

MAR 04 234



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC103

RELEASE NOTIFICATION & NOTIFICATION
RETRACTION FORM

Release Tracking Number
2 - 16164

Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart C)

A. RELEASE OR THREAT OF RELEASE LOCATION:

1. Release Name/Location Aid: _____
2. Street Address: 10 Dix Road
3. City/Town: Maynard 4. ZIP Code: 01754-0000

B. THIS FORM IS BEING USED TO: (check one)

- 1. Submit a **Release Notification**
- 2. Submit a **Retraction of a Previously Reported Notification** of a release or threat of release including supporting documentation required pursuant to 310 CMR 40.0335 (Section C is not required)

(All sections of this transmittal form must be filled out unless otherwise noted above)

C. INFORMATION DESCRIBING THE RELEASE OR THREAT OF RELEASE (TOR):

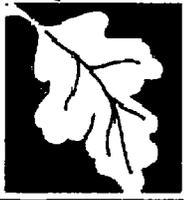
1. Date and time of Oral Notification, if applicable: 03/25/2006 Time: 03:05 AM PM
mm/dd/yyyy hh:mm

2. Date and time you obtained knowledge of the Release or TOR: 03/22/2006 Time: 04:30 AM PM
mm/dd/yyyy hh:mm

3. Date and time release or TOR occurred, if known: _____ Time: _____ AM PM
mm/dd/yyyy hh:mm

Check all Notification Thresholds that apply to the Release or Threat of Release:
(for more information see 310 CMR 40.0310 - 40.0315)

- | | | |
|--|--|--|
| <p>4. 2 HOUR REPORTING CONDITIONS</p> <ul style="list-style-type: none"> <input type="checkbox"/> a. Sudden Release <input type="checkbox"/> b. Threat of Sudden Release <input type="checkbox"/> c. Oil Sheen on Surface Water <input type="checkbox"/> d. Poses Imminent Hazard <input type="checkbox"/> e. Could Pose Imminent Hazard <input type="checkbox"/> f. Release Detected in Private Well <input type="checkbox"/> g. Release to Storm Drain <input type="checkbox"/> h. Sanitary Sewer Release (Imminent Hazard Only) | <p>5. 72 HOUR REPORTING CONDITIONS</p> <ul style="list-style-type: none"> <input type="checkbox"/> a. Subsurface Non-Aqueous Phase Liquid (NAPL) Equal to or Greater than 1/2 Inch <input checked="" type="checkbox"/> b. Underground Storage Tank (UST) Release <input type="checkbox"/> c. Threat of UST Release <input type="checkbox"/> d. Release to Groundwater near Water Supply <input checked="" type="checkbox"/> e. Release to Groundwater near School or Residence <input type="checkbox"/> f. Substantial Release Migration | <p>6. 120 DAY REPORTING CONDITIONS</p> <ul style="list-style-type: none"> <input type="checkbox"/> a. Release of Hazardous Material(s) to Soil or Groundwater Exceeding Reportable Concentration(s) <input type="checkbox"/> b. Release of Oil to Soil Exceeding Reportable Concentration(s) and Affecting More than 2 Cubic Yards <input type="checkbox"/> c. Release of Oil to Groundwater Exceeding Reportable Concentration(s) <input type="checkbox"/> d. Subsurface Non-Aqueous Phase Liquid (NAPL) Equal to or Greater than 1/8 Inch and Less than 1/2 Inch |
|--|--|--|



**RELEASE NOTIFICATION & NOTIFICATION
 RETRACTION FORM**

Release Tracking Number

2 - **16164**

Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart C)

C. INFORMATION DESCRIBING THE RELEASE OR THREAT OF RELEASE (TOR): (cont.)

7. List below the Oils (O) or Hazardous Materials (HM) that exceed their Reportable Concentration (RC) or Reportable Quantity (RQ) by the greatest amount.

| O or HM Released | CAS Number, if known | O or HM | Amount or Concentration | Units | RCs Exceeded, if Applicable (RCS-1, RCS-2, RCGW-1, RCGW-2) |
|------------------|----------------------|---------|-------------------------|-------|--|
| Fuel Oil | | O | 140 | PPM | N/A |
| | | | | | |
| | | | | | |
| | | | | | |

8. Check here if a list of additional Oil and Hazardous Materials subject to reporting is attached.

D. PERSON REQUIRED TO NOTIFY:

1. Check all that apply: a. change in contact name b. change of address c. change in the person notifying

2. Name of Organization: _____

3. Contact First Name: Kathy 4. Last Name: Bowlby

5. Street: 10 Dix Road 6. Title: Home Owner

7. City/Town: Maynard 8. State: MA 9. ZIP Code: 01754-0000

10. Telephone: (978) 897-3948 11. Ext.: _____ 12. FAX: _____

13. Check here if attaching names and addresses of owners of properties affected by the Release or Threat of Release, other than an owner who is submitting this Release Notification (required).

E. RELATIONSHIP OF PERSON TO RELEASE OR THREAT OF RELEASE:

1. RP or PRP a. Owner b. Operator c. Generator d. Transporter

e. Other RP or PRP Specify: _____

2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

4. Any Other Person Otherwise Required to Notify Specify Relationship: _____



RELEASE NOTIFICATION & NOTIFICATION
RETRACTION FORM

Release Tracking Number

2 - 16164

Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart C)

F. CERTIFICATION OF PERSON REQUIRED TO NOTIFY:

1. I, Kathy Bowlby, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: _____ 3. Title: Home Owner
Signature

4. For: Kathy Bowlby 5. Date: _____
(Name of person or entity recorded in Section D) mm/dd/yyyy

6. Check here if the address of the person providing certification is different from address recorded in Section D.

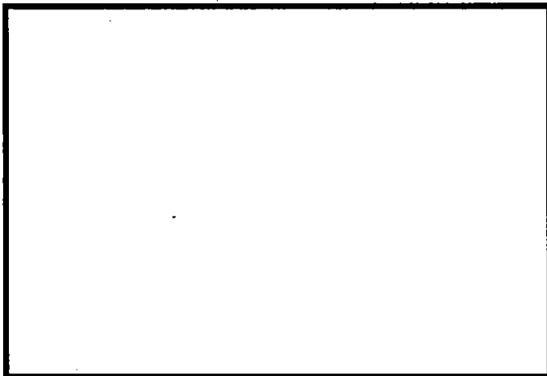
7. Street: _____

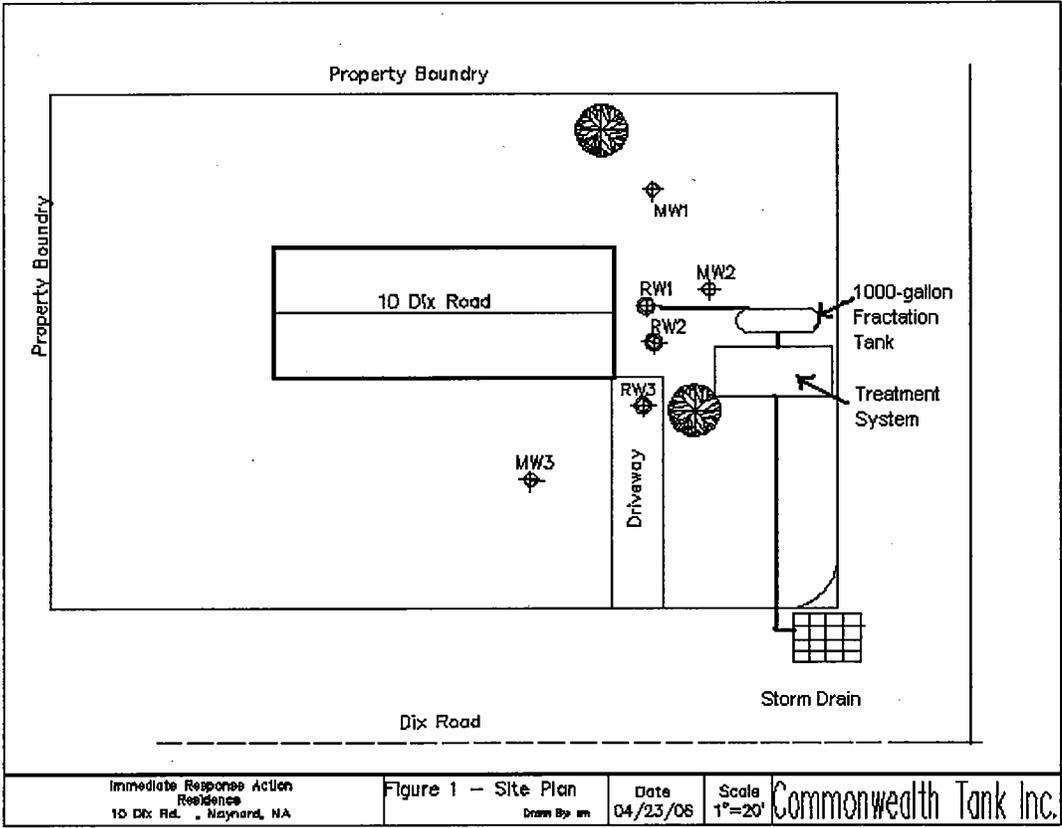
8. City/Town: _____ 9. State: _____ 10. ZIP Code: _____

11. Telephone: _____ 12. Ext.: _____ 13. FAX: _____

YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)





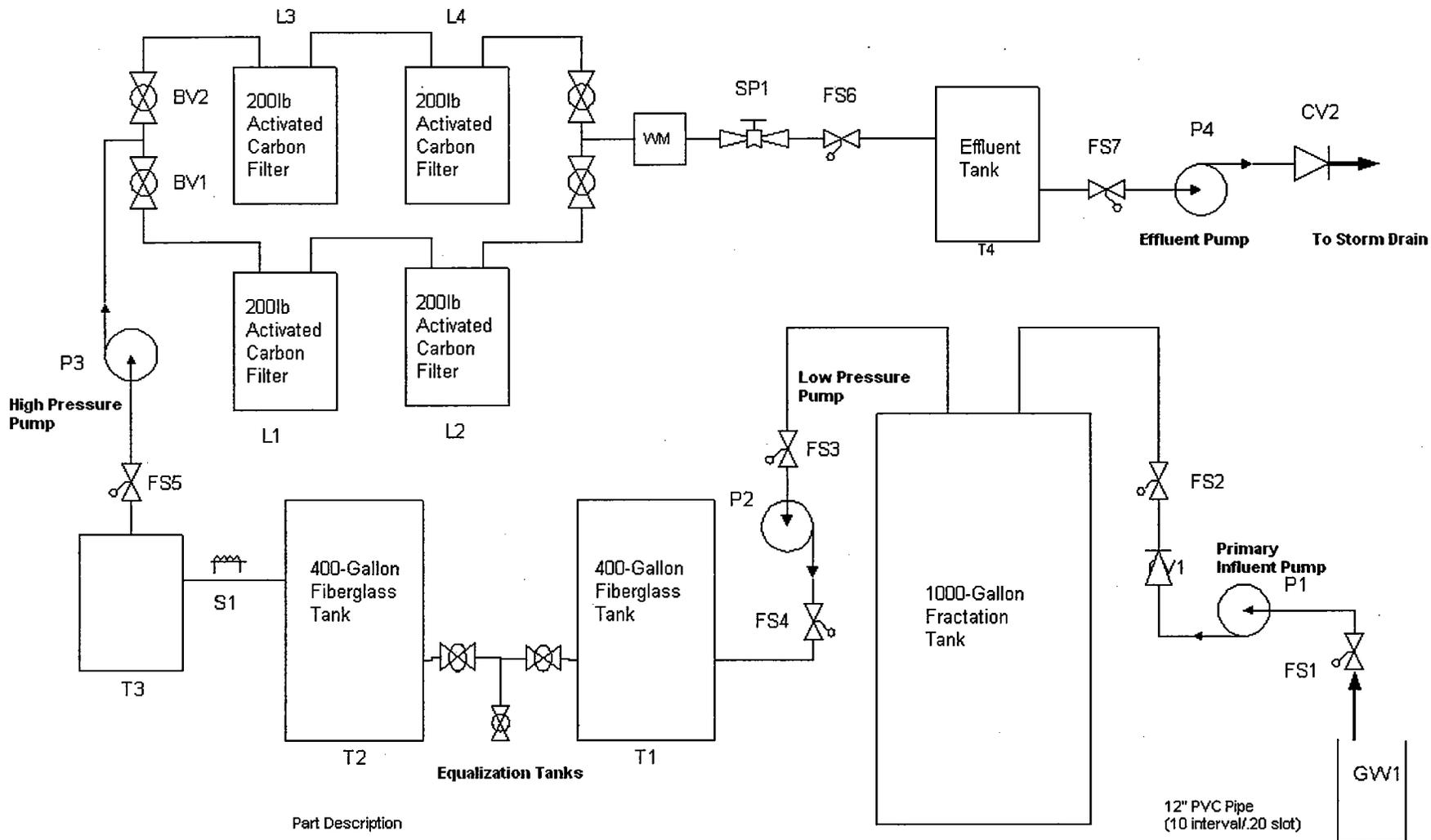
Immediate Response Action
Residence
10 Dix Rd., Naynard, MA

Figure 1 -- Site Plan
Drawn By: [unintelligible]

Date
04/23/06

Scale
1"=20'

Commonwealth Tank Inc.



Part Description

Lengend

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

P1 = 1/3 HP Rigid Submersible Pump
 P2 = 1/3 HP Rigid Submersible Pump
 P3 = 1/2 HP Dayton Centrifugal Pump
 P4 = 1/2 HP Dayton Centrifugal Pump
 P5 = SpillBuster Recovery System
 P6 = Flotec Intellipump
 BV1, BV2 = 1 1/4" Ball Valve
 FS1, FS3, FS5, FS7 = Normally Open Float Switch
 FS2, FS4, FS6, FS8 = Normally Closed Float Switch
 T3, T4 = 55-gallon drum

| | |
|--|---|
| Oil Water Separator System Installation Diagram Revision D1 | Commonwealth Tank Incorporated |
| Drawn by: Daniel Hoag | |
| Reviewed by: Kevin Hoag | |
| Date: Mar 22, 2006 | |

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:

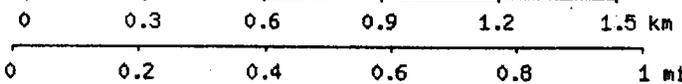
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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: Kathy Bowlby

Operator signature: 

Title: Systems Engineer

Date: 05/31/06



Map center is UTM 19 297115E 4701608N (WGS84/NAD83)
Maynard quadrangle
 Projection is UTM Zone 19 NAD83 Datum



M=-11.875
 G=-1.666

Job Name: Kathy Bowlby **Laboratory #:** 06030245
Job #: 5940 **Purchase Order #:** N/A
Location: 10 Dix Rd Maynard **Control #:** 58288
 MA

MADEP-MCP
 Analytical Report Certification
 And
 CASE NARRATIVE

| | | METALS | SVOA | VOA |
|-------------------------------------|--|--------|------|-----|
| Sample Receipt | Were all samples received at proper temperature, preservation and containers? | N/A | Yes | N/A |
| | Were all samples received as described on the COC? | N/A | Yes | N/A |
| Method QA/QC | Were all QA/QC procedures for specified methods included in this report met (including those not required to be reported?) | N/A | Yes | N/A |
| Method Blanks | Were all target analytes non-detect? | N/A | Yes | N/A |
| Surrogates | Were all samples spiked with the appropriate surrogates? | N/A | Yes | N/A |
| | Were all surrogates for reported samples within acceptance limits. | N/A | Yes | N/A |
| Laboratory Control Sample | Does the LCS contain all required target analytes and are they within acceptance limits? | N/A | No | N/A |
| Matrix Spike/Matrix Spike Duplicate | Was a field MS/MSD requested by the client? | No | No | No |
| | Does the MS/MSD contain all target analytes and were they within acceptance limits. | N/A | N/A | N/A |
| Sample Reporting | Were all samples analyzed within required holding time? | N/A | Yes | N/A |
| | Were all contaminants identified and quantified by comparison to a calibration standard, even if not a requested analyte? | N/A | Yes | N/A |
| | Were all identified contaminants reported, even if not requested? | N/A | Yes | N/A |

INORGANICS:

N/A

SEMI-VOLATILES:

The % RPD for the n-alkane compounds between the batch LCS/LCSD was outside acceptance limits high for the soil samples. The % recoveries for all compounds were within acceptance limits. Results are not affected. The Batch QC for the water sample was within acceptance limits.

VOLATILES:

N/A



 Ellen Abrams
 QA Manager

4/3/04

 Date

MADEP EPH DATA

SAMPLE INFORMATION

| | |
|-------------------|--|
| Matrix | <input type="checkbox"/> Aqueous <input checked="" 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 checked="" type="checkbox"/> N/A <input 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: Soil: SW-846 3570 |

EPH ANALYTICAL RESULTS

| | | |
|-------------------------------------|------------------|-------------|
| Method for Ranges: MADEP EPH 04 1.1 | Client ID: | SB1 2'-4' |
| Method for Target Analytes: GC | Lab ID: | 06030245-01 |
| EPH Surrogate Standards | Date Collected: | 03/23/06 |
| Aliphatic: Chloro-octadecane | Date Received: | 03/27/06 |
| Aromatic: o-Terphenyl | Date Extracted: | 03/28/06 |
| EPH Fractionation Surrogate: | Date Analyzed: | 04/01/06 |
| 2-Bromonaphthalene | Dilution Factor: | 381.9 |
| | %Solid | 87.2 |

| Range /Target Analyte | | RL | Units | |
|--|------------------------|-------|-------|---------|
| Unadjusted C11-C22 Aromatics¹ | | 85 | UG/KG | 120,000 |
| Diesel PAH Analytes | Naphthalene | 1 | UG/KG | <RL |
| | 2-Methylnaphthalene | 1 | UG/KG | <RL |
| | Phenanthrene | 1 | UG/KG | <RL |
| | Acenaphthene | 1 | UG/KG | <RL |
| Other Target Analytes | Acenaphthalene | 1 | UG/KG | <RL |
| | Anthracene | 1 | UG/KG | <RL |
| | Benzo(a)Anthracene | 1 | UG/KG | <RL |
| | Benzo(a)Pyrene | 1 | UG/KG | <RL |
| | Benzo(b)Fluoranthene | 1 | UG/KG | <RL |
| | Benzo(g,h,i)Perylene | 1 | UG/KG | <RL |
| | Benzo(k)Fluoranthene | 1 | UG/KG | <RL |
| | Chrysene | 1 | UG/KG | <RL |
| | Dibenzo(a,h)Anthracene | 1 | UG/KG | <RL |
| | Fluoranthene | 1 | UG/KG | <RL |
| | Fluorene | 1 | UG/KG | <RL |
| Ideno(1,2,3-cd)Pyrene | 1 | UG/KG | <RL | |
| Pyrene | 1 | UG/KG | <RL | |
| C9-C18 Aliphatic Hydrocarbons¹ | | 115 | UG/KG | 260,000 |
| C19-C36 Aliphatic Hydrocarbons¹ | | 50 | UG/KG | 36,000 |
| C11-C22 Aromatic Hydrocarbons^{1,2} | | 85 | UG/KG | 120,000 |
| Chloro-octadecane % Recovery | | | | 68% |
| o-Terphenyl % Recovery | | | | 71% |
| Surrogate Acceptance Range | | | | 40-140% |
| 2-Bromonaphthalene % Recovery | | | | 55% |
| 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 DATA

SAMPLE INFORMATION

| | |
|-------------------|--|
| Matrix | <input type="checkbox"/> Aqueous <input checked="" 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 checked="" type="checkbox"/> N/A <input 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: _____ Soil: SW-846 3570 |

EPH ANALYTICAL RESULTS

| | | |
|-------------------------------------|------------------|-------------|
| Method for Ranges: MADEP EPH 04 1.1 | Client ID: | SB4 |
| Method for Target Analytes: GC | Lab ID: | 06030245-02 |
| EPH Surrogate Standards | Date Collected: | 03/23/06 |
| Aliphatic: Chloro-octadecane | Date Received: | 03/27/06 |
| Aromatic: o-Terphenyl | Date Extracted: | 03/28/06 |
| EPH Fractionation Surrogate: | Date Analyzed: | 04/01/06 |
| 2-Bromonaphthalene | Dilution Factor: | 423.9 |
| | %Solid | 78.6 |

| Range /Target Analyte | | RL | Units | |
|--|------------------------|-------|-------|-----------|
| Unadjusted C11-C22 Aromatics ¹ | | 85 | UG/KG | 670,000 |
| Diesel PAH Analytes | Naphthalene | 1 | UG/KG | 7,700 |
| | 2-Methylnaphthalene | 1 | UG/KG | 22,000 |
| | Phenanthrene | 1 | UG/KG | 5,400 |
| | Acenaphthene | 1 | UG/KG | 3,000 |
| Other Target Analytes | Acenaphthalene | 1 | UG/KG | 1,500 |
| | Anthracene | 1 | UG/KG | <RL |
| | Benzo(a)Anthracene | 1 | UG/KG | <RL |
| | Benzo(a)Pyrene | 1 | UG/KG | <RL |
| | Benzo(b)Fluoranthene | 1 | UG/KG | <RL |
| | Benzo(g,h,i)Perylene | 1 | UG/KG | <RL |
| | Benzo(k)Fluoranthene | 1 | UG/KG | <RL |
| | Chrysene | 1 | UG/KG | <RL |
| | Dibenzo(a,h)Anthracene | 1 | UG/KG | <RL |
| | Fluoranthene | 1 | UG/KG | 790 |
| | Fluorene | 1 | UG/KG | <RL |
| | Ideno(1,2,3-cd)Pyrene | 1 | UG/KG | <RL |
| Pyrene | 1 | UG/KG | 790 | |
| C9-C18 Aliphatic Hydrocarbons ¹ | | 575 | UG/KG | 1,600,000 |
| C19-C36 Aliphatic Hydrocarbons ¹ | | 50 | UG/KG | 84,000 |
| C11-C22 Aromatic Hydrocarbons ^{1,2} | | 85 | UG/KG | 620,000 |
| Chloro-octadecane % Recovery | | | | 70% |
| o-Terphenyl % Recovery | | | | 81% |
| Surrogate Acceptance Range | | | | 40-140% |
| 2-Bromonaphthalene % Recovery | | | | 69% |
| 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 DATA

SAMPLE INFORMATION

| | |
|-------------------|--|
| Matrix | <input type="checkbox"/> Aqueous <input checked="" 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 checked="" type="checkbox"/> N/A <input 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: Soil: SW-846 3570 |

EPH ANALYTICAL RESULTS

| | | |
|--|------------------|--------------|
| Method for Ranges: MADEP EPH 04 1.1 | Client ID: | Method Blank |
| Method for Target Analytes: GC | Lab ID: | 6030245 |
| EPH Surrogate Standards | Date Collected: | N/A |
| Aliphatic: Chloro-octadecane | Date Received: | N/A |
| Aromatic: o-Terphenyl | Date Extracted: | 03/28/06 |
| EPH Fractionation Surrogate: 2-Bromonaphthalene | Date Analyzed: | 04/01/06 |
| | Dilution Factor: | 33.3 |
| | %Solid | 100.0 |

| Range /Target Analyte | | RL | Units | |
|--|------------------------|-------|-------|---------|
| Unadjusted C11-C22 Aromatics ¹ | | 85 | UG/KG | <RL |
| Diesel PAH Analytes | Naphthalene | 1 | UG/KG | <RL |
| | 2-Methylnaphthalene | 1 | UG/KG | <RL |
| | Phenanthrene | 1 | UG/KG | <RL |
| | Acenaphthene | 1 | UG/KG | <RL |
| Other Target Analytes | Acenaphthalene | 1 | UG/KG | <RL |
| | Anthracene | 1 | UG/KG | <RL |
| | Benzo(a)Anthracene | 1 | UG/KG | <RL |
| | Benzo(a)Pyrene | 1 | UG/KG | <RL |
| | Benzo(b)Fluoranthene | 1 | UG/KG | <RL |
| | Benzo(g,h,i)Perylene | 1 | UG/KG | <RL |
| | Benzo(k)Fluoranthene | 1 | UG/KG | <RL |
| | Chrysene | 1 | UG/KG | <RL |
| | Dibenzo(a,h)Anthracene | 1 | UG/KG | <RL |
| | Fluoranthene | 1 | UG/KG | <RL |
| | Fluorene | 1 | UG/KG | <RL |
| | Ideno(1,2,3-cd)Pyrene | 1 | UG/KG | <RL |
| Pyrene | 1 | UG/KG | <RL | |
| C9-C18 Aliphatic Hydrocarbons ¹ | | 115 | UG/KG | <RL |
| C19-C36 Aliphatic Hydrocarbons ¹ | | 50 | UG/KG | <RL |
| C11-C22 Aromatic Hydrocarbons ^{1,2} | | 85 | UG/KG | <RL |
| Chloro-octadecane % Recovery | | | | 61% |
| o-Terphenyl % Recovery | | | | 66% |
| Surrogate Acceptance Range | | | | 40-140% |
| 2-Bromonaphthalene % Recovery | | | | 50% |
| 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 11.37 No Yes-Details attached

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

Jay W. Chrystal Laboratory Director

Date

MADEP EPH SPIKE DATA

| | |
|----------------|------------|
| Lab ID: | 06030245 |
| Date Analyzed: | 04/01/06 |
| LCS | LCSD032806 |
| LCSD | LCSD032806 |

| Target Spiking Compounds | Conc. Added (UG/KG) | LCS Amt. (UG/KG) | %REC | LCSD Amt. (UG/KG) | % REC | %RPD |
|--------------------------|---------------------|------------------|------|-------------------|-------|------|
| Nonane | 830 | 402 | 48% | 288 | 35% | 33% |
| Decane | 830 | 487 | 59% | 376 | 45% | 26% |
| Dodecane | 830 | 538 | 65% | 424 | 51% | 24% |
| Tetradecane | 830 | 550 | 66% | 425 | 51% | 26% |
| Hexadecane | 830 | 567 | 68% | 417 | 50% | 30% |
| Octadecane | 830 | 663 | 80% | 472 | 57% | 34% |
| Nonadecane | 830 | 704 | 85% | 506 | 61% | 33% |
| Eicosane | 830 | 726 | 87% | 521 | 63% | 33% |
| Docosane | 830 | 737 | 89% | 522 | 63% | 34% |
| Tetracosane | 830 | 727 | 88% | 515 | 62% | 34% |
| Hexacosane | 830 | 724 | 87% | 513 | 62% | 34% |
| Octacosane | 830 | 707 | 85% | 501 | 60% | 34% |
| Triacotane | 830 | 715 | 86% | 504 | 61% | 35% |
| Hexatriacontane | 830 | 729 | 88% | 510 | 61% | 35% |
| Naphthalene | 830 | 505 | 61% | 471 | 57% | 7% |
| 2-Methylnaphthalene | 830 | 570 | 69% | 535 | 64% | 6% |
| Acenaphthalene | 830 | 599 | 72% | 562 | 68% | 6% |
| Acenaphthene | 830 | 550 | 66% | 527 | 63% | 4% |
| Fluorene | 830 | 640 | 77% | 611 | 74% | 4% |
| Phenanthrene | 830 | 769 | 93% | 699 | 84% | 10% |
| Anthracene | 830 | 732 | 88% | 673 | 81% | 8% |
| Fluoranthene | 830 | 776 | 94% | 692 | 83% | 11% |
| Pyrene | 830 | 759 | 91% | 673 | 81% | 12% |
| Benzo(a)Anthracene | 830 | 859 | 103% | 766 | 92% | 11% |
| Chrysene | 830 | 735 | 89% | 680 | 82% | 8% |
| Benzo(b)Fluoranthene | 830 | 849 | 102% | 724 | 87% | 16% |
| Benzo(k)Fluoranthene | 830 | 768 | 93% | 680 | 82% | 12% |
| Benzo(a)Pyrene | 830 | 821 | 99% | 735 | 89% | 11% |
| Ideno(1,2,3-cd)Pyrene | 830 | 867 | 105% | 768 | 93% | 12% |
| (a,h,)Anthracene | 830 | 800 | 96% | 767 | 92% | 4% |
| Benzo(g,h,l)Perylene | 830 | 787 | 95% | 701 | 84% | 11% |

% Breakthrough Acceptance Limits

| | | | | | |
|---------------------|----|-----|----------------------|----|-----|
| Naphthalene | <1 | <5% | Naphthalene | <1 | <5% |
| 2-Methylnaphthalene | <1 | <5% | 2-Methyl-naphthalene | <1 | <5% |

Surrogates % Rec. Acceptance Limits

| | | | | | |
|--------------------|----|---------|---------------------|----|---------|
| Chloro-octadecane | 61 | 40-140% | Chloro-octa-decane | 89 | 40-140% |
| o-Terphenyl | 66 | 40-140% | o-Terphenyl | 82 | 40-140% |
| 2-Bromonaphthalene | 50 | 40-140% | 2-Bromo-naphthalene | 55 | 40-140% |

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

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: | MW-1 |
| Method for Target Analytes: GC | Lab ID: | 06030245-03 |
| EPH Surrogate Standards | Date Collected: | 03/23/06 |
| Aliphatic: Chloro-octadecane | Date Received: | 03/27/06 |
| Aromatic: o-Terphenyl | Date Extracted: | 03/28/06 |
| EPH Fractionation Surrogate: | Date Analyzed: | 03/30/06 |
| 2-Bromonaphthalene | Dilution Factor: | 21 |

| | | RL | Units | |
|--|------------------------|------|-------|---------|
| Unadjusted C11-C22 Aromatics¹ | | 85 | UG/L | 53,000 |
| Diesel PAH Analytes | Naphthalene | 1 | UG/L | 310 |
| | 2-Methylnaphthalene | 1 | UG/L | 2,100 |
| | Phenanthrene | 1 | UG/L | 750 |
| | Acenaphthene | 1 | UG/L | 530 |
| Other Target Analytes | Acenaphthalene | 1 | UG/L | 290 |
| | Anthracene | 1 | UG/L | 150 |
| | Benzo(a)Anthracene | 1 | UG/L | <RL |
| | Benzo(a)Pyrene | 1 | UG/L | <RL |
| | Benzo(b)Fluoranthene | 1 | UG/L | <RL |
| | Benzo(g,h,i)Perylene | 1 | UG/L | <RL |
| | Benzo(k)Fluoranthene | 1 | UG/L | <RL |
| | Chrysene | 1 | UG/L | <RL |
| | Dibenzo(a,h)Anthracene | 1 | UG/L | <RL |
| | Fluoranthene | 1 | UG/L | 91 |
| | Fluorene | 1 | UG/L | 770 |
| Ideno(1,2,3-cd)Pyrene | 1 | UG/L | <RL | |
| Pyrene | 1 | UG/L | 61 | |
| C9-C18 Aliphatic Hydrocarbons¹ | | 1150 | UG/L | 130,000 |
| C19-C36 Aliphatic Hydrocarbons¹ | | 500 | UG/L | 11,000 |
| C11-C22 Aromatic Hydrocarbons^{1,2} | | 85 | UG/L | 48,000 |
| Chloro-octadecane % Recovery | | | | * |
| o-Terphenyl % Recovery | | | | 83% |
| Surrogate Acceptance Range | | | | 40-140% |
| 2-Bromonaphthalene % Recovery | | | | 99% |
| 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.

Aliphatic surrogate diluted out.

Were any significant modifications made to the EPH method, as specified in section 11.37? No Yes-Details attached

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

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 | <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: | Method Blank |
| Method for Target Analytes: GC | | Lab ID: | 6030242 |
| EPH Surrogate Standards | | Date Collected: | N/A |
| Aliphatic: Chloro-octadecane | | Date Received: | N/A |
| Aromatic: o-Terphenyl | | Date Extracted: | 03/28/06 |
| EPH Fractionation Surrogate: | | Date Analyzed: | 03/29/06 |
| 2-Bromonaphthalene | | Dilution Factor: | 1 |
| | | RL | Units |
| Unadjusted C11-C22 Aromatics ¹ | | 85 | UG/L <RL |
| Diesel PAH Analytes | Naphthalene | 1 | UG/L <RL |
| | 2-Methylnaphthalene | 1 | UG/L <RL |
| | Phenanthrene | 1 | UG/L <RL |
| | Acenaphthene | 1 | UG/L <RL |
| Other Target Analytes | Acenaphthalene | 1 | UG/L <RL |
| | Anthracene | 1 | UG/L <RL |
| | Benzo(a)Anthracene | 1 | UG/L <RL |
| | Benzo(a)Pyrene | 1 | UG/L <RL |
| | Benzo(b)Fluoranthene | 1 | UG/L <RL |
| | Benzo(g,h,i)Perylene | 1 | UG/L <RL |
| | Benzo(k)Fluoranthene | 1 | UG/L <RL |
| | Chrysene | 1 | UG/L <RL |
| | Dibenzo(a,h)Anthracene | 1 | UG/L <RL |
| | Fluoranthene | 1 | UG/L <RL |
| | Fluorene | 1 | UG/L <RL |
| Ideno(1,2,3-cd)Pyrene | 1 | UG/L <RL | |
| Pyrene | 1 | UG/L <RL | |
| C9-C18 Aliphatic Hydrocarbons ¹ | | 115 | UG/L <RL |
| C19-C36 Aliphatic Hydrocarbons ¹ | | 50 | UG/L <RL |
| C11-C22 Aromatic Hydrocarbons ^{1,2} | | 85 | UG/L <RL |
| Chloro-octadecane % Recovery | | | 111% |
| o-Terphenyl % Recovery | | | 63% |
| Surrogate Acceptance Range | | | 40-140% |
| 2-Bromonaphthalene % Recovery | | | 61% |
| Surrogate Acceptance Range | | | 40-140% |
| ¹ Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range | | | |
| ² C11-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 11.37 No Yes-Details attached

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

Jay W. Chrystal Laboratory Director _____ Date _____

MADEP EPH SPIKE DATA

| | |
|----------------|--------------|
| Lab ID: | 06030245 |
| Date Analyzed: | 03/29/06 |
| LCS | LCS032806-A |
| LCSD | LCSD032806-A |

| Target Spiking Compounds | Conc. Added (UG/L) | LCS Amt. (UG/L) | %REC | LCSD Amt. (UG/L) | % REC | %RPD |
|--------------------------|--------------------|-----------------|------|------------------|-------|------|
| Nonane | 25 | 8.7 | 35% | 8.4 | 34% | 4% |
| Decane | 25 | 11 | 44% | 12 | 48% | 9% |
| Dodecane | 25 | 16 | 64% | 18 | 72% | 12% |
| Tetradecane | 25 | 20 | 80% | 22 | 88% | 10% |
| Hexadecane | 25 | 23 | 92% | 24 | 96% | 4% |
| Octadecane | 25 | 26 | 104% | 28 | 112% | 7% |
| Nonadecane | 25 | 26 | 104% | 29 | 116% | 11% |
| Eicosane | 25 | 26 | 104% | 29 | 116% | 11% |
| Docosane | 25 | 27 | 108% | 28 | 112% | 4% |
| Tetracosane | 25 | 24 | 96% | 26 | 104% | 8% |
| Hexacosane | 25 | 23 | 92% | 26 | 104% | 12% |
| Octacosane | 25 | 23 | 92% | 26 | 104% | 12% |
| Triacosane | 25 | 23 | 92% | 26 | 104% | 12% |
| Hexatriacontane | 25 | 23 | 92% | 26 | 104% | 12% |
| Naphthalene | 25 | 14 | 56% | 13 | 52% | 7% |
| 2-Methylnaphthalene | 25 | 15 | 60% | 15 | 60% | 0% |
| Acenaphthalene | 25 | 16 | 64% | 17 | 68% | 6% |
| Acenaphthene | 25 | 16 | 64% | 16 | 64% | 0% |
| Fluorene | 25 | 18 | 72% | 18 | 72% | 0% |
| Phenanthrene | 25 | 21 | 84% | 21 | 84% | 0% |
| Anthracene | 25 | 21 | 84% | 21 | 84% | 0% |
| Fluoranthene | 25 | 23 | 92% | 23 | 92% | 0% |
| Pyrene | 25 | 21 | 84% | 21 | 84% | 0% |
| Benzo(a)Anthracene | 25 | 23 | 92% | 23 | 92% | 0% |
| Chrysene | 25 | 21 | 84% | 21 | 84% | 0% |
| Benzo(b)Fluoranthene | 25 | 21 | 84% | 22 | 88% | 5% |
| Benzo(k)Fluoranthene | 25 | 19 | 76% | 19 | 76% | 0% |
| Benzo(a)Pyrene | 25 | 20 | 80% | 20 | 80% | 0% |
| Indeno(1,2,3-cd)Pyrene | 25 | 19 | 76% | 21 | 84% | 10% |
| (a,h,)Anthracene | 25 | 16 | 64% | 18 | 72% | 12% |
| Benzo(g,h,i)Perylene | 25 | 17 | 68% | 18 | 72% | 6% |

% Breakthrough Acceptance Limits

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

Surrogates

% Rec.

Acceptance Limits

| | | | | | |
|--------------------|-----|---------|---------------------|-----|---------|
| Chloro-octadecane | 112 | 40-140% | Chloro-octa-decane | 114 | 40-140% |
| o-Terphenyl | 71 | 40-140% | o-Terphenyl | 72 | 40-140% |
| 2-Bromonaphthalene | 76 | 40-140% | 2-Bromo-naphthalene | 77 | 40-140% |

Spike Acceptance Limits

40-140%

Nonane Acceptance Limits

30-140%

% RPD =<25%

MADEP EPH SPIKE DATA

| | |
|----------------|------------|
| Lab ID: | FRAC CHECK |
| Date Analyzed: | 01/27/06 |
| LOT # | 505111 |

| Target Spiking Compounds | Conc. Added (UG/KG) | LCS Amt. (UG/KG) | %REC |
|--------------------------|---------------------|------------------|------|
| Nonane | 12.5 | 10.0 | 80% |
| Decane | 12.5 | 10.7 | 86% |
| Dodecane | 12.5 | 10.9 | 87% |
| Tetradecane | 12.5 | 11.0 | 88% |
| Hexadecane | 12.5 | 11.0 | 88% |
| Octadecane | 12.5 | 10.9 | 87% |
| Nonadecane | 12.5 | 11.6 | 93% |
| Eicosane | 12.5 | 12.1 | 97% |
| Docosane | 12.5 | 12.0 | 96% |
| Tetracosane | 12.5 | 11.7 | 94% |
| Hexacosane | 12.5 | 11.7 | 94% |
| Octacosane | 12.5 | 11.5 | 92% |
| Triacontane | 12.5 | 11.4 | 91% |
| Hexatriacontane | 12.5 | 9.9 | 79% |
| Naphthalene | 12.5 | 13.8 | 110% |
| 2-Methylnaphthalene | 12.5 | 12.6 | 101% |
| Acenaphthalene | 12.5 | 11.9 | 95% |
| Acenaphthene | 12.5 | 11.2 | 90% |
| Fluorene | 12.5 | 11.4 | 91% |
| Phenanthrene | 12.5 | 12.0 | 96% |
| Anthracene | 12.5 | 12.0 | 96% |
| Fluoranthene | 12.5 | 11.8 | 94% |
| Pyrene | 12.5 | 11.6 | 93% |
| Benzo(a)Anthracene | 12.5 | 11.8 | 94% |
| Chrysene | 12.5 | 11.1 | 89% |
| Benzo(b)Fluoranthene | 12.5 | 11.9 | 95% |
| Benzo(k)Fluoranthene | 12.5 | 11.2 | 90% |
| Benzo(a)Pyrene | 12.5 | 11.3 | 90% |
| Ideno(1,2,3-cd)Pyrene | 12.5 | 12.2 | 98% |
| (a,h.)Anthracene | 12.5 | 10.7 | 86% |
| Benzo(g,h,i)Perylene | 12.5 | 10.3 | 82% |

% Breakthrough Acceptance
Limits

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

Spike Acceptance Limits
40-140%
Nonane Acceptance Limits
30-140%

