

B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit

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

| | | | | |
|--|-----------------------|--|--|----------------------|
| a) Name of facility/site : DiDonato | | Facility/site address: | | |
| Location of facility/site : longitude: <u>71:06</u> latitude: <u>32:31</u> | Facility SIC code(s): | Street: 59 Bancroft Avenue | | |
| b) Name of facility/site owner : Roger DiDonato | | Town: Reading | | |
| Email address of owner: | | State: MA | Zip: 01867 | County: Middlesex |
| Telephone no. of facility/site owner : (617) 839-9297 | | | | |
| Fax no. of facility/site owner : | | Owner is (check one): 1. Federal____ 2. State/Tribal____ 3. Private <input checked="" type="checkbox"/> 4. other, if so, describe: | | |
| Address of owner (if different from site): | | | | |
| Street: | | | | |
| Town: | State: | Zip: | County: | |
| c) Legal name of operator : Commonwealth Tank, Inc. | | Operator telephone no: (617) 628-8260 | | |
| | | Operator fax no.: (781) 224-9908 | Operator email: dhoag@commtank.com | |
| Operator contact name and title: Daniel Hoag, Project Manager | | | | |

| | | | |
|--|-----------|--|-------------------|
| Address of operator (if different from owner): | | Street: 84 New Salem Street | |
| Town: Wakefield | State: MA | Zip: 01880 | County: Middlesex |
| d) Check "yes" or "no" for the following: 1. Has a prior NPDES permit exclusion been granted for the discharge? Yes___ No <input checked="" type="checkbox"/> , if "yes," number: 2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes___ No <input checked="" type="checkbox"/> , if "yes," date and tracking #: 3. Is the discharge a "new discharge" as defined by 40 CFR 122.2? Yes <input checked="" type="checkbox"/> No___ 4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes <input checked="" type="checkbox"/> No___ | | | |
| e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes <input checked="" type="checkbox"/> No___ If "yes," please list: 1. site identification # assigned by the state of NH or MA: RTN 3-28232 2. permit or license # assigned: 3. state agency contact information: name, location, and telephone number: Andrew Clark, NERO, (978) 694-3213 | | f) Is the site/facility covered by any other EPA permit, including: 1. multi-sector storm water general permit? Y___ N <input checked="" type="checkbox"/> , if Y, number: 2. phase I or II construction storm water general permit? Y___ N <input checked="" type="checkbox"/> , if Y, number: 3. individual NPDES permit? Y___ N <input checked="" type="checkbox"/> , if Y, number: 4. any other water quality related permit? Y___ N <input checked="" type="checkbox"/> , if Y, number: | |

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: Emergency remediation of a release of number 2 fuel. Groundwater will be recovered from a shallow recovery well, treated onsite with clay anthracite and activated carbon, and discharged to a town storm drain located on the corner of Bancroft Avenue and Middlesex Street. | | |
| 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>.022</u> Average flow <u>.022</u> Is maximum flow a design value ? Y___ N <input checked="" type="checkbox"/> For average flow, include the units and appropriate notation if this value is a design value or estimate if not available. This value is an estimate |
| 3) Latitude and longitude of each discharge within 100 feet: pt.1:long. <u>71:06</u> lat. <u>42:31</u> ; 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 <input checked="" type="checkbox"/> or seasonal _____? Is discharge ongoing Yes <input checked="" type="checkbox"/> No _____? |
| c) Expected dates of discharge (mm/dd/yy): start <u>02/14/09</u> end <u>02/14/10</u> | |
| 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). | |

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 | 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 | Maximum daily value | | Avg. daily value | |
|---------------------------------|----------------|-----------------|--------------------------|-----------------------------|-----------------------------------|-----------------------------------|----------------------|-----------|----------------------|-----------|
| | | | | | | | concentration (ug/l) | mass (kg) | concentration (ug/l) | mass (kg) |
| 1. Total Suspended Solids | | ✓ | 1 | Grab | 2540D | 4,000 | 141K | | | |
| 2. Total Residual Chlorine | ✓ | | | | | | | | | |
| 3. Total Petroleum Hydrocarbons | | ✓ | 1 | Grab | 8015 | 100 | 13 K | | | |
| 4. Cyanide | ✓ | | | | | | | | | |
| 5. Benzene | ✓ | | 1 | Grab | 8260B | 25 | <25 | | | |
| 6. Toluene | | ✓ | 1 | Grab | 8260B | 25 | 110 | | | |
| 7. Ethylbenzene | | ✓ | 1 | Grab | 8260B | 25 | 34 | | | |
| 8. (m,p,o) Xylenes | | ✓ | 1 | Grab | 8260B | 25 | 211 | | | |
| 9. Total BTEX ⁴ | | ✓ | 1 | Grab | 8260B | | 355 | | | |

⁴BTEX = 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 | Maximum daily value | | Avg. daily value | |
|---|----------------|-----------------|--------------------------|-----------------------------|-----------------------------------|-----------------------------------|----------------------|-----------|----------------------|-----------|
| | | | | | | | concentration (ug/l) | mass (kg) | concentration (ug/l) | mass (kg) |
| 10. Ethylene Dibromide (1,2- Dibromo-methane) | ✓ | | 1 | Grab | 8260B | 25 | <25 | | | |
| 11. Methyl-tert-Butyl Ether (MtBE) | ✓ | | 1 | Grab | 8260B | 25 | <25 | | | |
| 12. tert-Butyl Alcohol (TBA) | ✓ | | 1 | Grab | 8260B | 500 | <25 | | | |
| 13. tert-Amyl Methyl Ether (TAME) | ✓ | | 1 | Grab | 8260B | 25 | <25 | | | |
| 14. Naphthalene | | ✓ | 1 | Grab | 8260B | 25 | 180 | | | |
| 15. Carbon Tetra-chloride | ✓ | | 1 | Grab | 8260B | 25 | <25 | | | |
| 16. 1,4 Dichlorobenzene | ✓ | | 1 | Grab | 8260B | 25 | <25 | | | |
| 17. 1,2 Dichlorobenzene | ✓ | | 1 | Grab | 8260B | 25 | <25 | | | |
| 18. 1,3 Dichlorobenzene | ✓ | | 1 | Grab | 8260B | 25 | <25 | | | |
| 19. 1,1 Dichloroethane | ✓ | | 1 | Grab | 8260B | 25 | <25 | | | |
| 20. 1,2 Dichloroethane | ✓ | | 1 | Grab | 8260B | 25 | <25 | | | |
| 21. 1,1 Dichloroethylene | ✓ | | 1 | Grab | 8260B | 25 | <25 | | | |
| 22. cis-1,2 Dichloro-ethylene | ✓ | | 1 | Grab | 8260B | 25 | <25 | | | |
| 23. Dichloromethane (Methylene Chloride) | ✓ | | 1 | Grab | 8260B | 120 | <120 | | | |
| 24. Tetrachloroethylene | ✓ | | 1 | Grab | 8260B | 25 | <25 | | | |

| 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 | Maximum daily value | | Avg. daily Value | |
|--|----------------|-----------------|--------------------------|-----------------------------|-----------------------------------|-----------------------------------|----------------------|-----------|----------------------|-----------|
| | | | | | | | concentration (ug/l) | mass (kg) | concentration (ug/l) | mass (kg) |
| 25. 1,1,1 Trichloroethane | ✓ | | 1 | Grab | 8260B | 25 | <25 | | | |
| 26. 1,1,2 Trichloroethane | ✓ | | 1 | Grab | 8260B | 25 | <25 | | | |
| 27. Trichloroethylene | ✓ | | 1 | Grab | 8260B | 25 | <25 | | | |
| 28. Vinyl Chloride | ✓ | | 1 | Grab | 8260B | 25 | <25 | | | |
| 29. Acetone | ✓ | | 1 | Grab | 8260B | 1,200 | <1200 | | | |
| 30. 1,4 Dioxane | ✓ | | 1 | Grab | 8260B | 500 | <500 | | | |
| 31. Total Phenols | ✓ | | 1 | Grab | 8260B | | | | | |
| 32. Pentachlorophenol | ✓ | | | Grab | 8260B | | | | | |
| 33. Total Phthalates ⁵ (Phthalate esthers) | ✓ | | | | 8260B | | | | | |
| 34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate] | ✓ | | | | 8260B | | | | | |
| 35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH) | | ✓ | | | 3510A | | 7.0 | | | |
| a. Benzo(a) Anthracene | | ✓ | 1 | Grab | 3510A | 1 | 1.2 | | | |
| b. Benzo(a) Pyrene | | ✓ | 1 | Grab | 3510A | 1 | 1.3 | | | |
| c. Benzo(b)Fluoranthene | | ✓ | 1 | Grab | 3510A | 1 | 1.4 | | | |
| d. Benzo(k) Fluoranthene | | ✓ | 1 | Grab | 3510A | 1 | 1.4 | | | |
| e. Chrysene | | ✓ | 1 | Grab | 3510A | 1 | 1.7 | | | |

⁵The 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 | Maximum daily value | | Average daily value | |
|---|----------------|-----------------|--------------------------|-----------------------------|-----------------------------------|-----------------------------------|----------------------|-----------|----------------------|-----------|
| | | | | | | | concentration (ug/l) | mass (kg) | concentration (ug/l) | mass (kg) |
| f. Dibenzo(a,h) anthracene | ✓ | | 1 | Grab | A012E | .51 | 12.2 | | | |
| g. Indeno(1,2,3-cd) Pyrene | ✓ | | 1 | Grab | 3510A | .51 | <.51 | | | |
| 36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH) | | ✓ | 1 | Grab | 3510A | | 230.6 | | | |
| h. Acenaphthene | | ✓ | 1 | Grab | 3510A | 1 | 30 | | | |
| i. Acenaphthylene | | ✓ | 1 | Grab | 3510A | 1 | 27 | | | |
| j. Anthracene | | ✓ | 1 | Grab | 3510A | 1 | 4.4 | | | |
| k. Benzo(ghi) Perylene | ✓ | | 1 | Grab | 3510A | 1 | <1 | | | |
| l. Fluoranthene | | ✓ | 1 | Grab | 3510A | 1 | 2.9 | | | |
| m. Fluorene | | ✓ | 1 | Grab | 3510A | 1 | 18 | | | |
| n. Naphthalene- | | ✓ | 1 | Grab | 3510A | 1 | 120 | | | |
| o. Phenanthrene | | ✓ | 1 | Grab | 3510A | 1 | 23 | | | |
| p. Pyrene | | ✓ | 1 | Grab | 3510A | 1 | 5.3 | | | |
| 37. Total Polychlorinated Biphenyls (PCBs) | | ✓ | 1 | Grab | 6010B | | 32 | | | |
| 38. Antimony | ✓ | | 1 | Grab | 6010B | | | | | |
| 39. Arsenic | ✓ | | 1 | Grab | 6010B | 50 | <50 | | | |
| 40. Cadmium | ✓ | | 1 | Grab | 6010B | 5 | <5 | | | |
| 41. Chromium III | | ✓ | 1 | Grab | 6010B | 10 | 16 | | | |
| 42. Chromium VI | | ✓ | 1 | Grab | 6010B | 10 | 16 | | | |

| 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 | Maximum daily value | | Avg. daily value | |
|-------------------|----------------|-----------------|--------------------------|-----------------------------|-----------------------------------|-----------------------------------|----------------------|-----------|----------------------|-----------|
| | | | | | | | concentration (ug/l) | mass (kg) | concentration (ug/l) | mass (kg) |
| 43. Copper | ✓ | | 1 | Grab | 6010B | | | | | |
| 44. Lead | | ✓ | 1 | Grab | 6010B | 30 | 241 | | | |
| 45. Mercury | ✓ | | 1 | Grab | 7470A | 0.2 | <0.2 | | | |
| 46. Nickel | ✓ | | 1 | Grab | 6010B | | | | | |
| 47. Selenium | ✓ | | 1 | Grab | 6010B | 50 | <50 | | | |
| 48. Silver | ✓ | | 1 | Grab | 6010B | 7 | <7 | | | |
| 49. Zinc | ✓ | | 1 | Grab | 6010B | | | | | |
| 50. Iron | ✓ | | 1 | Grab | 6010B | | | | | |
| Other (describe): | | | | | | | | | | |

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

| | |
|--|--|
| <p><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____</p> | <p>If yes, which metals?</p> |
| <p><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: _____</p> | <p>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:</p> |

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

| | | | | | | |
|--|--------------|----------------|---|--------------------|------------|------------|
| <p>a) A description of the treatment system, including a schematic of the proposed or existing treatment system: The treatment system is composed of 6 steel cannisters containing 40 lbs of organophillic clay in line with 800 lbs of gas activated carbon. See attached drawing for more detail</p> | | | | | | |
| b) Identify each applicable treatment unit (check all that apply): | Frac. tank | Air stripper | Oil/water separator | Equalization tanks | Bag filter | GAC filter |
| | Chlorination | Dechlorination | Other (please describe): Organophillic clay will be used as the primary adsorber | | | |
| <p>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>4GPM</u> Maximum flow rate of treatment system <u>12 GPM</u> Design flow rate of treatment system <u>10 GPM</u></p> | | | | | | |
| <p>d) A description of chemical additives being used or planned to be used (attach MSDS sheets):</p> | | | | | | |

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 <input checked="" type="checkbox"/> | River/brook_____ | Wetlands_____ | Other (describe): |
| <p>b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters: Storm drains are monitored by the Town of Reading (EPA NPDES Permit Number: MAR041056). The water in this catch basin flows underground until it enters an open ditch at the railroad tracks at Washington Street. The water then goes underground again and resurfaces in another open ditch behind the homes on Bolton Street. The water goes underground for a short distance again and resurfaces in an open ditch at the property on General Way and eventually goes under Walkers Brook Drive to the point where it dumps into Walkers Brook. Walkers Brook eventually dumps into the Saugus River.</p> | | | | | | |

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 dischargers, 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.

d) Provide the state water quality classification of the receiving water B,

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water .29 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 No If yes, for which pollutant(s)?

Is there a TMDL? Yes No 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
Has any consultation with the federal services been completed? No or is consultation underway? 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

7. Supplemental information. :

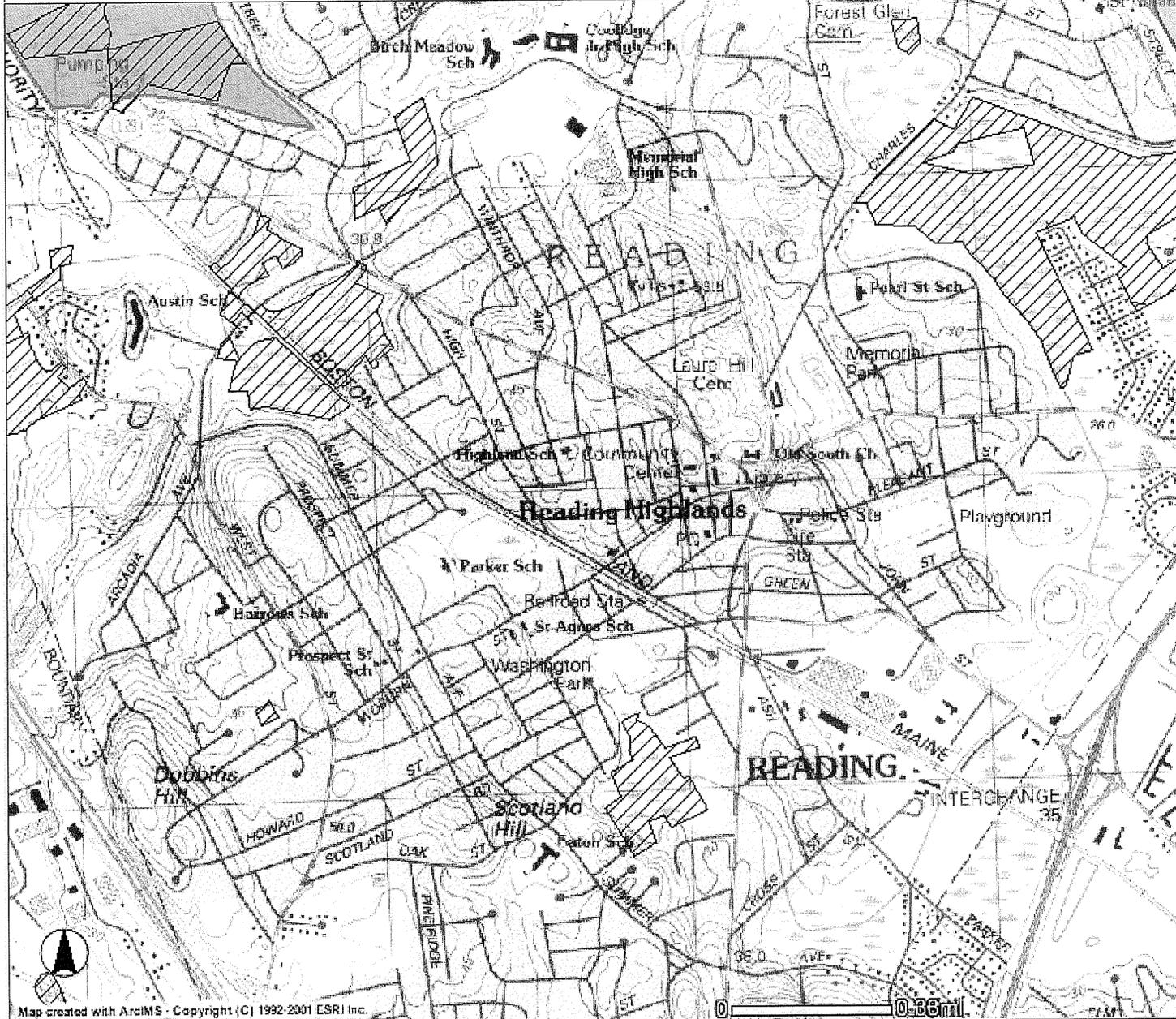
Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.

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: | Commonwealth Tank Inc. |
| Operator signature: |  |
| Title: | Project Manager |
| Date: | 1/23/09 |

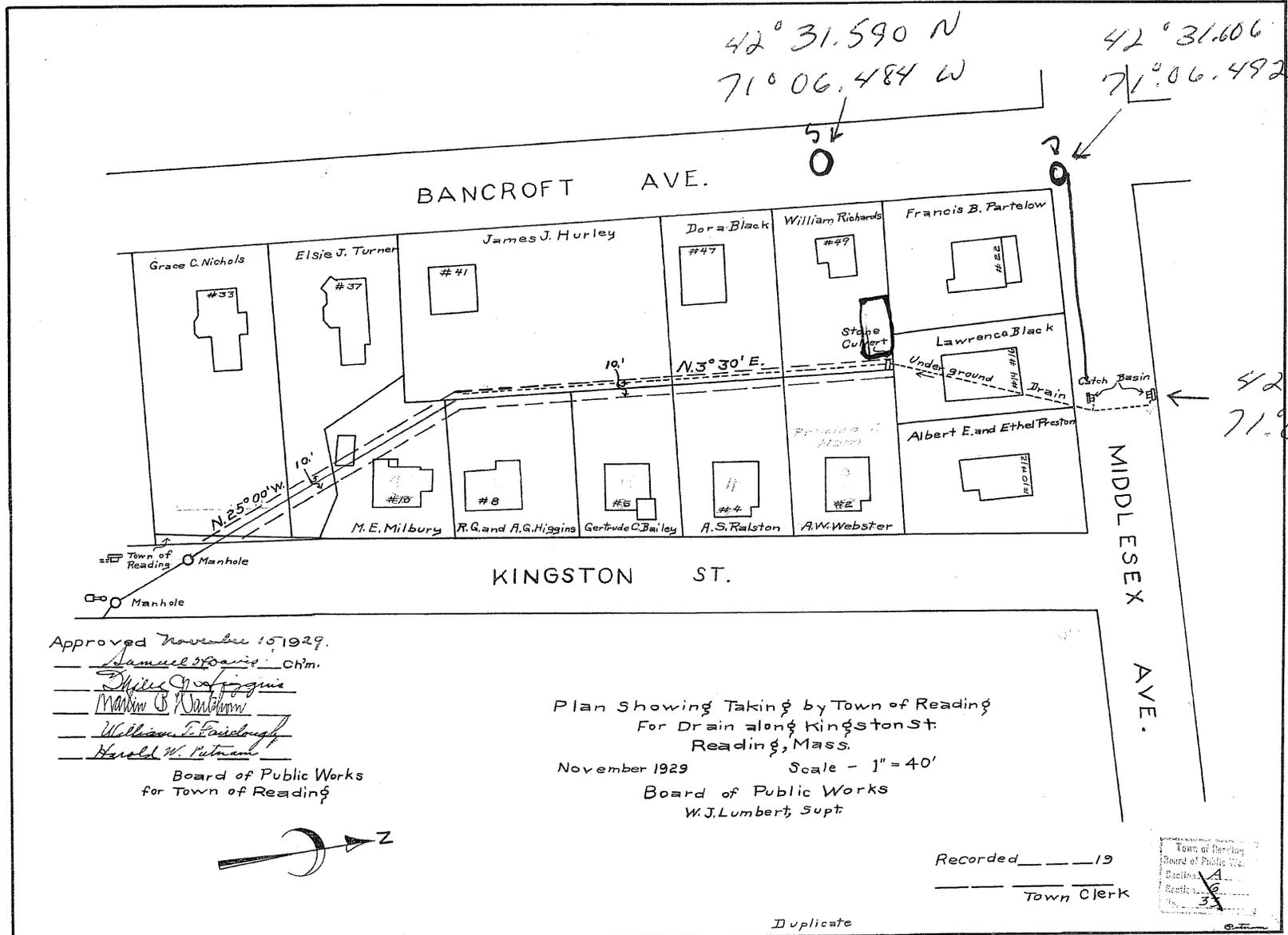
BioMap produced by Natural Heritage & Endangered Species Program



- Legend**
-  Surrounding States
 -  Permanently Protected Open Space
 -  BioMap Core Habitat
 -  BioMap Supporting Natural Landscapes

Map created with ArcIMS - Copyright (C) 1992-2001 ESRI Inc.

0 0.38mi



42° 31.590' N
71° 06.484' W

42° 31.606' N
71° 06.492' W

42° 31.612' N
71° 06.463' W

Approved November 15, 1929.

- Samuel S. Davis, Chm.
- Shille G. Higgins
- Martin C. Dunham
- William F. Fairclough
- Harold W. Putnam

Board of Public Works
for Town of Reading

Plan Showing Taking by Town of Reading
For Drain along Kingston St.
Reading, Mass.

November 1929 Scale - 1" = 40'

Board of Public Works
W.J. Lumbert, Supt



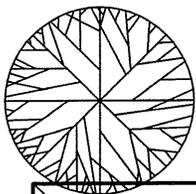
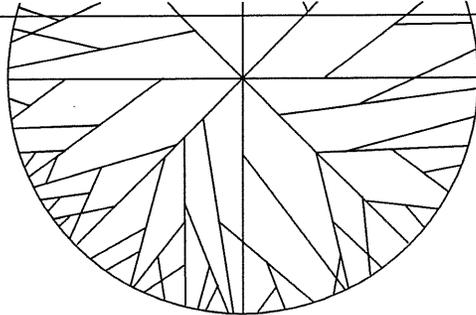
Recorded _____ 19
Town Clerk

Town of Reading
Board of Public Works
Section 4
Book 2
Page 3

Duplicate

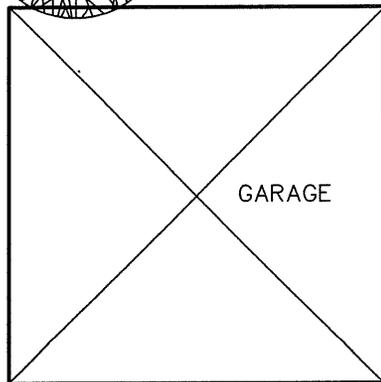
LF # 278

500-M-050

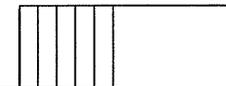


| LEGEND | |
|--------|------------------|
| | RECOVERY WELL |
| | SOIL GAS SURVEY |
| | MONITORING WELL |
| | CONTAINMENT AREA |
| | |

59 BANCROFT AVE.



GARAGE



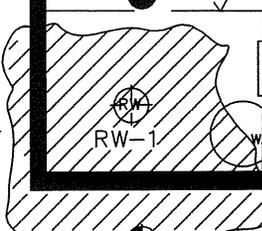
SB-5/ MW-5

MW-1

0.4 PPM
SG-1

CONTAINMENT AREA

FRONT PORCH



FURNACE

WATER HEATER

RW-1

MW-2

OPEN EXCAVATION

NO LONGER EXIST

DRIVEWAY

SB-4/ MW-4

BANCROFT AVE.

DIDONATO RESIDENCE
59 BANCROFT AVE.
READING, MA

MONITORING WELL LOCATIONS

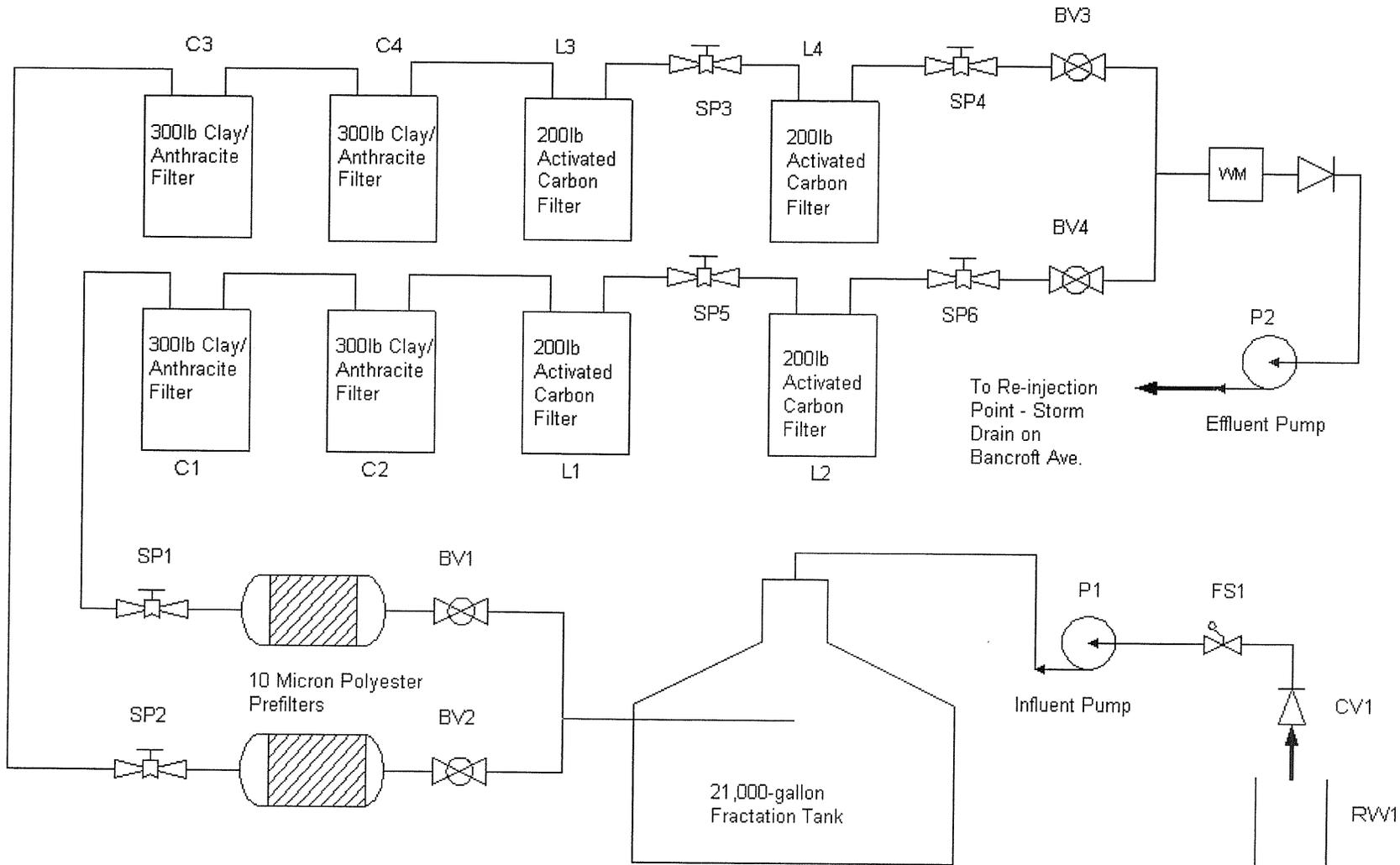
Approved by : KH

Drawn By: SM

Date
01/14/09

Scale
1:10

Commonwealth Tank Inc.



Lengend

- SP = Sample Port
- CV = Check Valve
- FS = Float Switch
- BV = Ball Valve
- GW = Groundwater Well
- WM = Water Meter
- S = Solenoid

| | |
|--|---|
| Oil Water Separator System Installation Diagram Revision A1 |  Installation Maintenance Removal |
| Drawn by: Daniel Hoag | |
| Reviewed by: Kevin Hoag | |
| Date: January 20, 2008 | |



317 Elm Street
Milford, NH 03055
(603) 673-5440
Fax (603) 673-0366
Sales@chemservelab.com

Friday, January 16, 2009

Kevin Hoag
Commonwealth Tank Environmental Inc.
84 New Salem Street
Wakefield MA 01880

Project Name: D. Donato
Project #: 13492
Project Location: 59 Bancroft Ave.
Control #: 74947

Lab ID: 09010070

Date Received: 1/13/2009

Dear Kevin Hoag

Enclosed please find the laboratory results for the above reference samples that were received by the ChemServe sample custodian on the above referenced date. Any abnormalities to the samples upon receipt would be noted on the enclosed chain of custody document. This report is not valid without a completed ChemServe chain of custody with the corresponding control number, attached.

All samples analyzed by ChemServe are subject to quality standards. These standards are as stringent or more stringent than those established under NELAC, 40 CFR Part 136, state certification programs, and corresponding methodologies. ChemServe has a written QA/QC Procedures Manual that outlines these standards, and is available for your reference, upon request. Unless otherwise stated on the Chain of Custody or within the report, all holding times, preservation techniques, container types, and analytical methods are analogous with those outlined by NELAC. All units are based on "as received" weight unless denoted "dry".

I certify that I have reviewed the above referenced analytical data and state forms, and I have found this report within compliance with the procedures outlined within NELAC.


Heather Beaudoin - QA/QC Manager

Jay Chrystal - President/Laboratory Director

This report includes 18 pages.





MADEP MCP Analytical Method Report Certification and Case Narrative

| | |
|----------------------------------|--|
| Job Name: D. Donato | Lab Number: 09010070 |
| Job Number: 13492 | Control Number: 74947 |
| Location: 59 Bancroft Ave | Client: Commonwealth Tank, Inc. |

Sample Matrix: Soil Groundwater Drinking Water Combined

| | | | | | |
|------------------------------------|-----------|-----------------|----------|-----------|-----------|
| MCP SW-846 Methods Used | 8260B (x) | 8270C () | 8082 () | 8081A () | 8021B () |
| | 8151A () | EPH (x) | VPH () | 6010B (x) | 7470A (x) |
| | 7471A () | 7000 series () | 9014 () | | |

| | <i>An Affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status</i> | Yes | No |
|---|---|-----|----|
| 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? | X | |
| 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? | X | |
| C | Does all of the data contained in this report meet the analytical requirements for "Presumptive Certainty" as described on the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? | X | |
| D | VPH and EPH methods only: Was the VPH and/or EPH method conducted without any significant modifications? | X | |
| | <i>A response to questions E and F below is required for "Presumptive Certainty" status</i> | | |
| E | Were all analytical QC performance standards and recommendations for the specified methods achieved? If not discuss below. | X | |
| F | Was the client notified of additional contaminants present that were calibrated and analyzed for, even if they were not requested? | X | |

Case Narrative Section

Inorganic / Metals Analysis Discussion: N/A

EPH / Semi-Volatile Analysis Discussion: N/A

VPH / Volatile Analysis Discussion: N/A

Pesticide/PCB/Herbicide Analysis Discussion: N/A

Heather Beaudoin

Heather Beaudoin, QA/QC Manager

1/16/09

Date

Commonwealth Tank Environmental Inc.

Kevin Hoag
84 New Salem Street
Wakefield MA 01880

Control #: 74947
Project Number: 13492
Project Name: D. Donato
Project Location: 59 Bancroft Ave.

Lab ID: 09010070
Date: 1/16/2009

Lab ID: 09010070

Sample Receiving and Comment Summary

| | |
|--|-----|
| Were Samples Submitted with a chain of custody? | Yes |
| Do all samples received match the chain of custody? | Yes |
| Were all samples received within holding times? | Yes |
| Were all containers intact when received? | Yes |
| Was there evidence of cooling? | Yes |
| Were samples for Volatile organic analysis free of headspace (per method)? | Yes |
| Was the cooler temperature recorded? | Yes |
| If the sample pH was not correct was it adjusted where applicable? | Yes |
| If samples for dissolved metals were not filtered were they filtered in the lab? | N/A |

| Sample | Method | Client Identity | Matrix | Analyst |
|--------------|---------|-----------------|-------------|---------|
| 09010070-001 | SW 8015 | Groundwater | Groundwater | ChrisK |

Comment: The carbon range for the reported result is C3-C30.

* Blank comment sections denote "No Comment"



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Commonwealth Tank Environmental Inc.
 Kevin Hoag
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 Wakefield MA 01880

Control #: 74947
 Project Number: 13492
 Project Name: D. Donato
 Project Location: 59 Bancroft Ave.

Analytical Results

Lab ID: 09010070
 Date: 1/16/2009

| Sample | Method | Client Identity | Units | Matrix | Analyst |
|--------------|----------|-----------------|-------|-------------|----------|
| 09010070-001 | SM 2540D | Groundwater | mg/L | Groundwater | HeatherM |

Start Date/Time Sampled: 1/12/2009 Composite End Date/Time:

| Parameter | CAS Number | Result | Qualifier | Date/Time Analyzed | Dilution Factor | RDL |
|------------------------|------------|----------|-----------|--------------------|-----------------|-----|
| Total Suspended Solids | | 141 mg/L | | 1/13/2009 | 1 | 4 |

| Sample | Method | Client Identity | Units | Matrix | Analyst |
|--------------|-------------|-----------------|-------|-------------|---------|
| 09010070-001 | SM 4500-H-B | Groundwater | units | Groundwater | VickiP |

Start Date/Time Sampled: 1/12/2009 Composite End Date/Time:

| Parameter | CAS Number | Result | Qualifier | Date/Time Analyzed | Dilution Factor | RDL |
|-----------|------------|------------|-----------|----------------------|-----------------|-----|
| pH | | 8.67 units | | 1/13/2009 4:30:00 PM | 1 | 0 |

| Sample | Method | Client Identity | Units | Matrix | Analyst |
|--------------|---------|-----------------|-------|-------------|----------|
| 09010070-001 | SW 1030 | Groundwater | °F | Groundwater | HeatherM |

Start Date/Time Sampled: 1/12/2009 Composite End Date/Time:

| Parameter | CAS Number | Result | Qualifier | Date/Time Analyzed | Dilution Factor | RDL |
|------------|------------|--------|-----------|--------------------|-----------------|-----|
| Flashpoint | | >165 | | 1/14/2009 | 1 | 70 |

| Sample | Method | Client Identity | Units | Matrix | Analyst |
|--------------|----------|-----------------|-------|-------------|---------|
| 09010070-001 | SW 3005A | Groundwater | | Groundwater | VickiP |

Start Date/Time Sampled: 1/12/2009 Composite End Date/Time:

| Parameter | CAS Number | Result | Qualifier | Date/Time Analyzed | Dilution Factor | RDL |
|---------------------|------------|--------|-----------|--------------------|-----------------|-----|
| Hot Plate Digestion | | | | 1/13/2009 | 1 | 0 |

| Sample | Method | Client Identity | Units | Matrix | Analyst |
|--------------|----------|-----------------|-------|-------------|---------|
| 09010070-001 | SW 6010B | Groundwater | mg/L | Groundwater | PaulF |

Start Date/Time Sampled: 1/12/2009 Composite End Date/Time:

| Parameter | CAS Number | Result | Qualifier | Date/Time Analyzed | Dilution Factor | RDL |
|-----------|------------|--------------|-----------|--------------------|-----------------|-------|
| Arsenic | 7440-38-2 | < 0.05 mg/L | | 1/13/2009 | 1 | 0.05 |
| Barium | 7440-39-3 | 0.078 mg/L | | 1/13/2009 | 1 | 0.01 |
| Cadmium | 7440-43-9 | < 0.005 mg/L | | 1/13/2009 | 1 | 0.005 |
| Chromium | 7440-47-3 | 0.016 mg/L | | 1/13/2009 | 1 | 0.01 |
| Lead | 7439-92-1 | 0.241 mg/L | | 1/13/2009 | 1 | 0.03 |



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| Sample | Method | Client Identity | Units | Matrix | Analyst |
|--------------|----------|-----------------|-------|-------------|---------|
| 09010070-001 | SW 6010B | Groundwater | mg/L | Groundwater | PaulF |

Start Date/Time Sampled: 1/12/2009 Composite End Date/Time:

| Parameter | CAS Number | Result | Qualifier | Date/Time Analyzed | Dilution Factor | RDL |
|-----------|------------|--------------|-----------|--------------------|-----------------|-------|
| Selenium | 7782-49-2 | < 0.05 mg/L | | 1/13/2009 | 1 | 0.05 |
| Silver | 7440-22-4 | < 0.007 mg/L | | 1/13/2009 | 1 | 0.007 |

| Sample | Method | Client Identity | Units | Matrix | Analyst |
|--------------|----------|-----------------|-------|-------------|---------|
| 09010070-001 | SW 7470A | Groundwater | mg/L | Groundwater | PaulF |

Start Date/Time Sampled: 1/12/2009 Composite End Date/Time:

| Parameter | CAS Number | Result | Qualifier | Date/Time Analyzed | Dilution Factor | RDL |
|-----------|------------|---------------|-----------|--------------------|-----------------|--------|
| Mercury | 7439-97-6 | < 0.0002 mg/L | | 1/16/2009 | 1 | 0.0002 |

| Sample | Method | Client Identity | Units | Matrix | Analyst |
|--------------|---------|-----------------|-------|-------------|---------|
| 09010070-001 | SW 8015 | Groundwater | | Groundwater | CalebH |

Start Date/Time Sampled: 1/12/2009 Composite End Date/Time:

| Parameter | CAS Number | Result | Qualifier | Date/Time Analyzed | Dilution Factor | RDL |
|--------------------|------------|------------|-----------|--------------------|-----------------|-----|
| Extraction SW 8015 | | | | 1/14/2009 | 1 | 0 |
| TPH as Diesel | | 13000 ug/L | | 1/14/2009 | 1.04 | 100 |
| TPH as Lube Oil | | < 100 ug/L | | 1/14/2009 | 1.04 | 100 |

| Sample | Method | Client Identity | Units | Matrix | Analyst |
|--------------|----------|-----------------|-------|-------------|---------|
| 09010070-001 | SW 8260B | Groundwater | ug/L | Groundwater | TimD |

Start Date/Time Sampled: 1/12/2009 Composite End Date/Time:

| Parameter | CAS Number | Result | Qualifier | Date/Time Analyzed | Dilution Factor | RDL |
|-----------------------------|------------|-----------|-----------|--------------------|-----------------|-----|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 1,1,1-Trichloroethane | 71-55-6 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 1,1,2-Trichloroethane | 79-00-5 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 1,1-Dichloroethane | 75-34-3 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 1,1-Dichloroethene | 75-35-4 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 1,1-Dichloropropene | 563-58-6 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 1,2,3-Trichlorobenzene | 87-61-6 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 1,2,3-Trichloropropane | 96-18-4 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 1,2,4-Trichlorobenzene | 120-82-1 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120 ug/L | | 1/14/2009 | 25 | 25 |
| 1,2-Dibromo-3-Chloropropane | 96-12-8 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 1,2-Dibromoethane | 106-93-4 | < 25 ug/L | | 1/14/2009 | 25 | 25 |

| Sample | Method | Client Identity | Units | Matrix | Analyst |
|--------------|----------|-----------------|-------|-------------|---------|
| 09010070-001 | SW 8260B | Groundwater | ug/L | Groundwater | Tim D |

Start Date/Time Sampled: 1/12/2009

Composite End Date/Time:

| Parameter | CAS Number | Result | Qualifier | Date/Time Analyzed | Dilution Factor | RDL |
|-----------------------------------|------------|-------------|-----------|--------------------|-----------------|------|
| 1,2-Dichlorobenzene | 95-50-1 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 1,2-Dichloroethane | 107-06-2 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 1,2-Dichloropropane | 78-87-5 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 1,3,5-Trichlorobenzene | 108-70-3 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 36 ug/L | | 1/14/2009 | 25 | 25 |
| 1,3-Dichlorobenzene | 541-73-1 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 1,3-Dichloropropane | 142-28-9 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 1,4-Dichlorobenzene | 106-46-7 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 1,4-Dioxane | 123-91-1 | < 500 ug/L | | 1/14/2009 | 25 | 500 |
| 2,2-Dichloropropane | 594-20-7 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 2-Butanone | 78-93-3 | < 250 ug/L | | 1/14/2009 | 25 | 250 |
| 2-Chloroethyl Vinyl Ether | 110-75-8 | < 250 ug/L | | 1/14/2009 | 25 | 250 |
| 2-Chlorotoluene | 95-49-8 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 2-Ethoxy-2-Methyl Propane (ETBE) | 637-92-3 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 2-Hexanone | 591-78-6 | < 250 ug/L | | 1/14/2009 | 25 | 250 |
| 2-Methoxy-2-Methyl Butane (TAME) | 994-05-8 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 2-Methoxy-2-Methyl Propane (MTBE) | 1634-04-4 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 2-Methyl-2-Propanol (TBA) | 75-65-0 | < 500 ug/L | | 1/14/2009 | 25 | 500 |
| 4-Chlorotoluene | 106-43-4 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 4-Isopropyltoluene | 99-87-6 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| 4-Methyl-2-Pentanone | 108-10-1 | < 250 ug/L | | 1/14/2009 | 25 | 250 |
| Acetone | 67-64-1 | < 1200 ug/L | | 1/14/2009 | 25 | 1200 |
| Acrolein | 107-32-8 | < 120 ug/L | | 1/14/2009 | 25 | 120 |
| Acrylonitrile | 107-13-1 | < 120 ug/L | | 1/14/2009 | 25 | 120 |
| Benzene | 71-43-2 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| Bromobenzene | 108-86-1 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| Bromochloromethane | 74-97-5 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| Bromodichloromethane | 75-27-4 | < 15 ug/L | | 1/14/2009 | 25 | 15 |
| Bromoform | 75-25-2 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| Bromomethane | 74-83-9 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| Carbon Disulfide | 75-15-0 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| Carbon Tetrachloride | 56-23-5 | < 25 ug/L | | 1/14/2009 | 25 | 25 |



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| Sample | Method | Client Identity | Units | Matrix | Analyst |
|--------------|----------|-----------------|-------|-------------|---------|
| 09010070-001 | SW 8260B | Groundwater | ug/L | Groundwater | TimD |

Start Date/Time Sampled: 1/12/2009 Composite End Date/Time:

| Parameter | CAS Number | Result | Qualifier | Date/Time Analyzed | Dilution Factor | RDL |
|---------------------------|------------|------------|-----------|--------------------|-----------------|-----|
| Chlorobenzene | 108-90-7 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| Chloroethane | 75-00-3 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| Chloroform | 67-66-3 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| Chloromethane | 74-87-3 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| Cis-1,2-Dichloroethene | 156-59-2 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| Cis-1,3-Dichloropropene | 10061-01-5 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| Dibromochloromethane | 124-48-1 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| Dibromomethane | 74-95-3 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| Dichlorodifluoromethane | 75-71-8 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| Diethyl Ether | 60-29-7 | < 120 ug/L | | 1/14/2009 | 25 | 120 |
| Di-Isopropyl Ether | 108-20-3 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| Ethylbenzene | 100-41-4 | 34 ug/L | | 1/14/2009 | 25 | 25 |
| Hexachlorobutadiene | 87-68-3 | < 12 ug/L | | 1/14/2009 | 25 | 12 |
| Isopropylbenzene | 98-82-8 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| M/P-Xylene | | 130 ug/L | | 1/14/2009 | 25 | 25 |
| Methylene Chloride | 75-09-2 | < 120 ug/L | | 1/14/2009 | 25 | 120 |
| Naphthalene | 91-20-3 | 180 ug/L | | 1/14/2009 | 25 | 25 |
| N-Butylbenzene | 104-51-8 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| N-Propylbenzene | 103-85-1 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| O-Xylene | 95-47-6 | 81 ug/L | | 1/14/2009 | 25 | 25 |
| Sec-Butylbenzene | 135-98-8 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| Styrene | 100-42-5 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| Tert-Butylbenzene | 98-06-6 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| Tetrachloroethene | 127-18-4 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| Tetrahydrofuran | 109-99-9 | < 120 ug/L | | 1/14/2009 | 25 | 120 |
| Toluene | 108-88-3 | 110 ug/L | | 1/14/2009 | 25 | 25 |
| Trans-1,2-Dichloroethene | 156-60-5 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| Trans-1,3-Dichloropropene | 10061-02-6 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| Trichloroethene | 79-01-6 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| Trichlorofluoromethane | 75-68-4 | < 25 ug/L | | 1/14/2009 | 25 | 25 |
| Vinyl Chloride | 75-01-4 | < 25 ug/L | | 1/14/2009 | 25 | 25 |

| Qualifier: | Description: |
|------------|--|
| B- | Method blank contaminated with target analyte. |
| B1- | BOD had total oxygen loss. Result reported as ">" the highest dilution. |
| B2- | BOD had no oxygen loss. Result reported as "<" the lowest dilution. |
| G- | Reporting limit elevated due to matrix interference. |
| H- | Method prescribed holding time exceeded. |
| J- | Indicates an estimated value. Value is less than the quantitation limit. |
| LH- | Laboratory control spike(s) was high. Results may be biased high. |
| LL- | Laboratory control spike(s) was low. Results may be biased low. |
| MH- | Matrix spike recovery high due to matrix. Results may be biased high. |
| ML- | Matrix spike recovery low due to matrix. Results may be biased low. |
| NC- | Spike recovery was not calculated due to the concentration of the analyte being >4 times the concentration of the spike added. |
| R- | RPD outside acceptable recovery limits. |
| RO- | Sample received out of holding time. |
| SH- | Surrogate recovery high due to matrix |
| SL- | Surrogate recovery low due to matrix |
| TNTC- | Too numerous to count. |
| U- | BOD/CBOD blank had an oxygen depletion greater than the suggested amount of 0.200. |

MADEP EPH DATA

SAMPLE INFORMATION

| | |
|-------------------|--|
| Matrix | <input checked="" type="checkbox"/> Aqueous <input type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Other |
| Containers | <input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking |
| Preservation | <input type="checkbox"/> N/A <input checked="" type="checkbox"/> pH<2 <input type="checkbox"/> pH>2 Comment: |
| Temperature | <input type="checkbox"/> Received on Ice <input checked="" type="checkbox"/> Received at 4°C <input type="checkbox"/> Other |
| Extraction Method | Water: SW846 3510A Soil: |

EPH ANALYTICAL RESULTS

| | | |
|--|------------------|--------------|
| Method for Ranges: MADEP EPH 04 1.1 | Client ID: | Groundwater |
| Method for Target Analytes: GC | Lab ID: | 09010070-001 |
| EPH Surrogate Standards | Date Collected: | 01/12/09 |
| Aliphatic: Chloro-octadecane | Date Received: | 01/13/09 |
| Aromatic: o-Terphenyl | Date Extracted: | 01/14/09 |
| EPH Fractionation Surrogate: | Date Analyzed: | 01/14/09 |
| 2-Bromonaphthalene | Dilution Factor: | 1.02 |
| | RL | Units |
| Unadjusted C11-C22 Aromatics¹ | 87 | UG/L 2700 |
| Diesel PAH Analytes | 1 | UG/L 120 |
| Naphthalene | 1 | UG/L 190 |
| 2-Methylnaphthalene | 1 | UG/L 23 |
| Phenanthrene | 1 | UG/L 30 |
| Acenaphthene | 1 | UG/L 27 |
| Other Target Analytes | 1 | UG/L 4.4 |
| Acenaphthalene | 1 | UG/L 1.2 |
| Anthracene | 1 | UG/L 1.3 |
| Benzo(a)Anthracene | 1 | UG/L 1.4 |
| Benzo(a)Pyrene | 1 | UG/L <RL |
| Benzo(b)Fluoranthene | 1 | UG/L 1.4 |
| Benzo(g,h,i)Perylene | 1 | UG/L 1.7 |
| Benzo(k)Fluoranthene | 0.51 | UG/L <RL |
| Chrysene | 1 | UG/L 2.9 |
| Dibenzo(a,h)Anthracene | 1 | UG/L 18 |
| Fluoranthene | 0.51 | UG/L <RL |
| Fluorene | 1 | UG/L 5.3 |
| Ideno(1,2,3-cd)Pyrene | 590 | UG/L 2800 |
| Pyrene | 51 | UG/L 1400 |
| C9-C18 Aliphatic Hydrocarbons¹ | 87 | UG/L 2200 |
| C19-C36 Aliphatic Hydrocarbons¹ | | 45% |
| C11-C22 Aromatic Hydrocarbons^{1,2} | | 93% |
| Chloro-octadecane % Recovery | | 40-140% |
| o-Terphenyl % Recovery | | 85% |
| Surrogate Acceptance Range | | 40-140% |
| 2-Bromonaphthalene % Recovery | | |
| Surrogate Acceptance Range | | |

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range
²C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

Certification

Were all QA/QC procedures required by the EPH method followed? Yes No- Details attached

Were all performance/acceptance standards for the required QA/QC procedures Achieved? Yes No- Details attached

Were any significant modifications made to the EPH method, as specified in section 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.

Jay W. Chrystal Laboratory Director _____ Date _____

MADEP EPH DATA

SAMPLE INFORMATION

| | |
|-------------------|--|
| Matrix | <input checked="" type="checkbox"/> Aqueous <input type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Other |
| Containers | <input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking |
| Preservation | N/A <input checked="" type="checkbox"/> pH<2 <input type="checkbox"/> pH>2 Comment: |
| Temperature | <input type="checkbox"/> Received on Ice <input checked="" type="checkbox"/> Received at 4°C <input type="checkbox"/> Other |
| Extraction Method | Water: SW846 3510A Soil: |

EPH ANALYTICAL RESULTS

| | | |
|--|------------------|--------------|
| Method for Ranges: MADEP EPH 04 1.1 | Client ID: | 9010070 |
| Method for Target Analytes: GC | Lab ID: | Method Blank |
| EPH Surrogate Standards | Date Collected: | NA |
| Aliphatic: Chloro-octadecane | Date Received: | NA |
| Aromatic: o-Terphenyl | Date Extracted: | 01/13/09 |
| EPH Fractionation Surrogate: | Date Analyzed: | 01/14/09 |
| 2-Bromonaphthalene | Dilution Factor: | 1 |
| | RL | Units |
| Unadjusted C11-C22 Aromatics¹ | 85 | UG/L |
| | <RL | |
| Diesel PAH Analytes | | |
| Naphthalene | 1 | UG/L |
| 2-Methylnaphthalene | 1 | UG/L |
| Phenanthrene | 1 | UG/L |
| Acenaphthene | 1 | UG/L |
| | <RL | |
| Other Target Analytes | | |
| Acenaphthalene | 1 | UG/L |
| Anthracene | 1 | UG/L |
| Benzo(a)Anthracene | 1 | UG/L |
| Benzo(a)Pyrene | 0.2 | UG/L |
| Benzo(b)Fluoranthene | 1 | UG/L |
| Benzo(g,h,i)Perylene | 1 | UG/L |
| Benzo(k)Fluoranthene | 1 | UG/L |
| Chrysene | 1 | UG/L |
| Dibenzo(a,h)Anthracene | 0.5 | UG/L |
| Fluoranthene | 1 | UG/L |
| Fluorene | 1 | UG/L |
| Ideno(1,2,3-cd)Pyrene | 0.5 | UG/L |
| Pyrene | 1 | UG/L |
| | <RL | |
| C9-C18 Aliphatic Hydrocarbons¹ | 120 | UG/L |
| | <RL | |
| C19-C36 Aliphatic Hydrocarbons¹ | 50 | UG/L |
| | <RL | |
| C11-C22 Aromatic Hydrocarbons^{1,2} | 85 | UG/L |
| | <RL | |
| Chloro-octadecane % Recovery | | 59% |
| o-Terphenyl % Recovery | | 74% |
| Surrogate Acceptance Range | | 40-140% |
| 2-Bromonaphthalene % Recovery | | 83% |
| Surrogate Acceptance Range | | 40-140% |

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

²C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

Certification

Were all QA/QC procedures required by the EPH method followed? Yes No- Details attached

Were all performance/acceptance standards for the required QA/QC procedures Achieved? Yes No- Details attached

Were any significant modifications made to the EPH method, as specified in section 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.

Jay W. Chrystal Laboratory Director

Date

MADEP EPH SPIKE DATA

| | |
|----------------|------------|
| Lab ID: | 09010070 |
| Date Analyzed: | 01/14/09 |
| LCS | LCSD011309 |
| LCSD | LCSD011309 |

| Target Spiking Compounds | Conc. Added (UG/L) | LCS Amt. (UG/L) | %REC | LCSD Amt. (UG/L) | % REC | %RPD |
|--------------------------|--------------------|-----------------|------|------------------|-------|------|
| Nonane | 25 | 7.6 | 31% | 8.5 | 34% | 11% |
| Decane | 25 | 10.1 | 40% | 11.2 | 45% | 11% |
| Dodecane | 25 | 12.9 | 51% | 13.0 | 52% | 1% |
| Tetradecane | 25 | 14.1 | 56% | 13.7 | 55% | 3% |
| Hexadecane | 25 | 13.8 | 55% | 13.4 | 53% | 3% |
| Octadecane | 25 | 14.6 | 59% | 14.3 | 57% | 2% |
| Nonadecane | 25 | 15.4 | 61% | 15.1 | 60% | 2% |
| Eicosane | 25 | 16.1 | 64% | 15.9 | 64% | 1% |
| Docosane | 25 | 16.7 | 67% | 16.4 | 66% | 2% |
| Tetracosane | 25 | 16.9 | 68% | 16.7 | 67% | 2% |
| Hexacosane | 25 | 17.1 | 68% | 16.9 | 67% | 1% |
| Octacosane | 25 | 17.1 | 68% | 16.9 | 68% | 1% |
| triacontane | 25 | 17.0 | 68% | 16.9 | 68% | 1% |
| Hexatriacontane | 25 | 17.4 | 69% | 17.1 | 68% | 2% |
| Naphthalene | 25 | 18.8 | 75% | 18.1 | 72% | 4% |
| 2-Methylnaphthalene | 25 | 19.9 | 80% | 19.0 | 76% | 5% |
| Acenaphthalene | 25 | 20.3 | 81% | 19.1 | 76% | 6% |
| Acenaphthene | 25 | 19.8 | 79% | 18.8 | 75% | 5% |
| Fluorene | 25 | 19.7 | 79% | 18.8 | 75% | 5% |
| Phenanthrene | 25 | 21.2 | 85% | 20.0 | 80% | 6% |
| Anthracene | 25 | 18.4 | 74% | 17.3 | 69% | 6% |
| Fluoranthene | 25 | 23.6 | 95% | 22.1 | 89% | 7% |
| Pyrene | 25 | 23.4 | 94% | 21.9 | 88% | 7% |
| Benzo(a)Anthracene | 25 | 23.5 | 94% | 22.2 | 89% | 6% |
| Chrysene | 25 | 24.4 | 98% | 23.2 | 93% | 5% |
| Benzo(b)Fluoranthene | 25 | 24.9 | 100% | 23.7 | 95% | 5% |
| Benzo(k)Fluoranthene | 25 | 24.7 | 99% | 23.6 | 94% | 5% |
| Benzo(a)Pyrene | 25 | 25.7 | 103% | 24.8 | 99% | 4% |
| Ideno(1,2,3-cd)Pyrene | 25 | 22.8 | 91% | 21.6 | 86% | 5% |
| (a,h)Anthracene | 25 | 25.2 | 101% | 24.0 | 96% | 5% |
| Benzo(g,h,i)Perylene | 25 | 25.4 | 102% | 24.1 | 97% | 5% |

% Breakthrough Acceptance Limits

| | | | | | |
|---------------------|----|-----|----------------------|----|-----|
| Naphthalene | <5 | <5% | Naphthalene | <5 | <5% |
| 2-Methylnaphthalene | <5 | <5% | 2-Methyl-naphthalene | <5 | <5% |

Surrogates % Rec. Acceptance Limits

| | | | | | |
|--------------------|----|---------|---------------------|----|---------|
| Chloro-octadecane | 61 | 40-140% | Chloro-octa-decane | 58 | 40-140% |
| o-Terphenyl | 81 | 40-140% | o-Terphenyl | 74 | 40-140% |
| 2-Bromonaphthalene | 82 | 40-140% | 2-Bromo-naphthalene | 74 | 40-140% |

Spike Acceptance Limits
40-140%
Nonane Acceptance Limits
30-140%
% RPD =<25%

MADEP EPH FRACTIONATION DATA

| | |
|---------------------|--------------|
| Lot #: | 805270-QI-02 |
| Date Analyzed: | 01/13/09 |
| Fractionation Check | SSV09001 |

| Target Spiking Compounds | Conc. Added (UG/L) | FRCT. Amt. (UG/L) | %REC |
|--------------------------|--------------------|-------------------|------|
| Nonane | 25 | 17 | 68% |
| Decane | 25 | 18 | 73% |
| Dodecane | 25 | 19 | 75% |
| Tetradecane | 25 | 19 | 75% |
| Hexadecane | 25 | 18 | 74% |
| Octadecane | 25 | 18 | 71% |
| Nonadecane | 25 | 18 | 73% |
| Eicosane | 25 | 18 | 74% |
| Docosane | 25 | 19 | 75% |
| Tetracosane | 25 | 19 | 75% |
| Hexacosane | 25 | 19 | 75% |
| Octacosane | 25 | 19 | 76% |
| Triacontane | 25 | 19 | 76% |
| Hexatriacontane | 25 | 19 | 74% |
| Naphthalene | 25 | 24 | 94% |
| 2-Methylnaphthalene | 25 | 24 | 95% |
| Acenaphthalene | 25 | 24 | 96% |
| Acenaphthene | 25 | 23 | 91% |
| Fluorene | 25 | 23 | 93% |
| Phenanthrene | 25 | 24 | 97% |
| Anthracene | 25 | 26 | 102% |
| Fluoranthene | 25 | 25 | 100% |
| Pyrene | 25 | 25 | 101% |
| Benzo(a)Anthracene | 25 | 25 | 99% |
| Chrysene | 25 | 22 | 87% |
| Benzo(b)Fluoranthene | 25 | 27 | 108% |
| Benzo(k)Fluoranthene | 25 | 24 | 97% |
| Benzo(a)Pyrene | 25 | 26 | 106% |
| Ideno(1,2,3-cd)Pyrene | 25 | 22 | 88% |
| (a,h,)Anthracene | 25 | 21 | 83% |
| Benzo(g,h,i)Perylene | 25 | 19 | 77% |

% Breakthrough Acceptance Limits

| | | | |
|---------------------|----|-----|---------------------|
| Naphthalene | <5 | <5% | Naphthalene |
| 2-Methylnaphthalene | <5 | <5% | 2-Methylnaphthalene |

Spike Acceptance Limits

40-140%

Nonane Acceptance Limits

30-140%

% RPD =<5%



Surrogate Report

Client: Commonwealth Tank Environmental Inc.

Order #: 09010070

Matrix: Groundwater

| Units: | ug/L | | | Percent Surrogate | Surrogate | Control |
|---------------|--------------------|-----------|----------|-------------------|-----------|---------|
| Sample Number | Surrogate | Method | Recovery | Amount | Result | Limits |
| 09010070-001 | 2-Bromonaphthalene | MADEP-EPH | 84.8 | 50 | 42.40 | 40-140 |
| 09010070-001 | Chloro-Octadecane | MADEP-EPH | 44.76 | 50 | 22.38 | 40-140 |
| 09010070-001 | O-Terphenyl | MADEP-EPH | 92.86 | 50 | 46.43 | 40-140 |

| Units: | ug/L | | | Percent Surrogate | Surrogate | Control |
|---------------|----------------------|----------|----------|-------------------|-----------|---------|
| Sample Number | Surrogate | Method | Recovery | Amount | Result | Limits |
| 09010070-001 | 4-Bromofluorobenzene | SW 8260B | 100.6 | 20 | 20.12 | 14-26 |
| 09010070-001 | Dibromofluoromethane | SW 8260B | 100.3 | 20 | 20.06 | 14-26 |
| 09010070-001 | Toluene-d8 | SW 8260B | 100.85 | 20 | 20.17 | 14-26 |

Laboratory Number: 09010070

Date Analyzed: 1/14/2009

Method Blank Number: LCB 01/14/09

Analyst: TD

| Compound | Method Blank Result (ug/l) | Detection Limit (ug/l) | Compound | Method Blank Result (ug/l) | Detection Limit (ug/l) |
|-----------------------------------|----------------------------|------------------------|---------------------------|----------------------------|------------------------|
| 1,1,1,2-Tetrachloroethane | <DL | 1.0 | Acrylonitrile | <DL | 50 |
| 1,1,1-Trichloroethane | <DL | 1.0 | Benzene | <DL | 1.0 |
| 1,1,2,2-Tetrachloroethane | <DL | 1.0 | Bromobenzene | <DL | 1.0 |
| 1,1,2-Trichloroethane | <DL | 1.0 | Bromochloromethane | <DL | 1.0 |
| 1,1-Dichloroethane | <DL | 1.0 | Bromodichloromethane | <DL | 1.0 |
| 1,1-Dichloroethane | <DL | 1.0 | Bromoform | <DL | 1.0 |
| 1,1-Dichloropropene | <DL | 1.0 | Bromomethane | <DL | 1.0 |
| 1,2,3-Trichlorobenzene | <DL | 1.0 | Carbon Disulfide | <DL | 1.0 |
| 1,2,3-Trichloropropane | <DL | 1.0 | Carbon Tetrachloride | <DL | 1.0 |
| 1,2,4-Trichlorobenzene | <DL | 1.0 | Chlorobenzene | <DL | 1.0 |
| 1,2,4-Trimethylbenzene | <DL | 1.0 | Chloroethane | <DL | 1.0 |
| 1,2-Dibromo-3-Chloropropane | <DL | 1.0 | Chloroform | <DL | 1.0 |
| 1,2-Dibromoethane | <DL | 1.0 | Dibromomethane | <DL | 1.0 |
| 1,2-Dichlorobenzene | <DL | 1.0 | Dichlorodifluoromethane | <DL | 1.0 |
| 1,2-Dichloroethane | <DL | 1.0 | Diethyl Ether | <DL | 5.0 |
| 1,2-Dichloropropane | <DL | 1.0 | Ethylbenzene | <DL | 1.0 |
| 1,3,5-Trichlorobenzene | <DL | 1.0 | Hexachlorobutadiene | <DL | 1.0 |
| 1,3,5-Trimethylbenzene | <DL | 1.0 | Isopropylbenzene | <DL | 1.0 |
| 1,3-Dichlorobenzene | <DL | 1.0 | M/P-Xylene | <DL | 1.0 |
| 1,3-Dichloropropane | <DL | 1.0 | Methylene Chloride | <DL | 5.0 |
| 1,4-Dichlorobenzene | <DL | 1.0 | N-Butylbenzene | <DL | 1.0 |
| 1,4-Dioxane | <DL | 1.0 | N-Propylbenzene | <DL | 1.0 |
| 2,2-Dichloropropane | <DL | 1.0 | Naphthalene | <DL | 1.0 |
| 2-Butanone | <DL | 25 | O-Xylene | <DL | 1.0 |
| 2-Chloroethyl Vinyl Ether | <DL | 20 | Sec-Butylbenzene | <DL | 1.0 |
| 2-Chlorotoluene | <DL | 1.0 | Styrene | <DL | 1.0 |
| 2-Ethoxy-2-Methyl Propane (ETBE) | <DL | 1.0 | Tert-Butylbenzene | <DL | 1.0 |
| 2-Hexanone | <DL | 25 | Tetrachloroethene | <DL | 1.0 |
| 2-Methoxy-2-Methyl Butane (TAME) | <DL | 1.0 | Tetrahydrofuran | <DL | 5.0 |
| 2-Methoxy-2-Methyl Propane (MTBE) | <DL | 1.0 | Toluene | <DL | 1.0 |
| 2-Methyl-2-Propanol (TBA) | <DL | 20 | Trans-1,2-Dichloroethene | <DL | 1.0 |
| 4-Chlorotoluene | <DL | 1.0 | Trans-1,3-Dichloropropene | <DL | 1.0 |
| 4-Isopropyltoluene | <DL | 1.0 | Trichloroethene | <DL | 1.0 |
| 4-Methyl-2-Pentanone | <DL | 25 | Trichlorofluoromethane | <DL | 1.0 |
| Acetone | <DL | 50 | Vinyl Chloride | <DL | 1.0 |
| Acrolein | <DL | 50 | | | |

Laboratory Number: 09010070 Date Analyzed: 1/14/2009
 Control Spike Number: LCS 01/14/09 Analyst: TD

| Compound | LCS Recovery (ug/l) | Percent (%) Recovered | Compound | LCS Recovery (ug/l) | Percent (%) Recovered |
|-----------------------------|---------------------|-----------------------|-----------------------------|---------------------|-----------------------|
| Vinyl Chloride | 20 | 100% | Trans-1,3-Dichloropropene | 21 | 105% |
| Dichlorodifluoromethane | 21 | 105% | 1,1,2-Trichloroethane | 20 | 100% |
| Chloromethane | 20 | 100% | Tetrachloroethene | 22 | 110% |
| 1,1-Dichloroethene | 21 | 105% | 2-Hexanone | 43 | 86% |
| Bromomethane | 25 | 125% | 1,1,1,2-Tetrachloroethane | 21 | 105% |
| Chloroethane | 23 | 115% | Dibromochloromethane | 20 | 100% |
| Trichlorofluoromethane | 22 | 110% | 1,2-Dibromoethane | 20 | 100% |
| Diethyl Ether | 19 | 95% | M/P-Xylene | 43 | 108% |
| Acetone | 46 | 92% | Chlorobenzene | 21 | 105% |
| Carbon Disulfide | 21 | 105% | O-Xylene | 22 | 110% |
| Trans-1,2-Dichloroethene | 22 | 110% | Ethylbenzene | 22 | 110% |
| Tertiary-Butyl Alcohol | 70 | 70% | 1,1,2,2-Tetrachloroethane | 19 | 95% |
| Methylene Chloride | 25 | 125% | 1,2,3-Trichloropropane | 18 | 90% |
| Di-Isopropyl Ether | 21 | 105% | Styrene | 22 | 110% |
| Methyl-Tertiary-Butyl Ether | 36 | 90% | Bromoform | 19 | 95% |
| Cis-1,2-Dichloroethene | 21 | 105% | 1,2,4-Trimethylbenzene | 23 | 115% |
| Ethyl Tertiary-Butyl Ether | 19 | 95% | Bromobenzene | 21 | 105% |
| 1,1-Dichloroethane | 21 | 105% | 1,2-Dichlorobenzene | 22 | 110% |
| Tertiary-Amyl Methyl Ether | 19 | 95% | N-Propylbenzene | 23 | 115% |
| 2-Butanone | 42 | 84% | 2-Chlorotoluene | 23 | 115% |
| 1,1-Dichloropropene | 21 | 105% | 4-Chlorotoluene | 22 | 110% |
| 2,2-Dichloropropane | 19 | 95% | Tert-Butylbenzene | 23 | 115% |
| 1,2-Dichloroethane | 19 | 95% | Isopropylbenzene | 22 | 110% |
| Bromochloromethane | 19 | 95% | 1,3,5-Trimethylbenzene | 23 | 115% |
| Chloroform | 21 | 105% | 1,2-Dibromo-3-Chloropropane | 17 | 85% |
| Tetrahydrofuran | 16 | 80% | Sec-Butylbenzene | 23 | 115% |
| 1,1,1-Trichloroethane | 19 | 95% | 1,3-Dichlorobenzene | 22 | 110% |
| Carbon Tetrachloride | 19 | 95% | 4-Isopropyltoluene | 23 | 115% |
| Benzene | 22 | 110% | 1,4-Dichlorobenzene | 22 | 110% |
| Trichloroethene | 21 | 105% | N-Butylbenzene | 25 | 125% |
| 1,2-Dichloropropane | 21 | 105% | Naphthalene | 17 | 85% |
| Dibromomethane | 19 | 95% | 1,3,5-Trichlorobenzene | 23 | 115% |
| Bromodichloromethane | 20 | 100% | 1,2,4-Trichlorobenzene | 22 | 110% |
| Cis-1,3-Dichloropropene | 21 | 105% | Hexachlorobutadiene | 24 | 120% |
| 4-Methyl-2-Pentanone | 46 | 92% | 1,2,3-Trichlorobenzene | 19 | 95% |
| 1,3-Dichloropropane | 20 | 100% | 1,4-Dioxane | 14 | 70% |
| Toluene | 22 | 110% | | | |

Expected LCS concentration varies per compound Acceptable Recovery Range 70-130%

| Surrogate Compound | Recovery (ug/l) | Percent (%) Recovered | Surrogate Acceptable Recovery Range |
|---|-----------------|-----------------------|-------------------------------------|
| Dibromofluoromethane | 19 | 97.0% | 70-130% |
| Toluene-d8 | 20 | 99.5% | 70-130% |
| 4-Bromofluorobenzene | 20 | 100.6% | 70-130% |
| Expected Concentration of Surrogate in ug/l | 20 | | |



Metals Laboratory Control Spike Recovery Data

Laboratory Number: 09010070 Date Analyzed: 1/13/2009, 1/16/2009
Control Spike Number: MB011309-AQ, MB011209-AQ Analyst: PF

| Compound | Method Blank Result (mg/l) | Detection Limit (mg/l) |
|-------------------|----------------------------|------------------------|
| Antimony | <DL | 0.100 |
| Arsenic | <DL | 0.100 |
| Barium | <DL | 0.100 |
| Beryllium | <DL | 0.010 |
| Cadmium | <DL | 0.010 |
| Chromium | <DL | 0.010 |
| Lead | <DL | 0.100 |
| Nickel | <DL | 0.010 |
| Selenium | <DL | 0.100 |
| Silver | <DL | 0.010 |
| Thallium | <DL | 0.100 |
| Vanadium | <DL | 0.010 |
| Zinc | <DL | 0.010 |
| Mercury (SW7470A) | <DL | 0.0002 |



Metals Laboratory Control Spike Recovery Data

Laboratory Number: 09010070 Date Analyzed: 1/13/2009, 1/16/2009
Control Spike Number: BS011309-AQ, BS011209-AQ Analyst: PF

| Control Spike Compound Added | Concentration Added (mg/l) | LCS Recovery (mg/l) | Percent (%) Recovered | Percent (%) Recovery Limits |
|------------------------------|----------------------------|---------------------|-----------------------|-----------------------------|
| Antimony | 1.00 | 0.98 | 98% | 80-120% |
| Arsenic | 1.00 | 1.04 | 104% | 80-120% |
| Barium | 1.00 | 1.03 | 103% | 80-120% |
| Beryllium | 1.00 | 1.00 | 100% | 80-120% |
| Cadmium | 1.00 | 1.08 | 108% | 80-120% |
| Chromium | 1.00 | 1.05 | 105% | 80-120% |
| Lead | 1.00 | 1.06 | 106% | 80-120% |
| Nickel | 1.00 | 1.07 | 107% | 80-120% |
| Selenium | 1.00 | 1.09 | 109% | 80-120% |
| Silver | 1.00 | 1.03 | 103% | 80-120% |
| Thallium | 1.00 | 1.03 | 103% | 80-120% |
| Vanadium | 1.00 | 1.06 | 106% | 80-120% |
| Zinc | 1.00 | 1.03 | 103% | 80-120% |
| Mercury (SW7470A) | 0.005 | 0.0059 | 118% | 80-120% |

Non-requested MCP target compounds were detected during the analysis of your samples. According to MCP regulations we are required to inform you of these findings. Please contact us if you want us to report these results. Please be aware that there will be additional costs associated with reporting these results.

Sample Identity: 09010070

Sincerely

Chemserve

