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## **PREDESIGN INVESTIGATION REPORT**

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### **WORK ASSIGNMENT D003825-66**

**DINABURG DISTRIBUTING SITE  
ROCHESTER (C)**

**SITE NO. 8-28-103  
MONROE (C), NY**

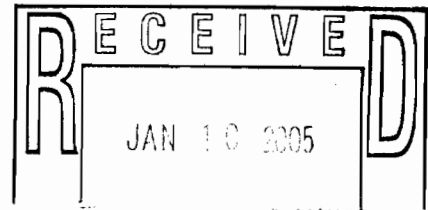
Prepared for:  
NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
625 Broadway, Albany, New York

*Erin M. Crotty, Commissioner*

**DIVISION OF ENVIRONMENTAL REMEDIATION**

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**URS Corporation Group Consultants**  
77 Goodell Street  
Buffalo, New York 14203



December 30, 2004

Mr. Mike Cruden, PE  
Project Manager  
New York State Department of Environmental Conservation  
625 Broadway  
Albany, New York 12233

**Re: WA# D003825-66, Pre-Design Investigation – Dinaburg Distributing Site, No. 8-28-103**

Dear Mr. Cruden:

URS Corporation (URS) has completed the pre-design investigation described in our Work Plan for the referenced site dated August 2004. The following paragraphs summarize the field investigation, present analytical results, and provide recommendations for volumes of soil to be excavated and removed from the site.

#### **Field Investigation**

URS had substantially completed a design for the installation of a dual phase vapor extraction system at the Dinaburg Site in 2003. Prior to submittal of the final design documents for bid, the site buildings were removed (in early 2004). URS and NYSDEC agreed to integrate source removal into the project, which allows for excavation of containment hot spots below the former northern corner of the building. To better define the limits of excavation to be specified in the design, URS conducted a pre-design investigation. The investigation included geoprobing to collect soil samples to define a volume of soil to be specified for removal in the design. URS performed the pre-design investigation fieldwork on October 13 and 14, 2004. Sample locations were located via field survey on November 30, 2004.

#### Utilities Clearance

Prior to any intrusive activities (i.e., geoprobing or drilling), the utility locating service Underground Facilities Protective Organization (UFPO) was contacted for the identification and marking of utilities at the site including water lines, drains, gas lines, electrical service, storm sewers and sanitary sewers.

#### Soil Borings

A total of 16 soil borings were performed at the general locations identified in the work plan. Soil borings were completed using direct-push continuous sampling equipment. Soil samples were collected from ground surface to the approximate depth of first groundwater. Retrieved soil samples were screened using a photoionization detector (PID). Although high humidity likely provided falsely elevated readings during sampling, URS retained one soil sample from each boring based on relative PID readings and submitted it for laboratory analysis. Generally, elevated PID readings were most frequently observed between 3-feet and 6-feet bgs (in 9 out of 15 borings). In the absence of detectable PID readings, a sample was retained and submitted from just above the water table or just below ground surface.

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All but one soil boring (SB-11) were completed to a depth of 8-feet below ground surface (bgs). SB-11 was extended to 12-feet bgs. Soils recovered from all of the borings were generally silty sand or sandy silt (SM/ML), with traces of coarse medium to fine sands, gravel, and clay. Groundwater was encountered between 4 and 8-feet bgs, the average groundwater depth observed was 6.5-feet bgs, and the mode was 7-feet bgs. Soil boring logs are attached in Appendix A.

Soil borings were backfilled with excess soil and granular bentonite material to just below ground surface. Boring locations penetrating surface pavement such as asphalt or concrete were patched appropriately.

#### Boring Location Surveying

Minor adjustments were made to sample locations specified in the work plan in the field. All boring locations completed during the pre-design investigation were surveyed for horizontal and vertical control under the direct supervision of a New York State-licensed land surveyor. Horizontal control was referenced to New York State Plane, North American Datum 1983 (NAD 83). Vertical control will be referenced to New York State Plane, North American Vertical Datum of 1988 (NAVD 1988). Boring locations are shown in the attached figure (Figure 1-1).

#### Soil Analytical

Soil samples selected for analysis were submitted to CompuChem (NYSDOH ELAP-CLP approved laboratory) and analyzed for Target Compound List (TCL) VOCs. URS reviewed the data and prepared a Data Usability Summary Report (DUSR) included as Appendix B.

#### **Analytical Results**

VOCs were detected in all 16 soil samples. Soil samples from SB-03 and SB-08 did not contain VOCs above TAGM 4046 criteria, the remaining samples exceeded TAGMs for one or more compound. The highest total VOC concentrations were found in SB-05.

Tetrachloroethene (PCE) was the principal contaminant detected in all 16 samples in concentrations ranging from 1.0 to 1,400 mg/kg. Trichloroethene (TCE) was detected in 13 samples in concentrations ranging from 0.074 to 290 mg/kg.

Other VOCs detected include:

- 1,1,1-Trichloroethane – 5.9 mg/kg (SB-13)
- 1,2,4-Trichlorobenzene – 11 mg/kg (SB-05), and 4.9 (SB-07)
- 1,2-Dichlorobenzene – 0.20 mg/kg (SB-13)
- 1,3,5-Trimethylbenzene – 17 mg/kg (SB-13)
- 4-Methyl-2-Pentanone – 0.28 mg/kg (SB-16)
- Acetone – 1.3 mg/kg (SB-14)
- Ethylbenzene – 0.57 mg/kg (SB-12)
- Isopropylbenzene – 110 mg/kg (SB-05), and 1.1 mg/kg (SB-13)
- Methyl Acetate – 1.1 mg/kg (SB-14)
- Methylcyclohexane – 38 mg/kg (SB-05), 1.1 mg/kg (SB-14)

- Toluene – 0.51 mg/kg (SB-13)
- Xylene – 150 mg/kg (SB-05), 0.97 mg/kg (SB-12), and 1.4 mg/kg (SB-13)

Table 1 provides a summary of the soil sample analytical results. Laboratory data tables are included in the DUSR in Appendix B.

### **Recommendations**

Based on the pre-design investigation data, and previous investigation data URS has developed proposed excavation limits based on two source removal scenarios. The rationale for the two scenarios was to explore the potential cost/benefit analysis of a less stringent source removal since a post excavation remedial system using dual phase extraction is planned.

The first alternative is to remove all source area soils with PCE concentrations in excess of 100 mg/kg. The second is to remove all source area soils with PCE concentrations in excess of the TAGM 4046 guidance value (1.4 mg/kg). Both scenarios assume excavation only to the soil/groundwater interface at 7-feet bgs and do not include excavation under buildings. Figure 1-2 shows approximate areas defining the zones exceeding both a 1.4 mg/kg limit and a 100 mg/kg limit. While the 1.4 mg/kg zone includes all samples exceeding this concentration, the 100 mg/kg zone excludes the 1999 sample at location GP-07—the location of this sample was already excavated during the installation of the current SVE system. It also excludes GP-04 (110 mg/kg) located near where the eastern SVE system is currently installed. Also, the 100 mg/kg zone includes four samples (B-01, SB-12, SB-13, SB-14) that contain the PCE below 100 mg/kg, but are included in this zone because they are surrounded by other, higher concentration samples, or in the case of SB-13, contain elevated levels of other VOCs (primarily hydrocarbons). The 100 mg/kg cleanup limit produces a proposed excavation volume of 310 cubic yards. The 1.4 mg/kg guidance value produces a proposed excavation volume of 1,200 cubic yards calculations are presented in Appendix C.

Assuming a unit density of 1.5 tons per cubic yard, the 100 mg/kg excavation scenario will effectively remove 1,070 pounds of VOCs from site soils. The 1.4 mg/kg excavation scenario will effectively remove only an additional 39 pounds of VOCs from site soils despite more than doubling the volume excavated.

The cost for source removal under the 100 mg/kg scenarios is \$163,000, and the cost for the 1.4 mg/kg scenario is \$362,000. The basis for the cost assumes excavation and handling at a rate of \$15 per ton, and disposal of soils as hazardous waste at \$335 per ton and does not include any additional soil that may have to be excavated to meet the 100 mg/kg limit or to provide excavation hole slopes. No other costs are included since this work will be performed under the Dual Phase System construction contract, and all ancillary costs would be included under the contract.

URS recommends that excavation extend only to the 100 mg/kg limit (and limits imposed by the presence of existing buildings) for two reasons.

First, universally achieving TAGM criteria (1.4 mg/kg PCE guidance value) with excavation and off-site disposal at the site is not practical. Excavations cannot extend to clean limits without undermining adjacent structures, intercepting the groundwater table, or extending off-site. The larger volume estimate of 1,200 cubic yards does not include such areas of contamination above 1.4 mg/kg. Excavation of all soils exceeding the 1.4 mg/kg criterion at this site would require sheet piling, dewatering, water treatment, and access agreements. The aforementioned requirements, which would

greatly increase costs, were part of the rationale for selecting a Dual Phase Extraction system for remediation. Therefore, even if a 1.4 mg/kg limit were detected, extensive areas (below buildings) would still remain above this limit.

Secondly, although some zones of contamination even above the higher 100 mg/kg limit may remain below adjacent buildings, excavating only to 100 mg/kg would remove almost as much PCE as going to 1.4 mg/kg, while incurring only about half the cost. Actual excavation limits will have to be adjusted to optimize recovery of contaminated soils and avoid structuring.

Furthermore, soils that remain on-site after excavation will have lower VOC concentrations, and subsequently recovered soil vapors will require less carbon consumption in the Dual Phase Treatment train. The proposed Dual Phase System has been estimated to recover about 1 pound of VOCs (from soil vapor) per day without source removal. Based on the soil vapor recovery estimate, the proposed 100 mg/kg source removal scenario would reduce carbon consumption (up to 19,260 pounds) and potentially save over \$38,500 in long term O&M.

Based on our review of the data and our analysis of the costs and benefits associated with the two excavation scenarios presented, URS recommends removing to the extent practical all soils above the water table (to a depth of 7-feet bgs) which have been found to contain concentrations of PCE above 100 mg/kg.

We thank you for this opportunity to work with NYSDEC and look forward to your comments.

Very truly yours,



Jon Sundquist, PhD  
Project Manager

Cc: File #11173839

**Attachments:**

|             |                                                               |
|-------------|---------------------------------------------------------------|
| Table 1:    | Soil Analytical Results                                       |
| Figure 1-1: | 2004 Soil Analytical Results                                  |
| Figure 1-2: | Boring Locations and Proposed Source Removal Excavation Units |
| Appendix A: | Soil Boring Logs                                              |
| Appendix B: | Data Usability Summary Report                                 |
| Appendix C: | Calculations                                                  |

**TABLE 1**  
**SOIL ANALYTICAL RESULTS**  
**FORMER DINABURG DISTRIBUTING, INC.**

| Location ID                |       | SB-01    | SB-02    | SB-03    | SB-04    | SB-05       |
|----------------------------|-------|----------|----------|----------|----------|-------------|
| Sample ID                  |       | SB-1     | SB-2     | SB-3     | SB-4     | SB-5        |
| Matrix                     |       | Soil     | Soil     | Soil     | Soil     | Soil        |
| Depth Interval (ft)        |       | 3.0-4.0  | 3.0-4.0  | 3.0-4.0  | 3.0-4.0  | 4.0-6.0     |
| Date Sampled               |       | 10/14/04 | 10/14/04 | 10/14/04 | 10/13/04 | 10/13/04    |
| Parameter                  | Units |          |          |          |          |             |
| Volatile Organic Compounds |       |          |          |          |          |             |
| 1,1,1-Trichloroethane      | UG/KG | 2 U      | 98 UJ    | 2 U      | 98 U     | 98 UJ       |
| 1,2,4-Trichlorobenzene     | UG/KG | 1.7 U    | 69 UJ    | 1.7 U    | 69 U     | 11,000 J    |
| 1,2-Dichlorobenzene        | UG/KG | 1.2 U    | 62 UJ    | 1.2 U    | 62 U     | 62 UJ       |
| 4-Methyl-2-Pentanone       | UG/KG | 1.6 UJ   | 81 UJ    | 1.6 UJ   | 81 U     | 81 UJ       |
| Ethylbenzene               | UG/KG | 1.7 U    | 85 UJ    | 1.7 U    | 85 U     | 85 UJ       |
| Isopropylbenzene (Cumene)  | UG/KG | 1.4 U    | 68 UJ    | 1.4 U    | 68 U     | 110,000 J   |
| Methyl acetate             | UG/KG | 2.3 U    | 120 UJ   | 2.3 U    | 120 U    | 120 UJ      |
| Methylcyclohexane          | UG/KG | 1.9 U    | 96 UJ    | 1.9 U    | 96 U     | 38,000 J    |
| Methylene Chloride         | UG/KG | 4 J      | 91 UJ    | 1.8 U    | 91 U     | 91 UJ       |
| Tetrachloroethene          | UG/KG | 660 DJ   | 3,000 J  | 1,900 DJ | 490,000  | 1,000,000 J |
| Toluene                    | UG/KG | 1.9 U    | 96 UJ    | 3 J      | 96 U     | 96 UJ       |
| Trichloroethene            | UG/KG | 110      | 1,500 J  | 74       | 58,000   | 290,000 J   |
| Xylene (total)             | UG/KG | 3 J      | 0.01 UJ  | 2 J      | 0.01 U   | 150,000 J   |

Flags assigned during chemistry validation are shown.

U - Not Detected

J - Estimated concentration below the sample quantitation limit, or due to quality control outliers.

NA - Not Analyzed

Only Detected Results Reported.

Detection Limits shown are MDL

**TABLE 1**  
**SOIL ANALYTICAL RESULTS**  
**FORMER DINABURG DISTRIBUTING, INC.**

| Location ID                       |       | SB-06    | SB-07     | SB-08    | SB-09    | SB-10    |
|-----------------------------------|-------|----------|-----------|----------|----------|----------|
| Sample ID                         |       | SB-6     | SB-7      | SB-8     | SB-9     | SB-10    |
| Matrix                            |       | Soil     | Soil      | Soil     | Soil     | Soil     |
| Depth Interval (ft)               |       | 4.0-5.0  | 0.0-1.0   | 5.0-6.0  | 2.0-3.0  | 1.0-2.0  |
| Date Sampled                      |       | 10/13/04 | 10/13/04  | 10/14/04 | 10/14/04 | 10/13/04 |
| Parameter                         | Units |          |           |          |          |          |
| <b>Volatile Organic Compounds</b> |       |          |           |          |          |          |
| 1,1,1-Trichloroethane             | UG/KG | 98 U     | 98 UJ     | 2 U      | 98 UJ    | 98 UJ    |
| 1,2,4-Trichlorobenzene            | UG/KG | 69 U     | 4,900 J   | 1.7 U    | 69 UJ    | 69 UJ    |
| 1,2-Dichlorobenzene               | UG/KG | 62 U     | 62 UJ     | 1.2 U    | 62 UJ    | 62 UJ    |
| 4-Methyl-2-Pentanone              | UG/KG | 81 U     | 81 UJ     | 1.6 UJ   | 81 UJ    | 81 UJ    |
| Ethylbenzene                      | UG/KG | 85 U     | 85 UJ     | 1.7 U    | 85 UJ    | 85 UJ    |
| Isopropylbenzene (Cumene)         | UG/KG | 68 U     | 68 UJ     | 1.4 U    | 68 UJ    | 68 UJ    |
| Methyl acetate                    | UG/KG | 120 U    | 120 UJ    | 2.3 U    | 120 UJ   | 120 UJ   |
| Methylcyclohexane                 | UG/KG | 96 U     | 96 UJ     | 1.9 U    | 96 UJ    | 96 UJ    |
| Methylene Chloride                | UG/KG | 91 U     | 91 UJ     | 4 J      | 91 UJ    | 91 UJ    |
| Tetrachloroethene                 | UG/KG | 170,000  | 390,000 J | 260 J    | 6,800 J  | 68,000 J |
| Toluene                           | UG/KG | 96 U     | 96 UJ     | 1.9 U    | 96 UJ    | 96 UJ    |
| Trichloroethene                   | UG/KG | 16,000 J | 73,000 J  | 8 J      | 2,600 J  | 22,000 J |
| Xylene (total)                    | UG/KG | 0.01 U   | 0.01 UJ   | 0.01 U   | 0.01 UJ  | 0.01 UJ  |

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**TABLE 1**  
**SOIL ANALYTICAL RESULTS**  
**FORMER DINABURG DISTRIBUTING, INC.**

| Location ID                       |       | SB-11       | SB-12    | SB-13    | SB-14    | SB-15       |
|-----------------------------------|-------|-------------|----------|----------|----------|-------------|
| Sample ID                         |       | SB-11       | SB-12    | SB-13    | SB-14    | SB-15       |
| Matrix                            |       | Soil        | Soil     | Soil     | Soil     | Soil        |
| Depth Interval (ft)               |       | 3.0-4.0     | 7.0-8.0  | 7.0-8.0  | 4.0-5.0  | 5.0-6.0     |
| Date Sampled                      |       | 10/13/04    | 10/13/04 | 10/14/04 | 10/14/04 | 10/13/04    |
| Parameter                         | Units |             |          |          |          |             |
| <b>Volatile Organic Compounds</b> |       |             |          |          |          |             |
| 1,1,1-Trichloroethane             | UG/KG | 98 UJ       | 98 UJ    | 5,900 J  | 98 U     | 98 UJ       |
| 1,2,4-Trichlorobenzene            | UG/KG | 69 UJ       | 69 UJ    | 69 UJ    | 69 U     | 69 UJ       |
| 1,2-Dichlorobenzene               | UG/KG | 62 UJ       | 62 UJ    | 200 J    | 62 U     | 62 UJ       |
| 4-Methyl-2-Pentanone              | UG/KG | 81 UJ       | 81 UJ    | 81 UJ    | 81 U     | 81 UJ       |
| Ethylbenzene                      | UG/KG | 85 UJ       | 570 J    | 2,200 J  | 85 U     | 85 UJ       |
| Isopropylbenzene (Cumene)         | UG/KG | 68 UJ       | 68 UJ    | 1,100 J  | 68 U     | 68 UJ       |
| Methyl acetate                    | UG/KG | 120 UJ      | 120 UJ   | 120 UJ   | 1,100 J  | 120 UJ      |
| Methylcyclohexane                 | UG/KG | 96 UJ       | 960 J    | 17,000 J | 96 U     | 96 UJ       |
| Methylene Chloride                | UG/KG | 91 UJ       | 91 UJ    | 91 UJ    | 91 U     | 91 UJ       |
| Tetrachloroethene                 | UG/KG | 1,100,000 J | 4,800 J  | 1,400 J  | 39,000   | 1,400,000 J |
| Toluene                           | UG/KG | 96 UJ       | 96 UJ    | 510 J    | 96 U     | 96 UJ       |
| Trichloroethene                   | UG/KG | 180,000 J   | 96 UJ    | 3,600 J  | 3,500 J  | 96 UJ       |
| Xylene (total)                    | UG/KG | 0.01 UJ     | 970 J    | 14,000 J | 0.01 U   | 0.01 UJ     |

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NA - Not Analyzed

Only Detected Results Reported.

Detection Limits shown are MDL



**TABLE 1**  
**SOIL ANALYTICAL RESULTS**  
**FORMER DINABURG DISTRIBUTING, INC.**

|                                   |              |                 |
|-----------------------------------|--------------|-----------------|
| <b>Location ID</b>                |              | <b>SB-16</b>    |
| <b>Sample ID</b>                  |              | <b>SB-16</b>    |
| <b>Matrix</b>                     |              | <b>Soil</b>     |
| <b>Depth Interval (ft)</b>        |              | <b>6.0-7.0</b>  |
| <b>Date Sampled</b>               |              | <b>10/14/04</b> |
| <b>Parameter</b>                  | <b>Units</b> |                 |
| <b>Volatile Organic Compounds</b> |              |                 |
| 1,1,1-Trichloroethane             | UG/KG        | 98 UJ           |
| 1,2,4-Trichlorobenzene            | UG/KG        | 69 UJ           |
| 1,2-Dichlorobenzene               | UG/KG        | 62 UJ           |
| 4-Methyl-2-Pentanone              | UG/KG        | 280 J           |
| Ethylbenzene                      | UG/KG        | 85 UJ           |
| Isopropylbenzene (Cumene)         | UG/KG        | 68 UJ           |
| Methyl acetate                    | UG/KG        | 120 UJ          |
| Methylcyclohexane                 | UG/KG        | 96 UJ           |
| Methylene Chloride                | UG/KG        | 91 UJ           |
| Tetrachloroethene                 | UG/KG        | 3,400 J         |
| Toluene                           | UG/KG        | 96 UJ           |
| Trichloroethene                   | UG/KG        | 96 UJ           |
| Xylene (total)                    | UG/KG        | 0.01 UJ         |

Flags assigned during chemistry validation are shown.

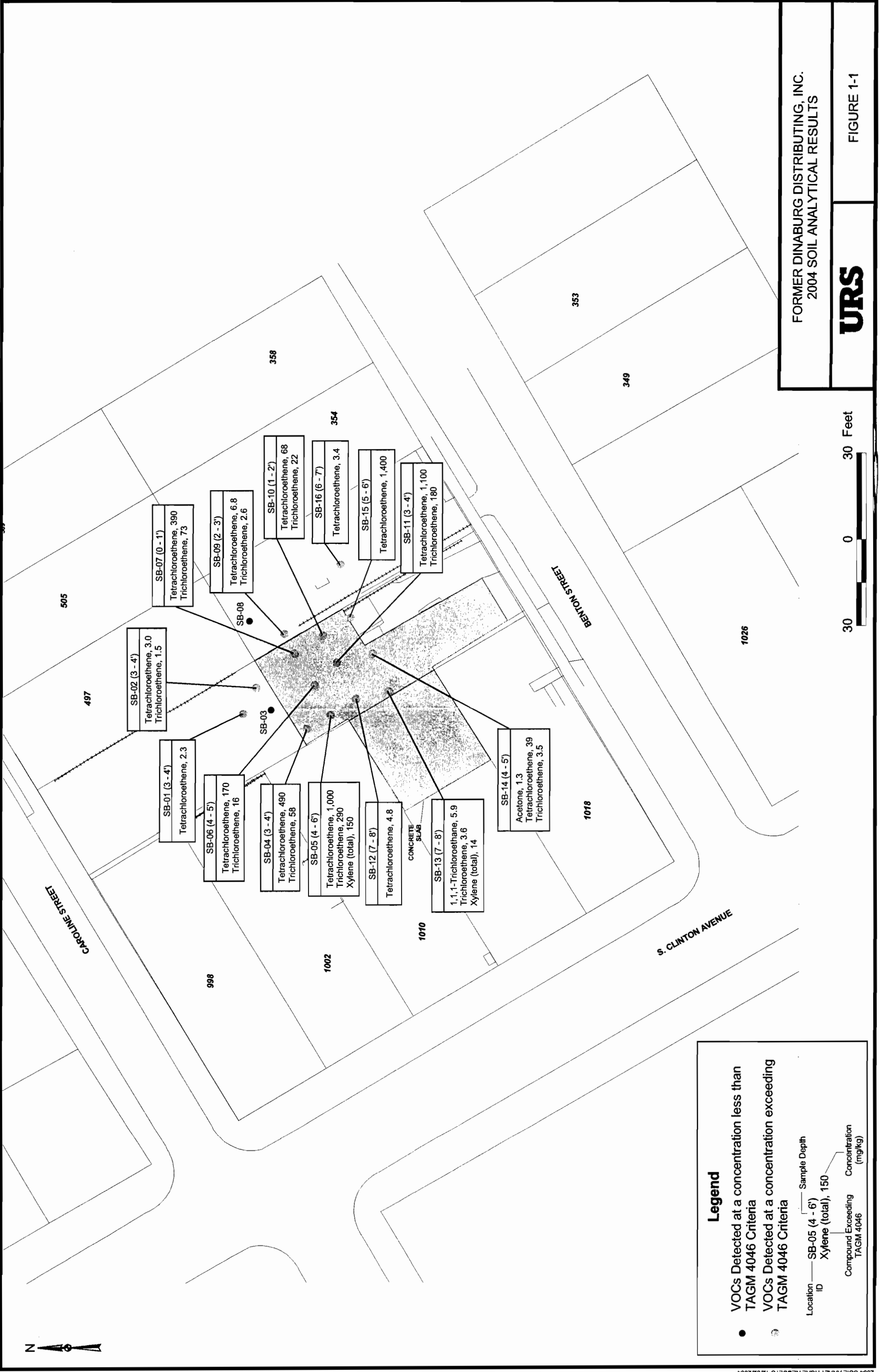
U - Not Detected

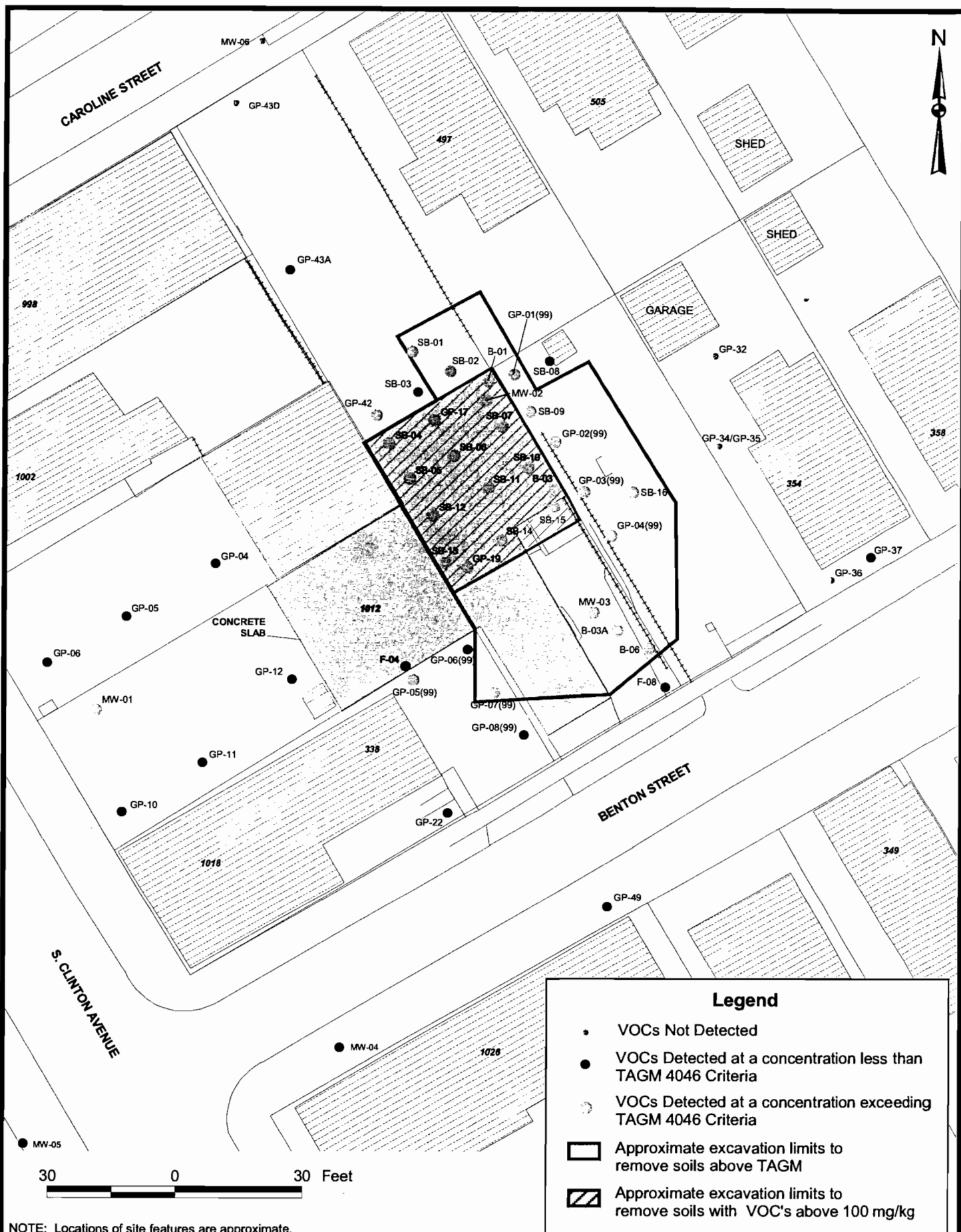
J - Estimated concentration below the sample quantitation limit, or due to quality control outliers.

NA - Not Analyzed

Only Detected Results Reported.

**Detection Limits shown are MDL**





**URS**

FORMER DINABURG DISTRIBUTING, INC.  
BORING LOCATIONS AND PROPOSED SOURCE  
REMOVAL EXCAVATION UNITS

FIGURE 1-2

**APPENDIX A**  
**SOIL BORING LOGS**

| <b>URS Corporation</b>                                                       |             |              |             |                 |              |                                       |                          |                          |                                     | <b>GEOPROBE LOG</b>                  |                     |  |  |
|------------------------------------------------------------------------------|-------------|--------------|-------------|-----------------|--------------|---------------------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------------------|---------------------|--|--|
| <b>PROJECT:</b> Dinaburg Site, Pre-Design Investigation                      |             |              |             |                 |              |                                       |                          |                          |                                     | <b>BORING NO:</b> SB-1               |                     |  |  |
| <b>CLIENT:</b> NYSDEC                                                        |             |              |             |                 |              |                                       |                          |                          |                                     | <b>SHEET:</b> 1 of 1                 |                     |  |  |
| <b>BORING CONTRACTOR:</b> GeoLogic of NY                                     |             |              |             |                 |              |                                       |                          |                          |                                     | <b>JOB NO.:</b> 11173884.00000       |                     |  |  |
| <b>GROUNDWATER:</b>                                                          |             |              |             |                 |              |                                       |                          |                          |                                     | <b>BORING LOCATION:</b> See Site Map |                     |  |  |
|                                                                              |             |              |             |                 | <b>CAS.</b>  | <b>SAMPLER</b>                        | <b>CORE</b>              | <b>TUBE</b>              | <b>GROUND ELEVATION:</b> 513.5      |                                      |                     |  |  |
| <b>DATE</b>                                                                  | <b>TIME</b> | <b>LEVEL</b> | <b>TYPE</b> | <b>TYPE</b>     |              | macrocore                             |                          |                          | <b>DATE STARTED:</b> 10/14/04       |                                      |                     |  |  |
|                                                                              |             |              |             | DIA.            |              | 2-inch                                |                          |                          | <b>DATE FINISHED:</b> 10/14/04      |                                      |                     |  |  |
|                                                                              |             |              |             | WT.             |              | ---                                   |                          |                          | <b>DRILLER:</b> Judd Powell         |                                      |                     |  |  |
|                                                                              |             |              |             | FALL            |              | ---                                   |                          |                          | <b>GEOLOGIST:</b> Kevin J. McGovern |                                      |                     |  |  |
| <b>*Photoionization Detector (PPM)</b>                                       |             |              |             |                 |              |                                       |                          |                          |                                     | <b>REVIEWED BY:</b> Duane Lenhardt   |                     |  |  |
| DEPTH<br>FEET                                                                | SAMPLE      |              |             |                 |              | DESCRIPTION                           |                          |                          |                                     |                                      | REMARKS             |  |  |
|                                                                              | STRATA      | NO.          | TYPE        | BLOWS<br>PER 6" | REC%<br>RQD% | COLOR                                 | CONSIST<br>HARD          | MATERIAL                 | USCS                                | PID*                                 |                     |  |  |
| 2                                                                            |             | 1**          | MC          |                 | 88%          | Dark<br>Stained                       | Loose                    | 0"-3": ASPHALT           |                                     | 10.0                                 | Moist<br>No<br>Odor |  |  |
|                                                                              |             |              |             |                 |              | 3"-4": FILL - Sand, gravel & silt mix | NA                       |                          |                                     |                                      |                     |  |  |
|                                                                              |             |              |             |                 |              |                                       | 16.0                     |                          |                                     |                                      |                     |  |  |
| 4                                                                            |             |              |             |                 |              |                                       | NA                       |                          |                                     |                                      |                     |  |  |
| 6                                                                            |             | 2            | MC          |                 | 95%          | Medium<br>Brown                       | Med<br>Dense to<br>Dense | 4'-6.2": Silty fine SAND | SM                                  | 0.0                                  | Wet @<br>5.5' BGS   |  |  |
|                                                                              |             |              |             |                 |              |                                       |                          | 0.0                      |                                     |                                      |                     |  |  |
| 7                                                                            |             |              |             |                 |              |                                       |                          | 0.0                      |                                     |                                      |                     |  |  |
| 8                                                                            |             |              |             |                 |              |                                       |                          | 0.0                      |                                     |                                      |                     |  |  |
| End of Boring @ 8' BGS                                                       |             |              |             |                 |              |                                       |                          |                          |                                     |                                      |                     |  |  |
| 10                                                                           |             |              |             |                 |              |                                       |                          |                          |                                     |                                      |                     |  |  |
| 12                                                                           |             |              |             |                 |              |                                       |                          |                          |                                     |                                      |                     |  |  |
| 14                                                                           |             |              |             |                 |              |                                       |                          |                          |                                     |                                      |                     |  |  |
| 16                                                                           |             |              |             |                 |              |                                       |                          |                          |                                     |                                      |                     |  |  |
| 18                                                                           |             |              |             |                 |              |                                       |                          |                          |                                     |                                      |                     |  |  |
| <b>Comments:</b> Boring advanced using direct push method via Geoprobe® 5400 |             |              |             |                 |              |                                       |                          |                          |                                     | <b>PROJECT NO.</b> 11173884.00000    |                     |  |  |
| ** - Soil sample: SB1-3'-4' @ 11:00                                          |             |              |             |                 |              |                                       |                          |                          |                                     | <b>BORING NO.</b> SB-1               |                     |  |  |
| QA/QC: None                                                                  |             |              |             |                 |              |                                       |                          |                          |                                     |                                      |                     |  |  |
| PID Reacting to High Humidity                                                |             |              |             |                 |              |                                       |                          |                          |                                     |                                      |                     |  |  |

| URS Corporation                                                       |        |       |      |        |      |              |              |                 |                                                                        | GEOPROBE LOG                  |         |                              |  |
|-----------------------------------------------------------------------|--------|-------|------|--------|------|--------------|--------------|-----------------|------------------------------------------------------------------------|-------------------------------|---------|------------------------------|--|
| PROJECT: Dinaburg Site, Pre-Design Investigation                      |        |       |      |        |      |              |              |                 |                                                                        | BORING NO: SB-2               |         |                              |  |
| CLIENT: NYSDEC                                                        |        |       |      |        |      |              |              |                 |                                                                        | SHEET: 1 of 1                 |         |                              |  |
| BORING CONTRACTOR: GeoLogic of NY                                     |        |       |      |        |      |              |              |                 |                                                                        | JOB NO.: 11173884.00000       |         |                              |  |
| GROUNDWATER:                                                          |        |       |      |        |      |              |              |                 |                                                                        | BORING LOCATION: See Site Map |         |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        | GROUND ELEVATION: 513.5       |         |                              |  |
| DATE                                                                  | TIME   | LEVEL | TYPE | TYPE   | CAS. | SAMPLER      | CORE         | TUBE            | DATE STARTED: 10/14/04                                                 |                               |         |                              |  |
|                                                                       |        |       |      | DIA.   |      | macrocore    |              |                 | DATE FINISHED: 10/14/04                                                |                               |         |                              |  |
|                                                                       |        |       |      | WT.    |      | ---          |              |                 | DRILLER: Judd Powell                                                   |                               |         |                              |  |
|                                                                       |        |       |      | FALL   |      | ---          |              |                 | GEOLOGIST: Kevin J. McGovern                                           |                               |         |                              |  |
| *Photolonization Detector (PPM)                                       |        |       |      |        |      |              |              |                 |                                                                        | REVIEWED BY: Duane Lenhardt   |         |                              |  |
| SAMPLE                                                                |        |       |      |        |      |              |              |                 |                                                                        | DESCRIPTION                   |         |                              |  |
| DEPTH<br>FEET                                                         | STRATA | NO.   | TYPE | BLOWS  |      | REC%<br>RQD% | COLOR        | CONSIST<br>HARD | MATERIAL                                                               | USCS                          | REMARKS |                              |  |
|                                                                       |        |       |      | PER 6" |      |              |              |                 |                                                                        |                               | PID*    |                              |  |
|                                                                       |        | 1**   | MC   |        |      | 75%          | Dark Stained | Loose           | 0'-0.5': ASPHALT<br><br>0.5'-7': FILL - Sand, gravel & silt mix        |                               | 0.0     | Moist<br>No<br>Odor<br><br>↓ |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
| 2                                                                     |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
|                                                                       |        | 2     | MC   |        |      | 75%          | Medium Brown | Medium Dense    | 7'-8': SILT, some fine sand, little med-fine gravel, trace clay (TILL) | ML                            | 10.0    | Wet @<br>7' BGS              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
| 4                                                                     |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 | End of Boring @ 8' BGS                                                 |                               | 123.0   |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
| 6                                                                     |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               | 50.0    |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
| 7                                                                     |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               | 20.0    |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
| 8                                                                     |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               | 20.0    |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
| 10                                                                    |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
| 12                                                                    |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
| 14                                                                    |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
| 16                                                                    |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
| 18                                                                    |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
|                                                                       |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
| Comments: Boring advanced using direct push method via Geoprobe® 5400 |        |       |      |        |      |              |              |                 |                                                                        | PROJECT NO. 11173884.00000    |         |                              |  |
| ** - Soil sample: SB2-3'-4' @ 11:25                                   |        |       |      |        |      |              |              |                 |                                                                        | BORING NO. SB-2               |         |                              |  |
| QA/QC: None                                                           |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |
| PID Reacting to High Humidity                                         |        |       |      |        |      |              |              |                 |                                                                        |                               |         |                              |  |

| URS Corporation                                                       |        |       |      |                 |              |               |                                         |                                                                             |                              | GEOPROBE LOG                  |          |  |  |
|-----------------------------------------------------------------------|--------|-------|------|-----------------|--------------|---------------|-----------------------------------------|-----------------------------------------------------------------------------|------------------------------|-------------------------------|----------|--|--|
| PROJECT: Dinaburg Site, Pre-Design Investigation                      |        |       |      |                 |              |               |                                         |                                                                             |                              | BORING NO: SB-3               |          |  |  |
| CLIENT: NYSDEC                                                        |        |       |      |                 |              |               |                                         |                                                                             |                              | SHEET: 1 of 1                 |          |  |  |
| BORING CONTRACTOR: GeoLogic of NY                                     |        |       |      |                 |              |               |                                         |                                                                             |                              | JOB NO.: 11173884.00000       |          |  |  |
| GROUNDWATER:                                                          |        |       |      |                 |              |               |                                         |                                                                             |                              | BORING LOCATION: See Site Map |          |  |  |
|                                                                       |        |       |      |                 |              |               |                                         |                                                                             |                              | GROUND ELEVATION: 513.6       |          |  |  |
| DATE                                                                  | TIME   | LEVEL | TYPE | TYPE            | CAS.         | SAMPLER       | CORE                                    | TUBE                                                                        | DATE STARTED: 10/14/04       |                               |          |  |  |
|                                                                       |        |       |      | DIA.            |              | macrocore     |                                         |                                                                             | DATE FINISHED: 10/14/04      |                               |          |  |  |
|                                                                       |        |       |      | WT.             |              | ---           |                                         |                                                                             | DRILLER: Judd Powell         |                               |          |  |  |
|                                                                       |        |       |      | FALL            |              | ---           |                                         |                                                                             | GEOLOGIST: Kevin J. McGovern |                               |          |  |  |
| *Photoionization Detector (PPM)                                       |        |       |      |                 |              |               |                                         |                                                                             |                              | REVIEWED BY: Duane Lenhardt   |          |  |  |
| DEPTH<br>FEET                                                         | SAMPLE |       |      |                 |              | DESCRIPTION   |                                         |                                                                             |                              |                               | REMARKS  |  |  |
|                                                                       | STRATA | NO.   | TYPE | BLOWS<br>PER 6" | REC%<br>RQD% | COLOR         | CONSIST<br>HARD                         | MATERIAL                                                                    | USCS                         | PID*                          |          |  |  |
| 2                                                                     |        | 1**   | MC   |                 | 80%          | Dark Stained  | Loose                                   | 0'-0.5': ASPHALT                                                            |                              | NA                            | Moist    |  |  |
|                                                                       |        |       |      |                 |              |               | 0.5'-4': FILL - Sand, gravel & silt mix | No                                                                          |                              |                               |          |  |  |
|                                                                       |        |       |      |                 |              |               |                                         | Odor                                                                        |                              |                               |          |  |  |
|                                                                       |        |       |      |                 |              |               |                                         |                                                                             |                              |                               |          |  |  |
| 4                                                                     |        |       |      |                 |              | Dark Brown    |                                         |                                                                             |                              | 60.0                          |          |  |  |
|                                                                       |        |       |      |                 |              |               |                                         |                                                                             |                              | 54.0                          |          |  |  |
| 6                                                                     |        | 2     | MC   |                 | 100%         | Medium Brown  | Medium Dense                            | 4'-6.5': Silty fine SAND                                                    | SM                           | 21.0                          |          |  |  |
|                                                                       |        |       |      |                 |              |               |                                         |                                                                             |                              |                               |          |  |  |
|                                                                       |        |       |      |                 |              |               |                                         |                                                                             |                              |                               |          |  |  |
|                                                                       |        |       |      |                 |              |               |                                         |                                                                             |                              |                               |          |  |  |
| 7                                                                     |        |       |      |                 |              |               |                                         |                                                                             |                              | 2.0                           |          |  |  |
|                                                                       |        |       |      |                 |              |               |                                         |                                                                             |                              | 10.0                          |          |  |  |
| 8                                                                     |        |       |      |                 |              | Reddish Brown | Dense                                   | 6.5'-8': SILT, some fine sand, little medium-fine gravel, trace clay (TILL) | ML                           | 20.0                          | Wet @    |  |  |
|                                                                       |        |       |      |                 |              |               |                                         |                                                                             |                              |                               | 6.5' BGS |  |  |
| 10                                                                    |        |       |      |                 |              |               |                                         | End of Boring @ 8' BGS                                                      |                              |                               |          |  |  |
| 12                                                                    |        |       |      |                 |              |               |                                         |                                                                             |                              |                               |          |  |  |
| 14                                                                    |        |       |      |                 |              |               |                                         |                                                                             |                              |                               |          |  |  |
| 16                                                                    |        |       |      |                 |              |               |                                         |                                                                             |                              |                               |          |  |  |
| 18                                                                    |        |       |      |                 |              |               |                                         |                                                                             |                              |                               |          |  |  |
| Comments: Boring advanced using direct push method via Geoprobe® 5400 |        |       |      |                 |              |               |                                         |                                                                             |                              | PROJECT NO. 11173884.00000    |          |  |  |
| ** - Soil sample: SB3-3'-4' @ 11:45                                   |        |       |      |                 |              |               |                                         |                                                                             |                              | BORING NO. SB-3               |          |  |  |
| QA/QC: None                                                           |        |       |      |                 |              |               |                                         |                                                                             |                              |                               |          |  |  |
| PID Reacting to High Humidity                                         |        |       |      |                 |              |               |                                         |                                                                             |                              |                               |          |  |  |

| URS Corporation                                                       |                                                                                   |       |      |                 |              |              |                 |                                                                          |                              | GEOPROBE LOG                  |                          |  |  |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------|------|-----------------|--------------|--------------|-----------------|--------------------------------------------------------------------------|------------------------------|-------------------------------|--------------------------|--|--|
| PROJECT: Dinaburg Site, Pre-Design Investigation                      |                                                                                   |       |      |                 |              |              |                 |                                                                          |                              | BORING NO: SB-4               |                          |  |  |
| CLIENT: NYSDEC                                                        |                                                                                   |       |      |                 |              |              |                 |                                                                          |                              | SHEET: 1 of 1                 |                          |  |  |
| BORING CONTRACTOR: GeoLogic of NY                                     |                                                                                   |       |      |                 |              |              |                 |                                                                          |                              | JOB NO.: 11173884.00000       |                          |  |  |
| GROUNDWATER:                                                          |                                                                                   |       |      |                 |              |              |                 |                                                                          |                              | BORING LOCATION: See Site Map |                          |  |  |
|                                                                       |                                                                                   |       |      |                 | CAS.         | SAMPLER      | CORE            | TUBE                                                                     | GROUND ELEVATION: 514.5      |                               |                          |  |  |
| DATE                                                                  | TIME                                                                              | LEVEL | TYPE | TYPE            |              | macrocore    |                 |                                                                          | DATE STARTED: 10/13/04       |                               |                          |  |  |
|                                                                       |                                                                                   |       |      | DIA.            |              | 2-inch       |                 |                                                                          | DATE FINISHED: 10/13/04      |                               |                          |  |  |
|                                                                       |                                                                                   |       |      | WT.             |              | ---          |                 |                                                                          | DRILLER: Judd Powell         |                               |                          |  |  |
|                                                                       |                                                                                   |       |      | FALL            |              | ---          |                 |                                                                          | GEOLOGIST: Kevin J. McGovern |                               |                          |  |  |
| *Photoionization Detector (PPM)                                       |                                                                                   |       |      |                 |              |              |                 |                                                                          |                              | REVIEWED BY: Duane Lenhardt   |                          |  |  |
| SAMPLE                                                                |                                                                                   |       |      |                 |              |              |                 |                                                                          |                              | DESCRIPTION                   |                          |  |  |
| DEPTH<br>FEET                                                         | STRATA                                                                            | NO.   | TYPE | BLOWS<br>PER 6" | REC%<br>RQD% | COLOR        | CONSIST<br>HARD | MATERIAL                                                                 | USCS                         | PID*                          | REMARKS                  |  |  |
|                                                                       |  | 1**   | MC   |                 | 58%          | Tan          | Loose           | 0"-3": CONCRETE                                                          |                              | 192.0                         | Moist<br>Odor<br>Present |  |  |
|                                                                       |                                                                                   |       |      |                 |              | Dark Stained |                 | 3"-3": FILL - silt, sand, gravel and C&D mix                             |                              | 297.0                         |                          |  |  |
| 2                                                                     |                                                                                   |       |      |                 |              |              |                 |                                                                          |                              | 868.0                         |                          |  |  |
| 3                                                                     |  |       |      |                 |              | Dark Brown   |                 | 3'-6': SILT, some fine sand                                              | ML                           | 482.0                         |                          |  |  |
| 4                                                                     |                                                                                   |       |      |                 |              |              |                 |                                                                          |                              | 558.0                         |                          |  |  |
| 6                                                                     |                                                                                   |       |      |                 |              |              |                 |                                                                          |                              | 543.0                         |                          |  |  |
| 7                                                                     |  | 2     | MC   |                 | 75%          | Medium Brown | Medium Dense    | 6'-6.5': Silty fine SAND                                                 | SM                           | 224.0                         |                          |  |  |
| 8                                                                     |                                                                                   |       |      |                 |              | Dark Stained |                 | 6.5'-8': SILT, some fine sand, little medium-fine gravel and clay (TILL) | ML                           | 467.0                         |                          |  |  |
| 10                                                                    |                                                                                   |       |      |                 |              |              |                 | End of Boring @ 8' BGS                                                   |                              |                               |                          |  |  |
| 12                                                                    |                                                                                   |       |      |                 |              |              |                 |                                                                          |                              |                               |                          |  |  |
| 14                                                                    |                                                                                   |       |      |                 |              |              |                 |                                                                          |                              |                               |                          |  |  |
| 16                                                                    |                                                                                   |       |      |                 |              |              |                 |                                                                          |                              |                               |                          |  |  |
| 18                                                                    |                                                                                   |       |      |                 |              |              |                 |                                                                          |                              |                               |                          |  |  |
| Comments: Boring advanced using direct push method via Geoprobe® 5400 |                                                                                   |       |      |                 |              |              |                 |                                                                          |                              | PROJECT NO. 11173884.00000    |                          |  |  |
| ** - Soil sample: SB4-3'-4' @ 17:10                                   |                                                                                   |       |      |                 |              |              |                 |                                                                          |                              | BORING NO. SB-4               |                          |  |  |
| QA/QC: None                                                           |                                                                                   |       |      |                 |              |              |                 |                                                                          |                              |                               |                          |  |  |



| URS Corporation                                                      |                                                                                    |       |      |                 |              |                                |                 |                                                                    |                              | GEOPROBE LOG                    |                          |  |  |
|----------------------------------------------------------------------|------------------------------------------------------------------------------------|-------|------|-----------------|--------------|--------------------------------|-----------------|--------------------------------------------------------------------|------------------------------|---------------------------------|--------------------------|--|--|
| PROJECT: Dinaburg Site, Pre-Design Investigation                     |                                                                                    |       |      |                 |              |                                |                 |                                                                    |                              | BORING NO: SB-5                 |                          |  |  |
| CLIENT: NYSDEC                                                       |                                                                                    |       |      |                 |              |                                |                 |                                                                    |                              | SHEET: 1 of 1                   |                          |  |  |
| BORING CONTRACTOR: GeoLogic of NY                                    |                                                                                    |       |      |                 |              |                                |                 |                                                                    |                              | JOB NO.: 11173884.00000         |                          |  |  |
| GROUNDWATER:                                                         |                                                                                    |       |      |                 |              |                                |                 |                                                                    |                              | BORING LOCATION: See Site Map   |                          |  |  |
|                                                                      |                                                                                    |       |      |                 |              |                                |                 |                                                                    |                              | GROUND ELEVATION: 514.5         |                          |  |  |
| DATE                                                                 | TIME                                                                               | LEVEL | TYPE | TYPE            | CAS.         | SAMPLER                        | CORE            | TUBE                                                               | DATE STARTED: 10/13/04       |                                 |                          |  |  |
|                                                                      |                                                                                    |       |      | DIA.            |              | 2-inch                         |                 |                                                                    | DATE FINISHED: 10/13/04      |                                 |                          |  |  |
|                                                                      |                                                                                    |       |      | WT.             |              | ---                            |                 |                                                                    | DRILLER: Judd Powell         |                                 |                          |  |  |
|                                                                      |                                                                                    |       |      | FALL            |              | ---                            |                 |                                                                    | GEOLOGIST: Kevin J. McGovern |                                 |                          |  |  |
|                                                                      |                                                                                    |       |      |                 |              |                                |                 |                                                                    |                              | REVIEWED BY: Duane Lenhardt     |                          |  |  |
|                                                                      |                                                                                    |       |      |                 |              |                                |                 |                                                                    |                              | *Photoionization Detector (PPM) |                          |  |  |
| DEPTH<br>FEET                                                        | SAMPLE                                                                             |       |      |                 |              | DESCRIPTION                    |                 |                                                                    |                              |                                 | REMARKS                  |  |  |
|                                                                      | STRATA                                                                             | NO.   | TYPE | BLOWS<br>PER 6" | REC%<br>RQD% | COLOR                          | CONSIST<br>HARD | MATERIAL                                                           | USCS                         | PID*                            |                          |  |  |
| 2                                                                    |   | 1     | MC   |                 | 53%          | Tan                            | Loose           | 0'-3": CONCRETE<br>3'-3': FILL - silt, sand, gravel and C&D mix    |                              | NA                              | Moist<br>Odor<br>Present |  |  |
| 3                                                                    |                                                                                    |       |      |                 |              |                                |                 |                                                                    |                              |                                 |                          |  |  |
| 4                                                                    |                                                                                    |       |      |                 |              |                                |                 |                                                                    |                              |                                 |                          |  |  |
| 6                                                                    |  | 2**   | MC   |                 | 88%          | Dk. Stained<br>Medium<br>Brown | Medium<br>Dense | 3'-6.2': Silty fine SAND                                           | SM                           | 1200.0                          |                          |  |  |
| 7                                                                    |                                                                                    |       |      |                 |              |                                |                 |                                                                    |                              |                                 |                          |  |  |
| 8                                                                    |                                                                                    |       |      |                 |              |                                |                 |                                                                    |                              |                                 |                          |  |  |
|                                                                      |                                                                                    |       |      |                 |              |                                |                 | 6.2'-8': Clayey SILT, some fine sand and medium-fine gravel (TILL) | ML/<br>CL                    | 460.0                           | Wet @<br>7' BGS          |  |  |
| 10                                                                   |                                                                                    |       |      |                 |              |                                |                 | End of Boring @ 8' BGS                                             |                              |                                 |                          |  |  |
| 12                                                                   |                                                                                    |       |      |                 |              |                                |                 |                                                                    |                              |                                 |                          |  |  |
| 14                                                                   |                                                                                    |       |      |                 |              |                                |                 |                                                                    |                              |                                 |                          |  |  |
| 16                                                                   |                                                                                    |       |      |                 |              |                                |                 |                                                                    |                              |                                 |                          |  |  |
| 18                                                                   |                                                                                    |       |      |                 |              |                                |                 |                                                                    |                              |                                 |                          |  |  |
| Comments: Boring advanced using direct push method via Geoprobe® 8MU |                                                                                    |       |      |                 |              |                                |                 |                                                                    |                              | PROJECT NO. 11173884.00000      |                          |  |  |
| ** - Soil sample: SB5-4'-6" @ 17:10                                  |                                                                                    |       |      |                 |              |                                |                 |                                                                    |                              | BORING NO. SB-5                 |                          |  |  |
| QA/QC: MS/MSD                                                        |                                                                                    |       |      |                 |              |                                |                 |                                                                    |                              |                                 |                          |  |  |

SB-6

| <b>URS Corporation</b>                                  |                        |     |       |                 |              |               |                                                |                                        |       | <b>GEOPROBE LOG</b>                    |                          |   |                                                                                            |
|---------------------------------------------------------|------------------------|-----|-------|-----------------|--------------|---------------|------------------------------------------------|----------------------------------------|-------|----------------------------------------|--------------------------|---|--------------------------------------------------------------------------------------------|
| <b>PROJECT:</b> Dinaburg Site, Pre-Design Investigation |                        |     |       |                 |              |               |                                                |                                        |       | <b>BORING NO:</b> SB-7                 |                          |   |                                                                                            |
| <b>CLIENT:</b> NYSDEC                                   |                        |     |       |                 |              |               |                                                |                                        |       | <b>SHEET:</b> 1 of 1                   |                          |   |                                                                                            |
| <b>BORING CONTRACTOR:</b> GeoLogic of NY                |                        |     |       |                 |              |               |                                                |                                        |       | <b>JOB NO.:</b> 11173884.00000         |                          |   |                                                                                            |
| <b>GROUNDWATER:</b>                                     |                        |     |       |                 |              |               |                                                |                                        |       | <b>BORING LOCATION:</b> See Site Map   |                          |   |                                                                                            |
|                                                         |                        |     |       |                 |              |               |                                                |                                        |       | <b>GROUND ELEVATION:</b> 514.4         |                          |   |                                                                                            |
|                                                         |                        |     |       |                 |              |               |                                                |                                        |       | <b>DATE STARTED:</b> 10/13/04          |                          |   |                                                                                            |
|                                                         |                        |     |       |                 |              |               |                                                |                                        |       | <b>DATE FINISHED:</b> 10/13/04         |                          |   |                                                                                            |
|                                                         |                        |     |       |                 |              |               |                                                |                                        |       | <b>DRILLER:</b> Judd Powell            |                          |   |                                                                                            |
|                                                         |                        |     |       |                 |              |               |                                                |                                        |       | <b>GEOLOGIST:</b> Kevin J. McGovern    |                          |   |                                                                                            |
|                                                         |                        |     |       |                 |              |               |                                                |                                        |       | <b>REVIEWED BY:</b> Duane Lenhardt     |                          |   |                                                                                            |
|                                                         |                        |     |       |                 |              |               |                                                |                                        |       | <b>*Photoionization Detector (PPM)</b> |                          |   |                                                                                            |
| SAMPLE                                                  |                        |     |       |                 |              |               |                                                |                                        |       | DESCRIPTION                            |                          |   |                                                                                            |
| DEPTH<br>FEET                                           | STRATA                 | NO. | TYPE  | BLOWS<br>PER 6" | REC%<br>RQD% | COLOR         | CONSIST<br>HARD                                | MATERIAL                               | USCS  | PID*                                   | REMARKS                  |   |                                                                                            |
| 2                                                       |                        | 1** | MC    |                 | 63%          | Tan           | Loose                                          | 0"-3": CONCRETE                        |       | 1138.0                                 | Moist<br>Odor<br>Present |   |                                                                                            |
|                                                         |                        |     |       |                 |              | ↓             | 3"-3.2": FILL - silt, sand, gravel and C&D mix | 746.0                                  |       |                                        |                          |   |                                                                                            |
| 3                                                       |                        |     |       |                 |              | Dk. Stained   | ↓                                              |                                        |       | 498.0                                  |                          |   |                                                                                            |
| 4                                                       |                        |     |       |                 |              | Medium Brown  | Medium Dense                                   | 3.2'-5.5': SILT, some-little fine sand | ML    | 442.0                                  | ↓                        |   |                                                                                            |
| 5                                                       |                        |     |       |                 |              | Dark Staining | to Dense                                       | ↓                                      | 690.0 |                                        |                          |   |                                                                                            |
| 6                                                       |                        |     |       |                 |              | 2             | MC                                             |                                        | 93%   | Medium Brown                           |                          | ↓ | 5.5'-8': Fine sandy SILT, grading to Silty fine SAND, little medium-fine subangular gravel |
| 7                                                       | ↓                      | ↓   | 216.0 |                 |              |               |                                                |                                        |       |                                        |                          |   |                                                                                            |
| 8                                                       | SM                     | ↓   | 100.0 | Wet @<br>7' BGS |              |               |                                                |                                        |       |                                        |                          |   |                                                                                            |
| 10                                                      | End of Boring @ 8' BGS |     |       |                 |              |               |                                                |                                        |       |                                        |                          |   |                                                                                            |
| 12                                                      |                        |     |       |                 |              |               |                                                |                                        |       |                                        |                          |   |                                                                                            |
| 14                                                      |                        |     |       |                 |              |               |                                                |                                        |       |                                        |                          |   |                                                                                            |
| 16                                                      |                        |     |       |                 |              |               |                                                |                                        |       |                                        |                          |   |                                                                                            |
| 18                                                      |                        |     |       |                 |              |               |                                                |                                        |       |                                        |                          |   |                                                                                            |

**Comments:** Boring advanced using direct push method via Geoprobe® 5400

\*\* - Soil sample: SB7-3"-1' @ 15:40

QA/QC: None

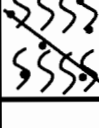
**PROJECT NO.** 11173884.00000

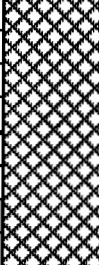
**BORING NO.** SB-7

| URS Corporation                                  |        |       |      |                 |              |              |                       |                                              |      | GEOPROBE LOG                    |      |                     |  |                             |  |
|--------------------------------------------------|--------|-------|------|-----------------|--------------|--------------|-----------------------|----------------------------------------------|------|---------------------------------|------|---------------------|--|-----------------------------|--|
| PROJECT: Dinaburg Site, Pre-Design Investigation |        |       |      |                 |              |              |                       |                                              |      | BORING NO: SB-8                 |      |                     |  |                             |  |
| CLIENT: NYSDEC                                   |        |       |      |                 |              |              |                       |                                              |      | SHEET: 1 of 1                   |      |                     |  |                             |  |
| BORING CONTRACTOR: GeoLogic of NY                |        |       |      |                 |              |              |                       |                                              |      | JOB NO.: 11173884.00000         |      |                     |  |                             |  |
| GROUNDWATER:                                     |        |       |      |                 |              |              |                       |                                              |      | BORING LOCATION: See Site Map   |      |                     |  |                             |  |
|                                                  |        |       |      |                 |              | CAS.         | SAMPLER               | CORE                                         | TUBE | GROUND ELEVATION: 513.5         |      |                     |  |                             |  |
| DATE                                             | TIME   | LEVEL | TYPE | TYPE            |              |              | macrocore             |                                              |      | DATE STARTED: 10/14/04          |      |                     |  |                             |  |
|                                                  |        |       |      | DIA.            |              |              | 2-inch                |                                              |      | DATE FINISHED: 10/14/04         |      |                     |  |                             |  |
|                                                  |        |       |      | WT.             |              |              | ---                   |                                              |      | DRILLER: Judd Powell            |      |                     |  |                             |  |
|                                                  |        |       |      | FALL            |              |              | ---                   |                                              |      | GEOLOGIST: Kevin J. McGovern    |      |                     |  |                             |  |
|                                                  |        |       |      |                 |              |              |                       |                                              |      | *Photoionization Detector (PPM) |      |                     |  | REVIEWED BY: Duane Lenhardt |  |
| DEPTH<br>FEET                                    | SAMPLE |       |      |                 |              |              | DESCRIPTION           |                                              |      |                                 | USCS | REMARKS             |  |                             |  |
|                                                  | STRATA | NO.   | TYPE | BLOWS<br>PER 6" | REC%<br>RQD% | COLOR        | CONSIST<br>HARD       | MATERIAL                                     |      | PID*                            |      |                     |  |                             |  |
| 2                                                |        | 1     | MC   |                 | 73%          | Medium Brown | Loose                 | 0'-3': FILL - silt, sand, gravel and C&D mix |      |                                 | 0.0  | Moist<br>No<br>Odor |  |                             |  |
| 3                                                |        |       |      |                 |              |              | ↓                     | ↓                                            | 0.0  |                                 |      |                     |  |                             |  |
| 4                                                |        |       |      |                 |              |              | ↓                     | ↓                                            | 0.0  |                                 |      |                     |  |                             |  |
| 6                                                |        | 2**   | MC   |                 | 75%          |              | Medium Dense to Dense | 3'-8': Silty fine SAND                       |      | SM                              | 0.0  | Wet @<br>6' BGS     |  |                             |  |
| 7                                                |        |       |      |                 |              |              | ↓                     | ↓                                            | 0.0  |                                 |      |                     |  |                             |  |
| 8                                                |        |       |      |                 |              |              | ↓                     | ↓                                            | 0.0  |                                 |      |                     |  |                             |  |
| 10                                               |        |       |      |                 |              |              |                       | End of Boring @ 8' BGS                       |      |                                 |      |                     |  |                             |  |
| 12                                               |        |       |      |                 |              |              |                       |                                              |      |                                 |      |                     |  |                             |  |
| 14                                               |        |       |      |                 |              |              |                       |                                              |      |                                 |      |                     |  |                             |  |
| 16                                               |        |       |      |                 |              |              |                       |                                              |      |                                 |      |                     |  |                             |  |
| 18                                               |        |       |      |                 |              |              |                       |                                              |      |                                 |      |                     |  |                             |  |

|           |                                                             |             |                |
|-----------|-------------------------------------------------------------|-------------|----------------|
| Comments: | Boring advanced using direct push method via Geoprobe® 5400 | PROJECT NO. | 11173884.00000 |
|           | ** - Soil sample: SB8-5'-6' @ 09:40                         | BORING NO.  | SB-8           |
|           | QA/QC: None                                                 |             |                |
|           | PID Reacting to High Humidity                               |             |                |

| URS Corporation                                                       |                                                                                   |     |      |                 |              |              |                 |                                                                            |  | GEOPROBE LOG               |         |                     |       |      |  |      |  |                                 |  |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----|------|-----------------|--------------|--------------|-----------------|----------------------------------------------------------------------------|--|----------------------------|---------|---------------------|-------|------|--|------|--|---------------------------------|--|
| PROJECT: Dinaburg Site, Pre-Design Investigation                      |                                                                                   |     |      |                 |              |              |                 |                                                                            |  | BORING NO: SB-9            |         |                     |       |      |  |      |  |                                 |  |
| CLIENT: NYSDEC                                                        |                                                                                   |     |      |                 |              |              |                 |                                                                            |  | SHEET: 1 of 1              |         |                     |       |      |  |      |  |                                 |  |
| BORING CONTRACTOR: GeoLogic of NY                                     |                                                                                   |     |      |                 |              |              |                 |                                                                            |  | JOB NO.: 11173884.00000    |         |                     |       |      |  |      |  |                                 |  |
| GROUNDWATER:                                                          |                                                                                   |     |      |                 |              |              |                 |                                                                            |  | CAS.                       |         | SAMPLER             |       | CORE |  | TUBE |  | BORING LOCATION: See Site Map   |  |
| DATE                                                                  |                                                                                   |     |      |                 |              |              |                 |                                                                            |  | TIME                       |         | LEVEL               |       | TYPE |  | TYPE |  | GROUND ELEVATION: 513.9         |  |
|                                                                       |                                                                                   |     |      |                 |              |              |                 |                                                                            |  |                            |         |                     |       |      |  |      |  | DATE STARTED: 10/14/04          |  |
|                                                                       |                                                                                   |     |      |                 |              |              |                 |                                                                            |  |                            |         |                     |       |      |  |      |  | DATE FINISHED: 10/14/04         |  |
|                                                                       |                                                                                   |     |      |                 |              |              |                 |                                                                            |  |                            |         |                     |       |      |  |      |  | DRILLER: Judd Powell            |  |
|                                                                       |                                                                                   |     |      |                 |              |              |                 |                                                                            |  |                            |         |                     |       |      |  |      |  | GEOLOGIST: Kevin J. McGovern    |  |
|                                                                       |                                                                                   |     |      |                 |              |              |                 |                                                                            |  |                            |         |                     |       |      |  |      |  | REVIEWED BY: Duane Lenhardt     |  |
|                                                                       |                                                                                   |     |      |                 |              |              |                 |                                                                            |  |                            |         |                     |       |      |  |      |  | *Photoionization Detector (PPM) |  |
| DEPTH<br>FEET                                                         | SAMPLE                                                                            |     |      |                 |              |              | DESCRIPTION     |                                                                            |  |                            | REMARKS |                     |       |      |  |      |  |                                 |  |
|                                                                       | STRATA                                                                            | NO. | TYPE | BLOWS<br>PER 6" | REC%<br>RQD% | COLOR        | CONSIST<br>HARD | MATERIAL                                                                   |  | USCS                       | PID*    |                     |       |      |  |      |  |                                 |  |
| 2                                                                     |  | 1** | MC   |                 | 73%          | Tan          | Loose           | 0"-3": CONCRETE                                                            |  |                            | 40.2    | Moist<br>No<br>Odor |       |      |  |      |  |                                 |  |
| 3                                                                     |                                                                                   |     |      |                 |              |              |                 | 3"-3": FILL - silt, sand, gravel and C&D mix                               |  |                            |         |                     | 17.4  |      |  |      |  |                                 |  |
| 4                                                                     |                                                                                   |     |      |                 |              |              |                 | 3'-6": Silty fine SAND, little fine angular gravel                         |  |                            | SM      |                     | 0.0   |      |  |      |  |                                 |  |
| 6                                                                     |  | 2   | MC   |                 | 100%         | Medium Brown | Medium Dense    |                                                                            |  |                            | 2.4     | Wet @<br>4' BGS     |       |      |  |      |  |                                 |  |
| 7                                                                     |                                                                                   |     |      |                 |              |              |                 | 6'-7": Silty CLAY, little medium-fine anulagr gravel (TILL)                |  |                            | CL/ML   |                     | 128.0 |      |  |      |  |                                 |  |
| 8                                                                     |                                                                                   |     |      |                 |              |              |                 | 7'-8": Fine sandy SILT, some-little clay, little medium-fine gravel (TILL) |  |                            | ML      |                     | 96.0  |      |  |      |  |                                 |  |
| 10                                                                    |                                                                                   |     |      |                 |              |              |                 | End of Boring @ 8' BGS                                                     |  |                            |         |                     |       |      |  |      |  |                                 |  |
| 12                                                                    |                                                                                   |     |      |                 |              |              |                 |                                                                            |  |                            |         |                     |       |      |  |      |  |                                 |  |
| 14                                                                    |                                                                                   |     |      |                 |              |              |                 |                                                                            |  |                            |         |                     |       |      |  |      |  |                                 |  |
| 16                                                                    |                                                                                   |     |      |                 |              |              |                 |                                                                            |  |                            |         |                     |       |      |  |      |  |                                 |  |
| 18                                                                    |                                                                                   |     |      |                 |              |              |                 |                                                                            |  |                            |         |                     |       |      |  |      |  |                                 |  |
| Comments: Boring advanced using direct push method via Geoprobe® 5400 |                                                                                   |     |      |                 |              |              |                 |                                                                            |  | PROJECT NO. 11173884.00000 |         |                     |       |      |  |      |  |                                 |  |
| ** - Soil sample: SB9-2'-3' @ 10:00                                   |                                                                                   |     |      |                 |              |              |                 |                                                                            |  | BORING NO. SB-9            |         |                     |       |      |  |      |  |                                 |  |
| QA/QC: None                                                           |                                                                                   |     |      |                 |              |              |                 |                                                                            |  |                            |         |                     |       |      |  |      |  |                                 |  |
| PID Reacting to High Humidity                                         |                                                                                   |     |      |                 |              |              |                 |                                                                            |  |                            |         |                     |       |      |  |      |  |                                 |  |

| <b>URS Corporation</b>                                                |                                                                                     |     |      |                 |                |              |        |                                                                            |          | <b>GEOPROBE LOG</b>                    |  |       |       |              |             |  |  |  |  |                                     |  |  |  |  |                               |  |  |  |  |
|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|------|-----------------|----------------|--------------|--------|----------------------------------------------------------------------------|----------|----------------------------------------|--|-------|-------|--------------|-------------|--|--|--|--|-------------------------------------|--|--|--|--|-------------------------------|--|--|--|--|
| <b>PROJECT:</b> Dinaburg Site, Pre-Design Investigation               |                                                                                     |     |      |                 |                |              |        |                                                                            |          | <b>BORING NO:</b> SB-10                |  |       |       |              |             |  |  |  |  |                                     |  |  |  |  |                               |  |  |  |  |
| <b>CLIENT:</b> NYSDEC                                                 |                                                                                     |     |      |                 |                |              |        |                                                                            |          | <b>SHEET:</b> 1 of 1                   |  |       |       |              |             |  |  |  |  |                                     |  |  |  |  |                               |  |  |  |  |
| <b>BORING CONTRACTOR:</b> GeoLogic of NY                              |                                                                                     |     |      |                 |                |              |        |                                                                            |          | <b>JOB NO.:</b> 11173884.00000         |  |       |       |              |             |  |  |  |  |                                     |  |  |  |  |                               |  |  |  |  |
| <b>GROUNDWATER:</b>                                                   |                                                                                     |     |      |                 |                |              |        |                                                                            |          | <b>BORING LOCATION:</b> See Site Map   |  |       |       |              |             |  |  |  |  |                                     |  |  |  |  |                               |  |  |  |  |
| <b>CAS.</b>                                                           |                                                                                     |     |      |                 | <b>SAMPLER</b> |              |        |                                                                            |          | <b>CORE</b>                            |  |       |       |              | <b>TUBE</b> |  |  |  |  | <b>GROUND ELEVATION:</b> 514.3      |  |  |  |  |                               |  |  |  |  |
| <b>DATE</b>                                                           |                                                                                     |     |      |                 | <b>TIME</b>    |              |        |                                                                            |          | <b>LEVEL</b>                           |  |       |       |              | <b>TYPE</b> |  |  |  |  | <b>TYPE</b>                         |  |  |  |  | <b>DATE STARTED:</b> 10/13/04 |  |  |  |  |
|                                                                       |                                                                                     |     |      |                 |                |              |        |                                                                            |          |                                        |  |       |       |              |             |  |  |  |  | <b>DATE FINISHED:</b> 10/13/04      |  |  |  |  |                               |  |  |  |  |
|                                                                       |                                                                                     |     |      |                 | <b>DIA.</b>    |              |        |                                                                            |          | 2-inch                                 |  |       |       |              |             |  |  |  |  | <b>DRILLER:</b> Judd Powell         |  |  |  |  |                               |  |  |  |  |
|                                                                       |                                                                                     |     |      |                 | <b>WT.</b>     |              |        |                                                                            |          | ---                                    |  |       |       |              |             |  |  |  |  | <b>GEOLOGIST:</b> Kevin J. McGovern |  |  |  |  |                               |  |  |  |  |
|                                                                       |                                                                                     |     |      |                 | <b>FALL</b>    |              |        |                                                                            |          | ---                                    |  |       |       |              |             |  |  |  |  | <b>REVIEWED BY:</b> Duane Lenhardt  |  |  |  |  |                               |  |  |  |  |
|                                                                       |                                                                                     |     |      |                 |                |              |        |                                                                            |          | <b>*Photoionization Detector (PPM)</b> |  |       |       |              |             |  |  |  |  |                                     |  |  |  |  |                               |  |  |  |  |
| SAMPLE                                                                |                                                                                     |     |      |                 |                |              |        |                                                                            |          | DESCRIPTION                            |  |       |       |              |             |  |  |  |  | REMARKS                             |  |  |  |  |                               |  |  |  |  |
| DEPTH<br>FEET                                                         | STRATA                                                                              | NO. | TYPE | BLOWS<br>PER 6" |                | REC%<br>RQD% | COLOR  | CONSIST<br>HARD                                                            | MATERIAL |                                        |  |       | USCS  | PID*         |             |  |  |  |  |                                     |  |  |  |  |                               |  |  |  |  |
| 2                                                                     |    | 1** | MC   | 73%             |                | Tan          | Loose  | 0"-3": CONCRETE<br>3"-2': FILL - silt, sand, gravel and C&D mix            |          |                                        |  |       | 584.0 | Moist        |             |  |  |  |  |                                     |  |  |  |  |                               |  |  |  |  |
|                                                                       |                                                                                     |     |      |                 |                |              | Dark   | ↓                                                                          | ↓        |                                        |  |       |       | 1390.0       | Odor        |  |  |  |  |                                     |  |  |  |  |                               |  |  |  |  |
| 3                                                                     |    |     |      |                 |                | Dark Stained | Medium | 2'-6": Silty fine SAND, little medium-fine angular                         |          |                                        |  | SM    | 494.0 | Present      |             |  |  |  |  |                                     |  |  |  |  |                               |  |  |  |  |
| 4                                                                     |   |     |      |                 |                | Medium Brown | Dense  | gravel                                                                     |          |                                        |  | ↓     | 480.0 |              |             |  |  |  |  |                                     |  |  |  |  |                               |  |  |  |  |
| 6                                                                     |  | 2   | MC   | 85%             |                | ↓            | ↓      | ↓                                                                          |          |                                        |  | ↓     | 224.0 |              |             |  |  |  |  |                                     |  |  |  |  |                               |  |  |  |  |
| 7                                                                     |  |     |      |                 |                | Reddish      | Stiff  | 6'-6.2": Medium-coarse SAND                                                |          |                                        |  | SW    | 121.0 | ↓            |             |  |  |  |  |                                     |  |  |  |  |                               |  |  |  |  |
| 8                                                                     |  |     |      |                 |                | Brown        |        | 6.2'-8": SILT, some clay, little medium-fine gravel trace fine sand (TILL) |          |                                        |  | ML/CL | 60.0  | Wet @ 7' BGS |             |  |  |  |  |                                     |  |  |  |  |                               |  |  |  |  |
| 10                                                                    |                                                                                     |     |      |                 |                |              |        | End of Boring @ 8' BGS                                                     |          |                                        |  |       |       |              |             |  |  |  |  |                                     |  |  |  |  |                               |  |  |  |  |
| 12                                                                    |                                                                                     |     |      |                 |                |              |        |                                                                            |          |                                        |  |       |       |              |             |  |  |  |  |                                     |  |  |  |  |                               |  |  |  |  |
| 14                                                                    |                                                                                     |     |      |                 |                |              |        |                                                                            |          |                                        |  |       |       |              |             |  |  |  |  |                                     |  |  |  |  |                               |  |  |  |  |
| 16                                                                    |                                                                                     |     |      |                 |                |              |        |                                                                            |          |                                        |  |       |       |              |             |  |  |  |  |                                     |  |  |  |  |                               |  |  |  |  |
| 18                                                                    |                                                                                     |     |      |                 |                |              |        |                                                                            |          |                                        |  |       |       |              |             |  |  |  |  |                                     |  |  |  |  |                               |  |  |  |  |
| Comments: Boring advanced using direct push method via Geoprobe® 5400 |                                                                                     |     |      |                 |                |              |        |                                                                            |          | <b>PROJECT NO.</b> 11173884.00000      |  |       |       |              |             |  |  |  |  |                                     |  |  |  |  |                               |  |  |  |  |
| ** - Soil sample; SB10-1'-2' @ 16:10                                  |                                                                                     |     |      |                 |                |              |        |                                                                            |          | <b>BORING NO.</b> SB-10                |  |       |       |              |             |  |  |  |  |                                     |  |  |  |  |                               |  |  |  |  |
| QA/QC: None                                                           |                                                                                     |     |      |                 |                |              |        |                                                                            |          |                                        |  |       |       |              |             |  |  |  |  |                                     |  |  |  |  |                               |  |  |  |  |

| URS Corporation                                                       |                                                                                     |       |      |                 |                                 |                           |                 |                                                                                |                                | GEOPROBE LOG                  |                          |  |  |
|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|------|-----------------|---------------------------------|---------------------------|-----------------|--------------------------------------------------------------------------------|--------------------------------|-------------------------------|--------------------------|--|--|
| PROJECT: Dinaburg Site, Pre-Design Investigation                      |                                                                                     |       |      |                 |                                 |                           |                 |                                                                                |                                | BORING NO: SB-11              |                          |  |  |
| CLIENT: NYSDEC                                                        |                                                                                     |       |      |                 |                                 |                           |                 |                                                                                |                                | SHEET: 1 of 1                 |                          |  |  |
| BORING CONTRACTOR: GeoLogic of NY                                     |                                                                                     |       |      |                 |                                 |                           |                 |                                                                                |                                | JOB NO.: 11173884.00000       |                          |  |  |
| GROUNDWATER:                                                          |                                                                                     |       |      |                 |                                 |                           |                 |                                                                                |                                | BORING LOCATION: See Site Map |                          |  |  |
|                                                                       |                                                                                     |       |      |                 | CAS.                            | SAMPLER                   | CORE            | TUBE                                                                           | GROUND ELEVATION: See Site Map |                               |                          |  |  |
| DATE                                                                  | TIME                                                                                | LEVEL | TYPE | TYPE            |                                 | macrocore                 |                 |                                                                                | DATE STARTED: 10/13/04         |                               |                          |  |  |
|                                                                       |                                                                                     |       |      | DIA.            |                                 | 2-inch                    |                 |                                                                                | DATE FINISHED: 10/13/04        |                               |                          |  |  |
|                                                                       |                                                                                     |       |      | WT.             |                                 | ---                       |                 |                                                                                | DRILLER: Judd Powell           |                               |                          |  |  |
|                                                                       |                                                                                     |       |      | FALL            |                                 | ---                       |                 |                                                                                | GEOLOGIST: Kevin J. McGovern   |                               |                          |  |  |
|                                                                       |                                                                                     |       |      |                 | *Photoionization Detector (PPM) |                           |                 |                                                                                | REVIEWED BY: 514.3             |                               |                          |  |  |
| SAMPLE                                                                |                                                                                     |       |      |                 |                                 |                           |                 |                                                                                |                                | DESCRIPTION                   |                          |  |  |
| DEPTH<br>FEET                                                         | STRATA                                                                              | NO.   | TYPE | BLOWS<br>PER 6" | REC%<br>RQD%                    | COLOR                     | CONSIST<br>HARD | MATERIAL                                                                       | USCS                           | PID*                          | REMARKS                  |  |  |
| 2                                                                     |    | 1**   | MC   |                 | 38%                             | Dark<br>Brown/<br>Stained | Loose           | 0"-3": CONCRETE<br>3"-2": FILL - silt, sand, gravel and C&D mix                |                                | NA                            | Moist<br>Odor<br>Present |  |  |
| 3                                                                     |                                                                                     |       |      |                 |                                 |                           |                 |                                                                                |                                |                               |                          |  |  |
| 4                                                                     |                                                                                     |       |      |                 |                                 |                           |                 |                                                                                |                                |                               |                          |  |  |
| 6                                                                     |                                                                                     |       |      |                 |                                 |                           |                 |                                                                                |                                |                               |                          |  |  |
| 6                                                                     |   | 2     | MC   |                 | 0%                              | No<br>Recovery            | No<br>Recovery  | No Recovery                                                                    |                                | NA                            |                          |  |  |
| 8                                                                     |                                                                                     |       |      |                 |                                 |                           |                 |                                                                                |                                |                               |                          |  |  |
| 10                                                                    |                                                                                     |       |      |                 |                                 |                           |                 |                                                                                |                                |                               |                          |  |  |
| 11                                                                    |                                                                                     |       |      |                 |                                 |                           |                 |                                                                                |                                |                               |                          |  |  |
| 10                                                                    |  | 3     | MC   |                 | 55%                             | Medium<br>Brown           | Medium<br>Dense | 8'-11.1': Fine sandy SILT, little fine angular gravel                          | ML/SM                          | 209.0                         | Wet @<br>8' BGS          |  |  |
| 11                                                                    |                                                                                     |       |      |                 |                                 |                           |                 |                                                                                |                                |                               |                          |  |  |
| 12                                                                    |                                                                                     |       |      |                 |                                 |                           |                 |                                                                                |                                |                               |                          |  |  |
| 14                                                                    |                                                                                     |       |      |                 |                                 |                           |                 |                                                                                |                                |                               |                          |  |  |
| 12                                                                    |  |       |      |                 |                                 | Red Brown                 |                 | 11.1'-12': SILT, some clay, little fine sand and medium to fine angular gravel | ML                             | 384.0                         |                          |  |  |
| 16                                                                    |                                                                                     |       |      |                 |                                 |                           |                 |                                                                                |                                |                               |                          |  |  |
| 18                                                                    |                                                                                     |       |      |                 |                                 |                           |                 |                                                                                |                                |                               |                          |  |  |
|                                                                       |                                                                                     |       |      |                 |                                 |                           |                 |                                                                                |                                |                               |                          |  |  |
| End of Boring @ 12' BGS                                               |                                                                                     |       |      |                 |                                 |                           |                 |                                                                                |                                |                               |                          |  |  |
| Comments: Boring advanced using direct push method via Geoprobe® 5400 |                                                                                     |       |      |                 |                                 |                           |                 |                                                                                |                                | PROJECT NO. 11173884.00000    |                          |  |  |
| ** - Soil sample: SB11-3'-4' @ 15:20                                  |                                                                                     |       |      |                 |                                 |                           |                 |                                                                                |                                | BORING NO. SB-11              |                          |  |  |
| QA/QC: None                                                           |                                                                                     |       |      |                 |                                 |                           |                 |                                                                                |                                |                               |                          |  |  |

| URS Corporation                                                       |                                                                                     |     |      |                 |              |               |                 |                                                            |       | GEOPROBE LOG            |                          |                |  |      |  |      |  |                                 |  |
|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|------|-----------------|--------------|---------------|-----------------|------------------------------------------------------------|-------|-------------------------|--------------------------|----------------|--|------|--|------|--|---------------------------------|--|
| PROJECT: Dinaburg Site, Pre-Design Investigation                      |                                                                                     |     |      |                 |              |               |                 |                                                            |       | BORING NO: SB-12        |                          |                |  |      |  |      |  |                                 |  |
| CLIENT: NYSDEC                                                        |                                                                                     |     |      |                 |              |               |                 |                                                            |       | SHEET: 1 of 1           |                          |                |  |      |  |      |  |                                 |  |
| BORING CONTRACTOR: GeoLogic of NY                                     |                                                                                     |     |      |                 |              |               |                 |                                                            |       | JOB NO.: 11173884.00000 |                          |                |  |      |  |      |  |                                 |  |
| GROUNDWATER:                                                          |                                                                                     |     |      |                 |              |               |                 |                                                            |       | CAS.                    |                          | SAMPLER        |  | CORE |  | TUBE |  | BORING LOCATION: See Site Map   |  |
| DATE                                                                  |                                                                                     |     |      |                 |              |               |                 |                                                            |       | TIME                    |                          | LEVEL          |  | TYPE |  | TYPE |  | GROUND ELEVATION: 514.5         |  |
|                                                                       |                                                                                     |     |      |                 |              |               |                 |                                                            |       |                         |                          |                |  |      |  |      |  | DATE STARTED: 10/13/04          |  |
|                                                                       |                                                                                     |     |      |                 |              |               |                 |                                                            |       |                         |                          |                |  |      |  |      |  | DATE FINISHED: 10/13/04         |  |
|                                                                       |                                                                                     |     |      |                 |              |               |                 |                                                            |       |                         |                          |                |  |      |  |      |  | DRILLER: Judd Powell            |  |
|                                                                       |                                                                                     |     |      |                 |              |               |                 |                                                            |       |                         |                          |                |  |      |  |      |  | GEOLOGIST: Kevin J. McGovern    |  |
|                                                                       |                                                                                     |     |      |                 |              |               |                 |                                                            |       |                         |                          |                |  |      |  |      |  | REVIEWED BY: Duane Lenhardt     |  |
|                                                                       |                                                                                     |     |      |                 |              |               |                 |                                                            |       |                         |                          |                |  |      |  |      |  | *Photoionization Detector (PPM) |  |
| SAMPLE                                                                |                                                                                     |     |      |                 |              |               |                 |                                                            |       | DESCRIPTION             |                          |                |  |      |  |      |  |                                 |  |
| DEPTH<br>FEET                                                         | STRATA                                                                              | NO. | TYPE | BLOWS<br>PER 6" | REC%<br>RQD% | COLOR         | CONSIST<br>HARD | MATERIAL                                                   | USCS  | REMARKS                 |                          |                |  |      |  |      |  |                                 |  |
|                                                                       |                                                                                     |     |      |                 |              |               |                 |                                                            |       | PID*                    |                          |                |  |      |  |      |  |                                 |  |
| 2                                                                     |    | 1** | MC   |                 | 53%          | Tan           | Loose           | 0"-3": CONCRETE                                            |       | 776.0                   | Moist<br>Odor<br>Present |                |  |      |  |      |  |                                 |  |
| 3                                                                     |                                                                                     |     |      |                 |              | Dark Stain    |                 | 3"-3.5': FILL - silt, sand, gravel and C&D mix             |       | 962.0                   |                          |                |  |      |  |      |  |                                 |  |
| 4                                                                     |                                                                                     |     |      |                 |              |               |                 |                                                            |       | 720.0                   |                          |                |  |      |  |      |  |                                 |  |
| 5                                                                     |   | 2   | MC   |                 | 100%         | Medium Brown  | Medium Dense    | 3.5'-5.5': Fine sandy SILT                                 | SM    | 286.0                   |                          |                |  |      |  |      |  |                                 |  |
| 6                                                                     |                                                                                     |     |      |                 |              |               |                 |                                                            | 614.0 |                         |                          |                |  |      |  |      |  |                                 |  |
| 7                                                                     |                                                                                     |     |      |                 |              |               |                 |                                                            | 202.0 |                         |                          |                |  |      |  |      |  |                                 |  |
| 8                                                                     |  |     |      |                 |              | Reddish Brown | Dense           | 5.5'-6': Silty fine SAND                                   | SM    | 393.0                   | Wet @<br>6.5' BGS        |                |  |      |  |      |  |                                 |  |
|                                                                       |                                                                                     |     |      |                 |              |               |                 | 6'-8': SILT, some fine sand, little medium-fine subangular | ML    | 1759.0                  |                          |                |  |      |  |      |  |                                 |  |
| 10                                                                    |                                                                                     |     |      |                 |              |               |                 | End of Boring @ 8' BGS                                     |       |                         |                          |                |  |      |  |      |  |                                 |  |
| 12                                                                    |                                                                                     |     |      |                 |              |               |                 |                                                            |       |                         |                          |                |  |      |  |      |  |                                 |  |
| 14                                                                    |                                                                                     |     |      |                 |              |               |                 |                                                            |       |                         |                          |                |  |      |  |      |  |                                 |  |
| 16                                                                    |                                                                                     |     |      |                 |              |               |                 |                                                            |       |                         |                          |                |  |      |  |      |  |                                 |  |
| 18                                                                    |                                                                                     |     |      |                 |              |               |                 |                                                            |       |                         |                          |                |  |      |  |      |  |                                 |  |
| Comments: Boring advanced using direct push method via Geoprobe® 5400 |                                                                                     |     |      |                 |              |               |                 |                                                            |       | PROJECT NO.             |                          | 11173884.00000 |  |      |  |      |  |                                 |  |
| ** - Soil sample: SB12-7'-8' @ 17:30                                  |                                                                                     |     |      |                 |              |               |                 |                                                            |       | BORING NO.              |                          | SB-12          |  |      |  |      |  |                                 |  |
| QA/QC: None                                                           |                                                                                     |     |      |                 |              |               |                 |                                                            |       |                         |                          |                |  |      |  |      |  |                                 |  |



| URS Corporation                                                       |                                                                                    |       |      |                 |              |                                              |                 |                                                                                                |                              | GEOPROBE LOG                  |                          |                |  |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------|-------|------|-----------------|--------------|----------------------------------------------|-----------------|------------------------------------------------------------------------------------------------|------------------------------|-------------------------------|--------------------------|----------------|--|
| PROJECT: Dinaburg Site, Pre-Design Investigation                      |                                                                                    |       |      |                 |              |                                              |                 |                                                                                                |                              | BORING NO: SB-13              |                          |                |  |
| CLIENT: NYSDEC                                                        |                                                                                    |       |      |                 |              |                                              |                 |                                                                                                |                              | SHEET: 1 of 1                 |                          |                |  |
| BORING CONTRACTOR: GeoLogic of NY                                     |                                                                                    |       |      |                 |              |                                              |                 |                                                                                                |                              | JOB NO.: 11173884.00000       |                          |                |  |
| GROUNDWATER:                                                          |                                                                                    |       |      |                 |              |                                              |                 |                                                                                                |                              | BORING LOCATION: See Site Map |                          |                |  |
|                                                                       |                                                                                    |       |      |                 | CAS.         | SAMPLER                                      | CORE            | TUBE                                                                                           | GROUND ELEVATION: 514.4      |                               |                          |                |  |
| DATE                                                                  | TIME                                                                               | LEVEL | TYPE | TYPE            |              | macrocore                                    |                 |                                                                                                | DATE STARTED: 10/14/04       |                               |                          |                |  |
|                                                                       |                                                                                    |       |      | DIA.            |              | 2-inch                                       |                 |                                                                                                | DATE FINISHED: 10/14/04      |                               |                          |                |  |
|                                                                       |                                                                                    |       |      | WT.             |              | ---                                          |                 |                                                                                                | DRILLER: Judd Powell         |                               |                          |                |  |
|                                                                       |                                                                                    |       |      | FALL            |              | ---                                          |                 |                                                                                                | GEOLOGIST: Kevin J. McGovern |                               |                          |                |  |
| *Photoionization Detector (PPM)                                       |                                                                                    |       |      |                 |              |                                              |                 |                                                                                                |                              | REVIEWED BY: Duane Lenhardt   |                          |                |  |
| SAMPLE                                                                |                                                                                    |       |      |                 |              |                                              |                 |                                                                                                |                              | DESCRIPTION                   |                          |                |  |
| DEPTH<br>FEET                                                         | STRATA                                                                             | NO.   | TYPE | BLOWS<br>PER 6" | REC%<br>RQD% | COLOR                                        | CONSIST<br>HARD | MATERIAL                                                                                       | USCS                         | PID*                          | REMARKS                  |                |  |
| 2                                                                     |   | 1     | MC   |                 | 63%          | Tan                                          | Loose           | 0"-3": CONCRETE                                                                                |                              | 130.0                         | Moist<br>Odor<br>Present |                |  |
|                                                                       |                                                                                    |       |      |                 |              | 3"-4": FILL - silt, sand, gravel and C&D mix |                 | 218.0                                                                                          |                              |                               |                          |                |  |
|                                                                       |                                                                                    |       |      |                 |              |                                              |                 | 195.0                                                                                          |                              |                               |                          |                |  |
| 4                                                                     |                                                                                    |       |      |                 |              | Medium Brown                                 |                 |                                                                                                |                              | 195.0                         |                          |                |  |
| 5                                                                     |  | 2**   | MC   |                 | 100%         |                                              | Stiff           | 4'-5.6': SILT, some to little fine sand, grading to silty fine SAND                            | ML<br>↓<br>SM                | 99.0                          | Wet @<br>7' BGS          |                |  |
| 6                                                                     |                                                                                    |       |      |                 |              |                                              |                 | 5.6'-6': Medium to coarse SAND, some fine sand                                                 | SW                           | 257.0                         |                          |                |  |
|                                                                       |                                                                                    |       |      |                 |              | Reddish Brown                                |                 | 6'-8': SILT, some clay, little fine sand and medium to fine gravel, grading to silty fine SAND | ML<br>↓<br>SM                | 467.0                         |                          |                |  |
| 8                                                                     |                                                                                    |       |      |                 |              |                                              |                 |                                                                                                | 1771.0                       |                               |                          |                |  |
| 10                                                                    |                                                                                    |       |      |                 |              |                                              |                 | End of Boring @ 8' BGS                                                                         |                              |                               |                          |                |  |
| 12                                                                    |                                                                                    |       |      |                 |              |                                              |                 |                                                                                                |                              |                               |                          |                |  |
| 14                                                                    |                                                                                    |       |      |                 |              |                                              |                 |                                                                                                |                              |                               |                          |                |  |
| 16                                                                    |                                                                                    |       |      |                 |              |                                              |                 |                                                                                                |                              |                               |                          |                |  |
| 18                                                                    |                                                                                    |       |      |                 |              |                                              |                 |                                                                                                |                              |                               |                          |                |  |
| Comments: Boring advanced using direct push method via Geoprobe® 5400 |                                                                                    |       |      |                 |              |                                              |                 |                                                                                                |                              | PROJECT NO.                   |                          | 11173884.00000 |  |
| ** - Soil sample: SB13-7'-8' @ 16:10                                  |                                                                                    |       |      |                 |              |                                              |                 |                                                                                                |                              | BORING NO.                    |                          | SB-13          |  |
| QA/QC: None                                                           |                                                                                    |       |      |                 |              |                                              |                 |                                                                                                |                              |                               |                          |                |  |
| PID Reacting to High Humidity                                         |                                                                                    |       |      |                 |              |                                              |                 |                                                                                                |                              |                               |                          |                |  |

| <b>URS Corporation</b>                                  |                                                                                     |              |             |                 |              |                                   |                      |                                                                 |                                     | <b>GEOPROBE LOG</b>                  |                               |  |  |
|---------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|-------------|-----------------|--------------|-----------------------------------|----------------------|-----------------------------------------------------------------|-------------------------------------|--------------------------------------|-------------------------------|--|--|
| <b>PROJECT:</b> Dinaburg Site, Pre-Design Investigation |                                                                                     |              |             |                 |              |                                   |                      |                                                                 |                                     | <b>BORING NO:</b> SB-14              |                               |  |  |
| <b>CLIENT:</b> NYSDEC                                   |                                                                                     |              |             |                 |              |                                   |                      |                                                                 |                                     | <b>SHEET:</b> 1 of 1                 |                               |  |  |
| <b>BORING CONTRACTOR:</b> GeoLogic of NY                |                                                                                     |              |             |                 |              |                                   |                      |                                                                 |                                     | <b>JOB NO.:</b> 11173884.00000       |                               |  |  |
| <b>GROUNDWATER:</b>                                     |                                                                                     |              |             |                 |              |                                   |                      |                                                                 |                                     | <b>BORING LOCATION:</b> See Site Map |                               |  |  |
|                                                         |                                                                                     |              |             |                 | <b>CAS.</b>  | <b>SAMPLER</b>                    | <b>CORE</b>          | <b>TUBE</b>                                                     | <b>GROUND ELEVATION:</b> 514.4      |                                      |                               |  |  |
| <b>DATE</b>                                             | <b>TIME</b>                                                                         | <b>LEVEL</b> | <b>TYPE</b> | <b>TYPE</b>     |              | macrocore                         |                      |                                                                 | <b>DATE STARTED:</b> 10/14/04       |                                      |                               |  |  |
|                                                         |                                                                                     |              |             | <b>DIA.</b>     |              | 2-inch                            |                      |                                                                 | <b>DATE FINISHED:</b> 10/14/04      |                                      |                               |  |  |
|                                                         |                                                                                     |              |             | <b>WT.</b>      |              | ---                               |                      |                                                                 | <b>DRILLER:</b> Judd Powell         |                                      |                               |  |  |
|                                                         |                                                                                     |              |             | <b>FALL</b>     |              | ---                               |                      |                                                                 | <b>GEOLOGIST:</b> Kevin J. McGovern |                                      |                               |  |  |
| <b>*Photoionization Detector (PPM)</b>                  |                                                                                     |              |             |                 |              |                                   |                      |                                                                 |                                     | <b>REVIEWED BY:</b> Duane Lenhardt   |                               |  |  |
| DEPTH<br>FEET                                           | SAMPLE                                                                              |              |             |                 |              | DESCRIPTION                       |                      |                                                                 |                                     |                                      | REMARKS                       |  |  |
|                                                         | STRATA                                                                              | NO.          | TYPE        | BLOWS<br>PER 6" | REC%<br>RQD% | COLOR                             | CONSIST<br>HARD      | MATERIAL                                                        | USCS                                | PID*                                 |                               |  |  |
| 2                                                       |    | 1            | MC          |                 | 55%          | Tan                               | Loose<br>↓           | 0"-3": CONCRETE<br>3"-2": FILL - silt, sand, gravel and C&D mix |                                     | NA                                   | Moist<br>Odor<br>Present<br>↓ |  |  |
| 4                                                       |                                                                                     |              |             |                 |              | Dark<br>Stained<br>Light<br>Brown | Medium<br>Dense<br>↓ | 2'-6": Silty fine SAND                                          |                                     | SM                                   | 43.0                          |  |  |
| 5                                                       |                                                                                     |              |             |                 |              | Medium<br>Brown<br>↓              |                      | ↓                                                               |                                     | 68.0                                 |                               |  |  |
| 6                                                       |                                                                                     |              |             |                 |              | Medium<br>Brown<br>↓              |                      | ↓                                                               |                                     | 222.0                                |                               |  |  |
| 8                                                       |  | 2**          | MC          |                 | 100%         | Medium<br>Brown<br>↓              | Dense<br>↓           | 6'-8": SILT, some fine sand, little medium to fine gravel       | ML<br>↓                             | 75.0                                 | Wet @<br>7' BGS               |  |  |
| 10                                                      |                                                                                     |              |             |                 |              | End of Boring @ 8' BGS            |                      |                                                                 |                                     |                                      |                               |  |  |
| 12                                                      |                                                                                     |              |             |                 |              |                                   |                      |                                                                 |                                     |                                      |                               |  |  |
| 14                                                      |                                                                                     |              |             |                 |              |                                   |                      |                                                                 |                                     |                                      |                               |  |  |
| 16                                                      |                                                                                     |              |             |                 |              |                                   |                      |                                                                 |                                     |                                      |                               |  |  |
| 18                                                      |                                                                                     |              |             |                 |              |                                   |                      |                                                                 |                                     |                                      |                               |  |  |

|                                                                                                                                                                        |                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| <b>Comments:</b> Boring advanced using direct push method via Geoprobe® 5400<br>** - Soil sample: SB14-4'-5' @ 08:35<br>QA/QC: MS/MSD<br>PID Reacting to High Humidity | <b>PROJECT NO.</b> 11173884.00000<br><b>BORING NO.</b> SB-14 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|

| <b>URS Corporation</b>                                                |        |             |      |                 |              |                |                     |                                                                   |                   | <b>GEOPROBE LOG</b>                                       |                        |                                     |                                   |  |
|-----------------------------------------------------------------------|--------|-------------|------|-----------------|--------------|----------------|---------------------|-------------------------------------------------------------------|-------------------|-----------------------------------------------------------|------------------------|-------------------------------------|-----------------------------------|--|
| <b>PROJECT:</b> Dinaburg Site, Pre-Design Investigation               |        |             |      |                 |              |                |                     |                                                                   |                   | <b>BORING NO:</b> SB-15                                   |                        |                                     |                                   |  |
| <b>CLIENT:</b> NYSDEC                                                 |        |             |      |                 |              |                |                     |                                                                   |                   | <b>SHEET:</b> 1 of 1                                      |                        |                                     |                                   |  |
| <b>BORING CONTRACTOR:</b> GeoLogic of NY                              |        |             |      |                 |              |                |                     |                                                                   |                   | <b>JOB NO.:</b> 11173884.00000                            |                        |                                     |                                   |  |
| <b>GROUNDWATER:</b>                                                   |        |             |      |                 |              |                |                     |                                                                   |                   | <b>BORING LOCATION:</b> See Site Map                      |                        |                                     |                                   |  |
| <b>CAS.</b>                                                           |        |             |      |                 |              | <b>SAMPLER</b> |                     | <b>CORE</b>                                                       |                   | <b>TUBE</b>                                               |                        | <b>GROUND ELEVATION:</b> 514.1      |                                   |  |
| <b>DATE</b>                                                           |        | <b>TIME</b> |      | <b>LEVEL</b>    |              | <b>TYPE</b>    |                     | <b>TYPE</b>                                                       |                   | <b>macrocore</b>                                          |                        | <b>DATE STARTED:</b> 10/13/04       |                                   |  |
|                                                                       |        |             |      |                 |              | <b>DIA.</b>    |                     |                                                                   |                   | <b>2-inch</b>                                             |                        | <b>DATE FINISHED:</b> 10/13/04      |                                   |  |
|                                                                       |        |             |      |                 |              | <b>WT.</b>     |                     |                                                                   |                   | <b>---</b>                                                |                        | <b>DRILLER:</b> Judd Powell         |                                   |  |
|                                                                       |        |             |      |                 |              | <b>FALL</b>    |                     |                                                                   |                   | <b>---</b>                                                |                        | <b>GEOLOGIST:</b> Kevin J. McGovern |                                   |  |
| <b>*Photoionization Detector (PPM)</b>                                |        |             |      |                 |              |                |                     |                                                                   |                   | <b>REVIEWED BY:</b> Duane Lenhardt                        |                        |                                     |                                   |  |
| DEPTH<br>FEET                                                         | SAMPLE |             |      |                 |              |                | DESCRIPTION         |                                                                   |                   |                                                           |                        | REMARKS                             |                                   |  |
|                                                                       | STRATA | NO.         | TYPE | BLOWS<br>PER 6" | REC%<br>RQD% | COLOR          | CONSIST<br>HARD     | MATERIAL                                                          | USCS              | PID*                                                      |                        |                                     |                                   |  |
| 2                                                                     |        | 1           | MC   |                 | 63%          | Tan            | Loose<br>↓          | 0"-3": CONCRETE<br>3"-2.5': FILL - silt, sand, gravel and C&D mix |                   |                                                           | 166.0                  | Moist<br>Odor<br>Present<br>↓       |                                   |  |
| Dark Stained                                                          |        |             |      |                 |              | 216.0          |                     |                                                                   |                   |                                                           |                        |                                     |                                   |  |
| 3                                                                     |        |             |      |                 |              | Reddish Brown  |                     |                                                                   |                   |                                                           |                        |                                     | 196.0                             |  |
| 4                                                                     |        | 2**         | MC   |                 | 100%         | Medium Brown   | ↓<br><br>↓<br><br>↓ | 2.5'-8": Silty fine SAND<br><br>4'-8": Grading to fine sandy SILT | SM<br>↓<br><br>ML | >9999<br><br>>9999<br><br>>9999<br><br>>9999<br><br>>9999 | Wet @<br>6.5' BGS<br>↓ |                                     |                                   |  |
| 6                                                                     |        |             |      |                 |              |                |                     |                                                                   |                   |                                                           |                        |                                     |                                   |  |
| 8                                                                     |        |             |      |                 |              |                |                     |                                                                   |                   |                                                           |                        |                                     |                                   |  |
| 10                                                                    |        |             |      |                 |              |                |                     |                                                                   |                   |                                                           |                        |                                     |                                   |  |
| 12                                                                    |        |             |      |                 |              |                |                     |                                                                   |                   |                                                           |                        |                                     |                                   |  |
| 14                                                                    |        |             |      |                 |              |                |                     |                                                                   |                   |                                                           |                        |                                     |                                   |  |
| 16                                                                    |        |             |      |                 |              |                |                     |                                                                   |                   |                                                           |                        |                                     |                                   |  |
| 18                                                                    |        |             |      |                 |              |                |                     |                                                                   |                   |                                                           |                        |                                     |                                   |  |
| 20                                                                    |        |             |      |                 |              |                |                     |                                                                   |                   |                                                           |                        |                                     |                                   |  |
| End of Boring @ 8' BGS                                                |        |             |      |                 |              |                |                     |                                                                   |                   |                                                           |                        |                                     |                                   |  |
| Comments: Boring advanced using direct push method via Geoprobe® 5400 |        |             |      |                 |              |                |                     |                                                                   |                   |                                                           |                        |                                     | <b>PROJECT NO.</b> 11173884.00000 |  |
| ** - Soil sample: SB15-5'-6' @ 16:35                                  |        |             |      |                 |              |                |                     |                                                                   |                   |                                                           |                        |                                     | <b>BORING NO.</b> SB-15           |  |
| QA/QC: None                                                           |        |             |      |                 |              |                |                     |                                                                   |                   |                                                           |                        |                                     |                                   |  |

| URS Corporation                                                       |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  | GEOPROBE LOG                  |                               |  |  |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------|-------|------|-----------------|--------------|----------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------|-------------------------------|--|--|
| PROJECT: Dinaburg Site, Pre-Design Investigation                      |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  | BORING NO: SB-16              |                               |  |  |
| CLIENT: NYSDEC                                                        |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  | SHEET: 1 of 1                 |                               |  |  |
| BORING CONTRACTOR: GeoLogic of NY                                     |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  | JOB NO.: 11173884.00000       |                               |  |  |
| GROUNDWATER:                                                          |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  | BORING LOCATION: See Site Map |                               |  |  |
|                                                                       |                                                                                    |       |      |                 | CAS.         | SAMPLER              | CORE                          | TUBE                                                                                                                                                                                                                  | GROUND ELEVATION: 513.7          |                               |                               |  |  |
| DATE                                                                  | TIME                                                                               | LEVEL | TYPE | TYPE            |              | macrocore            |                               |                                                                                                                                                                                                                       | DATE STARTED: 10/14/04           |                               |                               |  |  |
|                                                                       |                                                                                    |       |      | DIA.            |              | 2-inch               |                               |                                                                                                                                                                                                                       | DATE FINISHED: 10/14/04          |                               |                               |  |  |
|                                                                       |                                                                                    |       |      | WT.             |              | ---                  |                               |                                                                                                                                                                                                                       | DRILLER: Judd Powell             |                               |                               |  |  |
|                                                                       |                                                                                    |       |      | FALL            |              | ---                  |                               |                                                                                                                                                                                                                       | GEOLOGIST: Kevin J. McGovern     |                               |                               |  |  |
| *Photoionization Detector (PPM)                                       |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  | REVIEWED BY: Duane Lenhardt   |                               |  |  |
| SAMPLE                                                                |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  | DESCRIPTION                   |                               |  |  |
| DEPTH<br>FEET                                                         | STRATA                                                                             | NO.   | TYPE | BLOWS<br>PER 6" | REC%<br>RQD% | COLOR                | CONSIST<br>HARD               | MATERIAL                                                                                                                                                                                                              | USCS                             | REMARKS                       |                               |  |  |
|                                                                       |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  | PID*                          |                               |  |  |
|                                                                       |   | 1     | MC   |                 | 88%          | Tan                  | Loose<br>↓                    | 0'-3.5': FILL -<br>0'-0.5': Topsoil<br>0.5'-3.5': Sand gravel silt mix                                                                                                                                                |                                  | 0.0                           | Moist<br>Odor<br>Present<br>↓ |  |  |
|                                                                       |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  | 0.0                           |                               |  |  |
| 2                                                                     |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  | 0.0                           |                               |  |  |
| 3                                                                     |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  | 0.0                           |                               |  |  |
| 4                                                                     |  | 2**   | MC   |                 | 98%          | Medium<br>Brown<br>↓ | Med. Dense<br>↓<br>Dense<br>↓ | 3.5'-6': Silty fine SAND, little medium-fine gravel<br><br>6'-7': Fine sandy SILT, little medium-fine subangular gravel (TILL)<br>7'-7.5': Coarse-medium-fine SAND<br>7.5'-8': Silty fine SAND, some-little mf gravel | SM<br>↓<br><br>ML/SM<br>SW<br>SM | 0.0                           | 400.0<br><br>78.3             |  |  |
|                                                                       |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  | 0.0                           |                               |  |  |
|                                                                       |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  | 0.0                           |                               |  |  |
| 6                                                                     |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  | 0.0                           |                               |  |  |
| 7                                                                     |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  |                               |                               |  |  |
| 8                                                                     |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  |                               |                               |  |  |
| End of Boring @ 8' BGS                                                |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  |                               |                               |  |  |
| 10                                                                    |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  |                               |                               |  |  |
| 12                                                                    |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  |                               |                               |  |  |
| 14                                                                    |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  |                               |                               |  |  |
| 16                                                                    |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  |                               |                               |  |  |
| 18                                                                    |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  |                               |                               |  |  |
| Comments: Boring advanced using direct push method via Geoprobe® 5400 |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  | PROJECT NO. 11173884.00000    |                               |  |  |
| ** - Soil sample: SB16-6'-7' @ 10:30                                  |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  | BORING NO. SB-16              |                               |  |  |
| QA/QC: None                                                           |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  |                               |                               |  |  |
| PID Reacting to High Humidity                                         |                                                                                    |       |      |                 |              |                      |                               |                                                                                                                                                                                                                       |                                  |                               |                               |  |  |

**APPENDIX B**  
**LABORATORY DATA**

**DATA USABILITY SUMMARY REPORT**

**FORMER DINABURG DISTRIBUTING, INC.**

**SITE ID# D003825 WA#26**

**CITY OF ROCHESTER**

**MONROE COUNTY, NEW YORK**

**Analyses Performed by:**

**COMPUCHEM**

**CARY, NORTH CAROLINA**

**Prepared by:**

**URS CORPORATION**

**77 GOODELL STREET**

**BUFFALO, NY 14203**

**DECEMBER 2004**

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## TABLES (Following Text)

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| Table 1 | Summary of Data Qualifications    |
| Table 2 | Validated Soil Analytical Results |

## ATTACHMENTS

|              |                                  |
|--------------|----------------------------------|
| Attachment A | Validated Sample Reporting Forms |
| Attachment B | Support Documentation            |

## **I. INTRODUCTION**

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *Guidance for the Development of Data Usability Summary Reports*, dated June 1999.

## **II. ANALYTICAL METHODOLOGIES**

The data being evaluated are from the October 13, 2004 – October 14, 2004 sampling of 16 soil samples and two matrix spike/matrix spike duplicate pairs. The analytical laboratory that performed the analyses is CompuChem of Cary, NC. The soil samples were analyzed for volatile organic compounds (VOCs) following United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) Statement of Work (SOW) OLMO4.2.

Data validation was performed following the guidelines in the reference method and USEPA Region II *CLP Organics Data Review and Preliminary Review Validation Guidelines*, SOP HW-6, Rev. 12, March 2001.

Qualifications applied to the data include “J/UJ” (estimated concentration/estimated quantitation limit) and “U” (not detected). Definitions of USEPA data qualifiers are presented at the end of this text. A summary of data qualifications is presented on Table 1. The validated analytical results are presented on Table 2. Copies of the validated laboratory results (i.e., sample reporting forms) are presented in Attachment A. Documentation supporting the qualification of data is presented in Attachment B. Only analytical deviations affecting data usability are discussed in this report.

## **III. DATA DELIVERABLE COMPLETENESS**

NYSDEC Analytical Services Protocol (ASP) Superfund category deliverables were provided by the laboratory, which included all reporting forms and raw data necessary to fully evaluate and



verify the reported analytical results.

#### **IV. PRESERVATION/HOLDING TIMES/SAMPLE RECEIPT**

All samples were received by the laboratory intact, properly preserved and under proper chain-of-custody. The VOC analyses for several of the soil samples were performed after the 10 day holding time had expired. Those samples affected are noted on Table 1 and the results were qualified "J" or "UJ" for all compounds.

#### **V. NON-CONFORMANCES**

- Initial and Continuing Calibrations

The percent difference (%D) between the initial calibration (ICAL) average relative response factors (RRF) and the RRFs in one or more of the continuing calibrations (CCAL) exceeded 25% for the following VOCs: acetone, 2-hexanone, dichlorodifluoromethane, chloromethane, vinyl chloride, chloroethane, trichlorofluoromethane, 1,1,2-trichloro-1,2,2-trifluoroethane, 2-butanone, carbon tetrachloride, 4-methyl-2-pentanone, and/or 1,2-dibromo-3-chloropropane. The associated sample results for these compounds were qualified "UJ" as listed on Table 1.

Documentation supporting the qualification of data (i.e., Forms 5 and 7) is presented in Attachment B.

- Blank Contamination

The VOC method blank was detected for acetone. The detected result for acetone in sample SB-14 has been qualified "U" because the concentration is less than ten times the method blank concentration.

Documentation supporting the qualification of data (i.e., Form 1, Form 4) is presented in Attachment B.

- Surrogates/Internal Standards

The recovery of surrogate 1,2-dichloroethane-d4 was greater than the upper QC limit in sample SB-8. The detected results for methylene chloride, trichlorethene, and tetrachloroethane have been qualified "J." Non-detect results did not require qualifications.

Documentation supporting the qualification of data (i.e., Form 2) is presented in Attachment B.

## **VI. SAMPLE RESULTS AND REPORTING**

All quantitation/reporting limits were reported in accordance with method requirements and were adjusted for sample size, moisture content, and dilution factors.

The majority of samples required analysis at a medium level due to elevated levels of target compounds. The contract required quantitation limits (CRQLs) reported for non-detect compounds in the medium level analyses represent the lowest achievable at that level of dilution.

The original low level analyses of sample SB-8 exhibited a result for tetrachloroethene (PCE) that exceeded the calibration curve. PCE was not detected in the secondary dilution analysis of the sample. Using professional judgment, the result for PCE has been reported from the low level analysis and qualified "J" due to the calibration range exceedance.

Sample results reported from secondary dilution analyses were qualified "D." Results less than the quantitation/reporting limits were qualified "J" by the laboratory.

## **VII. SUMMARY**

All sample analyses were found to be compliant with the method criteria, except where

previously noted. Those results qualified "J/UJ" are considered conditionally usable. All other sample results are usable as reported. URS does not recommend the recollection of any samples at this time.

**Prepared By:** Ann Marie Kropovitch, Chemist



**Date:**

12/16/04

**Reviewed By:** James J. Lehn, Senior Chemist



**Date:**

12/16/04

## **DEFINITIONS OF USEPA DATA QUALIFIERS**

- U – The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
- J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- UJ – The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- R – The data are unusable. The sample results are rejected due to serious deficiencies in meeting quality control criteria. The analyte may or may not be present in the sample.

**TABLE 1**  
**SUMMARY OF DATA QUALIFICATIONS**

| <b>SAMPLE ID</b>                                                           | <b>FRACTION</b> | <b>ANALYTICAL DEVIATION</b>                                                                                                                                                                                                                                           | <b>QUALIFICATION</b>                                            |
|----------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| SB-2, SB-5, SB-7,<br>SB-9, SB-10, SB-11,<br>SB-12, SB-13, SB-<br>15, SB-16 | VOCs            | Analyzed outside of the 10 day holding time.                                                                                                                                                                                                                          | Qualify non-detect<br>results "UJ" and<br>detected results "J." |
| SB-8                                                                       | VOCs            | Tetrachloroethene result > calibration curve.                                                                                                                                                                                                                         | Qualify detected<br>result "J."                                 |
| SB-8                                                                       | VOCs            | %R of surrogate 1,2-dichloroethene-d4 > QC<br>limit                                                                                                                                                                                                                   | Qualify detected<br>results "J."                                |
| SB-1, SB-3, SB-8                                                           | VOCs            | CCAL %D > 25% for<br>dichlorodifluoromethane, chloromethane,<br>vinyl chloride, chloroethane,<br>trichlorofluoromethane, 1,1,2-trichloro-1,2,2-<br>trifluoroethane, 2-butanone, carbon<br>tetrachloride, 4-methyl-2-pentanone, and/or<br>1,2-dibromo-3-chloropropane. | Qualify non-detect<br>results "UJ."                             |
| SB-4, SB-6                                                                 | VOCs            | CCAL %D > 25% for acetone, chloroethane,<br>and 2-hexanone.                                                                                                                                                                                                           | Qualify non-detect<br>results "UJ."                             |
| SB-14                                                                      | VOCs            | CCAL %D > 25% for acetone and<br>chloromethane.                                                                                                                                                                                                                       | Qualify non-detect<br>results "UJ."                             |
| SB-14                                                                      | VOCs            | Method Blank detected for acetone.                                                                                                                                                                                                                                    | Quality "U" at the<br>detected value.                           |

**TABLE 2**  
**VALIDATED SOIL ANALYTICAL RESULTS**  
**FORMER DINABURG DISTRIBUTING, INC.**

| Location ID                            |       | SB-01    | SB-02    | SB-03    | SB-04     | SB-05     |
|----------------------------------------|-------|----------|----------|----------|-----------|-----------|
| Sample ID                              |       | SB-1     | SB-2     | SB-3     | SB-4      | SB-5      |
| Matrix                                 |       | Soil     | Soil     | Soil     | Soil      | Soil      |
| Depth Interval (ft)                    |       | -        | -        | -        | -         | -         |
| Date Sampled                           |       | 10/14/04 | 10/14/04 | 10/14/04 | 10/13/04  | 10/13/04  |
| Parameter                              | Units |          |          |          |           |           |
| <b>Volatile Organic Compounds</b>      |       |          |          |          |           |           |
| 1,1,1-Trichloroethane                  | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ |
| 1,1,2,2-Tetrachloroethane              | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ |
| 1,1,2-Trichloro-1,2,2-trifluoroethane  | UG/KG | 12 UJ    | 1,400 UJ | 13 UJ    | 36,000 U  | 62,000 UJ |
| 1,1,2-Trichloroethane                  | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ |
| 1,1-Dichloroethane                     | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ |
| 1,1-Dichloroethene                     | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ |
| 1,2,4-Trichlorobenzene                 | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 11,000 J  |
| 1,2-Dibromo-3-chloropropane            | UG/KG | 12 UJ    | 1,400 UJ | 13 UJ    | 36,000 U  | 62,000 UJ |
| 1,2-Dibromoethane (Ethylene Dibromide) | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ |
| 1,2-Dichlorobenzene                    | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ |
| 1,2-Dichloroethane                     | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ |
| 1,2-Dichloroethene (cis)               | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ |
| 1,2-Dichloroethene (trans)             | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ |
| 1,2-Dichloropropane                    | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ |
| 1,3-Dichlorobenzene                    | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ |
| 1,3-Dichloropropene (cis)              | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ |
| 1,3-Dichloropropene (trans)            | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ |
| 1,4-Dichlorobenzene                    | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ |
| 2-Hexanone                             | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 UJ | 62,000 UJ |
| 4-Methyl-2-Pentanone                   | UG/KG | 12 UJ    | 1,400 UJ | 13 UJ    | 36,000 U  | 62,000 UJ |
| Acetone                                | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 UJ | 62,000 UJ |
| Benzene                                | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ |
| Bromodichloromethane                   | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ |

Flags assigned during chemistry validation are shown.

MADE BY \_\_AMK\_12/15/04\_\_  
 CHECKED BY \_\_JL\_12/15/04\_\_

Detection Limits shown are PQL

**TABLE 2**  
**VALIDATED SOIL ANALYTICAL RESULTS**  
**FORMER DINABURG DISTRIBUTING, INC.**

| Location ID                       |       | SB-01    | SB-02    | SB-03    | SB-04     | SB-05       |
|-----------------------------------|-------|----------|----------|----------|-----------|-------------|
| Sample ID                         |       | SB-1     | SB-2     | SB-3     | SB-4      | SB-5        |
| Matrix                            |       | Soil     | Soil     | Soil     | Soil      | Soil        |
| Depth Interval (ft)               |       | -        | -        | -        | -         | -           |
| Date Sampled                      |       | 10/14/04 | 10/14/04 | 10/14/04 | 10/13/04  | 10/13/04    |
| Parameter                         | Units |          |          |          |           |             |
| <b>Volatile Organic Compounds</b> |       |          |          |          |           |             |
| Bromoform                         | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ   |
| Bromomethane                      | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ   |
| Carbon Disulfide                  | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ   |
| Carbon Tetrachloride              | UG/KG | 12 UJ    | 1,400 UJ | 13 UJ    | 36,000 U  | 62,000 UJ   |
| Chlorobenzene                     | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ   |
| Chloroethane                      | UG/KG | 12 UJ    | 1,400 UJ | 13 UJ    | 36,000 UJ | 62,000 UJ   |
| Chloroform                        | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ   |
| Chloromethane                     | UG/KG | 12 UJ    | 1,400 UJ | 13 UJ    | 36,000 U  | 62,000 UJ   |
| Cyclohexane                       | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ   |
| Dibromochloromethane              | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ   |
| Dichlorodifluoromethane           | UG/KG | 12 UJ    | 1,400 UJ | 13 UJ    | 36,000 U  | 62,000 UJ   |
| Ethylbenzene                      | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ   |
| Isopropylbenzene (Cumene)         | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 110,000 J   |
| Methyl acetate                    | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ   |
| Methyl Ethyl Ketone (2-Butanone)  | UG/KG | 12 UJ    | 1,400 UJ | 13 UJ    | 36,000 U  | 62,000 UJ   |
| Methyl tert-butyl ether           | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ   |
| Methylcyclohexane                 | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 38,000 J    |
| Methylene Chloride                | UG/KG | 4 J      | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ   |
| Styrene                           | UG/KG | 12 U     | 1,400 UJ | 13 U     | 36,000 U  | 62,000 UJ   |
| Tetrachloroethene                 | UG/KG | 660 DJ   | 3,000 J  | 1,900 DJ | 490,000   | 1,000,000 J |
| Toluene                           | UG/KG | 12 U     | 1,400 UJ | 3 J      | 36,000 U  | 62,000 UJ   |
| Trichloroethene                   | UG/KG | 110      | 1,500 J  | 74       | 58,000    | 290,000 J   |
| Trichlorofluoromethane            | UG/KG | 12 UJ    | 1,400 UJ | 13 UJ    | 36,000 U  | 62,000 UJ   |

Flags assigned during chemistry validation are shown.

MADE BY \_\_AMK\_12/15/04\_\_  
 CHECKED BY \_\_JJL\_12/15/04\_\_

Detection Limits shown are PQL

**TABLE 2**  
**VALIDATED SOIL ANALYTICAL RESULTS**  
**FORMER DINABURG DISTRIBUTING, INC.**

| Location ID                |       | SB-01    | SB-02    | SB-03    | SB-04    | SB-05     |
|----------------------------|-------|----------|----------|----------|----------|-----------|
| Sample ID                  |       | SB-1     | SB-2     | SB-3     | SB-4     | SB-5      |
| Matrix                     |       | Soil     | Soil     | Soil     | Soil     | Soil      |
| Depth Interval (ft)        |       | -        | -        | -        | -        | -         |
| Date Sampled               |       | 10/14/04 | 10/14/04 | 10/14/04 | 10/13/04 | 10/13/04  |
| Parameter                  | Units |          |          |          |          |           |
| Volatile Organic Compounds |       |          |          |          |          |           |
| Vinyl Chloride             | UG/KG | 12 UJ    | 1,400 UJ | 13 UJ    | 36,000 U | 62,000 UJ |
| Xylene (total)             | UG/KG | 3 J      | 1,400 UJ | 2 J      | 36,000 U | 150,000 J |

Flags assigned during chemistry validation are shown.

MADE BY \_\_AMK\_12/15/04\_\_  
 CHECKED BY \_\_JLL\_12/15/04\_\_

Detection Limits shown are PQL



**TABLE 2**  
**VALIDATED SOIL ANALYTICAL RESULTS**  
**FORMER DINABURG DISTRIBUTING, INC.**

| Location ID                            |       | SB-06     | SB-07     | SB-08    | SB-09    | SB-10     |
|----------------------------------------|-------|-----------|-----------|----------|----------|-----------|
| Sample ID                              |       | SB-6      | SB-7      | SB-8     | SB-9     | SB-10     |
| Matrix                                 |       | Soil      | Soil      | Soil     | Soil     | Soil      |
| Depth Interval (ft)                    |       | -         | -         | -        | -        | -         |
| Date Sampled                           |       | 10/13/04  | 10/13/04  | 10/14/04 | 10/14/04 | 10/13/04  |
| Parameter                              | Units |           |           |          |          |           |
| Volatile Organic Compounds             |       |           |           |          |          |           |
| 1,1,1-Trichloroethane                  | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| 1,1,2,2-Tetrachloroethane              | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| 1,1,2-Trichloro-1,2,2-trifluoroethane  | UG/KG | 34,000 U  | 31,000 UJ | 12 UJ    | 1,500 UJ | 15,000 UJ |
| 1,1,2-Trichloroethane                  | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| 1,1-Dichloroethane                     | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| 1,1-Dichloroethene                     | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| 1,2,4-Trichlorobenzene                 | UG/KG | 34,000 U  | 4,900 J   | 12 U     | 1,500 UJ | 15,000 UJ |
| 1,2-Dibromo-3-chloropropane            | UG/KG | 34,000 U  | 31,000 UJ | 12 UJ    | 1,500 UJ | 15,000 UJ |
| 1,2-Dibromoethane (Ethylene Dibromide) | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| 1,2-Dichlorobenzene                    | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| 1,2-Dichloroethane                     | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| 1,2-Dichloroethene (cis)               | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| 1,2-Dichloroethene (trans)             | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| 1,2-Dichloropropane                    | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| 1,3-Dichlorobenzene                    | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| 1,3-Dichloropropene (cis)              | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| 1,3-Dichloropropene (trans)            | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| 1,4-Dichlorobenzene                    | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| 2-Hexanone                             | UG/KG | 34,000 UJ | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| 4-Methyl-2-Pentanone                   | UG/KG | 34,000 U  | 31,000 UJ | 12 UJ    | 1,500 UJ | 15,000 UJ |
| Acetone                                | UG/KG | 34,000 UJ | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| Benzene                                | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| Bromodichloromethane                   | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |

Flags assigned during chemistry validation are shown.

MADE BY \_\_AMK\_12/15/04\_\_

CHECKED BY \_\_JUL\_12/15/04\_\_

Detection Limits shown are PQL

**TABLE 2**  
**VALIDATED SOIL ANALYTICAL RESULTS**  
**FORMER DINABURG DISTRIBUTING, INC.**

| Location ID                       |       | SB-06     | SB-07     | SB-08    | SB-09    | SB-10     |
|-----------------------------------|-------|-----------|-----------|----------|----------|-----------|
| Sample ID                         |       | SB-6      | SB-7      | SB-8     | SB-9     | SB-10     |
| Matrix                            |       | Soil      | Soil      | Soil     | Soil     | Soil      |
| Depth Interval (ft)               |       | -         | -         | -        | -        | -         |
| Date Sampled                      |       | 10/13/04  | 10/13/04  | 10/14/04 | 10/14/04 | 10/13/04  |
| Parameter                         | Units |           |           |          |          |           |
| <b>Volatile Organic Compounds</b> |       |           |           |          |          |           |
| Bromoform                         | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| Bromomethane                      | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| Carbon Disulfide                  | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| Carbon Tetrachloride              | UG/KG | 34,000 U  | 31,000 UJ | 12 UJ    | 1,500 UJ | 15,000 UJ |
| Chlorobenzene                     | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| Chloroethane                      | UG/KG | 34,000 UJ | 31,000 UJ | 12 UJ    | 1,500 UJ | 15,000 UJ |
| Chloroform                        | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| Chloromethane                     | UG/KG | 34,000 U  | 31,000 UJ | 12 UJ    | 1,500 UJ | 15,000 UJ |
| Cyclohexane                       | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| Dibromochloromethane              | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| Dichlorodifluoromethane           | UG/KG | 34,000 U  | 31,000 UJ | 12 UJ    | 1,500 UJ | 15,000 UJ |
| Ethylbenzene                      | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| Isopropylbenzene (Cumene)         | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| Methyl acetate                    | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| Methyl Ethyl Ketone (2-Butanone)  | UG/KG | 34,000 U  | 31,000 UJ | 12 UJ    | 1,500 UJ | 15,000 UJ |
| Methyl tert-butyl ether           | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| Methylcyclohexane                 | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| Methylene Chloride                | UG/KG | 34,000 U  | 31,000 UJ | 4 J      | 1,500 UJ | 15,000 UJ |
| Styrene                           | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| Tetrachloroethene                 | UG/KG | 170,000   | 390,000 J | 260 J    | 6,800 J  | 68,000 J  |
| Toluene                           | UG/KG | 34,000 U  | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |
| Trichloroethene                   | UG/KG | 16,000 J  | 73,000 J  | 8 J      | 2,600 J  | 22,000 J  |
| Trichlorofluoromethane            | UG/KG | 34,000 U  | 31,000 UJ | 12 UJ    | 1,500 UJ | 15,000 UJ |

Flags assigned during chemistry validation are shown.

MADE BY \_\_AMK\_12/15/04\_\_  
 CHECKED BY \_\_JL\_12/15/04\_\_

Detection Limits shown are PQL

**TABLE 2**  
**VALIDATED SOIL ANALYTICAL RESULTS**  
**FORMER DINABURG DISTRIBUTING, INC.**

| Location ID                |       | SB-06    | SB-07     | SB-08    | SB-09    | SB-10     |
|----------------------------|-------|----------|-----------|----------|----------|-----------|
| Sample ID                  |       | SB-6     | SB-7      | SB-8     | SB-9     | SB-10     |
| Matrix                     |       | Soil     | Soil      | Soil     | Soil     | Soil      |
| Depth Interval (ft)        |       | -        | -         | -        | -        | -         |
| Date Sampled               |       | 10/13/04 | 10/13/04  | 10/14/04 | 10/14/04 | 10/13/04  |
| Parameter                  | Units |          |           |          |          |           |
| Volatile Organic Compounds |       |          |           |          |          |           |
| Vinyl Chloride             | UG/KG | 34,000 U | 31,000 UJ | 12 UJ    | 1,500 UJ | 15,000 UJ |
| Xylene (total)             | UG/KG | 34,000 U | 31,000 UJ | 12 U     | 1,500 UJ | 15,000 UJ |

Flags assigned during chemistry validation are shown.

MADE BY \_\_AMK\_12/15/04\_\_

CHECKED BY \_\_JJL\_12/15/04\_\_

Detection Limits shown are PQL

**TABLE 2**  
**VALIDATED SOIL ANALYTICAL RESULTS**  
**FORMER DINABURG DISTRIBUTING, INC.**

| Location ID                            |       | SB-11     | SB-12    | SB-13    | SB-14    | SB-15      |
|----------------------------------------|-------|-----------|----------|----------|----------|------------|
| Sample ID                              |       | SB-11     | SB-12    | SB-13    | SB-14    | SB-15      |
| Matrix                                 |       | Soil      | Soil     | Soil     | Soil     | Soil       |
| Depth Interval (ft)                    |       | -         | -        | -        | -        | -          |
| Date Sampled                           |       | 10/13/04  | 10/13/04 | 10/14/04 | 10/14/04 | 10/13/04   |
| Parameter                              | Units |           |          |          |          |            |
| <b>Volatile Organic Compounds</b>      |       |           |          |          |          |            |
| 1,1,1-Trichloroethane                  | UG/KG | 80,000 UJ | 1,500 UJ | 5,900 J  | 4,000 U  | 160,000 UJ |
| 1,1,2,2-Tetrachloroethane              | UG/KG | 80,000 UJ | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ |
| 1,1,2-Trichloro-1,2,2-trifluoroethane  | UG/KG | 80,000 UJ | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ |
| 1,1,2-Trichloroethane                  | UG/KG | 80,000 UJ | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ |
| 1,1-Dichloroethane                     | UG/KG | 80,000 UJ | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ |
| 1,1-Dichloroethene                     | UG/KG | 80,000 UJ | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ |
| 1,2,4-Trichlorobenzene                 | UG/KG | 80,000 UJ | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ |
| 1,2-Dibromo-3-chloropropane            | UG/KG | 80,000 UJ | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ |
| 1,2-Dibromoethane (Ethylene Dibromide) | UG/KG | 80,000 UJ | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ |
| 1,2-Dichlorobenzene                    | UG/KG | 80,000 UJ | 1,500 UJ | 200 J    | 4,000 U  | 160,000 UJ |
| 1,2-Dichloroethane                     | UG/KG | 80,000 UJ | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ |
| 1,2-Dichloroethene (cis)               | UG/KG | 80,000 UJ | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ |
| 1,2-Dichloroethene (trans)             | UG/KG | 80,000 UJ | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ |
| 1,2-Dichloropropane                    | UG/KG | 80,000 UJ | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ |
| 1,3-Dichlorobenzene                    | UG/KG | 80,000 UJ | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ |
| 1,3-Dichloropropene (cis)              | UG/KG | 80,000 UJ | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ |
| 1,3-Dichloropropene (trans)            | UG/KG | 80,000 UJ | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ |
| 1,4-Dichlorobenzene                    | UG/KG | 80,000 UJ | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ |
| 2-Hexanone                             | UG/KG | 80,000 UJ | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ |
| 4-Methyl-2-Pentanone                   | UG/KG | 80,000 UJ | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ |
| Acetone                                | UG/KG | 80,000 UJ | 1,500 UJ | 1,400 UJ | 4,000 UJ | 160,000 UJ |
| Benzene                                | UG/KG | 80,000 UJ | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ |
| Bromodichloromethane                   | UG/KG | 80,000 UJ | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ |

Flags assigned during chemistry validation are shown.

MADE BY \_\_AMK\_12/15/04\_\_  
 CHECKED BY \_\_JJL\_12/15/04\_\_

Detection Limits shown are PQL

**TABLE 2**  
**VALIDATED SOIL ANALYTICAL RESULTS**  
**FORMER DINABURG DISTRIBUTING, INC.**

| Location ID                       |       | SB-11       | SB-12    | SB-13    | SB-14    | SB-15       |
|-----------------------------------|-------|-------------|----------|----------|----------|-------------|
| Sample ID                         |       | SB-11       | SB-12    | SB-13    | SB-14    | SB-15       |
| Matrix                            |       | Soil        | Soil     | Soil     | Soil     | Soil        |
| Depth Interval (ft)               |       | -           | -        | -        | -        | -           |
| Date Sampled                      |       | 10/13/04    | 10/13/04 | 10/14/04 | 10/14/04 | 10/13/04    |
| Parameter                         | Units |             |          |          |          |             |
| <b>Volatile Organic Compounds</b> |       |             |          |          |          |             |
| Bromoform                         | UG/KG | 80,000 UJ   | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ  |
| Bromomethane                      | UG/KG | 80,000 UJ   | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ  |
| Carbon Disulfide                  | UG/KG | 80,000 UJ   | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ  |
| Carbon Tetrachloride              | UG/KG | 80,000 UJ   | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ  |
| Chlorobenzene                     | UG/KG | 80,000 UJ   | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ  |
| Chloroethane                      | UG/KG | 80,000 UJ   | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ  |
| Chloroform                        | UG/KG | 80,000 UJ   | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ  |
| Chloromethane                     | UG/KG | 80,000 UJ   | 1,500 UJ | 1,400 UJ | 4,000 UJ | 160,000 UJ  |
| Cyclohexane                       | UG/KG | 80,000 UJ   | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ  |
| Dibromochloromethane              | UG/KG | 80,000 UJ   | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ  |
| Dichlorodifluoromethane           | UG/KG | 80,000 UJ   | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ  |
| Ethylbenzene                      | UG/KG | 80,000 UJ   | 570 J    | 2,200 J  | 4,000 U  | 160,000 UJ  |
| Isopropylbenzene (Cumene)         | UG/KG | 80,000 UJ   | 1,500 UJ | 1,100 J  | 4,000 U  | 160,000 UJ  |
| Methyl acetate                    | UG/KG | 80,000 UJ   | 1,500 UJ | 1,400 UJ | 1,100 J  | 160,000 UJ  |
| Methyl Ethyl Ketone (2-Butanone)  | UG/KG | 80,000 UJ   | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ  |
| Methyl tert-butyl ether           | UG/KG | 80,000 UJ   | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ  |
| Methylcyclohexane                 | UG/KG | 80,000 UJ   | 960 J    | 17,000 J | 4,000 U  | 160,000 UJ  |
| Methylene Chloride                | UG/KG | 80,000 UJ   | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ  |
| Styrene                           | UG/KG | 80,000 UJ   | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ  |
| Tetrachloroethene                 | UG/KG | 1,100,000 J | 4,800 J  | 1,400 J  | 39,000   | 1,400,000 J |
| Toluene                           | UG/KG | 80,000 UJ   | 1,500 UJ | 510 J    | 4,000 U  | 160,000 UJ  |
| Trichloroethene                   | UG/KG | 180,000 J   | 1,500 UJ | 3,600 J  | 3,500 J  | 160,000 UJ  |
| Trichlorofluoromethane            | UG/KG | 80,000 UJ   | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ  |

Flags assigned during chemistry validation are shown.

MADE BY \_\_AMK\_12/15/04\_\_  
 CHECKED BY \_\_JLL\_12/15/04\_\_

Detection Limits shown are PQL

**TABLE 2**  
**VALIDATED SOIL ANALYTICAL RESULTS**  
**FORMER DINABURG DISTRIBUTING, INC.**

| Location ID                |       | SB-11     | SB-12    | SB-13    | SB-14    | SB-15      |
|----------------------------|-------|-----------|----------|----------|----------|------------|
| Sample ID                  |       | SB-11     | SB-12    | SB-13    | SB-14    | SB-15      |
| Matrix                     |       | Soil      | Soil     | Soil     | Soil     | Soil       |
| Depth Interval (ft)        |       | -         | -        | -        | -        | -          |
| Date Sampled               |       | 10/13/04  | 10/13/04 | 10/14/04 | 10/14/04 | 10/13/04   |
| Parameter                  | Units |           |          |          |          |            |
| Volatile Organic Compounds |       |           |          |          |          |            |
| Vinyl Chloride             | UG/KG | 80,000 UJ | 1,500 UJ | 1,400 UJ | 4,000 U  | 160,000 UJ |
| Xylene (total)             | UG/KG | 80,000 UJ | 970 J    | 14,000 J | 4,000 U  | 160,000 UJ |

Flags assigned during chemistry validation are shown.

MADE BY \_\_AMK\_12/15/04\_\_

CHECKED BY \_\_JJL\_12/15/04\_\_

Detection Limits shown are PQL

**TABLE 2**  
**VALIDATED SOIL ANALYTICAL RESULTS**  
**FORMER DINABURG DISTRIBUTING, INC.**

|                                        |              |                 |
|----------------------------------------|--------------|-----------------|
| <b>Location ID</b>                     |              | <b>SB-16</b>    |
| <b>Sample ID</b>                       |              | <b>SB-16</b>    |
| <b>Matrix</b>                          |              | <b>Soil</b>     |
| <b>Depth Interval (ft)</b>             |              | <b>-</b>        |
| <b>Date Sampled</b>                    |              | <b>10/14/04</b> |
| <b>Parameter</b>                       | <b>Units</b> |                 |
| <b>Volatile Organic Compounds</b>      |              |                 |
| 1,1,1-Trichloroethane                  | UG/KG        | 1,500 UJ        |
| 1,1,2,2-Tetrachloroethane              | UG/KG        | 1,500 UJ        |
| 1,1,2-Trichloro-1,2,2-trifluoroethane  | UG/KG        | 1,500 UJ        |
| 1,1,2-Trichloroethane                  | UG/KG        | 1,500 UJ        |
| 1,1-Dichloroethane                     | UG/KG        | 1,500 UJ        |
| 1,1-Dichloroethene                     | UG/KG        | 1,500 UJ        |
| 1,2,4-Trichlorobenzene                 | UG/KG        | 1,500 UJ        |
| 1,2-Dibromo-3-chloropropane            | UG/KG        | 1,500 UJ        |
| 1,2-Dibromoethane (Ethylene Dibromide) | UG/KG        | 1,500 UJ        |
| 1,2-Dichlorobenzene                    | UG/KG        | 1,500 UJ        |
| 1,2-Dichloroethane                     | UG/KG        | 1,500 UJ        |
| 1,2-Dichloroethene (cis)               | UG/KG        | 1,500 UJ        |
| 1,2-Dichloroethene (trans)             | UG/KG        | 1,500 UJ        |
| 1,2-Dichloropropane                    | UG/KG        | 1,500 UJ        |
| 1,3-Dichlorobenzene                    | UG/KG        | 1,500 UJ        |
| 1,3-Dichloropropene (cis)              | UG/KG        | 1,500 UJ        |
| 1,3-Dichloropropene (trans)            | UG/KG        | 1,500 UJ        |
| 1,4-Dichlorobenzene                    | UG/KG        | 1,500 UJ        |
| 2-Hexanone                             | UG/KG        | 1,500 UJ        |
| 4-Methyl-2-Pentanone                   | UG/KG        | 280 J           |
| Acetone                                | UG/KG        | 1,500 UJ        |
| Benzene                                | UG/KG        | 1,500 UJ        |
| Bromodichloromethane                   | UG/KG        | 1,500 UJ        |

Flags assigned during chemistry validation are shown.

MADE BY \_\_AMK\_12/15/04\_\_  
 CHECKED BY \_\_JLL\_12/15/04\_\_

Detection Limits shown are PQL

**TABLE 2**  
**VALIDATED SOIL ANALYTICAL RESULTS**  
**FORMER DINABURG DISTRIBUTING, INC.**

|                                   |              |                 |
|-----------------------------------|--------------|-----------------|
| <b>Location ID</b>                |              | <b>SB-16</b>    |
| <b>Sample ID</b>                  |              | <b>SB-16</b>    |
| <b>Matrix</b>                     |              | <b>Soil</b>     |
| <b>Depth Interval (ft)</b>        |              | <b>-</b>        |
| <b>Date Sampled</b>               |              | <b>10/14/04</b> |
| <b>Parameter</b>                  | <b>Units</b> |                 |
| <b>Volatile Organic Compounds</b> |              |                 |
| Bromoform                         | UG/KG        | 1,500 UJ        |
| Bromomethane                      | UG/KG        | 1,500 UJ        |
| Carbon Disulfide                  | UG/KG        | 1,500 UJ        |
| Carbon Tetrachloride              | UG/KG        | 1,500 UJ        |
| Chlorobenzene                     | UG/KG        | 1,500 UJ        |
| Chloroethane                      | UG/KG        | 1,500 UJ        |
| Chloroform                        | UG/KG        | 1,500 UJ        |
| Chloromethane                     | UG/KG        | 1,500 UJ        |
| Cyclohexane                       | UG/KG        | 1,500 UJ        |
| Dibromochloromethane              | UG/KG        | 1,500 UJ        |
| Dichlorodifluoromethane           | UG/KG        | 1,500 UJ        |
| Ethylbenzene                      | UG/KG        | 1,500 UJ        |
| Isopropylbenzene (Cumene)         | UG/KG        | 1,500 UJ        |
| Methyl acetate                    | UG/KG        | 1,500 UJ        |
| Methyl Ethyl Ketone (2-Butanone)  | UG/KG        | 1,500 UJ        |
| Methyl tert-butyl ether           | UG/KG        | 1,500 UJ        |
| Methylcyclohexane                 | UG/KG        | 1,500 UJ        |
| Methylene Chloride                | UG/KG        | 1,500 UJ        |
| Styrene                           | UG/KG        | 1,500 UJ        |
| Tetrachloroethene                 | UG/KG        | 3,400 J         |
| Toluene                           | UG/KG        | 1,500 UJ        |
| Trichloroethene                   | UG/KG        | 1,500 UJ        |
| Trichlorofluoromethane            | UG/KG        | 1,500 UJ        |

Flags assigned during chemistry validation are shown.

MADE BY \_\_AMK\_12/15/04\_\_

CHECKED BY \_\_JLL\_12/15/04\_\_

Detection Limits shown are PQL



**TABLE 2**  
**VALIDATED SOIL ANALYTICAL RESULTS**  
**FORMER DINABURG DISTRIBUTING, INC.**

|                            |       |          |
|----------------------------|-------|----------|
| Location ID                |       | SB-16    |
| Sample ID                  |       | SB-16    |
| Matrix                     |       | Soil     |
| Depth Interval (ft)        |       | -        |
| Date Sampled               |       | 10/14/04 |
| Parameter                  | Units |          |
| Volatile Organic Compounds |       |          |
| Vinyl Chloride             | UG/KG | 1,500 UJ |
| Xylene (total)             | UG/KG | 1,500 UJ |

Flags assigned during chemistry validation are shown.

MADE BY \_\_AMK\_12/15/04\_\_  
CHECKED BY \_\_JL\_12/15/04\_\_

Detection Limits shown are PQL

## **ATTACHMENT A**

### **VALIDATED SAMPLE REPORTING FORMS**

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-1

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472009

Sample wt/vol: 5.0(g/mL) G

Lab File ID: 472009A55

Level: (low/med) LOW

Date Received: 10/15/04

% Moisture: not dec. 18

Date Analyzed: 10/20/04

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (ul)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|           |                                       |    |    |
|-----------|---------------------------------------|----|----|
| 75-71-8   | Dichlorodifluoromethane               | 12 | UJ |
| 74-87-3   | Chloromethane                         | 12 | UJ |
| 75-01-4   | Vinyl Chloride                        | 12 | UJ |
| 74-83-9   | Bromomethane                          | 12 | U  |
| 75-00-3   | Chloroethane                          | 12 | UJ |
| 75-69-4   | Trichlorofluoromethane                | 12 | UJ |
| 75-35-4   | 1,1-Dichloroethene                    | 12 | U  |
| 76-13-1   | 1,1,2-Trichloro-1,2,2-trifluoroethane | 12 | UJ |
| 67-64-1   | Acetone                               | 12 | U  |
| 75-15-0   | Carbon Disulfide                      | 12 | U  |
| 79-20-9   | Methyl Acetate                        | 12 | U  |
| 75-09-2   | Methylene Chloride                    | 4  | J  |
| 156-60-5  | trans-1,2-Dichloroethene              | 12 | U  |
| 1634-04-4 | Methyl-tert-butyl ether               | 12 | U  |
| 75-34-3   | 1,1-Dichloroethane                    | 12 | U  |
| 156-59-2  | cis-1,2-Dichloroethene                | 12 | U  |
| 78-93-3   | 2-Butanone                            | 12 | UJ |
| 67-66-3   | Chloroform                            | 12 | U  |
| 71-55-6   | 1,1,1-Trichloroethane                 | 12 | U  |
| 110-82-7  | Cyclohexane                           | 12 | U  |
| 56-23-5   | Carbon Tetrachloride                  | 12 | UJ |
| 71-43-2   | Benzene                               | 12 | U  |
| 107-06-2  | 1,2-Dichloroethane                    | 12 | U  |

FORM I VOA-1

OLM04.2

1B  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-1

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472009

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: 472009A55

Level: (low/med) LOW

Date Received: 10/15/04

% Moisture: not dec. 18

Date Analyzed: 10/20/04

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO. COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|            |                             |          |   |
|------------|-----------------------------|----------|---|
| 79-01-6    | Trichloroethene             | 110      |   |
| 108-87-2   | Methylcyclohexane           | 12       | U |
| 78-87-5    | 1,2-Dichloropropane         | 12       | U |
| 75-27-4    | Bromodichloromethane        | 12       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 12       | U |
| 108-10-1   | 4-Methyl-2-Pentanone        | 12       | U |
| 108-88-3   | Toluene                     | 12       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 12       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 12       | U |
| 127-18-4   | Tetrachloroethene           | 660 2300 | U |
| 591-78-6   | 2-Hexanone                  | 12       | U |
| 124-48-1   | Dibromochloromethane        | 12       | U |
| 106-93-4   | 1,2-Dibromoethane           | 12       | U |
| 108-90-7   | Chlorobenzene               | 12       | U |
| 100-41-4   | Ethylbenzene                | 12       | U |
| 1330-20-7  | Xylene (Total)              | 3        | J |
| 100-42-5   | Styrene                     | 12       | U |
| 75-25-2    | Bromoform                   | 12       | U |
| 98-82-8    | Isopropylbenzene            | 12       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 12       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 12       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 12       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 12       | U |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 12       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 12       | U |

FORM I VOA-2

OLM04.2

*Handwritten:*  
12/13/04

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-1DL

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472009

Sample wt/vol: 4.0(g/mL) G

Lab File ID: 472009DA55

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 18

Date Analyzed: 10/24/04

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(ul)

Soil Aliquot Volume: 100(uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|           |                                       |      |   |
|-----------|---------------------------------------|------|---|
| 75-71-8   | Dichlorodifluoromethane               | 1600 | U |
| 74-87-3   | Chloromethane                         | 1600 | U |
| 75-01-4   | Vinyl Chloride                        | 1600 | U |
| 74-83-9   | Bromomethane                          | 1600 | U |
| 75-00-3   | Chloroethane                          | 1600 | U |
| 75-69-4   | Trichlorofluoromethane                | 1600 | U |
| 75-35-4   | 1,1-Dichloroethene                    | 1600 | U |
| 76-13-1   | 1,1,2-Trichloro-1,2,2-trifluoroethane | 1600 | U |
| 67-64-1   | Acetone                               | 1600 | U |
| 75-15-0   | Carbon Disulfide                      | 1600 | U |
| 79-20-9   | Methyl Acetate                        | 1600 | U |
| 75-09-2   | Methylene Chloride                    | 1600 | U |
| 156-60-5  | trans-1,2-Dichloroethene              | 1600 | U |
| 1634-04-4 | Methyl tert-Butyl Ether               | 1600 | U |
| 75-34-3   | 1,1-Dichloroethane                    | 1600 | U |
| 156-59-2  | cis-1,2-Dichloroethene                | 1600 | U |
| 78-93-3   | 2-Butanone                            | 1600 | U |
| 67-66-3   | Chloroform                            | 1600 | U |
| 71-55-6   | 1,1,1-Trichloroethane                 | 1600 | U |
| 110-82-7  | Cyclohexane                           | 1600 | U |
| 56-23-5   | Carbon Tetrachloride                  | 1600 | U |
| 71-43-2   | Benzene                               | 1600 | U |
| 107-06-2  | 1,2-Dichloroethane                    | 1600 | U |

FORM I VOA-1

OLM04.2

1B  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-1DL

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472009

Sample wt/vol: 4.0(g/mL) G

Lab File ID: 472009DA55

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 18

Date Analyzed: 10/24/04

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(ul)

Soil Aliquot Volume: 100(uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|            |                             |      |    |
|------------|-----------------------------|------|----|
| 79-01-6    | Trichloroethene             | 1600 | U  |
| 108-87-2   | Methylcyclohexane           | 1600 | U  |
| 78-87-5    | 1,2-Dichloropropane         | 1600 | U  |
| 75-27-4    | Bromodichloromethane        | 1600 | U  |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1600 | U  |
| 108-10-1   | 4-Methyl-2-Pentanone        | 1600 | U  |
| 108-88-3   | Toluene                     | 1600 | U  |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1600 | U  |
| 79-00-5    | 1,1,2-Trichloroethane       | 1600 | U  |
| 127-18-4   | Tetrachloroethene           | 660  | DJ |
| 591-78-6   | 2-Hexanone                  | 1600 | U  |
| 124-48-1   | Dibromochloromethane        | 1600 | U  |
| 106-93-4   | 1,2-Dibromoethane           | 1600 | U  |
| 108-90-7   | Chlorobenzene               | 1600 | U  |
| 100-41-4   | Ethylbenzene                | 1600 | U  |
| 1330-20-7  | Xylene (Total)              | 1600 | U  |
| 100-42-5   | Styrene                     | 1600 | U  |
| 75-25-2    | Bromoform                   | 1600 | U  |
| 98-82-8    | Isopropylbenzene            | 1600 | U  |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1600 | U  |
| 541-73-1   | 1,3-Dichlorobenzene         | 1600 | U  |
| 106-46-7   | 1,4-Dichlorobenzene         | 1600 | U  |
| 95-50-1    | 1,2-Dichlorobenzene         | 1600 | U  |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 1600 | U  |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1600 | U  |

FORM I VOA-2

OLM04.2

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-2

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472010

Sample wt/vol: 4.0(g/mL) G

Lab File ID: 472010DA59

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 10

Date Analyzed: 10/25/04

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(uL)

Soil Aliquot Volume: 100(uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|           |                                       |      |   |   |
|-----------|---------------------------------------|------|---|---|
| 75-71-8   | Dichlorodifluoromethane               | 1400 | U | 5 |
| 74-87-3   | Chloromethane                         | 1400 | U |   |
| 75-01-4   | Vinyl Chloride                        | 1400 | U |   |
| 74-83-9   | Bromomethane                          | 1400 | U |   |
| 75-00-3   | Chloroethane                          | 1400 | U |   |
| 75-69-4   | Trichlorofluoromethane                | 1400 | U |   |
| 75-35-4   | 1,1-Dichloroethene                    | 1400 | U |   |
| 76-13-1   | 1,1,2-Trichloro-1,2,2-trifluoroethane | 1400 | U |   |
| 67-64-1   | Acetone                               | 1400 | U |   |
| 75-15-0   | Carbon Disulfide                      | 1400 | U |   |
| 79-20-9   | Methyl Acetate                        | 1400 | U |   |
| 75-09-2   | Methylene Chloride                    | 1400 | U |   |
| 156-60-5  | trans-1,2-Dichloroethene              | 1400 | U |   |
| 1634-04-4 | Methyl tert-Butyl Ether               | 1400 | U |   |
| 75-34-3   | 1,1-Dichloroethane                    | 1400 | U |   |
| 156-59-2  | cis-1,2-Dichloroethene                | 1400 | U |   |
| 78-93-3   | 2-Butanone                            | 1400 | U |   |
| 67-66-3   | Chloroform                            | 1400 | U |   |
| 71-55-6   | 1,1,1-Trichloroethane                 | 1400 | U |   |
| 110-82-7  | Cyclohexane                           | 1400 | U |   |
| 56-23-5   | Carbon Tetrachloride                  | 1400 | U |   |
| 71-43-2   | Benzene                               | 1400 | U |   |
| 107-06-2  | 1,2-Dichloroethane                    | 1400 | U | 5 |

*Handwritten signature*  
12/3/04

FORM I VOA-1

OLM04.2

1B  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-2

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472010

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: 472010DA59

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 10

Date Analyzed: 10/25/04

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (ul)

Soil Aliquot Volume: 100 (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|            |                             |      |   |
|------------|-----------------------------|------|---|
| 79-01-6    | Trichloroethene             | 1500 | U |
| 108-87-2   | Methylcyclohexane           | 1400 | U |
| 78-87-5    | 1,2-Dichloropropane         | 1400 | U |
| 75-27-4    | Bromodichloromethane        | 1400 | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1400 | U |
| 108-10-1   | 4-Methyl-2-Pentanone        | 1400 | U |
| 108-88-3   | Toluene                     | 1400 | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1400 | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1400 | U |
| 127-18-4   | Tetrachloroethene           | 3000 | U |
| 591-78-6   | 2-Hexanone                  | 1400 | U |
| 124-48-1   | Dibromochloromethane        | 1400 | U |
| 106-93-4   | 1,2-Dibromoethane           | 1400 | U |
| 108-90-7   | Chlorobenzene               | 1400 | U |
| 100-41-4   | Ethylbenzene                | 1400 | U |
| 1330-20-7  | Xylene (Total)              | 1400 | U |
| 100-42-5   | Styrene                     | 1400 | U |
| 75-25-2    | Bromoform                   | 1400 | U |
| 98-82-8    | Isopropylbenzene            | 1400 | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1400 | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1400 | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1400 | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1400 | U |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 1400 | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1400 | U |

*Handwritten signature/initials*  
10/30/04

FORM I VOA-2

OLM04.2



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-3

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472011

Sample wt/vol: 5.0(g/mL) G

Lab File ID: 472011A55

Level: (low/med) LOW

Date Received: 10/15/04

% Moisture: not dec. 20

Date Analyzed: 10/20/04

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (ul)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

| CAS NO.   | COMPOUND                              | CONCENTRATION UNITS: |         |
|-----------|---------------------------------------|----------------------|---------|
|           |                                       | (ug/L or ug/Kg)      | UG/KG Q |
| 75-71-8   | Dichlorodifluoromethane               | 13                   | U       |
| 74-87-3   | Chloromethane                         | 13                   | U       |
| 75-01-4   | Vinyl Chloride                        | 13                   | U       |
| 74-83-9   | Bromomethane                          | 13                   | U       |
| 75-00-3   | Chloroethane                          | 13                   | U       |
| 75-69-4   | Trichlorofluoromethane                | 13                   | U       |
| 75-35-4   | 1,1-Dichloroethene                    | 13                   | U       |
| 76-13-1   | 1,1,2-Trichloro-1,2,2-trifluoroethane | 13                   | U       |
| 67-64-1   | Acetone                               | 13                   | U       |
| 75-15-0   | Carbon Disulfide                      | 13                   | U       |
| 79-20-9   | Methyl Acetate                        | 13                   | U       |
| 75-09-2   | Methylene Chloride                    | 13                   | U       |
| 156-60-5  | trans-1,2-Dichloroethene              | 13                   | U       |
| 1634-04-4 | Methyl-tert-butyl ether               | 13                   | U       |
| 75-34-3   | 1,1-Dichloroethane                    | 13                   | U       |
| 156-59-2  | cis-1,2-Dichloroethene                | 13                   | U       |
| 78-93-3   | 2-Butanone                            | 13                   | U       |
| 67-66-3   | Chloroform                            | 13                   | U       |
| 71-55-6   | 1,1,1-Trichloroethane                 | 13                   | U       |
| 110-82-7  | Cyclohexane                           | 13                   | U       |
| 56-23-5   | Carbon Tetrachloride                  | 13                   | U       |
| 71-43-2   | Benzene                               | 13                   | U       |
| 107-06-2  | 1,2-Dichloroethane                    | 13                   | U       |

FORM I VOA-1

OLM04.2

1B  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-3

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472011

Sample wt/vol: 5.0(g/mL) G

Lab File ID: 472011A55

Level: (low/med) LOW

Date Received: 10/15/04

% Moisture: not dec. 20

Date Analyzed: 10/20/04

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_(ul)

Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|            |                             |          |   |
|------------|-----------------------------|----------|---|
| 79-01-6    | Trichloroethene             | 74       |   |
| 108-87-2   | Methylcyclohexane           | 13       | U |
| 78-87-5    | 1,2-Dichloropropane         | 13       | U |
| 75-27-4    | Bromodichloromethane        | 13       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 13       | U |
| 108-10-1   | 4-Methyl-2-Pentanone        | 13       | U |
| 108-88-3   | Toluene                     | 3        | J |
| 10061-02-6 | trans-1,3-Dichloropropene   | 13       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 13       | U |
| 127-18-4   | Tetrachloroethene           | 19001000 | U |
| 591-78-6   | 2-Hexanone                  | 13       | U |
| 124-48-1   | Dibromochloromethane        | 13       | U |
| 106-93-4   | 1,2-Dibromoethane           | 13       | U |
| 108-90-7   | Chlorobenzene               | 13       | U |
| 100-41-4   | Ethylbenzene                | 13       | U |
| 1330-20-7  | Xylene (Total)              | 2        | J |
| 100-42-5   | Styrene                     | 13       | U |
| 75-25-2    | Bromoform                   | 13       | U |
| 98-82-8    | Isopropylbenzene            | 13       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 13       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 13       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 13       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 13       | U |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 13       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 13       | U |

FORM I VOA-2

OLM04.2

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-8DL

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472011

Sample wt/vol: 4.0(g/mL) G

Lab File ID: 472011DA59

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 20

Date Analyzed: 10/25/04

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(uL)

Soil Aliquot Volume: 100(uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|           |                                       |      |   |
|-----------|---------------------------------------|------|---|
| 75-71-8   | Dichlorodifluoromethane               | 1600 | U |
| 74-87-3   | Chloromethane                         | 1600 | U |
| 75-01-4   | Vinyl Chloride                        | 1600 | U |
| 74-83-9   | Bromomethane                          | 1600 | U |
| 75-00-3   | Chloroethane                          | 1600 | U |
| 75-69-4   | Trichlorofluoromethane                | 1600 | U |
| 75-35-4   | 1,1-Dichloroethene                    | 1600 | U |
| 76-13-1   | 1,1,2-Trichloro-1,2,2-trifluoroethane | 1600 | U |
| 67-64-1   | Acetone                               | 1600 | U |
| 75-15-0   | Carbon Disulfide                      | 1600 | U |
| 79-20-9   | Methyl Acetate                        | 1600 | U |
| 75-09-2   | Methylene Chloride                    | 1600 | U |
| 156-60-5  | trans-1,2-Dichloroethene              | 1600 | U |
| 1634-04-4 | Methyl tert-Butyl Ether               | 1600 | U |
| 75-34-3   | 1,1-Dichloroethane                    | 1600 | U |
| 156-59-2  | cis-1,2-Dichloroethene                | 1600 | U |
| 78-93-3   | 2-Butanone                            | 1600 | U |
| 67-66-3   | Chloroform                            | 1600 | U |
| 71-55-6   | 1,1,1-Trichloroethane                 | 1600 | U |
| 110-82-7  | Cyclohexane                           | 1600 | U |
| 56-23-5   | Carbon Tetrachloride                  | 1600 | U |
| 71-43-2   | Benzene                               | 1600 | U |
| 107-06-2  | 1,2-Dichloroethane                    | 1600 | U |

FORM I VOA-1

OLM04.2

1B  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-3DL

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472011

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: 472011DA59

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 20

Date Analyzed: 10/25/04

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (ul)

Soil Aliquot Volume: 100 (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|            |                             |      |   |
|------------|-----------------------------|------|---|
| 79-01-6    | Trichloroethene             | 1600 | U |
| 108-87-2   | Methylcyclohexane           | 1600 | U |
| 78-87-5    | 1,2-Dichloropropane         | 1600 | U |
| 75-27-4    | Bromodichloromethane        | 1600 | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1600 | U |
| 108-10-1   | 4-Methyl-2-Pentanone        | 1600 | U |
| 108-88-3   | Toluene                     | 1600 | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1600 | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1600 | U |
| 127-18-4   | Tetrachloroethene           | 1900 | D |
| 591-78-6   | 2-Hexanone                  | 1600 | U |
| 124-48-1   | Dibromochloromethane        | 1600 | U |
| 106-93-4   | 1,2-Dibromoethane           | 1600 | U |
| 108-90-7   | Chlorobenzene               | 1600 | U |
| 100-41-4   | Ethylbenzene                | 1600 | U |
| 1330-20-7  | Xylene (Total)              | 1600 | U |
| 100-42-5   | Styrene                     | 1600 | U |
| 75-25-2    | Bromoform                   | 1600 | U |
| 98-82-8    | Isopropylbenzene            | 1600 | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1600 | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1600 | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1600 | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1600 | U |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 1600 | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1600 | U |

FORM I VOA-2

OLM04.2

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-4

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472001

Sample wt/vol: 4.0(g/mL) G

Lab File ID: 472001D2A55

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 28

Date Analyzed: 10/23/04

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(ul)

Soil Aliquot Volume: 5(uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|           |                                       |       |   |
|-----------|---------------------------------------|-------|---|
| 75-71-8   | Dichlorodifluoromethane               | 36000 | U |
| 74-87-3   | Chloromethane                         | 36000 | U |
| 75-01-4   | Vinyl Chloride                        | 36000 | U |
| 74-83-9   | Bromomethane                          | 36000 | U |
| 75-00-3   | Chloroethane                          | 36000 | U |
| 75-69-4   | Trichlorofluoromethane                | 36000 | U |
| 75-35-4   | 1,1-Dichloroethene                    | 36000 | U |
| 76-13-1   | 1,1,2-Trichloro-1,2,2-trifluoroethane | 36000 | U |
| 67-64-1   | Acetone                               | 36000 | U |
| 75-15-0   | Carbon Disulfide                      | 36000 | U |
| 79-20-9   | Methyl Acetate                        | 36000 | U |
| 75-09-2   | Methylene Chloride                    | 36000 | U |
| 156-60-5  | trans-1,2-Dichloroethene              | 36000 | U |
| 1634-04-4 | Methyl tert-Butyl Ether               | 36000 | U |
| 75-34-3   | 1,1-Dichloroethane                    | 36000 | U |
| 156-59-2  | cis-1,2-Dichloroethene                | 36000 | U |
| 78-93-3   | 2-Butanone                            | 36000 | U |
| 67-66-3   | Chloroform                            | 36000 | U |
| 71-55-6   | 1,1,1-Trichloroethane                 | 36000 | U |
| 110-82-7  | Cyclohexane                           | 36000 | U |
| 56-23-5   | Carbon Tetrachloride                  | 36000 | U |
| 71-43-2   | Benzene                               | 36000 | U |
| 107-06-2  | 1,2-Dichloroethane                    | 36000 | U |

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FORM I VOA-1

OLM04.2

1B  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-4

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472001

Sample wt/vol: 4.0(g/mL) G

Lab File ID: 472001D2A55

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 28

Date Analyzed: 10/23/04

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(ul)

Soil Aliquot Volume: 5(uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|            |                             |        |     |
|------------|-----------------------------|--------|-----|
| 79-01-6    | Trichloroethene             | 58000  |     |
| 108-87-2   | Methylcyclohexane           | 36000  | U   |
| 78-87-5    | 1,2-Dichloropropane         | 36000  | U   |
| 75-27-4    | Bromodichloromethane        | 36000  | U   |
| 10061-01-5 | cis-1,3-Dichloropropene     | 36000  | U   |
| 108-10-1   | 4-Methyl-2-Pentanone        | 36000  | U   |
| 108-88-3   | Toluene                     | 36000  | U   |
| 10061-02-6 | trans-1,3-Dichloropropene   | 36000  | U   |
| 79-00-5    | 1,1,2-Trichloroethane       | 36000  | U   |
| 127-18-4   | Tetrachloroethene           | 490000 |     |
| 591-78-6   | 2-Hexanone                  | 36000  | U-3 |
| 124-48-1   | Dibromochloromethane        | 36000  | U   |
| 106-93-4   | 1,2-Dibromoethane           | 36000  | U   |
| 108-90-7   | Chlorobenzene               | 36000  | U   |
| 100-41-4   | Ethylbenzene                | 36000  | U   |
| 1330-20-7  | Xylene (Total)              | 36000  | U   |
| 100-42-5   | Styrene                     | 36000  | U   |
| 75-25-2    | Bromoform                   | 36000  | U   |
| 98-82-8    | Isopropylbenzene            | 36000  | U   |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 36000  | U   |
| 541-73-1   | 1,3-Dichlorobenzene         | 36000  | U   |
| 106-46-7   | 1,4-Dichlorobenzene         | 36000  | U   |
| 95-50-1    | 1,2-Dichlorobenzene         | 36000  | U   |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 36000  | U   |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 36000  | U   |

FORM I VOA-2

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12/3/04 OLM04.2

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472003

Sample wt/vol: 4.0(g/mL) G

Lab File ID: 472003D2A55

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 30

Date Analyzed: 10/24/04

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(ul)

Soil Aliquot Volume: 3(uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|           |                                       |       |   |   |
|-----------|---------------------------------------|-------|---|---|
| 75-71-8   | Dichlorodifluoromethane               | 62000 | U | 3 |
| 74-87-3   | Chloromethane                         | 62000 | U |   |
| 75-01-4   | Vinyl Chloride                        | 62000 | U |   |
| 74-83-9   | Bromomethane                          | 62000 | U |   |
| 75-00-3   | Chloroethane                          | 62000 | U |   |
| 75-69-4   | Trichlorofluoromethane                | 62000 | U |   |
| 75-35-4   | 1,1-Dichloroethene                    | 62000 | U |   |
| 76-13-1   | 1,1,2-Trichloro-1,2,2-trifluoroethane | 62000 | U |   |
| 67-64-1   | Acetone                               | 62000 | U |   |
| 75-15-0   | Carbon Disulfide                      | 62000 | U |   |
| 79-20-9   | Methyl Acetate                        | 62000 | U |   |
| 75-09-2   | Methylene Chloride                    | 62000 | U |   |
| 156-60-5  | trans-1,2-Dichloroethene              | 62000 | U |   |
| 1634-04-4 | Methyl tert-Butyl Ether               | 62000 | U |   |
| 75-34-3   | 1,1-Dichloroethane                    | 62000 | U |   |
| 156-59-2  | cis-1,2-Dichloroethene                | 62000 | U |   |
| 78-93-3   | 2-Butanone                            | 62000 | U |   |
| 67-66-3   | Chloroform                            | 62000 | U |   |
| 71-55-6   | 1,1,1-Trichloroethane                 | 62000 | U |   |
| 110-82-7  | Cyclohexane                           | 62000 | U |   |
| 56-23-5   | Carbon Tetrachloride                  | 62000 | U |   |
| 71-43-2   | Benzene                               | 62000 | U |   |
| 107-06-2  | 1,2-Dichloroethane                    | 62000 | U |   |

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FORM I VOA-1

OLM04.2

1B  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472003

Sample wt/vol: 4.0(g/mL) G

Lab File ID: 472003D2A55

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 30

Date Analyzed: 10/24/04

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(uL)

Soil Aliquot Volume: 3(uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|            |                             |         |   |
|------------|-----------------------------|---------|---|
| 79-01-6    | Trichloroethene             | 290000  | J |
| 108-87-2   | Methylcyclohexane           | 38000   | J |
| 78-87-5    | 1,2-Dichloropropane         | 62000   | U |
| 75-27-4    | Bromodichloromethane        | 62000   | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 62000   | U |
| 108-10-1   | 4-Methyl-2-Pentanone        | 62000   | U |
| 108-88-3   | Toluene                     | 62000   | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 62000   | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 62000   | U |
| 127-18-4   | Tetrachloroethene           | 1000000 | J |
| 591-78-6   | 2-Hexanone                  | 62000   | U |
| 124-48-1   | Dibromochloromethane        | 62000   | U |
| 106-93-4   | 1,2-Dibromoethane           | 62000   | U |
| 108-90-7   | Chlorobenzene               | 62000   | U |
| 100-41-4   | Ethylbenzene                | 62000   | U |
| 1330-20-7  | Xylene (Total)              | 150000  | J |
| 100-42-5   | Styrene                     | 62000   | U |
| 75-25-2    | Bromoform                   | 62000   | U |
| 98-82-8    | Isopropylbenzene            | 110000  | J |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 62000   | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 62000   | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 62000   | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 62000   | U |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 62000   | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 11000   | J |

FORM I VOA-2

OLM04.2



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-6

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472002

Sample wt/vol: 4.0(g/mL) G

Lab File ID: 472002D2A55

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 24

Date Analyzed: 10/23/04

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(ul)

Soil Aliquot Volume: 5(uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|           |                                       |       |   |
|-----------|---------------------------------------|-------|---|
| 75-71-8   | Dichlorodifluoromethane               | 34000 | U |
| 74-87-3   | Chloromethane                         | 34000 | U |
| 75-01-4   | Vinyl Chloride                        | 34000 | U |
| 74-83-9   | Bromomethane                          | 34000 | U |
| 75-00-3   | Chloroethane                          | 34000 | U |
| 75-69-4   | Trichlorofluoromethane                | 34000 | U |
| 75-35-4   | 1,1-Dichloroethene                    | 34000 | U |
| 76-13-1   | 1,1,2-Trichloro-1,2,2-trifluoroethane | 34000 | U |
| 67-64-1   | Acetone                               | 34000 | U |
| 75-15-0   | Carbon Disulfide                      | 34000 | U |
| 79-20-9   | Methyl Acetate                        | 34000 | U |
| 75-09-2   | Methylene Chloride                    | 34000 | U |
| 156-60-5  | trans-1,2-Dichloroethene              | 34000 | U |
| 1634-04-4 | Methyl tert-Butyl Ether               | 34000 | U |
| 75-34-3   | 1,1-Dichloroethane                    | 34000 | U |
| 156-59-2  | cis-1,2-Dichloroethene                | 34000 | U |
| 78-93-3   | 2-Butanone                            | 34000 | U |
| 67-66-3   | Chloroform                            | 34000 | U |
| 71-55-6   | 1,1,1-Trichloroethane                 | 34000 | U |
| 110-82-7  | Cyclohexane                           | 34000 | U |
| 56-23-5   | Carbon Tetrachloride                  | 34000 | U |
| 71-43-2   | Benzene                               | 34000 | U |
| 107-06-2  | 1,2-Dichloroethane                    | 34000 | U |

FORM I VOA-1

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*12/3/04*  
OLM04.2

1B  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-6

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472002

Sample wt/vol: 4.0(g/mL) G

Lab File ID: 472002D2A55

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 24

Date Analyzed: 10/23/04

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(ul)

Soil Aliquot Volume: 5(uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|            |                             |        |   |
|------------|-----------------------------|--------|---|
| 79-01-6    | Trichloroethene             | 16000  | J |
| 108-87-2   | Methylcyclohexane           | 34000  | U |
| 78-87-5    | 1,2-Dichloropropane         | 34000  | U |
| 75-27-4    | Bromodichloromethane        | 34000  | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 34000  | U |
| 108-10-1   | 4-Methyl-2-Pentanone        | 34000  | U |
| 108-88-3   | Toluene                     | 34000  | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 34000  | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 34000  | U |
| 127-18-4   | Tetrachloroethene           | 170000 |   |
| 591-78-6   | 2-Hexanone                  | 34000  | U |
| 124-48-1   | Dibromochloromethane        | 34000  | U |
| 106-93-4   | 1,2-Dibromoethane           | 34000  | U |
| 108-90-7   | Chlorobenzene               | 34000  | U |
| 100-41-4   | Ethylbenzene                | 34000  | U |
| 1330-20-7  | Xylene (Total)              | 34000  | U |
| 100-42-5   | Styrene                     | 34000  | U |
| 75-25-2    | Bromoform                   | 34000  | U |
| 98-82-8    | Isopropylbenzene            | 34000  | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 34000  | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 34000  | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 34000  | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 34000  | U |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 34000  | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 34000  | U |

FORM I VOA-2

OLM04.2

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-7

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472004

Sample wt/vol: 4.0(g/mL) G

Lab File ID: 472004D2A55

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 17

Date Analyzed: 10/24/04

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(ul)

Soil Aliquot Volume: 5(uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|           |                                       |       |     |
|-----------|---------------------------------------|-------|-----|
| 75-71-8   | Dichlorodifluoromethane               | 31000 | U 3 |
| 74-87-3   | Chloromethane                         | 31000 | U   |
| 75-01-4   | Vinyl Chloride                        | 31000 | U   |
| 74-83-9   | Bromomethane                          | 31000 | U   |
| 75-00-3   | Chloroethane                          | 31000 | U   |
| 75-69-4   | Trichlorofluoromethane                | 31000 | U   |
| 75-35-4   | 1,1-Dichloroethene                    | 31000 | U   |
| 76-13-1   | 1,1,2-Trichloro-1,2,2-trifluoroethane | 31000 | U   |
| 67-64-1   | Acetone                               | 31000 | U   |
| 75-15-0   | Carbon Disulfide                      | 31000 | U   |
| 79-20-9   | Methyl Acetate                        | 31000 | U   |
| 75-09-2   | Methylene Chloride                    | 31000 | U   |
| 156-60-5  | trans-1,2-Dichloroethene              | 31000 | U   |
| 1634-04-4 | Methyl tert-Butyl Ether               | 31000 | U   |
| 75-34-3   | 1,1-Dichloroethane                    | 31000 | U   |
| 156-59-2  | cis-1,2-Dichloroethene                | 31000 | U   |
| 78-93-3   | 2-Butanone                            | 31000 | U   |
| 67-66-3   | Chloroform                            | 31000 | U   |
| 71-55-6   | 1,1,1-Trichloroethane                 | 31000 | U   |
| 110-82-7  | Cyclohexane                           | 31000 | U   |
| 56-23-5   | Carbon Tetrachloride                  | 31000 | U   |
| 71-43-2   | Benzene                               | 31000 | U   |
| 107-06-2  | 1,2-Dichloroethane                    | 31000 | U ↓ |

FORM I VOA-1

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OLM04.2

1B  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-7

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472004

Sample wt/vol: 4.0(g/mL) G

Lab File ID: 472004D2A55

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 17

Date Analyzed: 10/24/04

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(ul)

Soil Aliquot Volume: 5(uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|            |                             |        |    |
|------------|-----------------------------|--------|----|
| 79-01-6    | Trichloroethene             | 73000  | J  |
| 108-87-2   | Methylcyclohexane           | 31000  | UJ |
| 78-87-5    | 1,2-Dichloropropane         | 31000  | U  |
| 75-27-4    | Bromodichloromethane        | 31000  | U  |
| 10061-01-5 | cis-1,3-Dichloropropene     | 31000  | U  |
| 108-10-1   | 4-Methyl-2-Pentanone        | 31000  | U  |
| 108-88-3   | Toluene                     | 31000  | U  |
| 10061-02-6 | trans-1,3-Dichloropropene   | 31000  | U  |
| 79-00-5    | 1,1,2-Trichloroethane       | 31000  | U  |
| 127-18-4   | Tetrachloroethene           | 390000 | J  |
| 591-78-6   | 2-Hexanone                  | 31000  | UJ |
| 124-48-1   | Dibromochloromethane        | 31000  | U  |
| 106-93-4   | 1,2-Dibromoethane           | 31000  | U  |
| 108-90-7   | Chlorobenzene               | 31000  | U  |
| 100-41-4   | Ethylbenzene                | 31000  | U  |
| 1330-20-7  | Xylene (Total)              | 31000  | U  |
| 100-42-5   | Styrene                     | 31000  | U  |
| 75-25-2    | Bromoform                   | 31000  | U  |
| 98-82-8    | Isopropylbenzene            | 31000  | U  |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 31000  | U  |
| 541-73-1   | 1,3-Dichlorobenzene         | 31000  | U  |
| 106-46-7   | 1,4-Dichlorobenzene         | 31000  | U  |
| 95-50-1    | 1,2-Dichlorobenzene         | 31000  | U  |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 31000  | U  |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 4900   | JJ |

FORM I VOA-2

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OLM04.2

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-8

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472012

Sample wt/vol: 5.0(g/mL) G

Lab File ID: 472012A55

Level: (low/med) LOW

Date Received: 10/15/04

% Moisture: not dec. 17

Date Analyzed: 10/20/04

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_(ul)

Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|           |                                       |    |                           |
|-----------|---------------------------------------|----|---------------------------|
| 75-71-8   | Dichlorodifluoromethane               | 12 | U <del>S</del>            |
| 74-87-3   | Chloromethane                         | 12 | U <del>S</del>            |
| 75-01-4   | Vinyl Chloride                        | 12 | U <del>S</del>            |
| 74-83-9   | Bromomethane                          | 12 | U                         |
| 75-00-3   | Chloroethane                          | 12 | U <del>S</del>            |
| 75-69-4   | Trichlorofluoromethane                | 12 | U <del>S</del>            |
| 75-35-4   | 1,1-Dichloroethene                    | 12 | U                         |
| 76-13-1   | 1,1,2-Trichloro-1,2,2-trifluoroethane | 12 | U <del>S</del>            |
| 67-64-1   | Acetone                               | 12 | U                         |
| 75-15-0   | Carbon Disulfide                      | 12 | U                         |
| 79-20-9   | Methyl Acetate                        | 12 | U                         |
| 75-09-2   | Methylene Chloride                    | 4  | <del>U</del> <del>S</del> |
| 156-60-5  | trans-1,2-Dichloroethene              | 12 | U                         |
| 1634-04-4 | Methyl-tert-butyl ether               | 12 | U                         |
| 75-34-3   | 1,1-Dichloroethane                    | 12 | U                         |
| 156-59-2  | cis-1,2-Dichloroethene                | 12 | U                         |
| 78-93-3   | 2-Butanone                            | 12 | U <del>S</del>            |
| 67-66-3   | Chloroform                            | 12 | U                         |
| 71-55-6   | 1,1,1-Trichloroethane                 | 12 | U                         |
| 110-82-7  | Cyclohexane                           | 12 | U                         |
| 56-23-5   | Carbon Tetrachloride                  | 12 | U <del>S</del>            |
| 71-43-2   | Benzene                               | 12 | U                         |
| 107-06-2  | 1,2-Dichloroethane                    | 12 | U                         |

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12/3/04

FORM I VOA-1

OLM04.2

1B  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-8

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472012

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: 472012A55

Level: (low/med) LOW

Date Received: 10/15/04

% Moisture: not dec. 17

Date Analyzed: 10/20/04

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (ul)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

|            |                             |     |                |
|------------|-----------------------------|-----|----------------|
| 79-01-6    | Trichloroethene             | 8   | <del>U</del> J |
| 108-87-2   | Methylcyclohexane           | 12  | U              |
| 78-87-5    | 1,2-Dichloropropane         | 12  | U              |
| 75-27-4    | Bromodichloromethane        | 12  | U              |
| 10061-01-5 | cis-1,3-Dichloropropene     | 12  | U              |
| 108-10-1   | 4-Methyl-2-Pentanone        | 12  | U J            |
| 108-88-3   | Toluene                     | 12  | U              |
| 10061-02-6 | trans-1,3-Dichloropropene   | 12  | U              |
| 79-00-5    | 1,1,2-Trichloroethane       | 12  | U              |
| 127-18-4   | Tetrachloroethene           | 260 | <del>U</del> J |
| 591-78-6   | 2-Hexanone                  | 12  | U              |
| 124-48-1   | Dibromochloromethane        | 12  | U              |
| 106-93-4   | 1,2-Dibromoethane           | 12  | U              |
| 108-90-7   | Chlorobenzene               | 12  | U              |
| 100-41-4   | Ethylbenzene                | 12  | U              |
| 1330-20-7  | Xylene (Total)              | 12  | U              |
| 100-42-5   | Styrene                     | 12  | U              |
| 75-25-2    | Bromoform                   | 12  | U              |
| 98-82-8    | Isopropylbenzene            | 12  | U              |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 12  | U              |
| 541-73-1   | 1,3-Dichlorobenzene         | 12  | U              |
| 106-46-7   | 1,4-Dichlorobenzene         | 12  | U              |
| 95-50-1    | 1,2-Dichlorobenzene         | 12  | U              |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 12  | U J            |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 12  | U              |

FORM I VOA-2

*Handwritten signature/initials*  
12/2/04

OLM04.2

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-8DL

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472012

Sample wt/vol: 4.0(g/mL) G

Lab File ID: 472012D2A59

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 17

Date Analyzed: 10/25/04

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(uL)

Soil Aliquot Volume: 100(uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|           |                                       |      |   |   |
|-----------|---------------------------------------|------|---|---|
| 75-71-8   | Dichlorodifluoromethane               | 1600 | U | 5 |
| 74-87-3   | Chloromethane                         | 1600 | U |   |
| 75-01-4   | Vinyl Chloride                        | 1600 | U |   |
| 74-83-9   | Bromomethane                          | 1600 | U |   |
| 75-00-3   | Chloroethane                          | 1600 | U |   |
| 75-69-4   | Trichlorofluoromethane                | 1600 | U |   |
| 75-35-4   | 1,1-Dichloroethene                    | 1600 | U |   |
| 76-13-1   | 1,1,2-Trichloro-1,2,2-trifluoroethane | 1600 | U |   |
| 67-64-1   | Acetone                               | 1600 | U |   |
| 75-15-0   | Carbon Disulfide                      | 1600 | U |   |
| 79-20-9   | Methyl Acetate                        | 1600 | U |   |
| 75-09-2   | Methylene Chloride                    | 1600 | U |   |
| 156-60-5  | trans-1,2-Dichloroethene              | 1600 | U |   |
| 1634-04-4 | Methyl tert-Butyl Ether               | 1600 | U |   |
| 75-34-3   | 1,1-Dichloroethane                    | 1600 | U |   |
| 156-59-2  | cis-1,2-Dichloroethene                | 1600 | U |   |
| 78-93-3   | 2-Butanone                            | 1600 | U |   |
| 67-66-3   | Chloroform                            | 1600 | U |   |
| 71-55-6   | 1,1,1-Trichloroethane                 | 1600 | U |   |
| 110-82-7  | Cyclohexane                           | 1600 | U |   |
| 56-23-5   | Carbon Tetrachloride                  | 1600 | U |   |
| 71-43-2   | Benzene                               | 1600 | U |   |
| 107-06-2  | 1,2-Dichloroethane                    | 1600 | U |   |

OLM  
12/3/04

FORM I VOA-1

OLM04.2

1B  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-8DL

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472012

Sample wt/vol: 4.0(g/mL) G

Lab File ID: 472012D2A59

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 17

Date Analyzed: 10/25/04

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(uL)

Soil Aliquot Volume: 100(uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|            |                             |      |   |   |
|------------|-----------------------------|------|---|---|
| 79-01-6    | Trichloroethene             | 1600 | U | 5 |
| 108-87-2   | Methylcyclohexane           | 1600 | U |   |
| 78-87-5    | 1,2-Dichloropropane         | 1600 | U |   |
| 75-27-4    | Bromodichloromethane        | 1600 | U |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1600 | U |   |
| 108-10-1   | 4-Methyl-2-Pentanone        | 1600 | U |   |
| 108-88-3   | Toluene                     | 1600 | U |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1600 | U |   |
| 79-00-5    | 1,1,2-Trichloroethane       | 1600 | U |   |
| 127-18-4   | Tetrachloroethene           | 1600 | U |   |
| 591-78-6   | 2-Hexanone                  | 1600 | U |   |
| 124-48-1   | Dibromochloromethane        | 1600 | U |   |
| 106-93-4   | 1,2-Dibromoethane           | 1600 | U |   |
| 108-90-7   | Chlorobenzene               | 1600 | U |   |
| 100-41-4   | Ethylbenzene                | 1600 | U |   |
| 1330-20-7  | Xylene (Total)              | 1600 | U |   |
| 100-42-5   | Styrene                     | 1600 | U |   |
| 75-25-2    | Bromoform                   | 1600 | U |   |
| 98-82-8    | Isopropylbenzene            | 1600 | U |   |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1600 | U |   |
| 541-73-1   | 1,3-Dichlorobenzene         | 1600 | U |   |
| 106-46-7   | 1,4-Dichlorobenzene         | 1600 | U |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 1600 | U |   |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 1600 | U |   |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1600 | U |   |

FORM I VOA-2

OLM04.2



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472013

Sample wt/vol: 4.0(g/mL) G

Lab File ID: 472013DA59

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 12

Date Analyzed: 10/25/04

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(uL)

Soil Aliquot Volume: 100(uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|           |                                       |      |     |
|-----------|---------------------------------------|------|-----|
| 75-71-8   | Dichlorodifluoromethane               | 1500 | U 3 |
| 74-87-3   | Chloromethane                         | 1500 | U   |
| 75-01-4   | Vinyl Chloride                        | 1500 | U   |
| 74-83-9   | Bromomethane                          | 1500 | U   |
| 75-00-3   | Chloroethane                          | 1500 | U   |
| 75-69-4   | Trichlorofluoromethane                | 1500 | U   |
| 75-35-4   | 1,1-Dichloroethene                    | 1500 | U   |
| 76-13-1   | 1,1,2-Trichloro-1,2,2-trifluoroethane | 1500 | U   |
| 67-64-1   | Acetone                               | 1500 | U   |
| 75-15-0   | Carbon Disulfide                      | 1500 | U   |
| 79-20-9   | Methyl Acetate                        | 1500 | U   |
| 75-09-2   | Methylene Chloride                    | 1500 | U   |
| 156-60-5  | trans-1,2-Dichloroethene              | 1500 | U   |
| 1634-04-4 | Methyl tert-Butyl Ether               | 1500 | U   |
| 75-34-3   | 1,1-Dichloroethane                    | 1500 | U   |
| 156-59-2  | cis-1,2-Dichloroethene                | 1500 | U   |
| 78-93-3   | 2-Butanone                            | 1500 | U   |
| 67-66-3   | Chloroform                            | 1500 | U   |
| 71-55-6   | 1,1,1-Trichloroethane                 | 1500 | U   |
| 110-82-7  | Cyclohexane                           | 1500 | U   |
| 56-23-5   | Carbon Tetrachloride                  | 1500 | U   |
| 71-43-2   | Benzene                               | 1500 | U   |
| 107-06-2  | 1,2-Dichloroethane                    | 1500 | U 2 |

FORM I VOA-1

OLM04.2

1B  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472013

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: 472013DA59

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 12

Date Analyzed: 10/25/04

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (ul)

Soil Aliquot Volume: 100 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|            |                             |      |   |
|------------|-----------------------------|------|---|
| 79-01-6    | Trichloroethene             | 2600 | U |
| 108-87-2   | Methylcyclohexane           | 1500 | U |
| 78-87-5    | 1,2-Dichloropropane         | 1500 | U |
| 75-27-4    | Bromodichloromethane        | 1500 | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1500 | U |
| 108-10-1   | 4-Methyl-2-Pentanone        | 1500 | U |
| 108-88-3   | Toluene                     | 1500 | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1500 | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1500 | U |
| 127-18-4   | Tetrachloroethene           | 6800 | U |
| 591-78-6   | 2-Hexanone                  | 1500 | U |
| 124-48-1   | Dibromochloromethane        | 1500 | U |
| 106-93-4   | 1,2-Dibromoethane           | 1500 | U |
| 108-90-7   | Chlorobenzene               | 1500 | U |
| 100-41-4   | Ethylbenzene                | 1500 | U |
| 1330-20-7  | Xylene (Total)              | 1500 | U |
| 100-42-5   | Styrene                     | 1500 | U |
| 75-25-2    | Bromoform                   | 1500 | U |
| 98-82-8    | Isopropylbenzene            | 1500 | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1500 | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1500 | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1500 | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1500 | U |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 1500 | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1500 | U |

FORM I VOA-2

OLM04.2

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472005

Sample wt/vol: 4.0(g/mL) G

Lab File ID: 472005D2A55

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 13

Date Analyzed: 10/24/04

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(ul)

Soil Aliquot Volume: 10(uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|           |                                       |       |   |
|-----------|---------------------------------------|-------|---|
| 75-71-8   | Dichlorodifluoromethane               | 15000 | U |
| 74-87-3   | Chloromethane                         | 15000 | U |
| 75-01-4   | Vinyl Chloride                        | 15000 | U |
| 74-83-9   | Bromomethane                          | 15000 | U |
| 75-00-3   | Chloroethane                          | 15000 | U |
| 75-69-4   | Trichlorofluoromethane                | 15000 | U |
| 75-35-4   | 1,1-Dichloroethene                    | 15000 | U |
| 76-13-1   | 1,1,2-Trichloro-1,2,2-trifluoroethane | 15000 | U |
| 67-64-1   | Acetone                               | 15000 | U |
| 75-15-0   | Carbon Disulfide                      | 15000 | U |
| 79-20-9   | Methyl Acetate                        | 15000 | U |
| 75-09-2   | Methylene Chloride                    | 15000 | U |
| 156-60-5  | trans-1,2-Dichloroethene              | 15000 | U |
| 1634-04-4 | Methyl tert-Butyl Ether               | 15000 | U |
| 75-34-3   | 1,1-Dichloroethane                    | 15000 | U |
| 156-59-2  | cis-1,2-Dichloroethene                | 15000 | U |
| 78-93-3   | 2-Butanone                            | 15000 | U |
| 67-66-3   | Chloroform                            | 15000 | U |
| 71-55-6   | 1,1,1-Trichloroethane                 | 15000 | U |
| 110-82-7  | Cyclohexane                           | 15000 | U |
| 56-23-5   | Carbon Tetrachloride                  | 15000 | U |
| 71-43-2   | Benzene                               | 15000 | U |
| 107-06-2  | 1,2-Dichloroethane                    | 15000 | U |

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FORM I VOA-1

OLM04.2

1B  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472005

Sample wt/vol: 4.0(g/mL) G

Lab File ID: 472005D2A55

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 13

Date Analyzed: 10/24/04

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(ul)

Soil Aliquot Volume: 10(uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|            |                             |       |    |
|------------|-----------------------------|-------|----|
| 79-01-6    | Trichloroethene             | 22000 | J  |
| 108-87-2   | Methylcyclohexane           | 15000 | UJ |
| 78-87-5    | 1,2-Dichloropropane         | 15000 | U  |
| 75-27-4    | Bromodichloromethane        | 15000 | U  |
| 10061-01-5 | cis-1,3-Dichloropropene     | 15000 | U  |
| 108-10-1   | 4-Methyl-2-Pentanone        | 15000 | U  |
| 108-88-3   | Toluene                     | 15000 | U  |
| 10061-02-6 | trans-1,3-Dichloropropene   | 15000 | U  |
| 79-00-5    | 1,1,2-Trichloroethane       | 15000 | U↓ |
| 127-18-4   | Tetrachloroethene           | 68000 | J  |
| 591-78-6   | 2-Hexanone                  | 15000 | UJ |
| 124-48-1   | Dibromochloromethane        | 15000 | U  |
| 106-93-4   | 1,2-Dibromoethane           | 15000 | U  |
| 108-90-7   | Chlorobenzene               | 15000 | U  |
| 100-41-4   | Ethylbenzene                | 15000 | U  |
| 1330-20-7  | Xylene (Total)              | 15000 | U  |
| 100-42-5   | Styrene                     | 15000 | U  |
| 75-25-2    | Bromoform                   | 15000 | U  |
| 98-82-8    | Isopropylbenzene            | 15000 | U  |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 15000 | U  |
| 541-73-1   | 1,3-Dichlorobenzene         | 15000 | U  |
| 106-46-7   | 1,4-Dichlorobenzene         | 15000 | U  |
| 95-50-1    | 1,2-Dichlorobenzene         | 15000 | U  |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 15000 | U  |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 15000 | U↓ |

FORM I VOA-2

OLM04.2

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-11

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472006

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: 472006D3A59

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 19

Date Analyzed: 10/25/04

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (ul)

Soil Aliquot Volume: 2 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|           |                                       |       |     |
|-----------|---------------------------------------|-------|-----|
| 75-71-8   | Dichlorodifluoromethane               | 80000 | U 3 |
| 74-87-3   | Chloromethane                         | 80000 | U   |
| 75-01-4   | Vinyl Chloride                        | 80000 | U   |
| 74-83-9   | Bromomethane                          | 80000 | U   |
| 75-00-3   | Chloroethane                          | 80000 | U   |
| 75-69-4   | Trichlorofluoromethane                | 80000 | U   |
| 75-35-4   | 1,1-Dichloroethene                    | 80000 | U   |
| 76-13-1   | 1,1,2-Trichloro-1,2,2-trifluoroethane | 80000 | U   |
| 67-64-1   | Acetone                               | 80000 | U   |
| 75-15-0   | Carbon Disulfide                      | 80000 | U   |
| 79-20-9   | Methyl Acetate                        | 80000 | U   |
| 75-09-2   | Methylene Chloride                    | 80000 | U   |
| 156-60-5  | trans-1,2-Dichloroethene              | 80000 | U   |
| 1634-04-4 | Methyl tert-Butyl Ether               | 80000 | U   |
| 75-34-3   | 1,1-Dichloroethane                    | 80000 | U   |
| 156-59-2  | cis-1,2-Dichloroethene                | 80000 | U   |
| 78-93-3   | 2-Butanone                            | 80000 | U   |
| 67-66-3   | Chloroform                            | 80000 | U   |
| 71-55-6   | 1,1,1-Trichloroethane                 | 80000 | U   |
| 110-82-7  | Cyclohexane                           | 80000 | U   |
| 56-23-5   | Carbon Tetrachloride                  | 80000 | U   |
| 71-43-2   | Benzene                               | 80000 | U   |
| 107-06-2  | 1,2-Dichloroethane                    | 80000 | U   |

FORM I VOA-1

OLM04.2

1B  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-11

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472006

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: 472006D3A59

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 19

Date Analyzed: 10/25/04

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (ul)

Soil Aliquot Volume: 2 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|            |                             |         |   |
|------------|-----------------------------|---------|---|
| 79-01-6    | Trichloroethene             | 180000  | U |
| 108-87-2   | Methylcyclohexane           | 80000   | U |
| 78-87-5    | 1,2-Dichloropropane         | 80000   | U |
| 75-27-4    | Bromodichloromethane        | 80000   | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 80000   | U |
| 108-10-1   | 4-Methyl-2-Pentanone        | 80000   | U |
| 108-88-3   | Toluene                     | 80000   | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 80000   | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 80000   | U |
| 127-18-4   | Tetrachloroethene           | 1100000 | U |
| 591-78-6   | 2-Hexanone                  | 80000   | U |
| 124-48-1   | Dibromochloromethane        | 80000   | U |
| 106-93-4   | 1,2-Dibromoethane           | 80000   | U |
| 108-90-7   | Chlorobenzene               | 80000   | U |
| 100-41-4   | Ethylbenzene                | 80000   | U |
| 1330-20-7  | Xylene (Total)              | 80000   | U |
| 100-42-5   | Styrene                     | 80000   | U |
| 75-25-2    | Bromoform                   | 80000   | U |
| 98-82-8    | Isopropylbenzene            | 80000   | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 80000   | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 80000   | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 80000   | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 80000   | U |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 80000   | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 80000   | U |

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FORM I VOA-2

OLM04.2

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472007

Sample wt/vol: 4.0(g/mL) G

Lab File ID: 472007D2A55

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 15

Date Analyzed: 10/24/04

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(ul)

Soil Aliquot Volume: 100(uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|           |                                       |      |   |   |
|-----------|---------------------------------------|------|---|---|
| 75-71-8   | Dichlorodifluoromethane               | 1500 | U | 3 |
| 74-87-3   | Chloromethane                         | 1500 | U |   |
| 75-01-4   | Vinyl Chloride                        | 1500 | U |   |
| 74-83-9   | Bromomethane                          | 1500 | U |   |
| 75-00-3   | Chloroethane                          | 1500 | U |   |
| 75-69-4   | Trichlorofluoromethane                | 1500 | U |   |
| 75-35-4   | 1,1-Dichloroethene                    | 1500 | U |   |
| 76-13-1   | 1,1,2-Trichloro-1,2,2-trifluoroethane | 1500 | U |   |
| 67-64-1   | Acetone                               | 1500 | U |   |
| 75-15-0   | Carbon Disulfide                      | 1500 | U |   |
| 79-20-9   | Methyl Acetate                        | 1500 | U |   |
| 75-09-2   | Methylene Chloride                    | 1500 | U |   |
| 156-60-5  | trans-1,2-Dichloroethene              | 1500 | U |   |
| 1634-04-4 | Methyl tert-Butyl Ether               | 1500 | U |   |
| 75-34-3   | 1,1-Dichloroethane                    | 1500 | U |   |
| 156-59-2  | cis-1,2-Dichloroethene                | 1500 | U |   |
| 78-93-3   | 2-Butanone                            | 1500 | U |   |
| 67-66-3   | Chloroform                            | 1500 | U |   |
| 71-55-6   | 1,1,1-Trichloroethane                 | 1500 | U |   |
| 110-82-7  | Cyclohexane                           | 1500 | U |   |
| 56-23-5   | Carbon Tetrachloride                  | 1500 | U |   |
| 71-43-2   | Benzene                               | 1500 | U |   |
| 107-06-2  | 1,2-Dichloroethane                    | 1500 | U |   |

FORM I VOA-1

OLM04.2

1B  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472007

Sample wt/vol: 4.0(g/mL) G

Lab File ID: 472007D2A55

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 15

Date Analyzed: 10/24/04

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(ul)

Soil Aliquot Volume: 100(uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|            |                             |      |   |   |
|------------|-----------------------------|------|---|---|
| 79-01-6    | Trichloroethene             | 1500 | U | 3 |
| 108-87-2   | Methylcyclohexane           | 960  | U | 3 |
| 78-87-5    | 1,2-Dichloropropane         | 1500 | U | 3 |
| 75-27-4    | Bromodichloromethane        | 1500 | U |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1500 | U |   |
| 108-10-1   | 4-Methyl-2-Pentanone        | 1500 | U |   |
| 108-88-3   | Toluene                     | 1500 | U |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1500 | U |   |
| 79-00-5    | 1,1,2-Trichloroethane       | 1500 | U |   |
| 127-18-4   | Tetrachloroethene           | 4800 | U |   |
| 591-78-6   | 2-Hexanone                  | 1500 | U |   |
| 124-48-1   | Dibromochloromethane        | 1500 | U |   |
| 106-93-4   | 1,2-Dibromoethane           | 1500 | U |   |
| 108-90-7   | Chlorobenzene               | 1500 | U |   |
| 100-41-4   | Ethylbenzene                | 570  | U |   |
| 1330-20-7  | Xylene (Total)              | 970  | U |   |
| 100-42-5   | Styrene                     | 1500 | U |   |
| 75-25-2    | Bromoform                   | 1500 | U |   |
| 98-82-8    | Isopropylbenzene            | 1500 | U |   |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1500 | U |   |
| 541-73-1   | 1,3-Dichlorobenzene         | 1500 | U |   |
| 106-46-7   | 1,4-Dichlorobenzene         | 1500 | U |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 1500 | U |   |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 1500 | U |   |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1500 | U |   |

FORM I VOA-2

OLM04.2



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472014

Sample wt/vol: 4.0(g/mL) G

Lab File ID: 472014DA59

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 8

Date Analyzed: 10/25/04

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(uL)

Soil Aliquot Volume: 100(uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|           |                                       |      |   |   |
|-----------|---------------------------------------|------|---|---|
| 75-71-8   | Dichlorodifluoromethane               | 1400 | U | 3 |
| 74-87-3   | Chloromethane                         | 1400 | U |   |
| 75-01-4   | Vinyl Chloride                        | 1400 | U |   |
| 74-83-9   | Bromomethane                          | 1400 | U |   |
| 75-00-3   | Chloroethane                          | 1400 | U |   |
| 75-69-4   | Trichlorofluoromethane                | 1400 | U |   |
| 75-35-4   | 1,1-Dichloroethene                    | 1400 | U |   |
| 76-13-1   | 1,1,2-Trichloro-1,2,2-trifluoroethane | 1400 | U |   |
| 67-64-1   | Acetone                               | 1400 | U |   |
| 75-15-0   | Carbon Disulfide                      | 1400 | U |   |
| 79-20-9   | Methyl Acetate                        | 1400 | U |   |
| 75-09-2   | Methylene Chloride                    | 1400 | U |   |
| 156-60-5  | trans-1,2-Dichloroethene              | 1400 | U |   |
| 1634-04-4 | Methyl tert-Butyl Ether               | 1400 | U |   |
| 75-34-3   | 1,1-Dichloroethane                    | 1400 | U |   |
| 156-59-2  | cis-1,2-Dichloroethene                | 1400 | U |   |
| 78-93-3   | 2-Butanone                            | 1400 | U |   |
| 67-66-3   | Chloroform                            | 1400 | U |   |
| 71-55-6   | 1,1,1-Trichloroethane                 | 5900 | U |   |
| 110-82-7  | Cyclohexane                           | 1400 | U |   |
| 56-23-5   | Carbon Tetrachloride                  | 1400 | U |   |
| 71-43-2   | Benzene                               | 1400 | U |   |
| 107-06-2  | 1,2-Dichloroethane                    | 1400 | U |   |

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10/13/04

FORM I VOA-1

OLM04.2

1B  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472014

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: 472014DA59

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 8

Date Analyzed: 10/25/04

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (ul)

Soil Aliquot Volume: 100 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|            |                             |       |   |
|------------|-----------------------------|-------|---|
| 79-01-6    | Trichloroethene             | 3600  | U |
| 108-87-2   | Methylcyclohexane           | 17000 | U |
| 78-87-5    | 1,2-Dichloropropane         | 1400  | U |
| 75-27-4    | Bromodichloromethane        | 1400  | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1400  | U |
| 108-10-1   | 4-Methyl-2-Pentanone        | 1400  | U |
| 108-88-3   | Toluene                     | 510   | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1400  | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1400  | U |
| 127-18-4   | Tetrachloroethene           | 1400  | U |
| 591-78-6   | 2-Hexanone                  | 1400  | U |
| 124-48-1   | Dibromochloromethane        | 1400  | U |
| 106-93-4   | 1,2-Dibromoethane           | 1400  | U |
| 108-90-7   | Chlorobenzene               | 1400  | U |
| 100-41-4   | Ethylbenzene                | 2200  | U |
| 1330-20-7  | Xylene (Total)              | 14000 | U |
| 100-42-5   | Styrene                     | 1400  | U |
| 75-25-2    | Bromoform                   | 1400  | U |
| 98-82-8    | Isopropylbenzene            | 1100  | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1400  | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1400  | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1400  | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 200   | U |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 1400  | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1400  | U |

FORM I VOA-2

OLM04.2

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-14

Lab Name: COMPUCHEM

Method: NYASP

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 4723

Matrix: (soil/water) SOIL

Lab Sample ID: 472301

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: 472301D2A59

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 18

Date Analyzed: 10/22/04

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (10000) (uL)

Soil Aliquot Volume: 40 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|                 |                              |       |   |
|-----------------|------------------------------|-------|---|
| 75-71-8-----    | Dichlorodifluoromethane      | 4000  | U |
| 74-87-3-----    | Chloromethane                | 4000  | U |
| 75-01-4-----    | Vinyl Chloride               | 4000  | U |
| 74-83-9-----    | Bromomethane                 | 4000  | U |
| 75-00-3-----    | Chloroethane                 | 4000  | U |
| 75-69-4-----    | Trichlorofluoromethane       | 4000  | U |
| 75-35-4-----    | 1,1-Dichloroethene           | 4000  | U |
| 76-13-1-----    | 1,1,2-trichloro-1,2,2-triflu | 4000  | U |
| 67-64-1-----    | Acetone                      | 4000  | U |
| 75-15-0-----    | Carbon Disulfide             | 4000  | U |
| 79-20-9-----    | Methyl Acetate               | 1100  | J |
| 75-09-2-----    | Methylene Chloride           | 4000  | U |
| 156-60-5-----   | trans-1,2-Dichloroethene     | 4000  | U |
| 1634-04-4-----  | Methyl tert-Butyl Ether      | 4000  | U |
| 75-34-3-----    | 1,1-Dichloroethane           | 4000  | U |
| 156-59-2-----   | cis-1,2-Dichloroethene       | 4000  | U |
| 78-93-3-----    | 2-Butanone                   | 4000  | U |
| 67-66-3-----    | Chloroform                   | 4000  | U |
| 71-55-6-----    | 1,1,1-Trichloroethane        | 4000  | U |
| 110-82-7-----   | Cyclohexane                  | 4000  | U |
| 56-23-5-----    | Carbon Tetrachloride         | 4000  | U |
| 71-43-2-----    | Benzene                      | 4000  | U |
| 107-06-2-----   | 1,2-Dichloroethane           | 4000  | U |
| 79-01-6-----    | Trichloroethene              | 3500  | J |
| 108-87-2-----   | Methylcyclohexane            | 4000  | U |
| 78-87-5-----    | 1,2-Dichloropropane          | 4000  | U |
| 75-27-4-----    | Bromodichloromethane         | 4000  | U |
| 10061-01-5----- | cis-1,3-Dichloropropene      | 4000  | U |
| 108-10-1-----   | 4-Methyl-2-Pentanone         | 4000  | U |
| 108-88-3-----   | Toluene                      | 4000  | U |
| 10061-02-6----- | trans-1,3-Dichloropropene    | 4000  | U |
| 79-00-5-----    | 1,1,2-Trichloroethane        | 4000  | U |
| 127-18-4-----   | Tetrachloroethene            | 39000 |   |

FORM I VOA

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-14

Lab Name: COMPUCHEM

Method: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4723

Matrix: (soil/water) SOIL

Lab Sample ID: 472301

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: 472301D2A59

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 18

Date Analyzed: 10/22/04

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (10000) (ul)

Soil Aliquot Volume: 40 (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

|                                         |      |   |
|-----------------------------------------|------|---|
| 591-78-6-----2-Hexanone                 | 4000 | U |
| 124-48-1-----Dibromochloromethane       | 4000 | U |
| 106-93-4-----1,2-Dibromoethane          | 4000 | U |
| 108-90-7-----Chlorobenzene              | 4000 | U |
| 100-41-4-----Ethylbenzene               | 4000 | U |
| 1330-20-7-----Xylene (Total)            | 4000 | U |
| 100-42-5-----Styrene                    | 4000 | U |
| 75-25-2-----Bromoform                   | 4000 | U |
| 98-82-8-----Isopropylbenzene            | 4000 | U |
| 79-34-5-----1,1,2,2-Tetrachloroethane   | 4000 | U |
| 541-73-1-----1,3-Dichlorobenzene        | 4000 | U |
| 106-46-7-----1,4-Dichlorobenzene        | 4000 | U |
| 95-50-1-----1,2-Dichlorobenzene         | 4000 | U |
| 96-12-8-----1,2-Dibromo-3-Chloropropane | 4000 | U |
| 120-82-1-----1,2,4-Trichlorobenzene     | 4000 | U |

FORM I VOA

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472008

Sample wt/vol: 4.0(g/mL) G

Lab File ID: 472008D2A59

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 17

Date Analyzed: 10/25/04

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(ul)

Soil Aliquot Volume: 1(uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|           |                                       |        |     |
|-----------|---------------------------------------|--------|-----|
| 75-71-8   | Dichlorodifluoromethane               | 160000 | U 3 |
| 74-87-3   | Chloromethane                         | 160000 | U   |
| 75-01-4   | Vinyl Chloride                        | 160000 | U   |
| 74-83-9   | Bromomethane                          | 160000 | U   |
| 75-00-3   | Chloroethane                          | 160000 | U   |
| 75-69-4   | Trichlorofluoromethane                | 160000 | U   |
| 75-35-4   | 1,1-Dichloroethene                    | 160000 | U   |
| 76-13-1   | 1,1,2-Trichloro-1,2,2-trifluoroethane | 160000 | U   |
| 67-64-1   | Acetone                               | 160000 | U   |
| 75-15-0   | Carbon Disulfide                      | 160000 | U   |
| 79-20-9   | Methyl Acetate                        | 160000 | U   |
| 75-09-2   | Methylene Chloride                    | 160000 | U   |
| 156-60-5  | trans-1,2-Dichloroethene              | 160000 | U   |
| 1634-04-4 | Methyl tert-Butyl Ether               | 160000 | U   |
| 75-34-3   | 1,1-Dichloroethane                    | 160000 | U   |
| 156-59-2  | cis-1,2-Dichloroethene                | 160000 | U   |
| 78-93-3   | 2-Butanone                            | 160000 | U   |
| 67-66-3   | Chloroform                            | 160000 | U   |
| 71-55-6   | 1,1,1-Trichloroethane                 | 160000 | U   |
| 110-82-7  | Cyclohexane                           | 160000 | U   |
| 56-23-5   | Carbon Tetrachloride                  | 160000 | U   |
| 71-43-2   | Benzene                               | 160000 | U   |
| 107-06-2  | 1,2-Dichloroethane                    | 160000 | U   |

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10/13/04

FORM I VOA-1

OLM04.2

1B  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472008

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: 472008D2A59

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 17

Date Analyzed: 10/25/04

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (ul)

Soil Aliquot Volume: 1 (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|            |                             |         |   |   |
|------------|-----------------------------|---------|---|---|
| 79-01-6    | Trichloroethene             | 160000  | U | 3 |
| 108-87-2   | Methylcyclohexane           | 160000  | U |   |
| 78-87-5    | 1,2-Dichloropropane         | 160000  | U |   |
| 75-27-4    | Bromodichloromethane        | 160000  | U |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | 160000  | U |   |
| 108-10-1   | 4-Methyl-2-Pentanone        | 160000  | U |   |
| 108-88-3   | Toluene                     | 160000  | U |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | 160000  | U |   |
| 79-00-5    | 1,1,2-Trichloroethane       | 160000  | U |   |
| 127-18-4   | Tetrachloroethene           | 1400000 | U | 3 |
| 591-78-6   | 2-Hexanone                  | 160000  | U | 3 |
| 124-48-1   | Dibromochloromethane        | 160000  | U |   |
| 106-93-4   | 1,2-Dibromoethane           | 160000  | U |   |
| 108-90-7   | Chlorobenzene               | 160000  | U |   |
| 100-41-4   | Ethylbenzene                | 160000  | U |   |
| 1330-20-7  | Xylene (Total)              | 160000  | U |   |
| 100-42-5   | Styrene                     | 160000  | U |   |
| 75-25-2    | Bromoform                   | 160000  | U |   |
| 98-82-8    | Isopropylbenzene            | 160000  | U |   |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 160000  | U |   |
| 541-73-1   | 1,3-Dichlorobenzene         | 160000  | U |   |
| 106-46-7   | 1,4-Dichlorobenzene         | 160000  | U |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 160000  | U |   |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 160000  | U |   |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 160000  | U |   |

FORM I VOA-2

OLM04.2

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472016

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: 472016DA59

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 15

Date Analyzed: 10/25/04

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (ul)

Soil Aliquot Volume: 100 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|           |                                       |      |   |   |
|-----------|---------------------------------------|------|---|---|
| 75-71-8   | Dichlorodifluoromethane               | 1500 | U | 3 |
| 74-87-3   | Chloromethane                         | 1500 | U |   |
| 75-01-4   | Vinyl Chloride                        | 1500 | U |   |
| 74-83-9   | Bromomethane                          | 1500 | U |   |
| 75-00-3   | Chloroethane                          | 1500 | U |   |
| 75-69-4   | Trichlorofluoromethane                | 1500 | U |   |
| 75-35-4   | 1,1-Dichloroethene                    | 1500 | U |   |
| 76-13-1   | 1,1,2-Trichloro-1,2,2-trifluoroethane | 1500 | U |   |
| 67-64-1   | Acetone                               | 1500 | U |   |
| 75-15-0   | Carbon Disulfide                      | 1500 | U |   |
| 79-20-9   | Methyl Acetate                        | 1500 | U |   |
| 75-09-2   | Methylene Chloride                    | 1500 | U |   |
| 156-60-5  | trans-1,2-Dichloroethene              | 1500 | U |   |
| 1634-04-4 | Methyl tert-Butyl Ether               | 1500 | U |   |
| 75-34-3   | 1,1-Dichloroethane                    | 1500 | U |   |
| 156-59-2  | cis-1,2-Dichloroethene                | 1500 | U |   |
| 78-93-3   | 2-Butanone                            | 1500 | U |   |
| 67-66-3   | Chloroform                            | 1500 | U |   |
| 71-55-6   | 1,1,1-Trichloroethane                 | 1500 | U |   |
| 110-82-7  | Cyclohexane                           | 1500 | U |   |
| 56-23-5   | Carbon Tetrachloride                  | 1500 | U |   |
| 71-43-2   | Benzene                               | 1500 | U |   |
| 107-06-2  | 1,2-Dichloroethane                    | 1500 | U |   |

FORM I VOA-1

OLM04.2

1B  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Matrix: (soil/water) SOIL

Lab Sample ID: 472016

Sample wt/vol: 4.0(g/mL) G

Lab File ID: 472016DA59

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 15

Date Analyzed: 10/25/04

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(uL)

Soil Aliquot Volume: 100(uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|            |                             |      |   |
|------------|-----------------------------|------|---|
| 79-01-6    | Trichloroethene             | 1500 | U |
| 108-87-2   | Methylcyclohexane           | 1500 | U |
| 78-87-5    | 1,2-Dichloropropane         | 1500 | U |
| 75-27-4    | Bromodichloromethane        | 1500 | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1500 | U |
| 108-10-1   | 4-Methyl-2-Pentanone        | 280  | U |
| 108-88-3   | Toluene                     | 1500 | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1500 | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1500 | U |
| 127-18-4   | Tetrachloroethene           | 3400 | U |
| 591-78-6   | 2-Hexanone                  | 1500 | U |
| 124-48-1   | Dibromochloromethane        | 1500 | U |
| 106-93-4   | 1,2-Dibromoethane           | 1500 | U |
| 108-90-7   | Chlorobenzene               | 1500 | U |
| 100-41-4   | Ethylbenzene                | 1500 | U |
| 1330-20-7  | Xylene (Total)              | 1500 | U |
| 100-42-5   | Styrene                     | 1500 | U |
| 75-25-2    | Bromoform                   | 1500 | U |
| 98-82-8    | Isopropylbenzene            | 1500 | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1500 | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1500 | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1500 | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1500 | U |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 1500 | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1500 | U |

FORM I VOA-2

*Handwritten signature*  
12/3/04

OLM04.2



## **ATTACHMENT B**

### **SUPPORT DOCUMENTATION**

# CompuChem

a division of Liberty Analytical Corporation

501 Madison Avenue

Cary, N.C. 27513

Tel: 919/379-4100 Fax: 919/379-4050

## SDG NARRATIVE

SDG # 4720

CONTRACT # NYASP

**SAMPLE IDENTIFICATIONS: SB-1, SB-2, SB-3, SB-4, SB-5, SB-6, SB-7, SB-8, SB-9, SB-10, SB-11, SB-12, SB-13, SB-15, SB-16**

The fifteen (15) solid samples listed above were received intact, properly refrigerated at a temperature of 2.4°C, with proper documentation, on October 15, 2004. The samples were scheduled for the requested analyses of the volatile fraction.

The initial analysis holding time requirements were met for the samples.

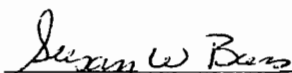
Samples SB-1, SB-3, and SB-8 were reported from a low level analysis. All of these samples had tetrachloroethene above the initial calibration range. They along with all of the other samples were reported from a medium level analysis. They all contained high levels of at least one compound except the analysis of sample SB-8. Sample SB-8 did not show any tetrachloroethene. In the low level analysis, it was slightly above the initial calibration range. We have reported both analyses. Tentatively Identified Compounds (TICs) were found in samples SB-10, SB-12, SB-13, SB-4, SB-5, SB-6, SB-8, and SB-7.

Manual quantitations were performed on one or more of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

All bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG except the BFB on instrument 55 on 10/14/04. This BFB was associated only with the initial calibration. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

All of the system monitoring compounds met recovery criteria in the analyses of these samples except the low level for SB-8 and the matrix spike. All of the internal standards met response and retention time criteria in the analyses of these samples. The associated method blanks met all quality control criteria. Sample SB-5 was used to prepare the matrix spikes. They passed the majority of the precision and accuracy criteria. A laboratory control sample was also provided that passed all QC criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Susan W. Bass

Director of Laboratory Operations

November 15, 2004

# CHAIN OF CUSTODY RECORD

PROJECT NO. 1173884.0000 SITE NAME NYSDCC-BIRMINGHAM

SAMPLERS (PRINT/SIGNATURE) Kevin J. McGowan

DELIVERY SERVICE: FedEx AIRBILL NO.: 99275166 2009

| LOCATION IDENTIFIER | DATE     | TIME  | COMP/GRAB | SAMPLE ID     | MATRIX | TOTAL NO. # OF CONTAINERS |
|---------------------|----------|-------|-----------|---------------|--------|---------------------------|
| SB-4                | 10/13/04 | 17:10 | GRAB      | SB4-3'-4'     | SO     | 1                         |
| SB-5                | 11:10    |       |           | SB5-4'-6'     |        |                           |
|                     |          |       |           | SB5-4'-6'-MS  |        |                           |
|                     |          |       |           | SB5-4'-6'-MSD |        |                           |
| SB-6                | 14:55    |       |           | SB6-4'-5'     |        |                           |
| SB-7                | 15:40    |       |           | SB7-3'-1'     |        |                           |
| SB-10               | 16:10    |       |           | SB10-1'-2'    |        |                           |
| SB-11               | 15:20    |       |           | SB11-3'-4'    |        |                           |
| SB-12               | 17:30    |       |           | SB12-7'-8'    |        |                           |
| SB-15               | 16:35    |       |           | SB15-5'-6'    |        |                           |
| SB-1                | 10/14/04 | 11:00 |           | SB1-3'-4'     |        |                           |
| SB-2                | 11:25    |       |           | SB2-3'-4'     |        |                           |
| SB-3                | 11:45    |       |           | SB3-3'-4'     |        |                           |

| MATRIX CODES      | AA - AMBIENT AIR | SE - SEDIMENT                | SH - HAZARDOUS SOLID WASTE | SL - SLUDGE           | WG - GROUND WATER                | WS - SOIL          | WC - DRILL CUTTINGS | WL - LEACHATE | GS - SOIL GAS | WG - DRILLING WATER | WO - OCEAN WATER | WS - SURFACE WATER | WF - FLOATING/FREE PRODUCT ON GW TABLE | LF - FLOATING/FREE PRODUCT ON GW TABLE |
|-------------------|------------------|------------------------------|----------------------------|-----------------------|----------------------------------|--------------------|---------------------|---------------|---------------|---------------------|------------------|--------------------|----------------------------------------|----------------------------------------|
| SAMPLE TYPE CODES | TB# - TRIP BLANK | SD# - MATRIX SPIKE DUPLICATE | RB# - RINSE BLANK          | FR# - FIELD REPLICATE | N# - NORMAL ENVIRONMENTAL SAMPLE | MS# - MATRIX SPIKE |                     |               |               |                     |                  |                    |                                        |                                        |

| RELINQUISHED BY (SIGNATURE) | DATE     | TIME  | RECEIVED BY (SIGNATURE)         | DATE     | TIME  |
|-----------------------------|----------|-------|---------------------------------|----------|-------|
| <i>[Signature]</i>          | 10/14/04 | 16:10 | <i>[Signature]</i>              | 10/14/04 | 18:45 |
| RELINQUISHED BY (SIGNATURE) | DATE     | TIME  | RECEIVED FOR LAB BY (SIGNATURE) | DATE     | TIME  |
|                             |          |       |                                 |          |       |

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C1 OF 1/CJCR/GCM

TEMP 2.4 C

## TESTS

TCL VOCs  
610 TLCS  
VIA METHOD  
OLM04.2

## BOTTLE TYPE AND PRESERVATIVE

| REMARKS          | SAMPLE TYPE | BEGINNING DEPTH (IN FEET) | ENDING DEPTH (IN FEET) | FIELD LOT NO. # (EPIRMS) |
|------------------|-------------|---------------------------|------------------------|--------------------------|
| HL: 2600 PPM     | N1          | 3                         | 4                      |                          |
|                  |             | 4                         | 6                      |                          |
|                  | MS          | 4                         | 6                      |                          |
|                  | SDI         | 4                         | 6                      |                          |
| P10 = 5280 PPM   | N1          | 4                         | 5                      |                          |
| P10 = 1138 PPM   |             | 3                         | 1                      |                          |
| P10 = 1790 PPM   |             | 1                         | 2                      |                          |
| P10 = 4657 PPM   |             | 3                         | 4                      |                          |
| P10 = 1759 PPM   |             | 7                         | 8                      |                          |
| > 9999 PPM (HCC) |             | 5                         | 6                      |                          |
|                  | MS          | 3                         | 4                      |                          |
|                  |             | 3                         | 4                      |                          |
|                  |             | 3                         | 4                      |                          |

# URS

LAB COMPAN CHGM

COOLER 1 of 1

PAGE 1 of 2

SPECIAL INSTRUCTIONS: Send Invoice to ASP  
Cat B/Full Data Package to:  
Anne-Marie Knapovich  
URS Corporation  
77 Goodwin St.  
Burlington, NY 14203  
(716) 856-5636  
Include EDD

# CHAIN OF CUSTODY RECORD

PROJECT NO. 111 7388 4.00000  
SITE NAME NYSDOS - Dining  
SAMPLERS (PRINT/SIGNATURE) *Kenn J. McGowan*

DELIVERY SERVICE: *Fee Ex* AIRBILL NO.: 7927 518 62099



LAB *Compu Chem*  
COOLER 1 of 1  
PAGE 2 of 2

TESTS  
TCL VOCs + 10 TICs  
VIA METHOD  
OLMO 4.2  
BOTTLE TYPE AND PRESERVATIVE

| LOCATION IDENTIFIER | DATE     | TIME  | COMP/GRAB | SAMPLE ID     | MATRIX | TOTAL NO. OF CONTAINERS | REMARKS | SAMPLE TYPE | BEGINNING DEPTH (IN FEET) | ENDING DEPTH (IN FEET) | FIELD LOT NO. # (EXPIRATION) |
|---------------------|----------|-------|-----------|---------------|--------|-------------------------|---------|-------------|---------------------------|------------------------|------------------------------|
| SB-8                | 10/14/04 | 09:40 | GROB      | SB8-5-6'      | SO     | 1                       |         |             | 472012                    | 472012                 |                              |
| SB-9                |          | 10:00 |           | SB9-2-3'      |        |                         |         |             | 472013                    | 472013                 |                              |
| SB-13               |          | 09:05 |           | SB13-7-8'     |        |                         |         |             | 472014                    | 472014                 |                              |
| SB-14               |          | 08:35 |           | SB14-4-5'     |        |                         |         |             | 472015                    | 472015                 |                              |
|                     |          |       |           | SB14-4-5'-MS  |        |                         |         |             |                           |                        |                              |
|                     |          |       |           | SB14-4-5'-MSO |        |                         |         |             |                           |                        |                              |
| SB-16               |          | 10:30 |           | SB16-6-7'     |        |                         |         |             | 472016                    | 472016                 |                              |

| MATRIX CODES      | AA - AMBIENT AIR            | SL - SLUDGE          | WG - GROUND WATER                | WL - LEACHATE       | WO - OCEAN WATER    | UH - HAZARDOUS LIQUID WASTE            |
|-------------------|-----------------------------|----------------------|----------------------------------|---------------------|---------------------|----------------------------------------|
| SAMPLE TYPE CODES | SE - SEDIMENT               | WP - DRINKING WATER  | SO - SOIL                        | GS - SOIL GAS       | WS - SURFACE WATER  | LF - FLOATING/FREE PRODUCT ON GW TABLE |
|                   | SH - HAZARDOUS SOLID WASTE  | WW - WASTE WATER     | DC - DRILL CUTTINGS              | WO - DRILLING WATER | WQ - WATER FIELD QC |                                        |
|                   | TBA - TRIP BLANK            | RB - RINSE BLANK     | NP - NORMAL ENVIRONMENTAL SAMPLE |                     |                     |                                        |
|                   | SD - MATRIX SPIKE DUPLICATE | FR - FIELD REPLICATE | MS - MATRIX SPIKE                |                     |                     |                                        |

| RELINQUISHED BY (SIGNATURE) | DATE     | TIME  | RECEIVED BY (SIGNATURE)         | DATE     | TIME  | SPECIAL INSTRUCTIONS |
|-----------------------------|----------|-------|---------------------------------|----------|-------|----------------------|
| <i>[Signature]</i>          | 10/14/04 | 16:00 | <i>[Signature]</i>              | 10/15/04 | 10:45 |                      |
| RELINQUISHED BY (SIGNATURE) | DATE     | TIME  | RECEIVED FOR LAB BY (SIGNATURE) | DATE     | TIME  |                      |
|                             |          |       |                                 |          |       | - See Page 1 of 2    |

Distribution: Original accompanies shipment, copy to coordinator field files

Temp 2.4C

# CHAIN OF CUSTODY RECORD

PROJECT NO. 1173884.0000 SITE NAME NYSDGC - DIMENSION  
 SAMPLERS (PRINT/SIGNATURE) Kenn J. Mc Gowan

DELIVERY SERVICE: Fed Ex AIRBILL NO.: 9927 5166 2039

| LOCATION IDENTIFIER | DATE     | TIME  | COMP/GRAB | SAMPLE ID     | MATRIX | TOTAL NO. # OF CONTAINERS |
|---------------------|----------|-------|-----------|---------------|--------|---------------------------|
| SB-4                | 10/13/04 | 17:10 | GRAB      | SB4-3'-4'     | SO     | 1                         |
| SB-5                | 11:10    |       |           | SB5-4'-6'     |        |                           |
| ↓                   |          |       |           | SB5-4'-6'-MS  |        |                           |
|                     |          |       |           | SB5-4'-6'-MSD |        |                           |
| SB-6                | 14:55    |       |           | SB6-4'-5'     |        |                           |
| SB-7                | 15:40    |       |           | SB7-3'-1'     |        |                           |
| SB-10               | 16:10    |       |           | SB10-1'-2'    |        |                           |
| SB-11               | 15:20    |       |           | SB11-3'-4'    |        |                           |
| SB-12               | 17:30    |       |           | SB12-7'-8'    |        |                           |
| SB-15               | 16:35    |       |           | SB15-5'-6'    |        |                           |
| SB-1                | 10/14/04 | 11:00 |           | SB1-3'-4'     |        |                           |
| SB-2                | 11:25    |       |           | SB2-3'-4'     |        |                           |
| SB-3                | 11:45    |       |           | SB3-3'-4'     |        |                           |

| MATRIX CODES      | AA - AMBIENT AIR | SE - SEDIMENT                | SH - HAZARDOUS SOLID WASTE | SL - SLUDGE           | WF - DRINKING WATER              | WW - WASTE WATER   | WG - GROUND WATER | WS - SOIL | WC - DRILL CUTTINGS | WL - LEACHATE | GS - SOIL GAS | WG - DRILLING WATER | WO - OCEAN WATER | WS - SURFACE WATER | WF - FLOATING/FREE PRODUCT ON GW TABLE |
|-------------------|------------------|------------------------------|----------------------------|-----------------------|----------------------------------|--------------------|-------------------|-----------|---------------------|---------------|---------------|---------------------|------------------|--------------------|----------------------------------------|
| SAMPLE TYPE CODES | TB# - TRIP BLANK | SD# - MATRIX SPIKE DUPLICATE | RB# - RINSE BLANK          | FR# - FIELD REPLICATE | N# - NORMAL ENVIRONMENTAL SAMPLE | MS# - MATRIX SPIKE |                   |           |                     |               |               |                     |                  |                    |                                        |

| RELINQUISHED BY (SIGNATURE) | DATE     | TIME  | RECEIVED BY (SIGNATURE)         | DATE     | TIME  |
|-----------------------------|----------|-------|---------------------------------|----------|-------|
| <u>[Signature]</u>          | 10/14/04 | 16:30 | <u>[Signature]</u>              | 10/14/04 | 16:45 |
| RELINQUISHED BY (SIGNATURE) | DATE     | TIME  | RECEIVED FOR LAB BY (SIGNATURE) | DATE     | TIME  |
|                             |          |       |                                 |          |       |

Distribution: Original accompanies shipment, copy to coordinator field files

URS-075C/1 OF 1/COT/RCM

TEMP 2.4 C

# URS

LAB Compa Calgon  
 COOLER 1 of 1  
 PAGE 1 of 2

BOTTLE TYPE AND PRESERVATIVE

| REMARKS          | SAMPLE TYPE | BEGINNING DEPTH (IN FEET) | ENDING DEPTH (IN FEET) | FIELD LOT NO. # (BRMS) |
|------------------|-------------|---------------------------|------------------------|------------------------|
|                  | N1          | 3                         | 4                      |                        |
| Alt: 2600 PPM    |             | 4                         | 6                      |                        |
| ↓                | MS          | 4                         | 6                      |                        |
| ↓                | SD1         | 4                         | 6                      |                        |
| P10 = 5200 PPM   | N1          | 4                         | 5                      |                        |
| P10 = 1138 PPM   |             | 3                         | 1                      |                        |
| P10 = 1390 PPM   |             | 1                         | 2                      |                        |
| P10 = 4653 PPM   |             | 3                         | 4                      |                        |
| P10 = 1759 PPM   |             | 7                         | 8                      |                        |
| > 9999 PPM (400) | 4           | 5                         | 6                      |                        |
|                  | 42          | 3                         | 4                      |                        |
|                  | ↓           | 3                         | 4                      |                        |
|                  | ↓           | 3                         | 4                      |                        |
|                  |             | 3                         | 4                      |                        |

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

SPECIAL INSTRUCTIONS See Invoice & ASP  
Car B / Full Risk Package to:  
Ames-Mario Knopovitch  
URS Corporation  
77 Gannon St.  
Buffalo, NY 14203  
(716) 856-5636  
Include EDD

# CHAIN OF CUSTODY RECORD

PROJECT NO. 111 7388 4.00000  
 SITE NAME NYSDOG - Dineburg

SAMPLERS (PRINT/SIGNATURE)  
 Kevin J. McGowan

DELIVERY SERVICE: Fed Ex  
 AIRBILL NO.: 7927 518 62099

| LOCATION IDENTIFIER | DATE     | TIME  | COMP/GRAB | SAMPLE ID      | MATRIX |
|---------------------|----------|-------|-----------|----------------|--------|
| SB-8                | 10/14/04 | 09:40 | GRAB      | SB8-5-56'      | SO     |
| SB-9                |          | 10:00 |           | SB9-2-53'      |        |
| SB-13               |          | 09:05 |           | SB13-7-58'     |        |
| SB-14               |          | 08:35 |           | SB14-4-55'     |        |
|                     |          |       |           | SB14-4-55'-MS  |        |
|                     |          |       |           | SB14-4-55'-MSO |        |
| SB-16               |          | 10:30 |           | SB16-6-57'     |        |

TOTAL NO. OF CONTAINERS

402 Grass w/ICE

## TESTS

TCL VOCs + 10 TCs  
 VA Method  
 OLMO 4.2

## BOTTLE TYPE AND PRESERVATIVE

# URS

LAB Comp Chem  
 COOLER 1 of 1  
 PAGE 2 of 2

| REMARKS                          | SAMPLE TYPE | BEGINNING DEPTH (IN FEET) | ENDING DEPTH (IN FEET) | FIELD LOT NO. # (EPHMS) |
|----------------------------------|-------------|---------------------------|------------------------|-------------------------|
|                                  | N2          | 5                         | 6                      |                         |
|                                  | 1           | 2                         | 3                      |                         |
|                                  | 1           | 7                         | 8                      |                         |
|                                  | 1           | 4                         | 5                      |                         |
| 610 Canned Air<br>Feather w/Case | N2          | 4                         | 5                      |                         |
|                                  | SO2         | 4                         | 5                      |                         |
|                                  | N2          | 6                         | 7                      |                         |

| MATRIX CODES      | AA - AMBIENT AIR | SE - SEDIMENT                | SH - HAZARDOUS SOLID WASTE | SL - SLUDGE       | WP - DRINKING WATER   | WW - WASTE WATER   | WG - GROUND WATER  | WS - SOIL          | DC - DRILL CUTTINGS | WL - LEACHATE      | GS - SOIL GAS      | WC - DRILLING WATER | WO - OCEAN WATER   | WS - SURFACE WATER | WO - WATER FIELD QC | LH - HAZARDOUS LIQUID WASTE | LF - FLOATING/FREE PRODUCT ON GW TABLE |
|-------------------|------------------|------------------------------|----------------------------|-------------------|-----------------------|--------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|-----------------------------|----------------------------------------|
| SAMPLE TYPE CODES | TS# - TRIP BLANK | SD# - MATRIX SPIKE DUPLICATE | FR# - FIELD REPLICATE      | RB# - RINSE BLANK | FR# - FIELD REPLICATE | NS# - MATRIX SPIKE | NS# - MATRIX SPIKE | NS# - MATRIX SPIKE | NS# - MATRIX SPIKE  | NS# - MATRIX SPIKE | NS# - MATRIX SPIKE | NS# - MATRIX SPIKE  | NS# - MATRIX SPIKE | NS# - MATRIX SPIKE | NS# - MATRIX SPIKE  | NS# - MATRIX SPIKE          | NS# - MATRIX SPIKE                     |

| RELINQUISHED BY (SIGNATURE) | DATE     | TIME  | RECEIVED BY (SIGNATURE)         | DATE     | TIME  |
|-----------------------------|----------|-------|---------------------------------|----------|-------|
|                             | 10/14/04 | 16:00 |                                 | 10/15/04 | 10:45 |
| RELINQUISHED BY (SIGNATURE) | DATE     | TIME  | RECEIVED FOR LAB BY (SIGNATURE) | DATE     | TIME  |
|                             |          |       |                                 |          |       |

Special Instructions: - See Page 1 of 2

Distribution: Original accompanies shipment, copy to coordinator field files

2B  
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Level: (low/med) LOW

|    | EPA<br>SAMPLE NO. | SMC1<br>(TOL) # | SMC2<br>(BFB) # | SMC3<br>(DCE) # | OTHER | TOT<br>OUT |
|----|-------------------|-----------------|-----------------|-----------------|-------|------------|
| 01 | VBLKCV            | 106             | 96              | 98              |       | 0          |
| 02 | SB-1              | 107             | 89              | 105             |       | 0          |
| 03 | SB-3              | 114             | 90              | 111             |       | 0          |
| 04 | SB-8              | 118             | 100             | 123*            |       | 1          |
| 05 |                   |                 |                 |                 |       |            |
| 06 |                   |                 |                 |                 |       |            |
| 07 |                   |                 |                 |                 |       |            |
| 08 |                   |                 |                 |                 |       |            |
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| 28 |                   |                 |                 |                 |       |            |
| 29 |                   |                 |                 |                 |       |            |
| 30 |                   |                 |                 |                 |       |            |

QC LIMITS

SMC1 (TOL) = Toluene-d8 (84-138)  
 SMC2 (BFB) = Bromofluorobenzene (59-113)  
 SMC3 (DCE) = 1,2-Dichloroethane-d4 (70-121)

# Column to be used to flag recovery values

\* Values outside of contract required QC limits

5A  
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Lab File ID: BF041020A55

BFB Injection Date: 10/20/04

Instrument ID: F50055

BFB Injection Time: 0906

GC Column: EQUITY624 ID: 0.53 (mm)

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0% of mass 95            | 15.6                 |
| 75  | 30.0 - 60.0% of mass 95            | 42.6                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0% of mass 95              | 6.9                  |
| 173 | Less than 2.0% of mass 174         | 0.0 ( 0.0)1          |
| 174 | Greater than 50.0% of mass 95      | 77.9                 |
| 175 | 5.0 - 9.0% of mass 174             | 5.0 ( 6.5)1          |
| 176 | 95.0 - 101.0% of mass 174          | 78.5 (100.8)1        |
| 177 | 5.0 - 9.0% of mass 176             | 5.4 ( 6.9)2          |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

|    | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|----|-------------------|------------------|----------------|------------------|------------------|
| 01 | VSTD050GM         | VSTD050GM        | CT041020A55    | 10/20/04         | 1047             |
| 02 | VBLKCV            | 49945            | 49945A55       | 10/20/04         | 1214             |
| 03 | SB-1              | 472009           | 472009A55      | 10/20/04         | 1828             |
| 04 | SB-3              | 472011           | 472011A55      | 10/20/04         | 1932             |
| 05 | SB-8              | 472012           | 472012A55      | 10/20/04         | 2003             |
| 06 |                   |                  |                |                  |                  |
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7A  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Instrument ID: F50055

Calibration Date: 10/20/04 Time: 1047

Lab File ID: CT041020A55

Init. Calib. Date(s): 10/14/04 10/14/04

EPA Sample No. (VSTD050##): VSTD050GM

Init. Calib. Times: 1744 1944

Heated Purge: (Y/N) Y

GC Column: EQUITY624 ID: 0.53 (mm)

| COMPOUND                              | RRF   | RRF50 | MIN<br>RRF | %D    | MAX<br>%D |
|---------------------------------------|-------|-------|------------|-------|-----------|
| Dichlorodifluoromethane               | 3.164 | 2.184 |            | -31.0 |           |
| Chloromethane                         | 1.321 | 0.827 |            | -37.4 |           |
| Vinyl Chloride                        | 1.365 | 0.864 | 0.100      | -36.7 | 25.0      |
| Bromomethane                          | 1.427 | 1.438 | 0.100      | 0.8   | 25.0      |
| Chloroethane                          | 0.553 | 0.841 |            | 52.1  |           |
| Trichlorofluoromethane                | 2.597 | 4.007 |            | 54.3  |           |
| 1,1-Dichloroethene                    | 1.023 | 1.067 | 0.100      | 4.3   | 25.0      |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2.099 | 2.814 |            | 34.1  |           |
| Acetone                               | 0.225 | 0.226 |            | 0.4   |           |
| Carbon Disulfide                      | 3.213 | 2.926 |            | -8.9  |           |
| Methyl Acetate                        | 0.506 | 0.417 |            | -17.6 |           |
| Methylene Chloride                    | 1.271 | 1.121 |            | -11.8 |           |
| trans-1,2-Dichloroethene              | 0.985 | 1.094 |            | 11.1  |           |
| Methyl-tert-butyl ether               | 1.560 | 1.594 |            | 2.2   |           |
| 1,1-Dichloroethane                    | 2.212 | 2.406 | 0.200      | 8.8   | 25.0      |
| cis-1,2-Dichloroethene                | 1.027 | 1.041 |            | 1.4   |           |
| 2-Butanone                            | 0.370 | 0.265 |            | -28.4 |           |
| Chloroform                            | 2.924 | 2.954 | 0.200      | 1.0   | 25.0      |
| 1,1,1-Trichloroethane                 | 0.638 | 0.757 | 0.100      | 18.7  | 25.0      |
| Cyclohexane                           | 0.323 | 0.310 |            | -4.0  |           |
| Carbon Tetrachloride                  | 0.656 | 0.890 | 0.100      | 35.7  | 25.0      |
| Benzene                               | 0.740 | 0.679 | 0.500      | -8.2  | 25.0      |
| 1,2-Dichloroethane                    | 1.456 | 1.437 | 0.100      | -1.3  | 25.0      |
| Trichloroethene                       | 0.412 | 0.423 | 0.300      | 2.7   | 25.0      |
| Methylcyclohexane                     | 0.422 | 0.367 |            | -13.0 |           |

All other compounds must meet a minimum RRF of 0.010.

7B  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM Contract: NYASP  
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 4720  
 Instrument ID: F50055 Calibration Date: 10/20/04 Time: 1047  
 Lab File ID: CT041020A55 Init. Calib. Date(s): 10/14/04 10/14/04  
 EPA Sample No. (VSTD050##): VSTD050GM Init. Calib. Times: 1744 1944  
 Heated Purge: (Y/N) Y  
 GC Column: EQUITY624 ID: 0.53 (mm)

| COMPOUND                    | RRF   | RRF50 | MIN RRF | %D    | MAX %D |
|-----------------------------|-------|-------|---------|-------|--------|
| 1,2-Dichloropropane         | 0.349 | 0.294 |         | -15.8 |        |
| Bromodichloromethane        | 0.751 | 0.700 | 0.200   | -6.8  | 25.0   |
| cis-1,3-Dichloropropene     | 0.416 | 0.357 | 0.200   | -14.2 | 25.0   |
| 4-Methyl-2-Pentanone        | 0.231 | 0.153 |         | -33.8 |        |
| Toluene                     | 1.080 | 0.934 | 0.400   | -13.5 | 25.0   |
| trans-1,3-Dichloropropene   | 0.402 | 0.314 | 0.100   | -21.9 | 25.0   |
| 1,1,2-Trichloroethane       | 0.340 | 0.283 | 0.100   | -16.8 | 25.0   |
| Tetrachloroethene           | 0.561 | 0.557 | 0.200   | -0.7  | 25.0   |
| 2-Hexanone                  | 0.169 | 0.133 |         | -21.3 |        |
| Dibromochloromethane        | 0.820 | 0.871 | 0.100   | 6.2   | 25.0   |
| 1,2-Dibromoethane           | 0.630 | 0.604 |         | -4.1  |        |
| Chlorobenzene               | 0.887 | 0.891 | 0.500   | 0.5   | 25.0   |
| Ethylbenzene                | 0.399 | 0.369 | 0.100   | -7.5  | 25.0   |
| Xylene (Total)              | 0.496 | 0.454 | 0.300   | -8.5  | 25.0   |
| Styrene                     | 0.588 | 0.527 | 0.300   | -10.4 | 25.0   |
| Bromoform                   | 0.684 | 0.676 | 0.100   | -1.2  | 25.0   |
| Isopropylbenzene            | 1.450 | 1.323 |         | -8.8  |        |
| 1,1,2,2-Tetrachloroethane   | 0.734 | 0.551 | 0.300   | -24.9 | 25.0   |
| 1,3-Dichlorobenzene         | 1.039 | 1.023 | 0.600   | -1.5  | 25.0   |
| 1,4-Dichlorobenzene         | 1.072 | 1.072 | 0.500   | 0.0   | 25.0   |
| 1,2-Dichlorobenzene         | 0.955 | 0.906 | 0.400   | -5.1  | 25.0   |
| 1,2-Dibromo-3-Chloropropane | 0.214 | 0.144 |         | -32.7 |        |
| 1,2,4-Trichlorobenzene      | 0.860 | 0.810 | 0.200   | -5.8  | 25.0   |
| Toluene-d8                  | 1.050 | 0.930 |         | -11.4 |        |
| Bromofluorobenzene          | 0.987 | 0.936 | 0.200   | -5.2  | 25.0   |
| 1,2-Dichloroethane-d4       | 1.285 | 1.296 |         | 0.9   |        |

All other compounds must meet a minimum RRF of 0.010.

5A  
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Lab File ID: BF041023A55

BFB Injection Date: 10/23/04

Instrument ID: F50055

BFB Injection Time: 0943

GC Column: EQUITY624 ID: 0.53 (mm)

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0% of mass 95            | 15.6                 |
| 75  | 30.0 - 60.0% of mass 95            | 43.2                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0% of mass 95              | 7.1                  |
| 173 | Less than 2.0% of mass 174         | 0.0 ( 0.0)1          |
| 174 | Greater than 50.0% of mass 95      | 81.8                 |
| 175 | 5.0 - 9.0% of mass 174             | 6.9 ( 8.4)1          |
| 176 | 95.0 - 101.0% of mass 174          | 78.2 ( 95.6)1        |
| 177 | 5.0 - 9.0% of mass 176             | 5.8 ( 7.4)2          |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

|    | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|----|-------------------|------------------|----------------|------------------|------------------|
| 01 | VSTD050GW         | VSTD050GW        | CS041023A55    | 10/23/04         | 1014             |
| 02 | VBLKBV            | 49888            | 49888A55       | 10/23/04         | 1053             |
| 03 | VBWLCS            | 49892            | 49892A55       | 10/23/04         | 1136             |
| 04 | SB-4              | 472001           | 472001D2A55    | 10/23/04         | 1218             |
| 05 | SB-6              | 472002           | 472002D2A55    | 10/23/04         | 1249             |
| 06 |                   |                  |                |                  |                  |
| 07 |                   |                  |                |                  |                  |
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| 22 |                   |                  |                |                  |                  |

7A  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM Contract: NYASP  
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 4720  
 Instrument ID: F50055 Calibration Date: 10/23/04 Time: 1014  
 Lab File ID: CS041023A55 Init. Calib. Date(s): 10/21/04 10/21/04  
 EPA Sample No. (VSTD050##): VSTD050GW Init. Calib. Times: 1407 1614  
 Heated Purge: (Y/N) N  
 GC Column: EQUITY624 ID: 0.53 (mm)

| COMPOUND                              | RRF   | RRF50 | MIN RRF | %D   | MAX %D |
|---------------------------------------|-------|-------|---------|------|--------|
| Dichlorodifluoromethane               | 1.883 | 2.005 |         | 6.5  |        |
| Chloromethane                         | 0.803 | 0.848 |         | 5.6  |        |
| Vinyl Chloride                        | 0.872 | 0.935 | 0.100   | 7.2  | 25.0   |
| Bromomethane                          | 1.187 | 1.350 | 0.100   | 13.7 | 25.0   |
| Chloroethane                          | 0.597 | 0.770 |         | 29.0 |        |
| Trichlorofluoromethane                | 3.771 | 3.823 |         | 1.4  |        |
| 1,1-Dichloroethene                    | 1.042 | 1.068 | 0.100   | 2.5  | 25.0   |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2.730 | 2.871 |         | 5.2  |        |
| Acetone                               | 0.240 | 0.322 |         | 34.2 |        |
| Carbon Disulfide                      | 2.701 | 3.037 |         | 12.4 |        |
| Methyl Acetate                        | 0.426 | 0.483 |         | 13.4 |        |
| Methylene Chloride                    | 1.067 | 1.100 |         | 3.1  |        |
| trans-1,2-Dichloroethene              | 1.039 | 1.074 |         | 3.4  |        |
| Methyl tert-Butyl Ether               | 1.747 | 1.659 |         | -5.0 |        |
| 1,1-Dichloroethane                    | 2.338 | 2.326 | 0.200   | -0.5 | 25.0   |
| cis-1,2-Dichloroethene                | 1.054 | 1.076 |         | 2.1  |        |
| 2-Butanone                            | 0.284 | 0.347 |         | 22.2 |        |
| Chloroform                            | 2.785 | 2.773 | 0.200   | -0.4 | 25.0   |
| 1,1,1-Trichloroethane                 | 0.695 | 0.728 | 0.100   | 4.7  | 25.0   |
| Cyclohexane                           | 0.325 | 0.306 |         | -5.8 |        |
| Carbon Tetrachloride                  | 0.800 | 0.864 | 0.100   | 8.0  | 25.0   |
| Benzene                               | 0.686 | 0.661 | 0.500   | -3.6 | 25.0   |
| 1,2-Dichloroethane                    | 1.405 | 1.301 | 0.100   | -7.4 | 25.0   |
| Trichloroethene                       | 0.431 | 0.465 | 0.300   | 7.9  | 25.0   |
| Methylcyclohexane                     | 0.373 | 0.359 |         | -3.8 |        |

All other compounds must meet a minimum RRF of 0.010.

7B  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCEM

Contract: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4720

Instrument ID: F50055

Calibration Date: 10/23/04 Time: 1014

Lab File ID: CS041023A55

Init. Calib. Date(s): 10/21/04 10/21/04

EPA Sample No. (VSTD050##): VSTD050GW

Init. Calib. Times: 1407 1614

Leaked Purge: (Y/N) N

GC Column: EQUITY624 ID: 0.53 (mm)

| COMPOUND                    | RRF   | RRF50 | MIN RRF | %D   | MAX %D |
|-----------------------------|-------|-------|---------|------|--------|
| 1,2-Dichloropropane         | 0.313 | 0.299 |         | -4.5 |        |
| Bromodichloromethane        | 0.701 | 0.699 | 0.200   | -0.3 | 25.0   |
| cis-1,3-Dichloropropene     | 0.358 | 0.366 | 0.200   | 2.2  | 25.0   |
| 4-Methyl-2-Pentanone        | 0.196 | 0.204 |         | 4.1  |        |
| Toluene                     | 1.003 | 0.963 | 0.400   | -4.0 | 25.0   |
| trans-1,3-Dichloropropene   | 0.311 | 0.325 | 0.100   | 4.5  | 25.0   |
| 1,1,2-Trichloroethane       | 0.277 | 0.294 | 0.100   | 6.1  | 25.0   |
| Tetrachloroethene           | 0.588 | 0.707 | 0.200   | 20.2 | 25.0   |
| 2-Hexanone                  | 0.149 | 0.199 |         | 33.6 |        |
| Dibromochloromethane        | 0.784 | 0.867 | 0.100   | 10.6 | 25.0   |
| 1,2-Dibromoethane           | 0.632 | 0.648 |         | 2.5  |        |
| Chlorobenzene               | 0.862 | 0.886 | 0.500   | 2.8  | 25.0   |
| Ethylbenzene                | 0.376 | 0.364 | 0.100   | -3.2 | 25.0   |
| Xylene (Total)              | 0.461 | 0.457 | 0.300   | -0.9 | 25.0   |
| Styrene                     | 0.521 | 0.511 | 0.300   | -1.9 | 25.0   |
| Bromoform                   | 0.610 | 0.702 | 0.100   | 15.1 | 25.0   |
| Isopropylbenzene            | 1.340 | 1.317 |         | -1.7 |        |
| 1,1,2,2-Tetrachloroethane   | 0.590 | 0.650 | 0.300   | 10.2 | 25.0   |
| 1,3-Dichlorobenzene         | 0.965 | 0.991 | 0.600   | 2.7  | 25.0   |
| 1,4-Dichlorobenzene         | 1.015 | 1.075 | 0.500   | 5.9  | 25.0   |
| 1,2-Dichlorobenzene         | 0.910 | 0.965 | 0.400   | 6.0  | 25.0   |
| 1,2-Dibromo-3-Chloropropane | 0.152 | 0.181 |         | 19.1 |        |
| 1,2,4-Trichlorobenzene      | 0.752 | 0.833 | 0.200   | 10.8 | 25.0   |
| Toluene-d8                  | 1.032 | 1.032 |         | 0.0  |        |
| Bromofluorobenzene          | 0.967 | 0.976 | 0.200   | 0.9  | 25.0   |
| 1,2-Dichloroethane-d4       | 1.405 | 1.342 |         | -4.5 |        |

All other compounds must meet a minimum RRF of 0.010.

# CompuChem

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Cary, N.C. 27513

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## SDG NARRATIVE

SDG # 4723

CONTRACT # NYASP

### SAMPLE IDENTIFICATIONS: SB-14

The one (1) solid sample listed above was received intact, properly refrigerated at a temperature of. 2.4°C, with proper documentation, on October 15, 2004. The sample was scheduled for the requested analyses of the volatile fraction.

Analysis holding time requirements were met for the sample. The pH value of this sample is tabulated on the attached batch sheet.

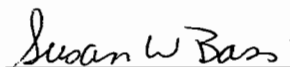
The sample was analyzed as a medium level sample. It contained a compound above the Contract Required Quantitation Limit (CRQL). No Tentatively Identified Compounds (TICs) were found in the sample.

Manual quantitations were performed on one or more of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

All bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

All of the system monitoring compounds met recovery criteria in the analyses of these samples. All of the internal standards met response and retention time criteria in the analyses of these samples. The associated method blanks met all quality control criteria. Sample SB-14 was used to prepare the matrix spikes. They passed all precision and accuracy criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Susan W. Bass

Director of Laboratory Operations

November 9, 2004

FORM 4  
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

VBLKHD

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 4723

Lab File ID: 49476A59

Lab Sample ID: 49476

Date Analyzed: 10/22/04

Time Analyzed: 1027

GC Column: ZB624 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: 5972HP59

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

|    | SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | TIME<br>ANALYZED |
|----|------------|------------------|----------------|------------------|
| 01 | SB-14      | 472301           | 472301D2A59    | 1756             |
| 02 | SB-14MS    | 49951            | 49951A59       | 1823             |
| 03 | SB-14MSD   | 49952            | 49952A59       | 1850             |
| 04 |            |                  |                |                  |
| 05 |            |                  |                |                  |
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COMMENTS:

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKHD

Lab Name: COMPUCEM

Method: NYASP

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4723

Matrix: (soil/water) SOIL

Lab Sample ID: 49476

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: 49476A59

Level: (low/med) MED

Date Received: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 10/22/04

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (10000) (ul)

Soil Aliquot Volume: 100 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|                 |                              |      |   |
|-----------------|------------------------------|------|---|
| 75-71-8-----    | Dichlorodifluoromethane      | 1300 | U |
| 74-87-3-----    | Chloromethane                | 1300 | U |
| 75-01-4-----    | Vinyl Chloride               | 1300 | U |
| 74-83-9-----    | Bromomethane                 | 1300 | U |
| 75-00-3-----    | Chloroethane                 | 1300 | U |
| 75-69-4-----    | Trichlorofluoromethane       | 1300 | U |
| 75-35-4-----    | 1,1-Dichloroethene           | 1300 | U |
| 76-13-1-----    | 1,1,2-trichloro-1,2,2-triflu | 1300 | U |
| 67-64-1-----    | Acetone                      | 630  | J |
| 75-15-0-----    | Carbon Disulfide             | 1300 | U |
| 79-20-9-----    | Methyl Acetate               | 1300 | U |
| 75-09-2-----    | Methylene Chloride           | 1300 | U |
| 156-60-5-----   | trans-1,2-Dichloroethene     | 1300 | U |
| 1634-04-4-----  | Methyl tert-Butyl Ether      | 1300 | U |
| 75-34-3-----    | 1,1-Dichloroethane           | 1300 | U |
| 156-59-2-----   | cis-1,2-Dichloroethene       | 1300 | U |
| 78-93-3-----    | 2-Butanone                   | 1300 | U |
| 67-66-3-----    | Chloroform                   | 1300 | U |
| 71-55-6-----    | 1,1,1-Trichloroethane        | 1300 | U |
| 110-82-7-----   | Cyclohexane                  | 1300 | U |
| 56-23-5-----    | Carbon Tetrachloride         | 1300 | U |
| 71-43-2-----    | Benzene                      | 1300 | U |
| 107-06-2-----   | 1,2-Dichloroethane           | 1300 | U |
| 79-01-6-----    | Trichloroethene              | 1300 | U |
| 108-87-2-----   | Methylcyclohexane            | 1300 | U |
| 78-87-5-----    | 1,2-Dichloropropane          | 1300 | U |
| 75-27-4-----    | Bromodichloromethane         | 1300 | U |
| 10061-01-5----- | cis-1,3-Dichloropropene      | 1300 | U |
| 108-10-1-----   | 4-Methyl-2-Pentanone         | 1300 | U |
| 108-88-3-----   | Toluene                      | 1300 | U |
| 10061-02-6----- | trans-1,3-Dichloropropene    | 1300 | U |
| 79-00-5-----    | 1,1,2-Trichloroethane        | 1300 | U |
| 127-18-4-----   | Tetrachloroethene            | 1300 | U |

FORM I VOA



FORM 5  
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 4723

Lab File ID: BF041022A59

BFB Injection Date: 10/22/04

Instrument ID: 5972HP59

BFB Injection Time: 0830

GC Column: ZB624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0% of mass 95            | 20.1                 |
| 75  | 30.0 - 60.0% of mass 95            | 47.8                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0% of mass 95              | 6.9                  |
| 173 | Less than 2.0% of mass 174         | 0.0 ( 0.0)1          |
| 174 | Greater than 50.0% of mass 95      | 70.4                 |
| 175 | 5.0 - 9.0% of mass 174             | 5.0 ( 7.2)1          |
| 176 | 95.0 - 101.0% of mass 174          | 67.6 ( 96.0)1        |
| 177 | 5.0 - 9.0% of mass 176             | 4.5 ( 6.7)2          |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

|    | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|----|-------------------|------------------|----------------|------------------|------------------|
| 01 | VSTD050GZ         | VSTD050GZ        | GT041022A59    | 10/22/04         | 0952             |
| 02 | VBLKHD            | 49476            | 49476A59       | 10/22/04         | 1027             |
| 03 | SB-14             | 472301           | 472301D2A59    | 10/22/04         | 1756             |
| 04 | SB-14MS           | 49951            | 49951A59       | 10/22/04         | 1823             |
| 05 | SB-14MSD          | 49952            | 49952A59       | 10/22/04         | 1850             |
| 06 |                   |                  |                |                  |                  |
| 07 |                   |                  |                |                  |                  |
| 08 |                   |                  |                |                  |                  |
| 09 |                   |                  |                |                  |                  |
| 10 |                   |                  |                |                  |                  |
| 11 |                   |                  |                |                  |                  |
| 12 |                   |                  |                |                  |                  |
| 13 |                   |                  |                |                  |                  |
| 14 |                   |                  |                |                  |                  |
| 15 |                   |                  |                |                  |                  |
| 16 |                   |                  |                |                  |                  |
| 17 |                   |                  |                |                  |                  |
| 18 |                   |                  |                |                  |                  |
| 19 |                   |                  |                |                  |                  |
| 20 |                   |                  |                |                  |                  |
| 21 |                   |                  |                |                  |                  |
| 22 |                   |                  |                |                  |                  |

Page 1 of 1

FORM V VOA

FORM 7B  
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM

Contract: NYASP

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 4723

Instrument ID: 5972HP59

Calibration Date: 10/22/04

Time: 0952

Lab File ID: GT041022A59

Init. Calib. Date(s): 10/13/04

10/13/04

Init. Calib. Times: 1821

2010

GC Column: ZB624

ID: 0.32 (mm)

| COMPOUND                              | RRF OR<br>AMOUNT | RRF50<br>OR<br>AMOUNT | MIN<br>RRF | %D OR<br>%DRIFT | MAX %D OR<br>%DRIFT | CURV<br>TYPE |
|---------------------------------------|------------------|-----------------------|------------|-----------------|---------------------|--------------|
| Dichlorodifluoromethane               | 4.4585700        | 3.6678421             | 0.01       | -17.74          | 90.00               | AVRG         |
| Chloromethane                         | 4.4478100        | 3.2900835             | 0.01       | -26.03          | 90.00               | AVRG         |
| Vinyl Chloride                        | 3.6493700        | 2.9995922             | 0.1        | -17.80          | 25.00               | AVRG         |
| Bromomethane                          | 1.9724900        | 2.2204711             | 0.1        | 12.57           | 25.00               | AVRG         |
| Chloroethane                          | 1.6225800        | 1.5545960             | 0.01       | -4.19           | 90.00               | AVRG         |
| Trichlorofluoromethane                | 4.2324600        | 4.8148388             | 0.01       | 13.76           | 90.00               | AVRG         |
| 1,1-Dichloroethene                    | 2.2616400        | 2.5319996             | 0.1        | 11.95           | 25.00               | AVRG         |
| 1,1,2-trichloro-1,2,2-trifluoroethane | 2.7734900        | 3.1755421             | 0.01       | 14.50           | 90.00               | AVRG         |
| Acetone                               | 0.8139200        | 1.1378334             | 0.01       | 39.80           | 90.00               | AVRG         |
| Carbon Disulfide                      | 11.927670        | 11.219608             | 0.01       | -5.94           | 90.00               | AVRG         |
| Methyl Acetate                        | 1.6049200        | 1.4718384             | 0.01       | -8.29           | 90.00               | AVRG         |
| Methylene Chloride                    | 3.0098300        | 3.0272261             | 0.01       | 0.58            | 90.00               | AVRG         |
| trans-1,2-Dichloroethene              | 2.6198100        | 2.9466033             | 0.01       | 12.47           | 90.00               | AVRG         |
| Methyl tert-Butyl Ether               | 4.7150300        | 5.1863606             | 0.01       | 10.0            | 90.00               | AVRG         |
| 1,1-Dichloroethane                    | 5.6266700        | 5.8596958             | 0.2        | 4.14            | 25.00               | AVRG         |
| cis-1,2-Dichloroethene                | 2.3671500        | 2.7049751             | 0.01       | 14.27           | 90.00               | AVRG         |
| 2-Butanone                            | 0.8125600        | 0.9714306             | 0.01       | 19.55           | 90.00               | AVRG         |
| Chloroform                            | 4.7509300        | 5.2249808             | 0.2        | 9.98            | 25.00               | AVRG         |
| 1,1,1-Trichloroethane                 | 0.6245900        | 0.7340605             | 0.1        | 17.53           | 25.00               | AVRG         |
| Cyclohexane                           | 0.9474300        | 0.8929220             | 0.01       | -5.75           | 90.00               | AVRG         |
| Carbon Tetrachloride                  | 0.5291500        | 0.6227568             | 0.1        | 17.69           | 25.00               | AVRG         |
| Benzene                               | 1.9309500        | 1.8137643             | 0.5        | -6.07           | 25.00               | AVRG         |
| 1,2-Dichloroethane                    | 2.9979100        | 3.5472558             | 0.1        | 18.32           | 25.00               | AVRG         |
| Trichloroethene                       | 0.3861600        | 0.4141199             | 0.3        | 7.24            | 25.00               | AVRG         |
| Methylcyclohexane                     | 0.7611500        | 0.7362985             | 0.01       | -3.26           | 90.00               | AVRG         |
| 1,2-Dichloropropane                   | 0.5541300        | 0.5238672             | 0.01       | -5.46           | 90.00               | AVRG         |
| Bromodichloromethane                  | 0.5336700        | 0.5726447             | 0.2        | 7.30            | 25.00               | AVRG         |
| cis-1,3-Dichloropropene               | 0.5783000        | 0.5854037             | 0.2        | 1.23            | 25.00               | AVRG         |
| 1-Methyl-2-Pentanone                  | 0.3524100        | 0.3367396             | 0.01       | -4.45           | 90.00               | AVRG         |
| Toluene                               | 1.9511000        | 2.0486626             | 0.4        | 5.00            | 25.00               | AVRG         |
| trans-1,3-Dichloropropene             | 0.4893100        | 0.5161592             | 0.1        | 5.49            | 25.00               | AVRG         |
| 1,1,2-Trichloroethane                 | 0.2762200        | 0.3035349             | 0.1        | 9.89            | 25.00               | AVRG         |
| Tetrachloroethene                     | 0.3417500        | 0.3867520             | 0.2        | 13.17           | 25.00               | AVRG         |
| 2-Hexanone                            | 0.2054600        | 0.2262815             | 0.01       | 10.13           | 90.00               | AVRG         |
| Dibromochloromethane                  | 0.2946200        | 0.3316442             | 0.1        | 12.57           | 25.00               | AVRG         |
| 1,2-Dibromoethane                     | 0.3188400        | 0.3537320             | 0.01       | 10.94           | 90.00               | AVRG         |
| Chlorobenzene                         | 1.1404000        | 1.2092744             | 0.5        | 6.04            | 25.00               | AVRG         |
| Ethylbenzene                          | 0.5757500        | 0.6278916             | 0.1        | 9.06            | 25.00               | AVRG         |
| Styrene (Total)                       | 0.6456500        | 0.7201439             | 0.3        | 11.54           | 25.00               | AVRG         |
| Styrene                               | 0.7753700        | 0.8581349             | 0.3        | 10.67           | 25.00               | AVRG         |
| Bromoform                             | 0.1583900        | 0.1827985             | 0.1        | 15.41           | 25.00               | AVRG         |
| Isopropylbenzene                      | 1.7604000        | 1.9991521             | 0.01       | 13.56           | 90.00               | AVRG         |

Page 1 of 2

FORM VII VOA

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-14

Lab Name: COMPUCHEM

Method: NYASP

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 4723

Matrix: (soil/water) SOIL

Lab Sample ID: 472301

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: 472301D2A59

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 18

Date Analyzed: 10/22/04

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (10000) (ul)

Soil Aliquot Volume: 40 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

|            |                                       |       |   |
|------------|---------------------------------------|-------|---|
| 75-71-8    | Dichlorodifluoromethane               | 4000  | U |
| 74-87-3    | Chloromethane                         | 4000  | U |
| 75-01-4    | Vinyl Chloride                        | 4000  | U |
| 74-83-9    | Bromomethane                          | 4000  | U |
| 75-00-3    | Chloroethane                          | 4000  | U |
| 75-69-4    | Trichlorofluoromethane                | 4000  | U |
| 75-35-4    | 1,1-Dichloroethene                    | 4000  | U |
| 76-13-1    | 1,1,2-trichloro-1,2,2-trifluoroethane | 4000  | U |
| 67-64-1    | Acetone                               | 4000  | U |
| 75-15-0    | Carbon Disulfide                      | 4000  | U |
| 79-20-9    | Methyl Acetate                        | 1100  | J |
| 75-09-2    | Methylene Chloride                    | 4000  | U |
| 156-60-5   | trans-1,2-Dichloroethene              | 4000  | U |
| 1634-04-4  | Methyl tert-Butyl Ether               | 4000  | U |
| 75-34-3    | 1,1-Dichloroethane                    | 4000  | U |
| 156-59-2   | cis-1,2-Dichloroethene                | 4000  | U |
| 78-93-3    | 2-Butanone                            | 4000  | U |
| 67-66-3    | Chloroform                            | 4000  | U |
| 71-55-6    | 1,1,1-Trichloroethane                 | 4000  | U |
| 110-82-7   | Cyclohexane                           | 4000  | U |
| 56-23-5    | Carbon Tetrachloride                  | 4000  | U |
| 71-43-2    | Benzene                               | 4000  | U |
| 107-06-2   | 1,2-Dichloroethane                    | 4000  | U |
| 79-01-6    | Trichloroethene                       | 3500  | J |
| 108-87-2   | Methylcyclohexane                     | 4000  | U |
| 78-87-5    | 1,2-Dichloropropane                   | 4000  | U |
| 75-27-4    | Bromodichloromethane                  | 4000  | U |
| 10061-01-5 | cis-1,3-Dichloropropene               | 4000  | U |
| 108-10-1   | 4-Methyl-2-Pentanone                  | 4000  | U |
| 108-88-3   | Toluene                               | 4000  | U |
| 10061-02-6 | trans-1,3-Dichloropropene             | 4000  | U |
| 79-00-5    | 1,1,2-Trichloroethane                 | 4000  | U |
| 127-18-4   | Tetrachloroethene                     | 39000 |   |

FORM I VOA

*Handwritten signature*  
12/3/04

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-14

Lab Name: COMPUCHEM

Method: NYASP

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 4723

Matrix: (soil/water) SOIL

Lab Sample ID: 472301

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: 472301D2A59

Level: (low/med) MED

Date Received: 10/15/04

% Moisture: not dec. 18

Date Analyzed: 10/22/04

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (10000) (ul)

Soil Aliquot Volume: 40 (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Q

|           |                             |      |   |
|-----------|-----------------------------|------|---|
| 591-78-6  | 2-Hexanone                  | 4000 | U |
| 124-48-1  | Dibromochloromethane        | 4000 | U |
| 106-93-4  | 1,2-Dibromoethane           | 4000 | U |
| 108-90-7  | Chlorobenzene               | 4000 | U |
| 100-41-4  | Ethylbenzene                | 4000 | U |
| 1330-20-7 | Xylene (Total)              | 4000 | U |
| 100-42-5  | Styrene                     | 4000 | U |
| 75-25-2   | Bromoform                   | 4000 | U |
| 98-82-8   | Isopropylbenzene            | 4000 | U |
| 79-34-5   | 1,1,2,2-Tetrachloroethane   | 4000 | U |
| 541-73-1  | 1,3-Dichlorobenzene         | 4000 | U |
| 106-46-7  | 1,4-Dichlorobenzene         | 4000 | U |
| 95-50-1   | 1,2-Dichlorobenzene         | 4000 | U |
| 96-12-8   | 1,2-Dibromo-3-Chloropropane | 4000 | U |
| 120-82-1  | 1,2,4-Trichlorobenzene      | 4000 | U |

FORM I VOA

**APPENDIX C**  
**CALCULATIONS**

Job Pineburg DistributingProject No. 11173884Page 1 of     Description Volume vs ConcComputed by Jon SundquistSheet      of     Supplementary CalculationChecked by MSDate 12/20/04Date 12/27/04

Reference

Problem Statement

Previous Volume vs. mass of contamination calculations were done by calculating averages over entire volumes. This calculation resulted in over estimating total mass of contamination because the high levels in the main source area overshadowed lower concentrations in the outer regions.

However better approach is to look at average concentration in each zone

Average concentration within the more contaminated area ( $>100 \text{ mg/kg}$ )

| Location | PCE mg/kg |
|----------|-----------|
| SB-04    | 490       |
| SB-05    | 1000      |
| GP-17    | 1700      |
| B-01     | 55        |
| MW-02    | 292       |
| SB-06    | 170       |
| SB-07    | 390       |
| SB-12    | 4.8       |
| SB-11    | 1100      |
| SB-10    | 68        |
| B-03     | 9100      |
| SB-13    | 1.4       |
| GP-19    | 1500      |
| SB-14    | 39        |
| SB-15    | 1400      |

Average concentration:  $1,150 \text{ mg/kg}$

$$\begin{aligned} \text{Volume} &= 1,200 \text{ ft}^2 \times \text{depth of } 7 \text{ ft} \\ &= 8400 \text{ ft}^3 \\ &= 310 \text{ yd}^3 \end{aligned}$$

Assuming a soil density of  $111 \text{ lb/ft}^3$   
 this is  $932,400 \text{ lb}$   
 so total mass of PCE is

$$\begin{aligned} &\left( \frac{1,150 \text{ mg}}{\text{kg}} \right) \left( 932,400 \text{ lb} \right) \left( \frac{\text{kg}}{2.2 \text{ lb}} \right) \left( \frac{\text{kg}}{10^6 \text{ mg}} \right) \left( \frac{2.2 \text{ lb}}{\text{kg}} \right) \\ &= 1,070 \text{ lb PCE} \end{aligned}$$

Disposal cost, assuming a disposal cost of  $\$350/\text{lb}$

$$\left( 932,400 \text{ lb} \right) \left( \frac{\text{ton}}{2000 \text{ lb}} \right) \left( \frac{\$350}{\text{ton}} \right) = \$163,170$$

Job Omaha Distribution

Description Volume vs Conc.  
Supplementary Calculations

Project No. 1117384

Computed by Jon Sundquist

Checked by MJA

Page 2 of     

Sheet      of     

Date 12/23/04

Date 12/27/04

Reference

Now, looking at the 1.4  $\leftrightarrow$  100 mg/kg Zone

Area of this zone is 2660 - 1200 = 1,460 ft<sup>2</sup>

Concentrations are:

|       |     |
|-------|-----|
| GP-01 | 13  |
| SB-01 | 2.3 |
| SB-02 | 3   |
| SB-09 | 6.8 |
| GP-02 | 88  |
| GP-03 | 4.8 |
| SB-16 | 3.4 |
| GP-04 | 110 |
| MB-03 | 10  |
| B-06  | 16  |
| GP-07 | 120 |

average concentration: 34 mg/kg

$$\begin{aligned} \text{Volume} &= 1,460 \text{ ft}^2 \times \text{depth of } 7 \text{ ft} \\ &= 10,220 \text{ ft}^3 \\ &= 380,723 \end{aligned}$$

Assuming a soil density of 111 lb/ft<sup>3</sup>  
this is 1,134,400 lb

so total mass of PCB is

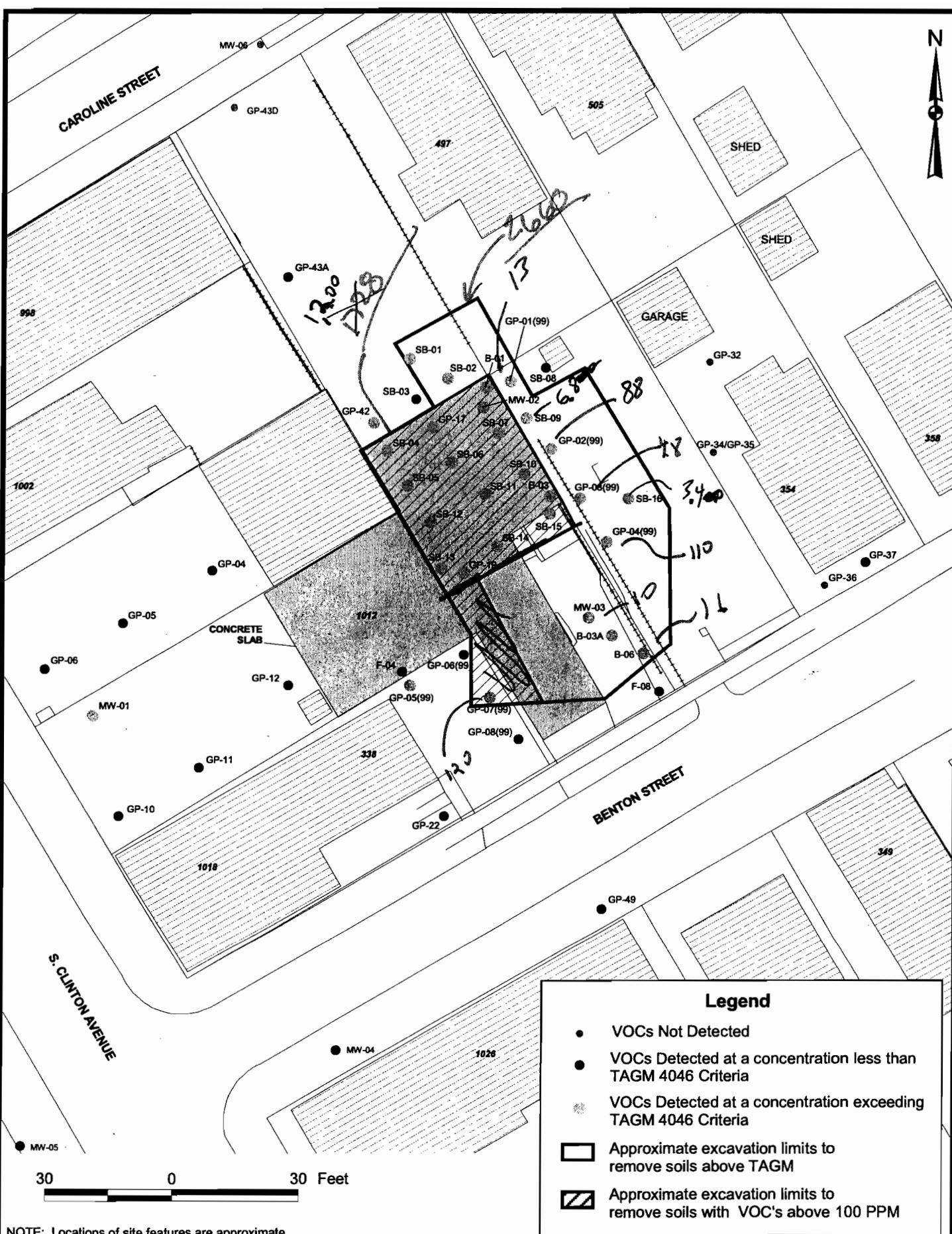
$$\left( \frac{34 \text{ mg}}{\text{kg}} \right) \left( \frac{1,134,400 \text{ lb}}{2.205 \text{ lb/kg}} \right) \left( \frac{\text{kg}}{10^6 \text{ mg}} \right) = 39 \text{ lb PCB}$$

Disposal costs, assuming disposal cost of \$350/ton

$$\left( 1,134,400 \text{ lb} \right) \left( \frac{\text{ton}}{2000 \text{ lb}} \right) \left( \frac{\$350}{\text{ton}} \right) = \$198,520$$

(in addition to cost to excavate areas > 100 mg/kg)

J:\35798.01\dwg\chemical.apr  
SUPPLEMENTAL & PROPOSED SOURCE REMOVAL EXCAVATION UNITS 12/03/2004



**URS**

FORMER DINABURG DISTRIBUTING, INC.  
BORING LOCATIONS AND PROPOSED SOURCE  
REMOVAL EXCAVATION UNITS

FIGURE 1-2



Pg. 1  
CHECK:

MW 12/27/04

$$\text{AVG: } 1,150 \approx \underline{1,153} \text{ O.K.} \checkmark$$

$$\text{VOLUME: } 1,200 \times 7 = \underline{8,400} / 27 = \underline{310} \checkmark \text{ CY}$$

$$\text{MASS: } 8400 \times 111 = \underline{932,400 \text{ LB}} \checkmark$$

MASS OF PCE:

$$1,150 \text{ MG/KG} = 0.00115 \text{ KG/KG}$$

$$932,400 \text{ LB} \times \frac{1 \text{ KG}}{2.2 \text{ LB}} = 422,930 \text{ KG}$$

$$\frac{0.00115 \text{ KG}}{\text{KG}} \times 422,930 \text{ KG} = 486.37 \text{ KG PCE}$$

$$486.37 \text{ KG} \times \frac{2.2 \text{ LB}}{\text{KG}} = \underline{1070.01 \text{ LBS}} \checkmark$$

Pg 2

CHECK

$$\text{AVG: } 34.3 \approx \underline{34} \text{ O.K.} \checkmark$$

$$\text{VOLUME: } 2,660 - 1200 = 1,460 \times 7 = \underline{10,222} \approx \underline{380 \text{ CY}} \checkmark$$

$$\text{MASS: } 10,222 \times 111 = \underline{1,134,642} \checkmark$$

MASS OF PCE:

$$34 \text{ MG/KG} = 3.4 \times 10^{-5} \text{ KG}$$

$$1,134,642 \text{ LB} \times \frac{1 \text{ KG}}{2.2 \text{ LB}} = 515,636 \text{ KG}$$

$$\frac{3.4 \times 10^{-5} \text{ KG}}{\text{KG}} \times 515,636 \text{ KG} = 17.53 \text{ KG PCE}$$

$$17.53 \text{ KG} \times \frac{2.2 \text{ LB}}{\text{KG}} = 38.57 \approx \underline{39} \checkmark$$

Job Dinaburg Distributing  
Description Vapor Phase Carbon savings

Project No. 11173884  
Computed by Tom Smolynski  
Checked by \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_  
Sheet \_\_\_\_\_ of \_\_\_\_\_  
Date 12/28/04  
Date \_\_\_\_\_

Reference

### Problem Statement

Calculate estimated / order of magnitude savings from reduced amounts of PCE treated by vapor-phase carbon

### Assumptions

1070 lb of PCE excavated  
18 lb of carbon used per lb of PCE recovered  
carbon costs \$2 / lb

### Calculation

$$(1070 \text{ lb PCE}) \left( \frac{18 \text{ lb carbon}}{\text{lb PCE}} \right) = 19,260 \text{ lb Carbon saved}$$

$$19,260 \text{ lb} \left( \frac{\$2}{\text{lb}} \right) = \$38,520 \text{ saved}$$

