample Tracking Chronicle

ExxonMobil

CDM:S/S 01-ELN 328 Shrewsbury St., Boylston, MA

Job No: M42640

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M42640-1	Collected: 21-OCT-04 15:20	By: RMB	Received: 22-OCT-04	By: RS		
INF						
M42640-1	EPA 180.1	22-OCT-04 13:20	MA			TURB
M42640-1	EPA 110.2	22-OCT-04 13:49	MA			COL
M42640-1	EPA 160.2	25-OCT-04	BF			TSS
M42640-2	Collected: 21-OCT-04 15:40	By: RMB	Received: 22-OCT-04	By: RS		
EFF						
M42640-2	EPA 180.1	22-OCT-04 13:20	MA			TURB
M42640-2	EPA 110.2	22-OCT-04 13:49	MA			COL
M42640-2	EPA 160.2	25-OCT-04	BF			TSS



ACCUTEST
Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752

TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #:

M42640

ACCUTEST QUOTE #:

CLIENT INFORMATION		FACILITY INFORMATION		ANALYTICAL INFORMATION		MATRIX CODE	
NAME CDM		PROJECT NAME XOM Boylston,				DW - DRINKING WATER	
ADDRESS 50 Hampshire St.		LOCATION 328 Shrewsbury St. Boylston, MA				GW - GROUND WATER	
CITY Cambridge, MA		PROJECT NO. 01-ELN				WW - WASTE WATER	
STATE MA		FAX #				SO - SOIL	
ZIP 02140						SL - SLUDGE	
SEND REPORT TO: Jim Zigmant						OI - OIL	
PHONE # 617-452-6000						LIQ - OTHER LIQUID	
						SOL - OTHER SOLID	
						LAB USE ONLY	
FIELD ID / POINT OF COLLECTION		COLLECTION		PRESERVATION			
ACCUTEST SAMPLE #	DATE	TIME	SAMPLED BY:	# OF BOTTLES	MATRIX	HCl	NaOH
102104	1520	2MB	1	6W	1	✓	✓
1520	1540	1	1	1	1	✓	✓
1540	1540	1	1	1	1	✓	✓
1540	1540	1	1	1	1	✓	✓
12							
DATA TURNOURD INFORMATION		DATA DELIVERABLE INFORMATION		COMMENTS/REMARKS			
☒ 14 DAYS STANDARD ☐ 7 DAYS RUSH ☐ 48 HOUR EMERGENCY ☐ OTHER		☒ STANDARD ☐ COMMERCIAL "B" ☐ DISK DELIVERABLE ☐ STATE FORMS ☐ OTHER (SPECIFY)		MCP Presumptive Certainty Required			
14 DAY TURNOURD HARD COPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED				Loc. 9B			
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY							
RELINQUISHED BY: 1. Ryan M Boullin		RECEIVED BY: 2. Ryan M Boullin		DATE TIME: 10-22-04 1210		DATE TIME: 10-22-04 1210	
RELINQUISHED BY: 3.		RECEIVED BY: 4.		DATE TIME:		DATE TIME:	
RELINQUISHED BY: 5.		RECEIVED BY: 5.		DATE TIME:		DATE TIME:	
ON ICE ☐		PRESERVE WHERE APPLICABLE ☐		SEAL #		TEMPERATURE 1.9 °C	



Nashville Division

COOLER RECEIPT FORM

BC#



394462

Client Name : CDM

Cooler Received/Opened On: 10/27/04 Accessioned By: Mark Beasley

[Signature]
Log-in Personnel Signature

1. Temperature of Cooler when triaged: 04 Degrees Celsius
2. Were custody seals on outside of cooler?..... YES...NO...NA
- a. If yes, how many, what kind and where: 12/3/4 Front Back Side Yes
3. Were custody seals on containers and intact?..... NO...YES...NA
4. Were the seals intact, signed, and dated correctly?..... YES...NO...NA
5. Were custody papers inside cooler?..... YES...NO...NA
6. Were custody papers properly filled out (ink, signed, etc)?..... YES...NO...NA
7. Did you sign the custody papers in the appropriate place?..... YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None
10. Did all containers arrive in good condition (unbroken)?..... YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)?..... YES...NO...NA
12. Did all container labels and tags agree with custody papers?..... YES...NO...NA
13. Were correct containers used for the analysis requested?..... YES...NO...NA
14. a. Were VOA vials received?..... YES...NO...NA
- b. Was there any observable head space present in any VOA vial?..... NO...YES...NA
15. Was sufficient amount of sample sent in each container?..... YES...NO...NA
16. Were correct preservatives used?..... YES...NO...NA

If not, record standard ID of preservative used here _____

17. Was residual chlorine present?..... NO...YES...NA

18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:

0160 _____
UPS Velocity DHL Route Off-street Fedex Misc.

19. If a Non-Conformance exists, see attached or comments below:

Consultant Name: CDM
Address: 50 Hampshire St.
City/State/Zip: Cambridge, MA 02139
ExxonMobil Territory Mgr: Doug Dugan
Consultant Project Mgr: Jim Zigmont
Consultant Telephone Number: 617-452-6000 Fax No.:
Sampler Name: (Print) Ryan Bouldin
Sampler Signature: Ryan M Bouldin

TA Account #: 10250
Invoice To: (ExxonMobil PM unless otherwise Indicate)
Report To: Jim Zigmont
PO #:
Facility ID # 01-ELN
Site Address 328 Shrewsbury St.
City, State, Zip Baylston, MA
Regulatory District (CA)

Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative										Matrix										Analyze For:	RUSH TAT (Pre-Schedule)	TAT request (in Bus. Days)	Fax Results (yes or no)	Due Date of Report																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
							Methanol	Sodium Bisulfate	HCl (Blue Label)	NaOH (Orange Label)	H ₂ SO ₄ Plastic (Yellow Label)	H ₂ SO ₄ Glass (Yellow Label)	HNO ₃ (Red Label)	None (Black Label)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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Comments/Special Instructions: MCP Presumptive Certainty Required
Gw-1 stds. Apply

Laboratory Comments:
Temperature Upon Receipt: 0.4
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
QC Deliverables (please circle one)
Level 2
Level 3
Level 4

Relinquished by: Ryan M Bouldin Date: 10-22-04 Time: 8:00
Received by: [Signature] Date: 10/21/04 Time: 14:30
Relinquished by: [Signature] Date: 10/21/04 Time: 8:00

Site Specific - if yes, please a pre-schedule w/ TestAmerica
Project Manager or attach specific instructions

11/ 3/04

CASE NARRATIVE

CDM Camp Dresser & McKee 10250
JIM ZIGMONT
50 HAMPSHIRE ST
CAMBRIDGE, MA 02139

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: EXXONMOBIL 01-ELN

Laboratory Project Number:394462.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. These results relate only to the items tested, and this report may not be reproduced except in full and with the permission of the Laboratory. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation. This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

Sample Identification	Lab Number	Page 1 Collection Date
-----	-----	-----
AS EFF	04-A166696	10/21/04
GAC MID	04-A166697	10/21/04
INF	04-A166698	10/21/04
GAC EFF	04-A166699	10/21/04

CASE NARRATIVE:

All samples were received in good condition, properly preserved, and properly labeled. All analyses were completed within holding times.

All no responses from the attached "MCP Response Action Analytical Report Certification Form" are addressed below.

Sample Identification	Lab Number	Collection Date
-----	-----	-----

F. The full MCP 8260 CAM analyte list was not reported. Only those analytes requested on the chain of custody by the client were reported.

EPH/VPK QUALIFICATIONS

Laboratory Certification Number: M-TN032

Additional Laboratory Footnotes:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.

MADEP MCP Response Action Analytical Report Certification Form

Laboratory Name: TestAmerica Analytical Testing Corp. Project #: 394462

Project Location: 01-ELN

MADEP RTN:

This Form provides certifications for the following data set: Lab SDG # 394462

Laboratory Sample ID's 01-A 166696 through 01-A 166699

Sample Matrices: ☒ Groundwater ☐ Soil/Sediment ☐ Drinking Water ☐ Other

CP SW-846 ☒ 8260B ☐ 8151A ☐ 8330 ☐ 6010B ☐ 7470A/1A

Methods Used ☐ 8270C ☐ 8081A ☐ VPH ☐ 6020 ☐ 9014M

☐ 8082 ☐ 8021B ☐ EPH ☐ 7000 S ☒ Other

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

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

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

Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? ☒ Yes ☐ No

D. VPH and EPH methods only: Was the EPH or VPH method run without significant modifications, as specified in section 11.3? N/A
☐ Yes ☐ No

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

Were all QC performance standards and recommendations for the specified methods achieved? ☒ Yes ☐ No

Were results for all analyte-list compounds/elements for the specified method(s) reported? ☐ Yes ☒ No

All No answers must be addressed in an attached Laboratory Case Narrative

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: [Signature]

Position: Technical Services

Printed Name: Court A. [Signature]

Date: 11/ 3/04

ANALYTICAL REPORT

CDM Camp Dresser & McKee 10250
JIM ZIGMONT
50 HAMPSHIRE ST
CAMBRIDGE, MA 02139

Lab Number: 04-A166698
Sample ID: INF
Sample Type: Water

Project Name: EXXONMOBIL 01-ELN
Sampler: RYAN BOULDIN

Date Collected: 10/21/04
Time Collected:
Date Received: 10/27/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
** Volatile Organics - MCP CAM - 8260B **									
Benzene	13.5	ug/L	0.5	1	10/30/04	10:48	C. Wani	8260B	7045
Ethylbenzene	ND	ug/L	0.5	1	10/30/04	10:48	C. Wani	8260B	7045
Toluene	0.6	ug/L	0.5	1	10/30/04	10:48	C. Wani	8260B	7045
Xylenes (Total)	1.8	ug/L	0.5	1	10/30/04	10:48	C. Wani	8260B	7045
Methyl-t-butyl ether	504	ug/L	5	10	11/ 1/04	17:47	C. Wani	8260B	7052

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	101.	70 - 130
VOA Surr Toluene-d8	101.	70 - 130
VOA Surr, 4-BFB	102.	70 - 130
VOA Surr, DBFM	99.	70 - 130

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A166698

Sample ID: INF

Project:

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

Miscellaneous Parameter									
TRPH IR water	0.365	mg/l	0.1	1	11/ 1/04	17:15	J. Davis	418.1	1563

End of Sample Report.

PROJECT QUALITY CONTROL DATA

Lab SDG #:394462.

Project Name:EXXONMOBIL 01-ELN.

Page: 1

Laboratory Receipt Date: 10/27/04

Matrix Spike/Matrix Spike Duplicate Recoveries

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
***VOA PARAMETERS**								
Benzene	mg/l	< 0.00050	0.0544	0.0500	109	70 - 130	7045	04-A166232
Benzene	mg/l	< 0.00050	0.0521	0.0500	104	70 - 130	7045	M:04A166232
Ethylbenzene	mg/l	< 0.00050	0.0547	0.0500	109	70 - 130	7045	04-A166232
Ethylbenzene	mg/l	< 0.00050	0.0524	0.0500	105	70 - 130	7045	M:04A166232
Toluene	mg/l	< 0.00050	0.0551	0.0500	110	70 - 130	7045	04-A166232
Toluene	mg/l	< 0.00050	0.0510	0.0500	102	70 - 130	7045	M:04A166232
Xylenes (Total)	mg/l	< 0.00050	0.167	0.150	111	70 - 130	7045	04-A166232
Xylenes (Total)	mg/l	< 0.00050	0.158	0.150	105	70 - 130	7045	M:04A166232
Methyl-t-butyl ether	mg/l	0.0492	0.100	0.0500	102	70 - 130	7045	04-A166232
Methyl-t-butyl ether	mg/l	0.0492	0.0972	0.0500	96	70 - 130	7045	M:04A166232
Methyl-t-butyl ether	mg/l	< 0.00023	0.0467	0.0500	93	70 - 130	7052	BLANK
Methyl-t-butyl ether	mg/l	< 0.00023	0.0518	0.0500	104	70 - 130	7052	M:BLANK
VOA Surr 1,2-DCA-d4	% Rec				102	70 - 130	7045	
VOA Surr 1,2-DCA-d4	% Rec				101	70 - 130	7045	
VOA Surr 1,2-DCA-d4	% Rec				96	70 - 130	7052	
VOA Surr 1,2-DCA-d4	% Rec				100	70 - 130	7052	
VOA Surr Toluene-d8	% Rec				102	70 - 130	7045	
VOA Surr Toluene-d8	% Rec				101	70 - 130	7045	
VOA Surr Toluene-d8	% Rec				103	70 - 130	7052	
VOA Surr Toluene-d8	% Rec				100	70 - 130	7052	
VOA Surr, 4-BFB	% Rec				104	70 - 130	7045	
VOA Surr, 4-BFB	% Rec				105	70 - 130	7045	
VOA Surr, 4-BFB	% Rec				100	70 - 130	7052	
VOA Surr, 4-BFB	% Rec				99	70 - 130	7052	
VOA Surr, DBFM	% Rec				99	70 - 130	7045	
VOA Surr, DBFM	% Rec				102	70 - 130	7045	
VOA Surr, DBFM	% Rec				101	70 - 130	7052	
VOA Surr, DBFM	% Rec				102	70 - 130	7052	

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Lab SDG # : 394462

Project Name: EXXONMOBIL 01-ELN.

Page: 2

Laboratory Receipt Date: 10/27/04

Matrix Spike/Matrix Spike Duplicate Recoveries

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS								
TRPH IR water	mg/l	< 0.100	19.4	20.0	97	94. - 110.	1563	blank
TRPH IR water	mg/l	< 0.100	19.5	20.0	98	94. - 110.	1563	M:blank

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Lab SDG # : 394462
Project Name: EXXONMOBIL 01-ELN.
Page: 3
Laboratory Receipt Date: 10/27/04

Matrix Spike Duplicate RPD's

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch

VOA PARAMETERS						
Benzene	mg/l	0.0544	0.0521	4.32	20	7045
Ethylbenzene	mg/l	0.0547	0.0524	4.30	20	7045
Toluene	mg/l	0.0551	0.0510	7.73	20	7045
Xylenes (Total)	mg/l	0.167	0.158	5.54	20	7045
Methyl-t-butyl ether	mg/l	0.100	0.0972	2.84	20	7045
Methyl-t-butyl ether	mg/l	0.0467	0.0518	10.36	20	7052
VOA Surr 1,2-DCA-d4	% Rec		101.			7045
VOA Surr 1,2-DCA-d4	% Rec		100.			7052
VOA Surr Toluene-d8	% Rec		101.			7045
VOA Surr Toluene-d8	% Rec		100.			7052
VOA Surr, 4-BFB	% Rec		105.			7045
VOA Surr, 4-BFB	% Rec		99.			7052
VOA Surr, DBFM	% Rec		102.			7045
VOA Surr, DBFM	% Rec		102.			7052
TRPH IR water	mg/l	19.4	19.5	0.51	20.	1563

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Lab SDG # : 394462

Project Name: EXXONMOBIL 01-ELN.

Page: 4

Laboratory Receipt Date: 10/27/04

Laboratory Control Sample Recoveries

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS						
Benzene	mg/l	0.0500	0.0543	109	70 - 130	7045
Ethylbenzene	mg/l	0.0500	0.0564	113	70 - 130	7045
Toluene	mg/l	0.0500	0.0547	109	70 - 130	7045
Xylenes (Total)	mg/l	0.150	0.167	111	70 - 130	7045
Methyl-t-butyl ether	mg/l	0.0500	0.0545	109	70 - 130	7045
Methyl-t-butyl ether	mg/l	0.0500	0.0567	113	70 - 130	7052
VOA Surr 1,2-DCA-d4	% Rec			97	70 - 130	7045
VOA Surr 1,2-DCA-d4	% Rec			100	70 - 130	7052
VOA Surr Toluene-d8	% Rec			101	70 - 130	7045
VOA Surr Toluene-d8	% Rec			103	70 - 130	7052
VOA Surr, 4-BFB	% Rec			100	70 - 130	7045
VOA Surr, 4-BFB	% Rec			98	70 - 130	7052
VOA Surr, DBFM	% Rec			97	70 - 130	7045
VOA Surr, DBFM	% Rec			98	70 - 130	7052
MISC PARAMETERS						
TRPH IR water	mg/l	20.0	19.8	99	90 - 111	1563

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Lab SDG # : 394462
Project Name: EXXONMOBIL 01-ELN.
Page: 5
Laboratory Receipt Date: 10/27/04

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
---------	-------	------------	-----------	-----	-------	------------	--------------

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Lab SDG # : 394462

Project Name: EXXONMOBIL 01-ELN.

Page: 6

Laboratory Receipt Date: 10/27/04

Method Blank Results

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
EPH/VPH PARAMETERS					
TRPH IR water	< 0.100	mg/l	1563	11/ 1/04	17:15
VOA PARAMETERS					
Benzene	< 0.00025	mg/l	7045	10/30/04	8:51
Ethylbenzene	< 0.00019	mg/l	7045	10/30/04	8:51
Toluene	< 0.00017	mg/l	7045	10/30/04	8:51
Xylenes (Total)	< 0.00033	mg/l	7045	10/30/04	8:51
Methyl-t-butyl ether	< 0.00023	mg/l	7045	10/30/04	8:51
Methyl-t-butyl ether	< 0.00023	mg/l	7052	11/ 1/04	11:54
VOA Surr 1,2-DCA-d4	99.	% Rec	7045	10/30/04	8:51
VOA Surr 1,2-DCA-d4	104.	% Rec	7052	11/ 1/04	11:54
VOA Surr Toluene-d8	103.	% Rec	7045	10/30/04	8:51
VOA Surr Toluene-d8	99.	% Rec	7052	11/ 1/04	11:54
VOA Surr, 4-BFB	103.	% Rec	7045	10/30/04	8:51
VOA Surr, 4-BFB	104.	% Rec	7052	11/ 1/04	11:54
VOA Surr, DBFM	100.	% Rec	7045	10/30/04	8:51
VOA Surr, DBFM	102.	% Rec	7052	11/ 1/04	11:54

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 394462



05/13/05

Technical Report for

ExxonMobil

CDM:S/S 01-ELN 328 Shrewsbury St., Boylston, MA

• Accutest Job Number: M46836

Sampling Date: 04/27/05

Report to:

Camp, Dresser & McKee

ZigmontJH@cdm.com

ATTN: Jim Zigmont

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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Sample Summary

ExxonMobil

CDM:S/S 01-ELN 328 Shrewsbury St., Boylston, MA

Job No: M46836

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
M46836-1	04/27/05	11:00	CH	04/27/05	AQ Influent	AS INF
M46836-2	04/27/05	11:05	CH	04/27/05	AQ Effluent1	LGAC EFF
M46836-3	04/27/05	11:10	CH	04/27/05	AQ Effluent2	AS EFF
M46836-4	04/27/05	11:15	CH	04/27/05	AQ Ground Water	LGAC MID

Report of Analysis

Page 1 of 1

Client Sample ID:	AS INF	Date Sampled:	04/27/05
Lab Sample ID:	M46836-1	Date Received:	04/27/05
Matrix:	AQ - Influent	Percent Solids:	n/a
Method:	EPA 624		
Project:	CDM:S/S 01-ELN 328 Shrewsbury St., Boylston, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D42981.D	1	05/01/05	AT	n/a	n/a	MSD2490
Run #2	D42974.D	5	05/01/05	AT	n/a	n/a	MSD2490

	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	58.0	0.50	ug/l	
108-88-3	Toluene	37.9	1.0	ug/l	
100-41-4	Ethylbenzene	19.8	1.0	ug/l	
1330-20-7	Xylenes (total)	38.5	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	589 ^a	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	100%	109%	76-138%
2037-26-5	Toluene-D8 (SUR)	101%	102%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	96%	93%	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: AS INF
Lab Sample ID: M46836-1
Matrix: AQ - Influent
Date Sampled: 04/27/05
Date Received: 04/27/05
Percent Solids: n/a
Project: CDM:S/S 01-ELN 328 Shrewsbury St., Boylston, MA

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Color, Apparent ^a	15	5	CU	1	04/27/05 17:20	MA	EPA 110.2
Petroleum Hydrocarbons	<0.61	0.61	mg/l	1	04/29/05	BF	EPA 418.1
Solids, Total Suspended	9.0	4.0	mg/l	1	05/02/05	BF	EPA 160.2
Turbidity	3.3	0.50	NTU	1	04/27/05 18:45	HBM	EPA 180.1

(a) pH at the time of analysis 5.88

RL = Reporting Limit



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accurast Job #: M46836

[illegible]

M46836: Chain of Custody

Page 1 of 1

Technical Report for

ExxonMobil

CDM:S/S 01-ELN 328 Shrewsbury St., Boylston, MA

PO#4506278614 WBS#08

Accutest Job Number: M47460

Sampling Date: 05/19/05

Report to:

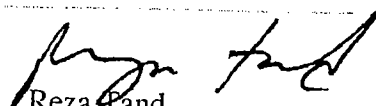
Camp Dresser & McKee
50 Hampshire St.
Cambridge, MA 02139

ATTN: Jim Zigmont

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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Sample Summary

ExxonMobil

Job No: M47460

CDM:S/S 01-ELN 328 Shrewsbury St., Boylston, MA
Project No: PO#4506278614 WBS#08

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
M47460-1	05/19/05	13:00 TM	05/19/05	AQ Influent	AS INF
M47460-2	05/19/05	13:20 TM	05/19/05	AQ Effluent1	LGAC EFF
M47460-3	05/19/05	13:13 TM	05/19/05	AQ Effluent2	AS EFF
M47460-4	05/19/05	13:30 TM	05/19/05	AQ Ground Water	LGAC MID 1
M47460-5	05/19/05	13:35 TM	05/19/05	AQ Ground Water	LGAC MID 2

Report of Analysis

Page 1 of 1

Client Sample ID:	AS INF	Date Sampled:	05/19/05
Lab Sample ID:	M47460-1	Date Received:	05/19/05
Matrix:	AQ - Influent	Percent Solids:	n/a
Method:	EPA 624		
Project:	CDM:S/S 01-ELN 328 Shrewsbury St., Boylston, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D43575.D	1	05/26/05	AT	n/a	n/a	MSD2508
Run #2	D43573.D	5	05/26/05	AT	n/a	n/a	MSD2508

	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	184	0.50	ug/l	
108-88-3	Toluene	330	1.0	ug/l	
100-41-4	Ethylbenzene	101	1.0	ug/l	
1330-20-7	Xylenes (total)	306	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	978	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	125%	129%	76-138%
2037-26-5	Toluene-D8 (SUR)	96%	95%	86-114%
460-00-4	4-Bromofluorobenzene (SUR)	102%	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: AS INF
Lab Sample ID: M47460-1
Matrix: AQ - Influent

Date Sampled: 05/19/05
Date Received: 05/19/05
Percent Solids: n/a

Project: CDM:S/S 01-ELN 328 Shrewsbury St., Boylston, MA

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Color, Apparent ^a	10	5	CU	1	05/19/05 18:20	MA	EPA 110.2
Petroleum Hydrocarbons	<0.61	0.61	mg/l	1	05/24/05	BF	EPA 418.1
Solids, Total Suspended	<4.0	4.0	mg/l	1	05/23/05	BF	EPA 160.2
Turbidity	9.7	0.50	NTU	1	05/19/05 18:00	MA	EPA 180.1

(a) pH at the time of analysis, 6.15

RL = Reporting Limit

Betty Baer

From: Zigmont, James [ZigmontJH@cdm.com]
Sent: Friday, May 20, 2005 9:54 AM
To: Betty Baer
Cc: Hayward, Christopher G.
Subject: RE: Mobil Boylston 01-ELN (M47460)

Yes please: BTEX and MTBE by 624. Sorry about that.

James H. Zigmont, LSP
Environmental Scientist

CDM

One Cambridge Place
50 Hampshire Street
Cambridge, Massachusetts 02139
tel: 617-452-6327
fax: 617-452-8327
e-mail: zigmontjh@cdm.com
website: www.cdm.com

From: Betty Baer [mailto:bettyb@accutest.com]
Sent: Friday, May 20, 2005 9:49 AM
To: Zigmont, James
Subject: Mobil Boylston 01-ELN (M47460)

Jim, we rec'd a Chain for this site 5/19/05, no method is checked for the voa analysis, do you want 624 as before?

Betty

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

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

Marlboro, MA 01752
508-481-6200 FAX: 508-481-6200

Laboratories

1

Accutest Job #: MH7460

[illegible]



New England

ACCUTEST.

Laboratories

06/21/05

Technical Report for

ExxonMobil

CDM:S/S 01-ELN 328 Shrewsbury St., Boylston, MA

PO#4506278614 WBS#08

Accutest Job Number: M48212

Sampling Date: 06/16/05

Report to:

Camp Dresser & McKee
50 Hampshire St.
Cambridge, MA 02139

ATTN: Jim Zigmont

Total number of pages in report: 10



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

ExxonMobil

CDM:S/S 01-ELN 328 Shrewsbury St., Boylston, MA
Project No: PO#4506278614 WBS#08

Job No: M48212

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
M48212-1	06/16/05	10:30 TM	06/16/05	AQ Ground Water	AS INF
M48212-2	06/16/05	10:40 TM	06/16/05	AQ Ground Water	LGAC EFF
M48212-3	06/16/05	10:45 TM	06/16/05	AQ Ground Water	AS EFF
M48212-4	06/16/05	10:50 TM	06/16/05	AQ Ground Water	LGAC MID 1
M48212-5	06/16/05	10:55 TM	06/16/05	AQ Ground Water	LGAC MID 2

Report of Analysis

Page 1 of 1

Client Sample ID:	AS INF	Date Sampled:	06/16/05
Lab Sample ID:	M48212-1	Date Received:	06/16/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	CDM:S/S 01-ELN 328 Shrewsbury St., Boylston, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D43937.D	1	06/18/05	AT	n/a	n/a	MSD2521
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	323	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	120%		76-138%
2037-26-5	Toluene-D8 (SUR)	101%		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:	AS INF	Date Sampled:	06/16/05
Lab Sample ID:	M48212-1	Date Received:	06/16/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	CDM:S/S 01-ELN 328 Shrewsbury St., Boylston, MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Color, Apparent ^a	5	5	CU	1	06/16/05 15:58	MA	EPA 110.2
Petroleum Hydrocarbons	<0.61	0.61	mg/l	1	06/17/05	BF	EPA 418.1
Solids, Total Suspended	<4.0	4.0	mg/l	1	06/17/05	BF	EPA 160.2
Turbidity	6.1	0.50	NTU	1	06/16/05 14:20	MA	EPA 180.1

(a) pH at the time of analysis, 6.11

RL = Reporting Limit

- laboratories

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

[illegible]



07/22/05

Technical Report for

ExxonMobil

CDM:S/S 01-ELN 328 Shrewsbury St., Boylston, MA

PO#4506278614 WBS#08

Accutest Job Number: M49112

Sampling Date: 07/14/05

Report to:

Camp, Dresser & McKee

ZigmontJH@cdm.com

ATTN: Jim Zigmont

Total number of pages in report: 13



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

ExxonMobil

CDM:S/S 01-ELN 328 Shrewsbury St., Boylston, MA
Project No: PO#4506278614 WBS#08

Job No: M49112

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
M49112-1	07/14/05	15:30 TM	07/14/05	AQ	Influent	AS INF
M49112-2	07/14/05	15:36 TM	07/14/05	AQ	Effluent	LGAC EFF
M49112-3	07/14/05	15:32 TM	07/14/05	AQ	Effluent	AS EFF
M49112-4	07/14/05	15:33 TM	07/14/05	AQ	Influent	LGAC MID 1
M49112-5	07/14/05	15:34 TM	07/14/05	AQ	Influent	LGAC MID 2

Report of Analysis

Page 1 of 1

Client Sample ID: AS INF
 Lab Sample ID: M49112-1
 Matrix: AQ - Influent
 Method: EPA 624
 Project: CDM/S/S 01-ELN 328 Shrewsbury St., Boylston, MA

Date Sampled: 07/14/05
 Date Received: 07/14/05
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D44523.D	1	07/18/05	AT	n/a	n/a	MSD2539
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	3.4	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	194	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	93%		76-138%
2037-26-5	Toluene-D8 (SUR)	98%		86-114%
460-00-4	4-Bromofluorobenzene (SUR)	101%		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:	AS INF	Date Sampled:	07/14/05
Lab Sample ID:	M49112-1	Date Received:	07/14/05
Matrix:	AQ - Influent	Percent Solids:	n/a
Project:	CDM:S/S 01-ELN 328 Shrewsbury St., Boylston, MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Color, Apparent	100	25	CU	5	07/14/05 16:50	MA	EPA 110.2
Petroleum Hydrocarbons	< 0.61	0.61	mg/l	1	07/18/05	BF	EPA 418.1
Solids, Total Suspended	6.0	4.0	mg/l	1	07/19/05	BF	EPA 160.2
Turbidity	32.9	0.50	NTU	1	07/14/05 17:15	MA	EPA 180.1

RL = Reporting Limit



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Betty Baer

From: Zigmont, James [ZigmontJH@cdm.com]
Sent: Saturday, July 16, 2005 8:51 AM
To: Betty Baer
Subject: XOM Boylston01-ELN

Betty-

I received your voicemail regarding VOC method for BTEX and MTBE analysis on the Boylston 01-ELN compliance samples. Analytical method should be EPA Method 624. Please call if you have any questions. Thanks.

Jim

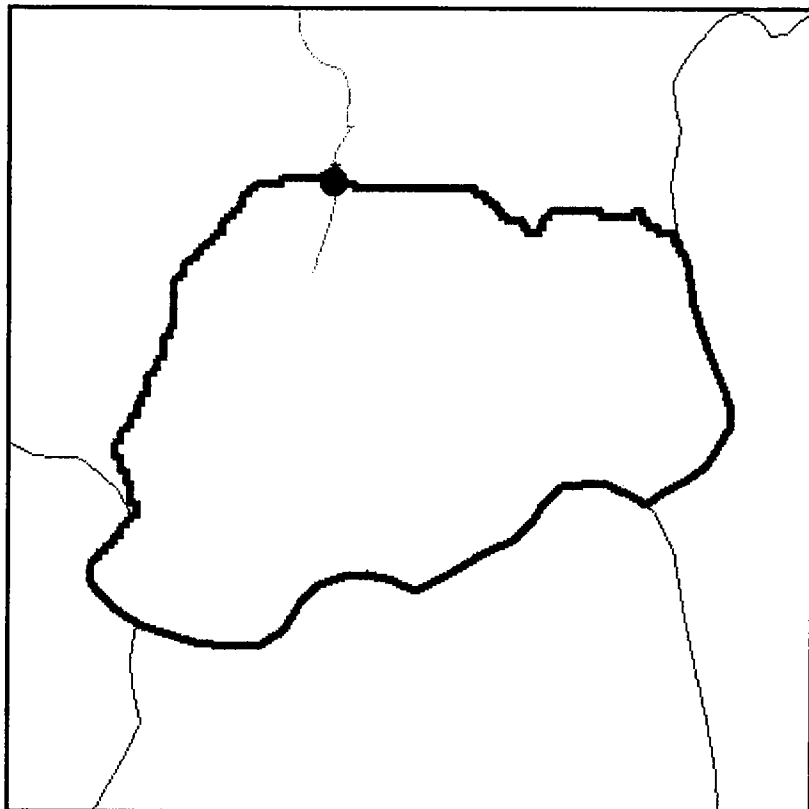
M49112: Chain of Custody
Page 2 of 2

Dilution Factor
NPDES RGP
Boylston, Massachusetts

Qd	Qd	Qs (7Q10)	DF
gpm	cfs	cfs	
35	0.078	0	1.0



Streamflow Statistics Report



Date: Fri Oct 07 14:55:00 2005

Warning! Drainage Area outside allowable range. Prediction intervals not calculated.

Latitude: 42.3291

Longitude: -71.7272

Measured Basin Characteristics:

Drainage Area (square miles): 0.28

Stratified Drift Area (square miles): 0.00

Stream Length (miles): 0.11

Slope (percent): 4.19

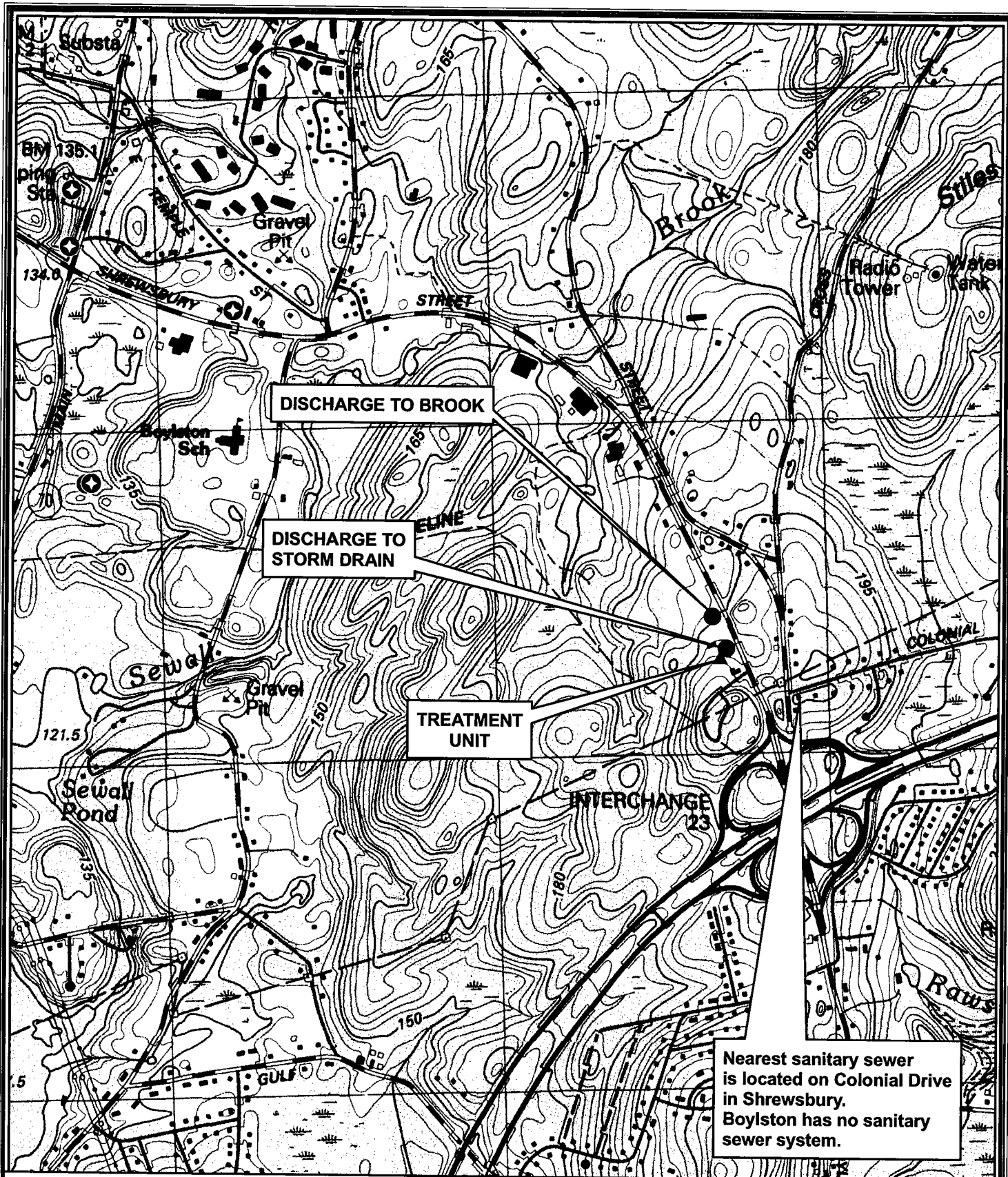
Region: 0

Statistic	Estimated streamflow, ft^3/s	90% Prediction interval	
		Minimum	Maximum
99-percent duration flow	0.00		
98-percent duration flow	0.00		
95-percent duration flow	0.01		

90-percent duration flow	0.02		
85-percent duration flow	0.02		
80-percent duration flow	0.04		
75-percent duration flow	0.05		
70-percent duration flow	0.07		
60-percent duration flow	0.15		
50-percent duration flow	0.26		
7-day, 2-year low flow	0.01		
7-day, 10-year low flow	0.00		
August median flow	0.02		

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



MOBIL SERVICE STATION NO. 17248 (FORMERLY 01-ELN)

328 SHREWSBURY STREET
BOYLSTON, MASSACHUSETTS

Legend

Public Water Supply (Wells)



0 625 1,250 2,500
Feet

NOTICE OF INTENT FOR
REMEDATION GENERAL PERMIT
LOCATION MAP

CDM



One Cambridge Place, 50 Hampshire Street
Cambridge, Massachusetts 02139
tel: 617 452-6000
fax: 617 452-8000

October 21, 2005

Northeast Regional Office
U.S. Fish and Wildlife Service
300 Westgate Center Drive
Hadley, Massachusetts 01035-9589

Subject: Endangered Species Habitat in Boylston, Massachusetts

To Whom It May Concern:

On behalf of Mobil Business Resource Corporation, Camp Dresser & McKee, Inc. is preparing a Notice of Intent under the National Pollutant Discharge Elimination System Remediation General Permit (NPDES RGP) for a groundwater remediation project in the Town of Boylston.

The site, Mobil Service Station No. 17248 (formerly 01-ELN), is located at 328 Shrewsbury Street in Boylston (see Location Map). The project consists of remediation of groundwater and discharge of the treated water to an intermittent stream. According to the Massachusetts Natural Heritage and Endangered Species Program (NHESP) website, bald eagles (*Haliaeetus leucocephalus*) are found in Boylston, Massachusetts. The discharge site is approximately 0.75 miles from the nearest NHESP designated Priority Habitat of Rare Species (PH 709 - please see attached Natural Heritage Quad), which is associated with Sewell Pond. The bald eagle is currently federally listed as a Threatened Species, and is also proposed for delisting. We hereby request a written response with your review of the potential for this discharge to adversely affect bald eagles or bald eagle habitat in the vicinity of this project.

Please contact me at (617) 452-6595 if you have any questions or require additional information.

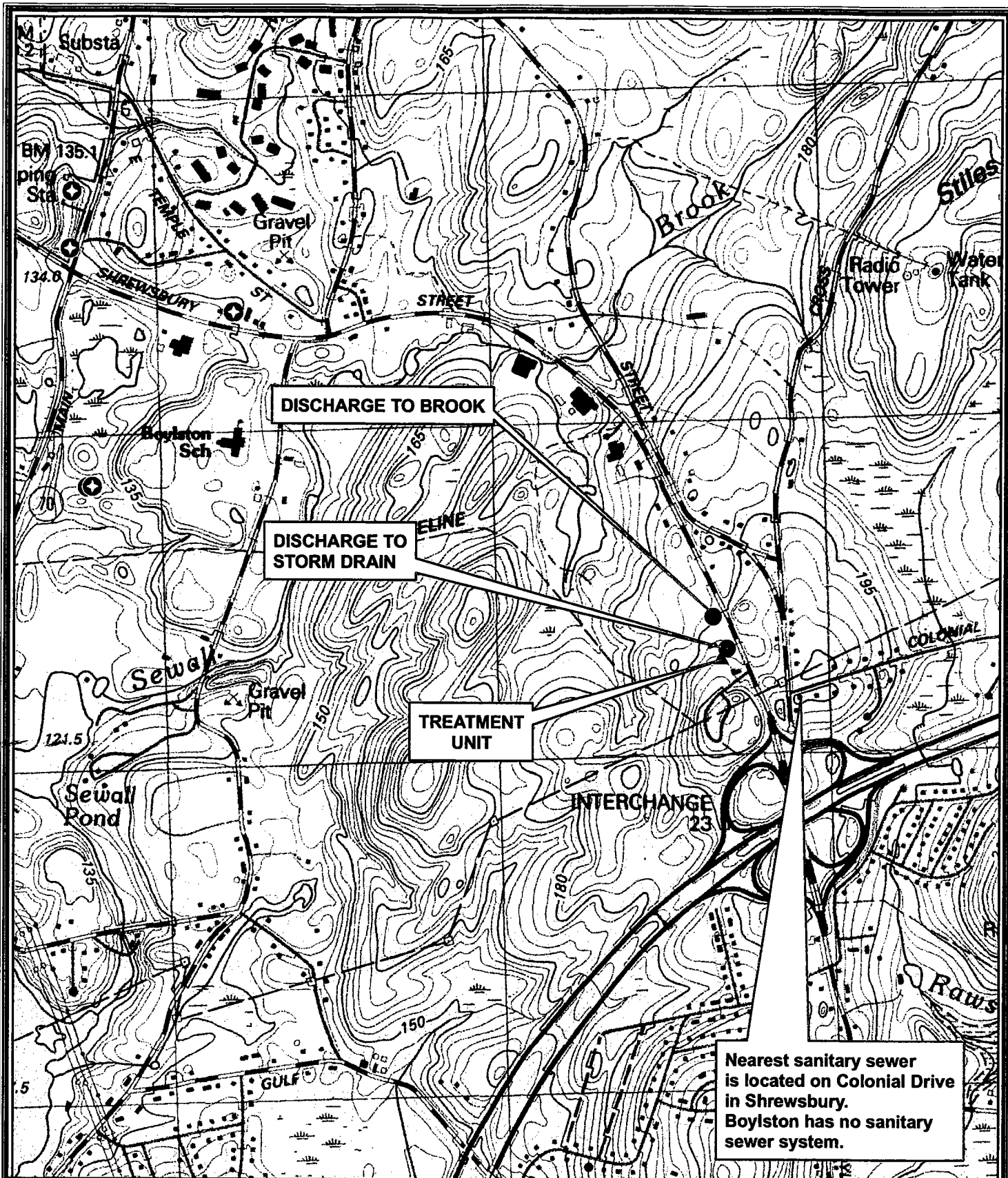
Very truly yours,

Robin Johnson
Environmental Scientist
Camp Dresser & McKee Inc.

cc: J. Zigmont, CDM

Attachments:

Location Map
NHESP Species List for the Town of Boylston
NHESP Habitat Atlas – Shrewsbury Quad



MOBIL SERVICE STATION NO. 17248 (FORMERLY 01-ELN)
328 SHREWSBURY STREET
BOYLSTON, MASSACHUSETTS



NOTICE OF INTENT FOR
REMEDiation GENERAL PERMIT
LOCATION MAP

Legend

Public Water Supply (Wells)

0 625 1,250 2,500
Feet

CDM

BOXFORD	*	Vascular Plant	Sparganium natans	Small Bur-Reed	E	1997
Town		Taxonomic Group	Scientific Name	Common Name	State Rank	Federal Rank Most Recent Obs
BOYLSTON		Fish	Notropis bifrenatus	Bridle Shiner	SC	1951
BOYLSTON	*	Amphibian	Ambystoma opacum	Marbled Salamander	T	1999
BOYLSTON	*	Reptile	Clemmys guttata	Spotted Turtle	SC	1990
BOYLSTON	*	Reptile	Clemmys insculpta	Wood Turtle	SC	1983
BOYLSTON	*	Bird	Gavia immer	Common Loon	SC	2000
BOYLSTON	*	Bird	Haliaeetus leucocephalus	Bald Eagle	E	(PS:LT,PDL) 1999
BOYLSTON		Bird	Podilymbus podiceps	Pied-Billed Grebe	E	1978
BOYLSTON		Vascular Plant	Arceuthobium pusillum	Dwarf Mistletoe	SC	1898
BOYLSTON		Vascular Plant	Hydrophyllum canadense	Broad Waterleaf	E	1943
BOYLSTON		Vascular Plant	Liatris borealis	New England Blazing Star	SC	1932
BOYLSTON	*	Vascular Plant	Ophioglossum pusillum	Adder's-Tongue Fern	T	2000
Town		Taxonomic Group	Scientific Name	Common Name	State Rank	Federal Rank Most Recent Obs
BRAINTREE	*	Reptile	Terrapene carolina	Eastern Box Turtle	SC	1997
BRAINTREE	*	Mussel	Ligumia nasuta	Eastern Pondmussel	SC	2000
BRAINTREE		Dragonfly/Damselfly	Anax longipes	Comet Darner	SC	1970
BRAINTREE		Dragonfly/Damselfly	Enallagma laterale	New England Bluet	SC	1969
BRAINTREE	*	Dragonfly/Damselfly	Somatochlora linearis	Mocha Emerald	SC	1989



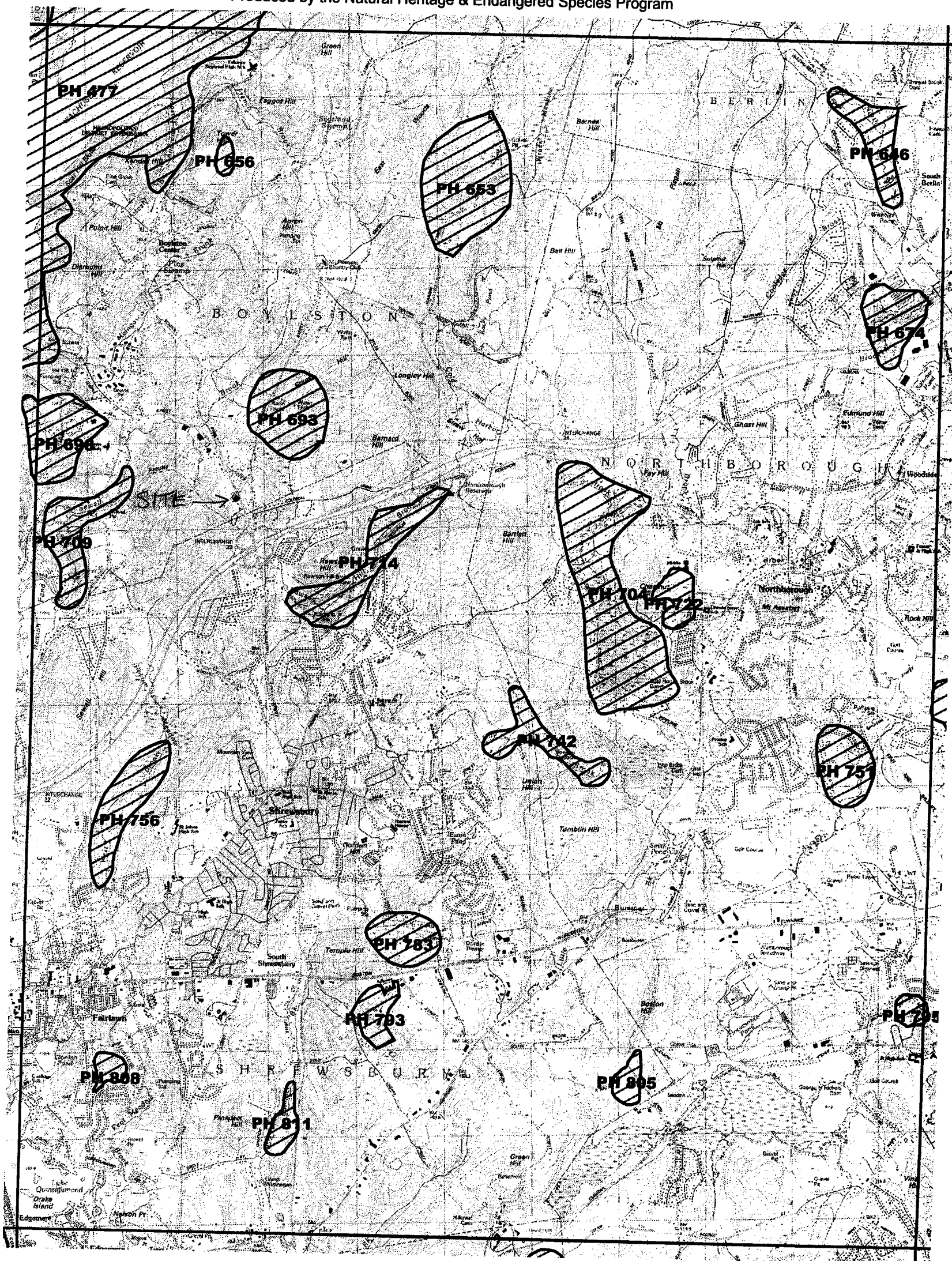
PRIORITY HABITATS OF RARE SPECIES

For species protected under MA Endangered Species Act Regulations (321 CMR 10)

Note: NOT equivalent to Significant Habitat

Effective June 1, 2003

Produced by the Natural Heritage & Endangered Species Program



0.5 0 0.5 1 Miles

See County Index Maps to
locate adjacent quadrangles



SHREWSBURY QUAD