

EXHIBIT 7

Underground Storage Tank Closure Report – Tank 1

Medfield State Hospital

45 Hospital Road

Medfield MA

(EOEA# 4311)

Pennoni Associates

December 19, 2001

Pennoni

PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS

82 South Street
Hopkinton, MA 01748
Tel: 508•435•8080
Fax: 508•435•4351

DOMH0101.14

December 19, 2001

Ms. Carol Jalbert, Capital Budget Manager
Department of Mental Health
25 Staniford Street
Boston, MA 02114

**RE: Underground Storage Tank Closure Report – Tank 1
Medfield State Hospital
45 Hospital road
Medfield, Massachusetts 02052
(EOEA# 4311)**

Dear Ms. Jalbert:

This letter report, documents the activities related to the closure of the 30,000-gallon #2 (formerly #6) fuel oil Underground Storage Tank (UST) #1 under the supervision of Pennoni Associates Inc. (Pennoni) on November 26 and 28, 2001. The 30,000-gallon UST was closed in place at the Power Plant for the Medfield State Hospital in Medfield, Massachusetts (the Site), pursuant to 527 CMR 9.0 *Tanks and Containers*.

BACKGROUND

The tank discussed herein was a portion of a three tank system located at the power plant facility. Figure 1 depicts the site location. This report summarizes action taken and environmental conditions encountered during the removal of the tank. The Power Plant houses oil-fired boilers that formerly produced steam pressure. The steam was used to heat the facilities on the property

The UST system consisted of three 30,000-gallon capacity tanks. Two tanks are out of service, although they remain in-place (see below). The tanks are double-walled steel and were installed in 1990. The existing USTs replaced three 30,000 gallon USTs which were in service since the early 1960s. The USTs were always historically used for the storage of No. 6 fuel oil. In July 2001, Medfield State Hospital converted over to the use of No. 2 fuel oil, which was stored in Tank #1. Design drawings indicate there is a concrete ballast pad below the USTs, at a depth of approximately 14 feet. This has been confirmed during the installation of tank observation wells detailed below.

In the immediate area of the USTs, the surface is covered with an 8-inch thick concrete pad. A boiler is presently located on the concrete pad. The adjacent driveway and parking lot is paved with asphalt. Surface topography slopes from the east to the west. Two catch basins, to the north and east of the UST pad area, collect surface water and discharge to an outfall structure. The outfall structure is located approximately 55 feet north of the UST pad area. Surface waters discharge onto the ground surface at the outfall structure. Beyond the asphalt area, to the north and west, is undeveloped woodlands. The Charles River is located approximately 500 feet north of the UST pad area.

UST CLOSURE ACTIVITIES

Between November 26 and 28, 2001 Pennoni directed and monitored the UST closure activities conducted by Cyn Environmental (Cyn) of Stoughton, Massachusetts in accordance with the Massachusetts Contingency Plan (MCP).

During the closure activities, Pennoni gauged nearby wells and determined that groundwater ranged from 13.4 to 13.9 feet below grade. The depth to the inner wall of the bottom of the tank was measured at 12.4 feet, thus the bottom of the tank was above the water level observed in the wells. Approximately one foot of water was identified within the interstitial space (between the inner and outer walls) of the tank. Cyn vacuumed this water out on November 26.

The UST was purged of oil and rendered free of explosive vapors prior to cleaning. The interior of the tanks was triple-rinsed prior to in-place closure. As part of the closure activities, a total of two sample locations were cut into the bottoms of the ends of the tank in order to collect soil samples of the material below the tank. Once the soil samples were collected, the tank and all related openings were sealed with hydraulic cement.

During the closure activities, approximately 800 gallons of No.2 fuel oil and sludge was transferred from Tank #1 to a tanker truck. Cyn removed approximately 400 gallons of oily wash water from the UST, and combined it with the fuel oil and sludge and transferred it to their TSD facility located in Stoughton, MA for disposal. A copy of the Uniform Hazardous Waste Manifests for the fuel oil and liquid disposal is provided as Appendix B.

The supply lines and all associated underground piping were entirely removed, cleaned and disposed off site at Cyn's TSD facility. The tunnel from the supply lines culvert to the UST was sealed and the UST was filled with concrete slurry. The entire volume of the UST, manways, fill ports, and all ground openings were filled with slurry to grade.

SOIL SAMPLING AND ANALYSIS

During the closure of Tank #1, two soil samples were collected from the materials below the UST. These samples were analyzed for Extractable Petroleum Hydrocarbons (EPH) and Volatile Petroleum Hydrocarbons (VPH) by DEP methods. The material encountered below the USTs was pea gravel. The sample collected from the west end was saturated with fuel oil.

On December 18, 2001, Pennoni received the laboratory reports for the analysis of the two samples. Review of the laboratory report indicates that petroleum hydrocarbons are present on the western end of the UST. The results of the laboratory analysis are included as Attachment 1 and are summarized in Table 1.

CONCLUSIONS

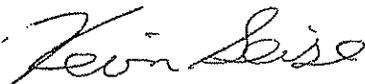
The following information was determined during the closure of the tank:

- Tank #1 was closed in-place by placement of concrete slurry. This tank has been rendered unusable.
- The UST was found to be in fair condition with some rust near the manways and tank penetrations.
- Water was identified in the interstitial space of the tank. The bottom of the tank was above the water level observed in surrounding monitoring wells indicating the source of the interstitial water was related to infiltration through rust observed in upper portions of the tank.
- Contamination has been identified at the western end of Tank #1. This contamination is believed to be #6 fuel oil which leaked from the tank prior to tank abandonment. Soil samples were collected from the material beneath Tank #1 and the analytical results for EPH and VPH indicated elevated petroleum hydrocarbons near the western end of the UST.

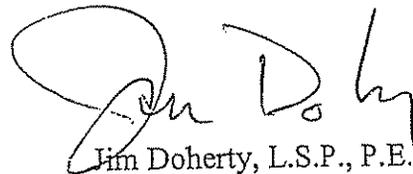
On November 5, 2001, a 12,000-gallon capacity above ground storage tank was installed on the UST pad area, over Tank # 1. This tank was installed by the Department of Mental Health under the direction of the Department of Capital Asset Management, Commonwealth of Massachusetts.

If you have any questions, or require additional information, please contact either of the undersigned.

Yours truly,
PENNONI ASSOCIATES INC.



Kevin Seise
Project Lead



Jim Doherty, L.S.P., P.E.
Senior Engineer

Attachments

Table 1, Soil Samples - Summary of Analytical Results
Photos
Laboratory Reports

Table 1

Summary of Soil Sample Analysis
UST Closure - UST 1

Medfield State Hospital, Medfield, MA

| Analysis | Sample ID | | Units |
|------------------------|-----------|-------|-------|
| | TEL-1 | TEL-2 | |
| EPH | | | |
| C9-C18 Aliphatics | <18.7 | 171 | mg/kg |
| C19-C36 Aliphatics | <2.0 | 1080 | mg/kg |
| C11-C22 Aromatics | <10.5 | 1420 | mg/kg |
| Acenaphthene | <0.5 | <2.5 | mg/kg |
| Acenaphthylene | <0.5 | 2.7 | mg/kg |
| Anthracene | <0.5 | <2.5 | mg/kg |
| Benzo(a)anthracene | <0.5 | <2.5 | mg/kg |
| Benzo(a)pyrene | <0.5 | <2.5 | mg/kg |
| Benzo(b)fluoranthene | <0.5 | <2.5 | mg/kg |
| Benzo(g,h,i)perylene | <0.5 | <2.5 | mg/kg |
| Benzo(k)fluoranthene | <0.5 | <2.5 | mg/kg |
| Chrysene | <0.5 | <2.5 | mg/kg |
| Dibenzo(a,h)anthracene | <0.5 | <2.5 | mg/kg |
| Fluoranthene | <0.5 | <2.5 | mg/kg |
| Fluorene | <0.5 | 2.6 | mg/kg |
| Indeno(1,2,3-cd)pyrene | <0.5 | <2.5 | mg/kg |
| 2-Methylnaphthalene | <0.5 | 7.7 | mg/kg |
| Naphthalene | <0.5 | 2.5 | mg/kg |
| Phenanthrene | <0.5 | 2.6 | mg/kg |
| Pyrene | <0.5 | 5.2 | mg/kg |
| VPH | | | |
| C5-C8 Aliphatics | <1,500 | 7260 | ug/kg |
| C9-C12 Aliphatics | <500 | 33100 | ug/kg |
| C9-C10 Aromatics | <500 | 29000 | ug/kg |
| Benzene | <500 | <500 | ug/kg |
| Ethylbenzene | <500 | <500 | ug/kg |
| MTBE | <250 | <250 | ug/kg |
| Naphthalene | <1,000 | 5060 | ug/kg |
| Toluene | <500 | <500 | ug/kg |
| m/p-Xylene | <500 | 1800 | ug/kg |
| o-Xylene | <500 | 1100 | ug/kg |

mg/kg - milligrams per kilogram

ug/kg - micrograms per kilogram

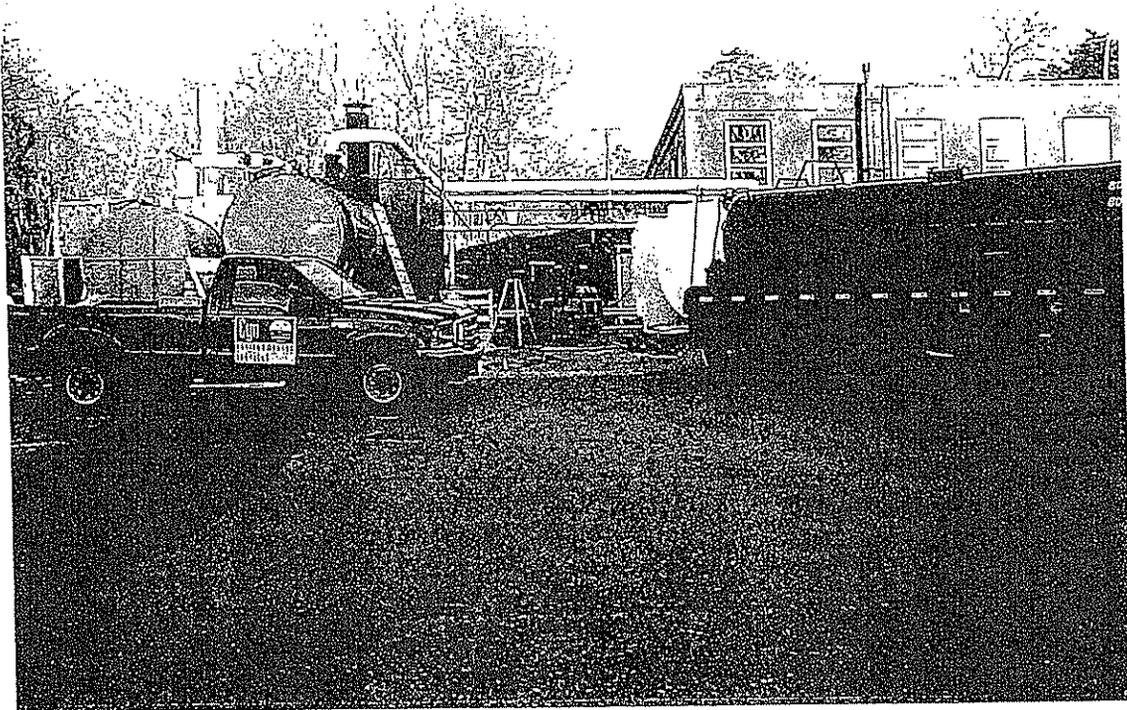


Photo 1 - Tank Cleaning Activities



Photo 2 - Tank Slurring Activities

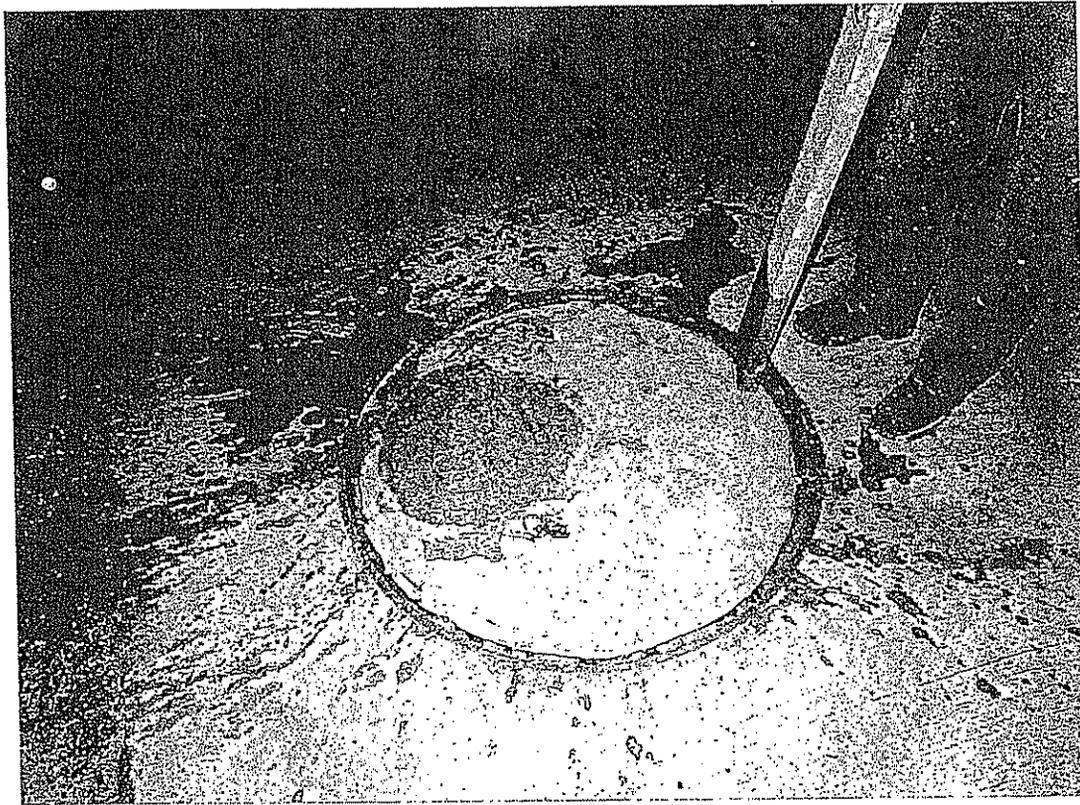


Photo 3 - Concrete Slurry in Manway

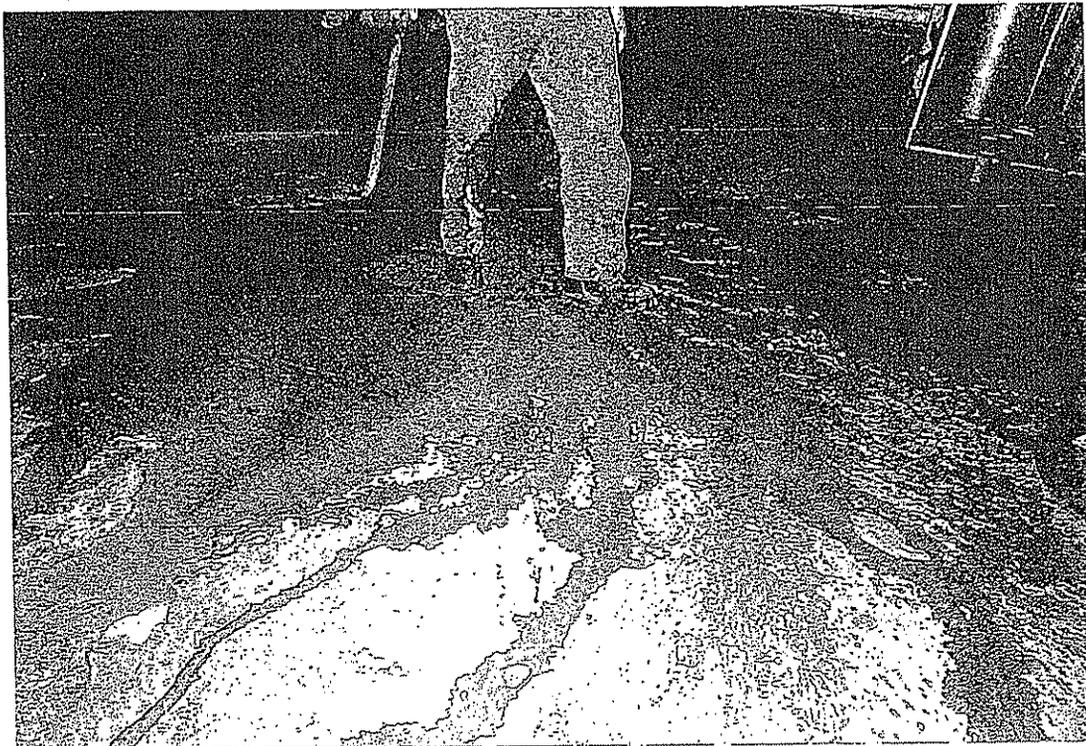


Photo 4 - Steel Manway Covers Cemented in Place



FP6 (rev. 3/00)

The Commonwealth of Massachusetts
Department of Fire Services - Office of the State Fire Marshal
P.O. Box 1025, State Road, Stow, MA 01775



PERMIT

City or Town Medfield

Date Nov. 27, 2001

Permit Number (if applicable) _____

| |
|------------------------|
| DIG SAFE NUMBER |
| _____ |
| Start Date: _____ |

In accordance with the provisions of M.G.L. Chapter 148, as provided in 10A this permit is granted

to CYN Environmental
(Full name of person, Firm or Corporation)

for Clean and slurry fill tank # 1 30,000 Gal. UST #6012

Restrictions: Notify Fire Department on day of work

at 45 Hospital Rd. Medfield Stste Hospital Power Plant
(Give location by street and no., or describe in such manner as to provide adequate identification of location)

Fee Paid \$ 10.00 This Permit will expire on NA

Signature of Official Granting Permit *Richard M. Rogers* Title Lieutenant

➡ This permit must be conspicuously posted upon the premises ←



39 Spruce Street * 2nd Floor * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

REPORT DATE 12/17/01

PENNONI ASSOCIATES - HOPKINTON
82 SOUTH STREET
HOPKINTON, MA 01748
ATTN: KEVIN SEISE

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-60121
JOB NUMBER: -

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: MEDFIELD STATE HOSPITAL

| FIELD SAMPLE # | LAB ID | MATRIX | SAMPLE DESCRIPTION | TEST | |
|----------------|----------|--------|--------------------|------------------|---------------|
| T1-1 | 01B33455 | SOIL | NORTH END | eph - solid | |
| T1-1 | 01B33455 | SOIL | NORTH END | solids (percent) | |
| T1-1 | 01B33455 | SOIL | NORTH END | vph - solid | SUBCONTRACTED |
| T1-2 | 01B33456 | SOIL | SOUTH END | eph - solid | |
| T1-2 | 01B33456 | SOIL | SOUTH END | solids (percent) | |
| T1-2 | 01B33456 | SOIL | SOUTH END | vph - solid | SUBCONTRACTED |

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations :

| | |
|----------------------|---------------------------------|
| AIHA 100033 | AIHA ELLAP (LEAD) 100033 |
| MASSACHUSETTS MA0100 | NEW HAMPSHIRE 2516 |
| CONNECTICUT PH-0567 | VERMONT DOH (LEAD) No. LL015036 |
| NEW YORK ELAP 10899 | RHODE ISLAND (LIC. No. 112) |

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and 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.

Edward Denson 12/17/01
SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Edward Denson
Technical Director



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KEVIN SEISE
 PENNONI ASSOCIATES - HOPKINTON
 82 SOUTH STREET
 HOPKINTON, MA 01748

12/14/01
 Page 1 of 8

Purchase Order No.:

Project Location: MEDFIELD STATE HOSPITAL
 Date Received: 11/29/01
 Field Sample #: T1-1

LIMS-BAT #: LIMS-60121
 Job Number: -

Sample ID: 01B33455 Sampled: 11/28/01
 NORTH END

Sample Matrix: SOIL

| | Units | Results | Date Analyzed | Analyst | RL | SPEC Limit Lo Hi | P/ F |
|--------------------------|---------------|-----------|---------------|---------|------|--------------------------|------|
| C9-C18 Aliphatics | mg/kg dry wt. | ND | 12/07/01 | KKP | 18.7 | | |
| C19-C36 Aliphatics | mg/kg dry wt. | ND | 12/07/01 | KKP | 2.0 | | |
| C11-C22 Aromatics | mg/kg dry wt. | ND | 12/07/01 | KKP | 10.5 | | |
| Acenaphthene | mg/kg dry wt. | ND | 12/07/01 | KKP | 0.5 | | |
| Acenaphthylene | mg/kg dry wt. | ND | 12/07/01 | KKP | 0.5 | | |
| Anthracene | mg/kg dry wt. | ND | 12/07/01 | KKP | 0.5 | | |
| Benzo(a)anthracene | mg/kg dry wt. | ND | 12/07/01 | KKP | 0.5 | | |
| Benzo(a)pyrene | mg/kg dry wt. | ND | 12/07/01 | KKP | 0.5 | | |
| Benzo(b)fluoranthene | mg/kg dry wt. | ND | 12/07/01 | KKP | 0.5 | | |
| Benzo(g,h,i)perylene | mg/kg dry wt. | ND | 12/07/01 | KKP | 0.5 | | |
| Benzo(k)fluoranthene | mg/kg dry wt. | ND | 12/07/01 | KKP | 0.5 | | |
| Chrysene | mg/kg dry wt. | ND | 12/07/01 | KKP | 0.5 | | |
| Dibenzo(a,h)anthracene | mg/kg dry wt. | ND | 12/07/01 | KKP | 0.5 | | |
| Fluoranthene | mg/kg dry wt. | ND | 12/07/01 | KKP | 0.5 | | |
| Fluorene | mg/kg dry wt. | ND | 12/07/01 | KKP | 0.5 | | |
| Indeno(1,2,3-cd)pyrene | mg/kg dry wt. | ND | 12/07/01 | KKP | 0.5 | | |
| 2-Methylnaphthalene | mg/kg dry wt. | ND | 12/07/01 | KKP | 0.5 | | |
| Naphthalene | mg/kg dry wt. | ND | 12/07/01 | KKP | 0.5 | | |
| Phenanthrene | mg/kg dry wt. | ND | 12/07/01 | KKP | 0.5 | | |
| Pyrene | mg/kg dry wt. | ND | 12/07/01 | KKP | 0.5 | | |
| Date Extracted EPH Solid | | 12/3/2001 | 12/07/01 | KKP | | | |

RL = Reporting Limit
 ND = Not Detected
 NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample



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82 SOUTH STREET
HOPKINTON, MA 01748

12/14/01
Page 2 of 8

Purchase Order No.:

Project Location: MEDFIELD STATE HOSPITAL
Date Received: 11/29/01
Field Sample #: T1-1

LIMS-BAT #: LIMS-60121
Job Number: -

Analytical Method:
MADEP-EPH-98-1 REVISION 0

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE, EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C10-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE. SUMMED RANGES ARE CORRECTED FOR LABORATORY METHOD BLANK.

REPORTED DETECTION LIMITS (MDL) ARE THE REPORTING LIMITS (RL) CALCULATED ACCORDING TO THE METHOD.

SIGNIFICANT MODIFICATIONS ARE LIMITED TO THE SUBTRACTION OF METHOD BLANK CONTRIBUTION FROM THE SUMMED RANGES AND EXTRACTION BY PRESSURIZED FLUID EXTRACTION (SW846 3545) (ASE).

WERE ALL QA/QC PROCEDURES REQUIRED BY THE METHOD FOLLOWED?

YES NO

WERE ALL PERFORMANCE/ACCEPTANCE STANDARDS FOR REQUIRED QA/QC PROCEDURES ACHIEVED?

YES NO

DETAILS OF ANY NON-CONFORMANCE WITH QA/QC REQUIREMENTS, PERFORMANCE, OR ACCEPTANCE CRITERIA ARE DETAILED IN THE NOTES SECTION OF THIS REPORT.

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12/14/01
Page 4 of 8

Project Location: MEDFIELD STATE HOSPITAL
Date Received: 11/29/01
Field Sample #: T1-2

Purchase Order No.:

LIMS-BAT #: LIMS-60121
Job Number: -

Analytical Method:

MADEP-EPH-98-1 REVISION 0

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE, EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C10-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE. SUMMED RANGES ARE CORRECTED FOR LABORATORY METHOD BLANK.

REPORTED DETECTION LIMITS (MDL) ARE THE REPORTING LIMITS (RL) CALCULATED ACCORDING TO THE METHOD.

SIGNIFICANT MODIFICATIONS ARE LIMITED TO THE SUBTRACTION OF METHOD BLANK CONTRIBUTION FROM THE SUMMED RANGES AND EXTRACTION BY PRESSURIZED FLUID EXTRACTION (SW846 3545) (ASE).

WERE ALL QA/QC PROCEDURES REQUIRED BY THE METHOD FOLLOWED?

YES NO

WERE ALL PERFORMANCE/ACCEPTANCE STANDARDS FOR REQUIRED QA/QC PROCEDURES ACHIEVED?

YES NO

DETAILS OF ANY NON-CONFORMANCE WITH QA/QC REQUIREMENTS, PERFORMANCE, OR ACCEPTANCE CRITERIA ARE DETAILED IN THE NOTES SECTION OF THIS REPORT.

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12/14/01
Page 5 of 8

Purchase Order No.:

Project Location: MEDFIELD STATE HOSPITAL
Date Received: 11/29/01
Field Sample #: T1-1

LIMS-BAT #: LIMS-60121
Job Number: -

Sample ID : 01B33455 Sampled : 11/28/01
NORTH END

Sample Matrix: SOIL

| | Units | Results | Date Analyzed | Analyst | RL | SPEC Limit Lo Hi | P/ F |
|---------------|-------|---------|---------------|---------|----|---------------------|------|
| Solids, total | % | 96.9 | 12/03/01 | MAS | | | |

Field Sample #: T1-2

Sample ID : 01B33456 Sampled : 11/28/01
SOUTH END

Sample Matrix: SOIL

| | Units | Results | Date Analyzed | Analyst | RL | SPEC Limit Lo Hi | P/ F |
|---------------|-------|---------|---------------|---------|----|---------------------|------|
| Solids, total | % | 98.8 | 12/03/01 | MAS | | | |

Analytical Method:

SM 2540G

PERCENT OF SAMPLE REMAINING AFTER DRYING OVERNIGHT AT 103-105 DEGREES CENTIGRADE.

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NM = Not Measured

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12/17/01
Page 6 of 8

Purchase Order No.:

Project Location: MEDFIELD STATE HOSPITAL
Date Received: 11/29/01
Field Sample #: T1-1

LIMS-BAT #: LIMS-60121
Job Number: -

Sample ID: 01B33455 Sampled: 11/28/01
NORTH END

Sample Matrix: SOIL

| | Units | Results | Date Analyzed | Analyst | RL | SPEC Limit | | P/ F |
|-------------------|----------------|---------|---------------|---------|-------|------------|----|------|
| | | | | | | Lo | Hi | |
| C5-C8 Aliphatics | ug/kg dry w t. | ND | 12/11/01 | GEO | 1500. | | | |
| C9-C12 Aliphatics | ug/kg dry w t. | ND | 12/11/01 | GEO | 500. | | | |
| C9-C10 Aromatics | ug/kg dry w t. | ND | 12/11/01 | GEO | 500. | | | |
| Benzene | ug/kg dry w t. | ND | 12/11/01 | GEO | 500. | | | |
| Ethylbenzene | ug/kg dry w t. | ND | 12/11/01 | GEO | 500. | | | |
| MTBE | ug/kg dry w t. | ND | 12/11/01 | GEO | 250. | | | |
| Naphthalene | ug/kg dry w t. | ND | 12/11/01 | GEO | 1000. | | | |
| Toluene | ug/kg dry w t. | ND | 12/11/01 | GEO | 500. | | | |
| m/p-Xylene | ug/kg dry w t. | ND | 12/11/01 | GEO | 500. | | | |
| o-Xylene | ug/kg dry w t. | ND | 12/11/01 | GEO | 500. | | | |

Analytical Method:
MADEP-VPH-98-1 REVISION 0

REPORTED DETECTION LIMITS (MDL) ARE THE REPORTING LIMITS (RL) CALCULATED ACCORDING TO THE METHOD.

SIGNIFICANT MODIFICATIONS: GC/MS ANALYSIS

WERE ALL QA/QC PROCEDURES REQUIRED BY THE METHOD FOLLOWED?

YES NO

WERE ALL PERFORMANCE/AcCEPTANCE STANDARDS FOR REQUIRED QA/QC PROCEDURES ACHIEVED?

YES NO

DETAILS OF ANY NON-CONFORMANCE WITH QA/QC REQUIREMENTS, PERFORMANCE, OR ACCEPTANCE CRITERIA ARE LISTED IN THE NOTES SECTION OF THIS REPORT.

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12/17/01
Page 7 of 8

Purchase Order No.:

Project Location: MEDFIELD STATE HOSPITAL
Date Received: 11/29/01
Field Sample #: T1-2

LIMS-BAT #: LIMS-60121
Job Number: -

Sample ID: 01B33456 Sampled: 11/28/01
SOUTH END

Sample Matrix: SOIL

| | Units | Results | Date Analyzed | Analyst | RL | SPEC Limit | | P/ F |
|-------------------|---------------|---------|---------------|---------|-------|------------|----|------|
| | | | | | | Lo | Hi | |
| C5-C8 Aliphatics | ug/kg dry wt. | 7260. | 12/11/01 | GEO | 1500. | | | |
| C9-C12 Aliphatics | ug/kg dry wt. | 33100. | 12/11/01 | GEO | 500. | | | |
| C9-C10 Aromatics | ug/kg dry wt. | 29000. | 12/11/01 | GEO | 500. | | | |
| Benzene | ug/kg dry wt. | ND | 12/11/01 | GEO | 500. | | | |
| Ethylbenzene | ug/kg dry wt. | ND | 12/11/01 | GEO | 500. | | | |
| MTBE | ug/kg dry wt. | ND | 12/11/01 | GEO | 250. | | | |
| Naphthalene | ug/kg dry wt. | 5060. | 12/11/01 | GEO | 1000. | | | |
| Toluene | ug/kg dry wt. | ND | 12/11/01 | GEO | 500. | | | |
| m/p-Xylene | ug/kg dry wt. | 1800. | 12/11/01 | GEO | 500. | | | |
| o-Xylene | ug/kg dry wt. | 1100. | 12/11/01 | GEO | 500. | | | |

Analytical Method:
MADEP-VPH-98-1 REVISION 0

REPORTED DETECTION LIMITS (MDL) ARE THE REPORTING LIMITS (RL) CALCULATED ACCORDING TO THE METHOD.

SIGNIFICANT MODIFICATIONS: GC/MS ANALYSIS

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RL = Reporting Limit
ND = Not Detected
NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample



con-test[®]
ANALYTICAL LABORATORY

39 Spruce Street ° 2nd Floor ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

KEVIN SEISE
PENNONI ASSOCIATES - HOPKINTON
82 SOUTH STREET
HOPKINTON, MA 01748

12/14/01
Page 8 of 8

Project Location: MEDFIELD STATE HOSPITAL
Date Received: 11/29/01

Purchase Order No.:

LIMS-BAT #: LIMS-60121
Job Number: -

**** END OF REPORT ****

RL = Reporting Limit

ND = Not Detected

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample



39 Spruce Street * 2nd Floor * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates.

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 12/17/01

Lims Bat #: LIMS-60121

Page 1 of 5

QC Batch Number: BATCH-3687

| Sample Id | Analysis | QC Analysis | Values | Units | Limits |
|-----------|--------------------|---------------|--------|-------|--------|
| 01B33455 | 2,5-Dibromotoluene | Sur. Recovery | 100.0 | % | 70-130 |
| 01B33456 | 2,5-Dibromotoluene | Sur. Recovery | 72.0 | % | 70-130 |



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QC SUMMARY REPORT

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Standard Reference Materials and Duplicates

Method Blanks

Report Date: 12/17/01

Lims Bat # : LIMS-60121

Page 2 of 5

QC Batch Number: BATCH-3688

| Sample Id | Analysis | QC Analysis | Values | Units | Limits |
|-----------|--------------------|---------------|--------|-------|--------|
| 01B33455 | 2,5-Dibromotoluene | Sur. Recovery | 100.0 | % | 70-130 |
| 01B33456 | 2,5-Dibromotoluene | Sur. Recovery | 72.0 | % | 70-130 |



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates.

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Standard Reference Materials and Duplicates

Method Blanks

Report Date: 12/14/01

Lims Bat #: LIMS-60121

Page 3 of 5

QC Batch Number: GC/FID-6104

| Sample Id | Analysis | QC Analysis | Values | Units | Limits |
|---------------|------------------------|----------------------|--------|---------------|--------|
| 01B33455 | 2-Fluorobiphenyl | Surrogate Recovery | 88.8 | % | 40-140 |
| | 2-Bromonaphthalene | Surrogate Recovery | 80.8 | % | 40-140 |
| | Chlorooctadecane | Sur. Recovery | 61.0 | % | 40-140 |
| | Terphenyl | Sur. Recovery | 68.5 | % | 40-140 |
| 01B33456 | 2-Fluorobiphenyl | Surrogate Recovery | 67.8 | % | 40-140 |
| | 2-Bromonaphthalene | Surrogate Recovery | 74.6 | % | 40-140 |
| | Chlorooctadecane | Sur. Recovery | 138.0 | % | 40-140 |
| | Terphenyl | Sur. Recovery | 138.0 | % | 40-140 |
| BLANK-38380 | Naphthalene | Blank | <0.5 | mg/kg dry wt. | |
| | Acenaphthene | Blank | <0.5 | mg/kg dry wt. | |
| | Acenaphthylene | Blank | <0.5 | mg/kg dry wt. | |
| | Anthracene | Blank | <0.5 | mg/kg dry wt. | |
| | Benzo(a)anthracene | Blank | <0.5 | mg/kg dry wt. | |
| | Benzo(a)pyrene | Blank | <0.5 | mg/kg dry wt. | |
| | Benzo(b)fluoranthene | Blank | <0.5 | mg/kg dry wt. | |
| | Benzo(g,h,i)perylene | Blank | <0.5 | mg/kg dry wt. | |
| | Chrysene | Blank | <0.5 | mg/kg dry wt. | |
| | Dibenzo(a,h)anthracene | Blank | <0.5 | mg/kg dry wt. | |
| | Fluoranthene | Blank | <0.5 | mg/kg dry wt. | |
| | Fluorene | Blank | <0.5 | mg/kg dry wt. | |
| | Indeno(1,2,3-cd)pyrene | Blank | <0.5 | mg/kg dry wt. | |
| | 2-Methylnaphthalene | Blank | <0.5 | mg/kg dry wt. | |
| | Phenanthrene | Blank | <0.5 | mg/kg dry wt. | |
| | Pyrene | Blank | <0.5 | mg/kg dry wt. | |
| | Benzo(k)fluoranthene | Blank | <0.5 | mg/kg dry wt. | |
| | C9-C18 Aliphatics | Blank | <18.1 | mg/kg dry wt. | |
| | C19-C36 Aliphatics | Blank | 4.0 | mg/kg dry wt. | |
| | C11-C22 Aromatics | Blank | <10.2 | mg/kg dry wt. | |
| LFBLANK-18495 | Naphthalene | Lab Fort Blank Amt. | 2.5 | mg/kg dry wt. | |
| | | Lab Fort Blk. Found | 1.7 | mg/kg dry wt. | |
| | | Lab Fort Blk. % Rec. | 67.6 | % | 40-140 |
| | Acenaphthene | Lab Fort Blank Amt. | 2.5 | mg/kg dry wt. | |
| | | Lab Fort Blk. Found | 2.1 | mg/kg dry wt. | |
| | | Lab Fort Blk. % Rec. | 83.2 | % | 40-140 |
| | Anthracene | Lab Fort Blank Amt. | 2.5 | mg/kg dry wt. | |
| | | Lab Fort Blk. Found | 2.6 | mg/kg dry wt. | |
| | | Lab Fort Blk. % Rec. | 103.6 | % | 40-140 |
| | Chrysene | Lab Fort Blank Amt. | 2.5 | mg/kg dry wt. | |
| | | Lab Fort Blk. Found | 2.5 | mg/kg dry wt. | |
| | | Lab Fort Blk. % Rec. | 101.6 | % | 40-140 |



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QC SUMMARY REPORT

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BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 12/14/01

Lims Bat #: LIMS-60121

Page 4 of 5

QC Batch Number: GC/FID-6104

| Sample Id | Analysis | QC Analysis | Values | Units | Limits |
|---------------|----------|----------------------|--------|---------------|--------|
| LFBLANK-18495 | Pyrene | Lab Fort Blank Amt. | 2.5 | mg/kg dry wt. | |
| | | Lab Fort Blk. Found | 2.6 | mg/kg dry wt. | |
| | | Lab Fort Blk. % Rec. | 103.2 | % | 40-140 |



(413) 525-2332
FAX (413) 525-6405

CHAIN OF CUSTODY RECORD

39 SPRUCE ST. • 2ND FLOOR • EAST LONGMEADOW, MA 01028

Client Name: PENNONI ASSOCIATES Telephone: 508-435-8080 Analysis Required ✓
 Attn: KEVIN SEISE Batch #: _____
 Address: 82 SOUTH ST Project #: _____
HOPKINTON
 Site Location: MADFIELD STATE HOSPITAL Client P.O. #: _____
 Sampled By: KEVIN SEISE P.O. #: _____
 Call Results: Yes ___ No ___ EMAIL TO KSEISE@PENNONI.COM
 Fax Results: Yes ___ No ___

| Field Sample I.D. | Sample Description | Lab # | DATE SAMPLED | | Composite | Grab | MATRIX | | | | | Preservative (Use Code) | Container (Use Code) | |
|-------------------|--------------------|-----------|-----------------|----------------|-----------|------|-------------|--------------|-----------|------|-----|-------------------------|----------------------|-------|
| | | | Start Date/Time | Stop Date/Time | | | WASTE WATER | GROUND WATER | DKG WATER | Soil | Air | | | Other |
| T1-1 | NORTH END | 018 33455 | | 9/28 | | X | | | X | | | | EPH | VRH |
| T1-2 | SOUTH END | 33456 | | | | X | | | X | | | | EPH | X |
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |

CONTAINER CODE: _____ PRESERVATIVE CODE: _____
 P: PLASTIC (___ Size) V = 40 ml vial G = Glass (___ size) A = 1000 ml Amber 0 = Other
 I = ICED N = HNO₃ H = HCl S = NaOH T = Na₂S₂O₃ O = OTHER

Relinquished by: (Signature) Kevin Seise Date Time 10/15/11 12:01 Received by: (Signature) [Signature] Date Time 11/29/11
 Relinquished by: (Signature) [Signature] Date Time 11/29/11 16:50 Received by: (Signature) [Signature] Date Time 11/29/11
 Relinquished by: (Signature) [Signature] Date Time _____ Received by: (Signature) _____ Date Time _____

Turnaround Requested: _____ 24-Hour _____ 48-Hour ✓ Normal _____
 Remarks/Comments: _____
 *MATRIX OTHER _____