

**QUARTERLY PROGRESS REPORT NO. 4
REMEDIAL INVESTIGATION
DELPHI FACILITY
1000 LEXINGTON AVENUE
ROCHESTER, NEW YORK
Registry Site No. 8-28-064
EPA ID No. NYD002215234**

by

**Haley & Aldrich of New York
Rochester, New York**

for

**Delphi Corporation
Rochester, New York**

**File No. 70014-054
February 2003**



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10 February 2003
File No. 70014-054

New York State Department of
Environmental Conservation
Division of Environmental Remediation
Region 8
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Avon, New York 14414-9519

Attention: Regional Hazardous Waste Remediation Engineer

Subject: Remedial Investigation Quarterly Progress Report No. 4
Registry Site No. 8-28-064, EPA ID No. NYD002215234
Delphi Facility
1000 Lexington Avenue
Rochester, New York

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Ladies and Gentlemen:

Please find enclosed two copies of Quarterly Progress Report No. 4 (Progress Report) for NYSDEC Registry Site No. 8-28-064. This is the fourth progress report covering Remedial Investigation (RI) activities performed at the Delphi Corporation (Delphi) facility located at 1000 Lexington Avenue in the City of Rochester, Monroe County, New York. The Delphi facility property is hereinafter referred to as the "site." The site location is shown on Figure 1 of this report.

This Progress Report is submitted on behalf of Delphi. It has been prepared in accordance with the terms of an Order On Consent between NYSDEC and Delphi ("RI/FS Order," Index # B8-0531-98-06).

This report covers RI activities performed during the period 1 November 2002 through 31 January 2003. Investigative activities performed during the reporting period include the following: completion of planned off-site well installations; groundwater sampling of all new RI/FS off-site wells; occasional measurements of groundwater levels in select monitoring wells; a site-wide groundwater/LNAPL-level measurement event; completion of the follow-up drilling and soil and groundwater sampling outlined in Work Plan Amendment No. 2 (Appendix E in Quarterly Report No. 2); and a coordinate and elevation survey of wells installed during the RI/FS. This report also presents laboratory analytical results for soil and groundwater samples collected during this and the previous reporting period.

NYSDEC
10 February 2003
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Please feel free to contact us if you have any questions regarding this report.

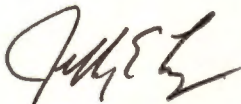
Sincerely yours,
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I. INTRODUCTION

This report is the fourth Quarterly Progress Report covering remedial investigation (RI) activities performed at the Delphi Corporation facility located at 1000 Lexington Avenue in the City of Rochester, Monroe County, New York. The Delphi property is hereinafter referred to as the "site." The site location is shown on Figure 1.

This report has been prepared in accordance with the terms of an Order On Consent between the New York State Department of Environmental Conservation (NYSDEC) and Delphi for a remedial investigation and feasibility study of the Delphi site ("RI/FS Order," Index # B8-0531-98-06). The Delphi site is listed as Site # 8-28-064 on the New York State Registry of Inactive Hazardous Waste Disposal Sites, and it is identified under state and federal programs regulating management of hazardous waste by its U.S. Environmental Protection Agency (EPA) identification number NYD002215234.

Quarterly Report No. 4 covers RI activities performed during the period of 1 November 2002 through 31 January 2003.

Activities performed during the reporting period include:

- installation of off-site intermediate-bedrock monitoring wells R-302, R-305, and R-306, and groundwater sampling at all eight RI/FS off-site monitoring wells (R-302, SR-303, R-303, SR-304, R-304, R-305, R-306, and R-307);
- installation of the remaining soil boring and monitoring wells that had been specified for the interior of the Delphi facility in the RI/FS Work Plan and Work Plan Amendment No. 2;
- installation of deep-bedrock monitoring well DR-132;
- periodic monitoring of the groundwater levels at newly-installed deep-bedrock monitoring wells DR-315 and DR-132, and occasional measurements at selected other new RI/FS wells;
- a site-wide groundwater-level measurement event;
- elevation and coordinate survey at new RI/FS wells and at select pre-existing wells requiring follow-up surveying; and
- data validation of soil and groundwater samples collected during this and the previous reporting period.

This report presents the results of the activities performed during this reporting period and describes the activities to be undertaken during the next period of the RI. The report includes text, tables summarizing sample data, figures showing investigation locations, and appendices containing field activity data.

II. RI/FS ACTIVITIES COMPLETED

With the exception of soil sampling planned for the Stoddard Tank Farm Area, the soil and bedrock drilling and sampling, soil-vapor sampling, and well-installation activities that were specified in the RI/FS Work Plan and Work Plan Amendment No. 2 have now been completed. (As specified in the RI/FS Work Plan, soil sampling in the Stoddard Tank Farm Area will be conducted when the tanks are removed from service.) The RI work that remains includes the following activities specified in the RI/FS Work Plan: sampling and inspection of sewers in contaminant source areas, sampling of basement-area sumps, and periodic groundwater monitoring.

2.01 Activities Specified in the RI/FS Work Plan

Remaining soil-boring and monitoring-well installation activities planned for the interior of the Delphi facility were completed during this fourth reporting period. The second of two planned on-site deep-bedrock wells was also installed. Access to adjacent properties was obtained with assistance from NYSDEC for installation of the last three off-site wells specified in the Work Plan (R-302, R-305, R-306), and the well installations were completed. A site-wide groundwater level measurement event was performed, and initial groundwater sampling of off-site RI/FS monitoring wells was performed.

A. Off-Site Monitoring Wells

R-302 and R-305 were installed on City of Rochester property. R-302 was installed on the City's former Photec property at 1000 Driving Park Ave., and R-305 was installed in the former Erie Canal bed footprint adjacent to the southeast corner of the American Packaging Corp. facility located at 777 Driving Park Avenue. R-306 was installed on Royal Environmental property at 720 Lexington Avenue. Well locations are shown on Figure 2.

Each intermediate-bedrock monitoring well was installed in accordance with protocols specified in the Work Plan. At each well location a soil test boring was performed and the soils screened for the presence of VOCs. Screening results at each of the three locations indicated no elevated VOC levels and no visible evidence of contaminants in soils. Therefore, no soil samples were submitted for laboratory analysis from any of the three off-site well locations.

Intermediate-bedrock wells were installed as 4-inch-diameter, open-bedrock-hole wells with monitoring intervals from 15 to 25 feet below top-of-bedrock. R-302 was completed with a flush-mount surface completion, and stick-up completions using the 4-inch steel casing fitted with a locking cover was installed at R-305 and R-306.

Wells were developed until dry or until a volume of water was recovered equal to at least the volume lost to the formation within the monitoring interval during coring operations.

Soil boring reports are presented in Appendix A, soil-sample headspace screening results are presented in Appendix B, and observation well installation reports are presented in Appendix C. Revised observation well installation reports for previously-installed RI/FS wells, containing the recent survey information, have also been included in Appendix C.

B. On-Site Deep-Bedrock Well DR-132

Deep-bedrock monitoring well DR-132 was installed near the existing R-132 well cluster at the northeast corner of the Delphi manufacturing building, downgradient of former degreaser areas. The location of DR-132 is shown on Figure 2.

DR-132 was sampled and installed in accordance with the procedures specified in the RI/FS Work Plan. Soil samples collected from DR-132 were screened and logged and soil samples were selected and submitted for laboratory analysis by SW-846 Methods of VOCs, SVOCs, PPL metals, cyanide, and PCBs in accordance with the Work Plan. Laboratory analytical results for DR-132 soil samples are summarized in Tables 1 through 6.

Well DR-132 was installed as a 4-inch diameter open-bedrock hole monitoring interval at a depth of approximately 40 to 50 feet below top of bedrock. The well was developed until dry or recovery of at least the volume of water lost to the formation within the monitoring interval during coring operations.

Soil boring and bedrock coring reports for DR-132 are presented in Appendix A, soil sample headspace screening reports are presented in Appendix B, and the DR-132 well installation report is presented in Appendix C. Water levels measured at DR-132 are presented in Appendix D.

C. Groundwater and LNAPL Sampling

All eight new RI/FS off-site monitoring wells (R-302, SR-303, R-303, SR-304, R-304, R-305, R-306, and R-307) were sampled after the last three wells were installed. Groundwater and LNAPL samples were collected in accordance with the RI/FS Work Plan, Appendix G, Groundwater Sampling Procedures.

Each of the new off-site wells was measured for groundwater and/or LNAPL level. If LNAPL was present in sufficient volume for sampling, an LNAPL sample was collected using a disposable bailer without purging the well. If LNAPL was absent or was present in insufficient volume for sampling, the well was purged until dry or until 3 well volumes were purged, and groundwater was then sampled.

Groundwater and/or LNAPL samples were collected by Free-Col Laboratories and submitted to Ecology & Environment, Inc. for analysis of parameters as specified in Table IV of the Work Plan. Groundwater samples were submitted for CLP analysis of TCL organics (VOCs, SVOCs, and PCBs), PPL Metals, and cyanide. LNAPL samples were submitted for CLP analysis of TCL organics (VOCs, SVOCs, and

Soil boring reports, headspace screening results, and observation well installation reports are presented in Appendices A, B, and C, respectively. Soil boring and observation well locations are presented on Figure 2.

2. Tubing Mills Area

Two borings (TM-1 and TM-2) were installed in the former Tubing Mills area in accordance with the Work Plan, at the locations shown on Figure 2. Soil samples were logged and screened for the presence of mercury using a portable Jerome® mercury detector. Samples were selected for laboratory analysis based on the soil conditions observed and the results of mercury screening. Soil samples were submitted for analysis of VOCs, SVOCs, PPL metals, cyanide, and PCBs by SW-846 Methods.

Soil boring TM-2 also provided coverage for Work Plan Amendment No. 2 follow-up investigation at PB-17 where elevated levels of metals were detected, as described below in Section 2.02.A. Additional soil samples from TM-2 were analyzed for copper to address the PB-17 contamination (see Section 2.02.A.2 below).

Laboratory analysis results for these samples are presented in Tables 1 through 6.

3. PB-15 and DGRB-2

At boring locations DGRB-2 and PB-15 (previously-installed boring locations where soil samples were collected in December 2001 but mistakenly not submitted for analysis), samples were re-collected and submitted for analysis of VOCs, SVOCs, PCBs, PPL Metals, and cyanide by CLP Methods. Laboratory analysis results for these samples are presented in Tables 1 through 6.

2.02 Activities Specified in Work Plan Amendment No. 2

The following activities were performed as follow-up investigations to RI/FS Work Plan activities and were conducted in accordance with Work Plan Amendment No. 2, which was presented in Appendix E of Quarterly Report No. 2. These activities were performed over the Delphi holiday shutdown during late December 2002.

A. Interior Soil Borings

Soil test borings were installed and soil samples collected in accordance with the Work Plan and with Amendment No. 2. Soil samples were characterized, logged, and sampled as described below.

1. Former Degreaser Areas

Soil boring DGRB-6 was installed south of DGRB-3 and Study Area 3. Soils were collected for analysis of VOCs and PAHs, which were detected at elevated concentrations in samples from nearby borings (DGRB-3, PB-1, PB-5, and SR-312). VOC and PAH analysis was performed using SW-846 Methods

Soil boring DGRB-7 was installed west of SR-313 in the Plant 1 West stoddard area. Soils samples from DGRB-7 were collected for analysis of VOCs and lead, which had been detected in samples from nearby RI borings DGRB-4, DGRB-5, and SR-313. Analysis was by SW-846 Methods.

2. Former Plater Areas

Soil boring PB-34 was installed approximately 25 feet southwest of PB-31, north of Study Area 6 and south of Study Area 5. Soils were collected for analysis of the "site" metals to investigate the extent of apparent chromium and zinc contamination detected in nearby soils. Soil sample laboratory analyses were performed using SW-846 Methods.

Soil boring PB-35 was installed approximately 15 feet southwest of PB-33 in Study Area 4. Soil samples from PB-35 were collected for analysis of lead, and soil analysis was performed using SW-846 Methods.

TM-2, a former Tubing Mills area boring, was situated near plater boring PB-17, and TM-2 sample analysis was performed to investigate the extent of copper and VOCs detected in PB-17 samples. Soil samples from TM-2 were analyzed for VOCs, SVOCs, PCBs, PPL Metals, and cyanide. A small number of samples were also analyzed for copper only.

Laboratory analysis results for these samples are presented in Tables 1 through 6.

B. Interior Monitoring Well

One shallow-bedrock monitoring well (SR-326) was installed inside the north-central portion of Plant 1 at the location shown on Figure 2. SR-326 was installed approximately midway between exterior well SR-314 (located immediately north of Plant 1) and interior wells SR-312 and SR-313. The well was installed to delineate the northern extent of LNAPL detected in SR-312 and SR-313.

SR-326 was installed in accordance with RI/FS Work Plan protocols. Soils were characterized and logged and soil samples from near the top of bedrock were collected and submitted for analysis of VOCs by SW-846 methods.

SR-326 soil boring and bedrock coring reports are presented in Appendix A and the groundwater observation well installation report is presented in Appendix C.

Laboratory analysis results for these samples are presented in Tables 1 through 6.

2.03 Water Level Measurements

Water level measurements were performed on occasion throughout the reporting period at select new RI/FS wells. A single site-wide groundwater-level measurement event was performed by Free-Col Laboratories on 29-31 January 2003.

The groundwater levels in new deep-bedrock wells DR-315 and DR-132 continue to be monitored routinely. These two wells are read at least monthly to determine if water levels have reached equilibrium. The water level in DR-315, at 30.58 feet on 30 January 2003, still does not appear to have attained equilibrium; more than a year after its installation the water level in DR-315 continues to respond (rise) at a rate of about 0.3 feet per week, and has risen about 4 feet since the end of the last reporting period. The water level in DR-132 appears to be responding (rising) about 1.4 feet per week.

Other wells measured included new off-site bedrock monitoring wells SR-303, R-303, SR-304, R-304, R-305, R-306, and R-307. New indoor overburden well OW-327 was also measured.

The site-wide water- and LNAPL-level measurement event performed by Free-Col included all Delphi's on-site and off-site monitoring wells. Similar site-wide measurement events are planned on a quarterly basis and, in accordance with the Work Plan, will be performed quarterly for at least the first two years of the RI/FS program.

Calculation of groundwater elevations and the generation of groundwater contour plans based on the recent site-wide measurement event will be included in the next Quarterly Report (No. 5); survey data and the water and LNAPL level measurement data were not provided soon enough in the reporting period for inclusion of groundwater contouring in this report. Surveying activities are described below.

Groundwater levels are recorded on monitoring forms and/or tables and are presented in Appendix D.

2.04 Well Surveying

Horizontal planar coordinates and vertical reference elevations were surveyed at all new exterior RI/FS monitoring wells, at new interior well OW-327, and at select pre-existing wells (PZ-1, OW-6, PZ-129, and DR-105) which required follow-up surveying due to damage, etc. Surveying was performed by Bergmann Associates of Rochester, New York in late January 2002.

Surveyed well coordinates and reference elevations are presented in Appendix E.

2.05 Laboratory Analytical Data

Laboratory analytical data for soil samples and mini-well groundwater samples submitted for analysis during this and the previous quarter were received during this reporting period.

These include soil samples from interior and exterior soil borings and groundwater grab samples from mini-wells SSB-3, SSB-4, and OW-328. These data have been validated and are summarized in Tables 1 through 6.

Analytical results from the eight off-site monitoring wells should be available for inclusion in the next Quarterly Report (No. 5).

III. UPCOMING RI/FS ACTIVITIES

The following RI/FS activities are planned for the upcoming reporting period of February through April 2003.

3.01 Groundwater and LNAPL Measurements

A site-wide water and LNAPL level measurement event will be performed during the next reporting period by Free-Col and will include all Delphi on-site and off-site monitoring wells.

3.02 Groundwater Sampling

The next groundwater sampling is scheduled for the upcoming reporting period and will serve as the first annual sampling event. Wells which will be sampled include those on the annual list presented in Table IV of the RI/FS Work Plan.

Groundwater samples will be analyzed in accordance with Table IV of the Work Plan.

IV. CITIZEN PARTICIPATION ACTIVITIES

No Citizen Participation activities were performed during this reporting period. No Citizen Participation activities are planned for the next reporting period.

REFERENCES

Data Summary Report, Previous Remedial Investigations, Delphi Automotive Systems, 1000 Lexington Avenue, Rochester, New York, Site No. 8-28-064, Volume V. Haley & Aldrich of New York, September 1998.

RI/FS Work Plan, Delphi Automotive Systems Facility, 1000 Lexington Avenue, Rochester, Monroe County, New York, Registry Site No. 8-28-064, Volume V. Haley & Aldrich of New York, October 2001.

Quarterly Progress Report No. 1, Remedial Investigation, Delphi Facility, 1000 Lexington Avenue, Rochester, New York, Site No. 8-28-064, EPA Id No. NYD002215234. Haley & Aldrich of New York, May 2002.

Quarterly Progress Report No. 2, Remedial Investigation, Delphi Facility, 1000 Lexington Avenue, Rochester, New York, Site No. 8-28-064, EPA Id No. NYD002215234. Haley & Aldrich of New York, August 2002.

Quarterly Progress Report No. 3, Remedial Investigation, Delphi Facility, 1000 Lexington Avenue, Rochester, New York, Site No. 8-28-064, EPA Id No. NYD002215234. Haley & Aldrich of New York, November 2002.

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TABLE 1
SUMMARY OF SOIL ANALYSIS RESULTS - VOLATILE ORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	DGRB-2	DGRB-2	DGRB-6	DGRB-6	DGRB-7	DGRB-7
SAMPLE DATE	12/26/02	12/26/02	12/26/02	12/26/02	12/26/02	12/26/02
SAMPLE INTERVAL	G2	G3	G1	G3	G2	G3
DEPTH TOP (ft.)	6.9	8.9	0.9	10.9	4.9	10.9
DEPTH BOTTOM (ft.)	8.9	11.9	2.9	11.8	6.9	12.9
LABORATORY SAMPLE ID	2002:0015227-13	2002:0015227-14	2002:0015227-22	2002:0015227-23	2002:0015227-20	2002:0015227-21
LABORATORY	Free-Col	Free-Col	Free-Col	Free-Col	Free-Col	Free-Col
ANALYSIS METHOD	SW-846 8260B	SW-846 8260B	SW-846 8260B	SW-846 8260B	SW-846 8260B	SW-846 8260B
1,1,1-Trichloroethane	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2,2-Tetrachloroethane	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloro-1,2,2-trifluoroethane						
1,1,2-Trichloroethane	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,2,4-Trichlorobenzene						
1,2,4-Trimethylbenzene	0.2U	0.2U	0.2U	0.5	0.6	0.2U
1,2-Dibromo-3-chloropropane						
1,2-Dibromoethane						
1,2-Dichlorobenzene						
1,2-Dichloroethane	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,2-Dichloropropane	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene						
1,4-Dichlorobenzene						
2-Butanone	1.2U	1.1U	1.1U	1.1U	1.1U	1.2U
2-Chloroethylvinylether	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2-Hexanone	1.2U	1.1U	1.1U	1.1U	1.1U	1.2U
4-Methyl-2-pentanone	1.2U	1.1U	1.1U	1.1U	1.1U	1.2U
Acetone	1.2U	1.1U	1.1U	1.1U	1.1U	1.2U
Benzene	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromodichloromethane	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromoform	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromomethane	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Carbon disulfide	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Carbon tetrachloride	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chlorobenzene	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroethane	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroform	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloromethane	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
cis-1,2-Dichloroethene	0.5	8.4	0.2U	0.2U	0.2U	1.2
cis-1,3-Dichloropropene	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Cyclohexane						
Dibromochloromethane	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Dichlorodifluoromethane						
Ethylbenzene	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Isopropylbenzene						
Methyl acetate						
Methyl tert-butyl ether						
Methylcyclohexane						
Methylene chloride	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
n-Butylbenzene	0.2U	0.2U	0.2U	0.2U	0.2	0.2U
sec-Butylbenzene	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Styrene	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
tert-Butylbenzene	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Tetrachloroethene	0.2	0.4	0.2U	0.2U	0.2U	0.2U
Toluene	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
trans-1,2-Dichloroethene	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
trans-1,3-Dichloropropene	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Trichloroethene	28.5	14.6	0.2U	0.2U	0.2U	0.2U
Trichlorofluoromethane						
Vinyl acetate	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Vinyl chloride	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Xylenes, Total	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
TICs (see note 8)						

TABLE 1
SUMMARY OF SOIL ANALYSIS RESULTS - VOLATILE ORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	DR-132	OW-324	OW-324	PB-15	PB-15	SMHB-1
SAMPLE DATE	12/5/02	10/25/02	10/25/02	12/27/02	12/27/02	10/24/02
SAMPLE INTERVAL	S1	G2	G4	G3	G3	G1
DEPTH TOP (ft.)	0.5	4.0	12.0	8.0	10.0	0.0
DEPTH BOTTOM (ft.)	2.0	8.0	14.0	10.0	12.0	4.0
LABORATORY SAMPLE ID	2002:0014772-1	0210272-03A	0210272-04A	2002:0015227-17	2002:0015227-18	0210252-01A
LABORATORY	Free-Col	E&E	E&E	Free-Col	Free-Col	E&E
ANALYSIS METHOD	SW-846 8260B	OLM04.2_VOA	OLM04.2_VOA	SW-846 8260B	SW-846 8260B	OLM04.2_VOA
1,1,1-Trichloroethane	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
1,1,2,2-Tetrachloroethane	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
1,1,2-Trichloro-1,2,2-trifluoroethane		0.0112U	0.0118U			0.0105UJ
1,1,2-Trichloroethane	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
1,1-Dichloroethane	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
1,1-Dichloroethene	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
1,2,4-Trichlorobenzene		0.0112U	0.0118U			0.0105UJ
1,2,4-Trimethylbenzene	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
1,2-Dibromo-3-chloropropane		0.0112U	0.0118U			0.0105UJ
1,2-Dibromoethane		0.0112U	0.0118U			0.0105UJ
1,2-Dichlorobenzene		0.0112U	0.0118U			0.0105UJ
1,2-Dichloroethane	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
1,2-Dichloropropane	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
1,3,5-Trimethylbenzene	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
1,3-Dichlorobenzene		0.0112U	0.0118U			0.0105UJ
1,4-Dichlorobenzene		0.0112U	0.0118U			0.0105UJ
2-Butanone	1.2U	0.0112U	0.0118U	1.1U	1.2U	0.0105UJ
2-Chloroethylvinylether	0.2U			0.2U	0.2U	
2-Hexanone	1.2U	0.0112U	0.0118U	1.1U	1.2U	0.0105UJ
4-Methyl-2-pentanone	1.2U	0.0112U	0.0118U	1.1U	1.2U	0.0105UJ
Acetone	1.2U	0.0112U	0.0183J	1.1U	1.2U	0.0105UJ
Benzene	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
Bromodichloromethane	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
Bromoform	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
Bromomethane	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
Carbon disulfide	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
Carbon tetrachloride	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
Chlorobenzene	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
Chloroethane	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
Chloroform	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
Chloromethane	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
cis-1,2-Dichloroethene	0.2	0.0347	0.0288	0.2U	0.2U	0.0105UJ
cis-1,3-Dichloropropene	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
Cyclohexane		0.0112U	0.0118U			0.0105UJ
Dibromochloromethane	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
Dichlorodifluoromethane		0.0112U	0.0118U			0.0105UJ
Ethylbenzene	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
Isopropylbenzene		0.0112U	0.0118U			0.0105UJ
Methyl acetate		0.0112U	0.0118U			0.0105UJ
Methyl tert-butyl ether		0.0112U	0.0118U			0.0105UJ
Methylcyclohexane		0.0112U	0.0118U			0.00296J
Methylene chloride	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
n-Butylbenzene	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
sec-Butylbenzene	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
Styrene	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
tert-Butylbenzene	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
Tetrachloroethene	0.2U	0.0111J	0.0118U	0.2U	0.2U	0.0105UJ
Toluene	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.00207J
trans-1,2-Dichloroethene	0.2U	0.00435J	0.0118U	0.2U	0.2U	0.0105UJ
trans-1,3-Dichloropropene	0.2U	0.0112U	0.0118U	0.2U	0.2U	0.0105UJ
Trichloroethene	7.9	0.276D	0.00258J	0.2U	0.2U	0.00352J
Trichlorofluoromethane		0.0112U	0.0118U			0.0105UJ
Vinyl acetate	0.2U			0.2U	0.2U	
Vinyl chloride	0.2U	0.0112U	0.0228	0.2U	0.2U	0.0105UJ
Xylenes, Total	0.2	0.0112U	0.0118U	0.2U	0.2U	0.00377J
TICs (see note 8)		ND	ND			.035 NJ

TABLE 1
SUMMARY OF SOIL ANALYSIS RESULTS - VOLATILE ORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	SR-326	SSB-4	SSB-4	SSB-5A	SSB-5A	SSB-5B
SAMPLE DATE	12/23/02	10/25/02	10/25/02	10/24/02	10/24/02	10/28/02
SAMPLE INTERVAL		G2	G5	G2	G3	G2
DEPTH TOP (ft.)	13.7	4.0	16.0	4.0	8.0	4.0
DEPTH BOTTOM (ft.)	16.7	8.0	20.0	8.0	12.0	6.0
LABORATORY SAMPLE ID	2002:0015227-24	0210272-01A	0210272-02A	0210252-02A	0210252-03A	0210272-05A
LABORATORY	Free-Col	E&E	E&E	E&E	E&E	E&E
ANALYSIS METHOD	SW-846 8260B	OLM04.2_VOA	OLM04.2_VOA	OLM04.2_VOA	OLM04.2_VOA	OLM04.2_VOA
1,1,1-Trichloroethane	0.2U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
1,1,2,2-Tetrachloroethane	0.2U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
1,1,2-Trichloro-1,2,2-trifluoroethane		0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
1,1,2-Trichloroethane	0.2U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
1,1-Dichloroethane	0.2U	0.0105U	0.0118U	0.133J	0.35J	0.0109U
1,1-Dichloroethene	0.2U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
1,2,4-Trichlorobenzene		0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
1,2,4-Trimethylbenzene	4.4	0.0771	0.47D	52.8DJ	78.8DJ	0.0109U
1,2-Dibromo-3-chloropropane		0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
1,2-Dibromoethane		0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
1,2-Dichlorobenzene		0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
1,2-Dichloroethane	0.2U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
1,2-Dichloropropane	0.2U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
1,3,5-Trimethylbenzene	0.6	0.0225	0.0118U	22.9J	44J	0.0109U
1,3-Dichlorobenzene		0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
1,4-Dichlorobenzene		0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
2-Butanone	1U	0.0105U	0.0118U	0.58J	2.32UJ	0.0044J
2-Chloroethylvinylether	0.2U					
2-Hexanone	1U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
4-Methyl-2-pentanone	1U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
Acetone	1U	0.0105U	0.0172J	0.429J	1.54J	0.0233J
Benzene	0.2U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
Bromodichloromethane	0.2U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
Bromoform	0.2U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
Bromomethane	0.2U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
Carbon disulfide	0.2U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
Carbon tetrachloride	0.2U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
Chlorobenzene	0.2U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
Chloroethane	0.2U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
Chloroform	0.2U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
Chloromethane	0.2U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
cis-1,2-Dichloroethene	0.2U	0.00731J	0.0118U	0.157J	2.32UJ	0.0109U
cis-1,3-Dichloropropene	0.2U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
Cyclohexane		0.0105U	0.00292J	1.27UJ	2.32UJ	0.0109U
Dibromochloromethane	0.2U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
Dichlorodifluoromethane		0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
Ethylbenzene	0.3	0.0105U	0.00891J	1.54J	1.33J	0.0109U
Isopropylbenzene		0.0049J	0.0565	3.72J	8.57J	0.0109U
Methyl acetate		0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
Methyl tert-butyl ether		0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
Methylcyclohexane		0.0105U	0.00876J	4.65J	6.13J	0.0109U
Methylene chloride	0.2U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
n-Butylbenzene	2.2	0.00365J	0.0724	17.8J	29.9J	0.0109U
sec-Butylbenzene	1	0.00301J	0.0779	9.73J	27.3J	0.0109U
Styrene	0.2U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
tert-Butylbenzene	0.2U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
Tetrachloroethene	0.2U	0.00213J	0.0118U	1.27UJ	2.32UJ	0.0109U
Toluene	0.2U	0.0105U	0.0118U	1.32J	2.32UJ	0.0109U
trans-1,2-Dichloroethene	0.2U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
trans-1,3-Dichloropropene	0.2U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
Trichloroethene	0.2U	0.0176	0.0118U	1.27UJ	2.32UJ	0.0109U
Trichlorofluoromethane		0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
Vinyl acetate	0.2U					
Vinyl chloride	0.2U	0.0105U	0.0118U	1.27UJ	2.32UJ	0.0109U
Xylenes, Total	0.6	0.0105U	0.00249J	7.71J	3.97J	0.0109U
TICs (see note 8)		0.132 NJ	0.890 NJ	413 NJ	815 NJ	0.015 NJ

TABLE 1
SUMMARY OF SOIL ANALYSIS RESULTS - VOLATILE ORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	SSB-5B	SSB-5C	SSB-5C	STB-37	STB-37	STB-38
SAMPLE DATE	10/28/02	10/29/02	10/29/02	12/23/02	12/23/02	12/26/02
SAMPLE INTERVAL	G3	G2	G3	S6	S8	G2
DEPTH TOP (ft.)	10.0	6.0	10.0	10.0	14.0	6.9
DEPTH BOTTOM (ft.)	12.0	8.0	12.0	12.0	16.0	8.9
LABORATORY SAMPLE ID	0210272-06A	0210283-01A	0210283-02A	2002:0015227-1	2002:0015227-6	2002:0015227-15
LABORATORY	E&E	E&E	E&E	Free-Col	Free-Col	Free-Col
ANALYSIS METHOD	OLM04.2_VOA	OLM04.2_VOA	OLM04.2_VOA	SW-846 8260B	SW-846 8260B	SW-846 8260B
1,1,1-Trichloroethane	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
1,1,2,2-Tetrachloroethane	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0108U	2.66U	1.45U			
1,1,2-Trichloroethane	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
1,1-Dichloroethane	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
1,1-Dichloroethene	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
1,2,4-Trichlorobenzene	0.0108U	2.66U	1.45U			
1,2,4-Trimethylbenzene	0.0108U	53.6D	6.99	10.3	934	37.6
1,2-Dibromo-3-chloropropane	0.0108U	2.66U	1.45U			
1,2-Dibromoethane	0.0108U	2.66U	1.45U			
1,2-Dichlorobenzene	0.0108U	2.66U	1.45U			
1,2-Dichloroethane	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
1,2-Dichloropropane	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
1,3,5-Trimethylbenzene	0.0108U	43.1	0.344J	6.5	346	10.8
1,3-Dichlorobenzene	0.0108U	2.66U	1.45U			
1,4-Dichlorobenzene	0.0108U	2.66U	1.45U			
2-Butanone	0.0108U	0.459U	0.291U	1.1U	11.5U	1.1U
2-Chloroethylvinylether				0.2U	2.3U	0.2U
2-Hexanone	0.0108U	2.66U	1.45U	1.1U	11.5U	1.1U
4-Methyl-2-pentanone	0.0108U	2.66U	1.45U	1.1U	11.5U	1.1U
Acetone	0.012J	0.923J	1.45U	1.1U	11.5U	1.1U
Benzene	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
Bromodichloromethane	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
Bromoform	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
Bromomethane	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
Carbon disulfide	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
Carbon tetrachloride	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
Chlorobenzene	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
Chloroethane	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
Chloroform	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
Chloromethane	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
cis-1,2-Dichloroethene	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
cis-1,3-Dichloropropene	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
Cyclohexane	0.0108U	2.66U	1.45U			
Dibromochloromethane	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
Dichlorodifluoromethane	0.0108U	2.66U	1.45U			
Ethylbenzene	0.0108U	2.24J	0.315J	0.9	49.6	1.2
Isopropylbenzene	0.0108U	2.41J	0.272J			
Methyl acetate	0.0108U	2.66U	1.45U			
Methyl tert-butyl ether	0.0108U	2.66U	1.45U			
Methylcyclohexane	0.0108U	0.756J	1.45U			
Methylene chloride	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
n-Butylbenzene	0.0108U	12.7	0.969J	7.1	208	12.2
sec-Butylbenzene	0.0108U	6.72	0.647J	3	104	9.4
Styrene	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
tert-Butylbenzene	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
Tetrachloroethene	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
Toluene	0.0108U	2.35J	1.45U	0.2U	2.3U	0.2U
trans-1,2-Dichloroethene	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
trans-1,3-Dichloropropene	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
Trichloroethene	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
Trichlorofluoromethane	0.0108U	2.66U	1.45U			
Vinyl acetate				0.2U	2.3U	0.2U
Vinyl chloride	0.0108U	2.66U	1.45U	0.2U	2.3U	0.2U
Xylenes, Total	0.0108U	14.7	1.45U	3.1	150	0.4
TICs (see note 8)	ND	337 NJ	14.9 NJ			

TABLE 1
SUMMARY OF SOIL ANALYSIS RESULTS - VOLATILE ORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	STB-38	STB-39	STB-39	STB-40	STB-40	STB-41
SAMPLE DATE	12/26/02	12/23/02	12/23/02	12/23/02	12/24/02	12/24/02
SAMPLE INTERVAL	G3	G1	G4	G1	G3	G1
DEPTH TOP (ft.)	10.9	0.9	12.9	0.8	8.8	0.8
DEPTH BOTTOM (ft.)	12.9	4.9	14.9	4.8	10.8	4.8
LABORATORY SAMPLE ID	2002:0015227-16	2002:0015227-5	2002:0015227-7	2002:0015227-3	2002:0015227-2	0212263-03A
LABORATORY	Free-Col	Free-Col	Free-Col	Free-Col	Free-Col	E&E
ANALYSIS METHOD	SW-846 8260B	SW-846 8260B	SW-846 8260B	SW-846 8260B	SW-846 8260B	OLM04.2_VOA
1,1,1-Trichloroethane	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
1,1,2,2-Tetrachloroethane	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
1,1,2-Trichloro-1,2,2-trifluoroethane						0.01U
1,1,2-Trichloroethane	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
1,1-Dichloroethane	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
1,1-Dichloroethene	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
1,2,4-Trichlorobenzene						0.01U
1,2,4-Trimethylbenzene	2.2U	10	0.2	87	8.7	0.01U
1,2-Dibromo-3-chloropropane						0.01U
1,2-Dibromoethane						0.01U
1,2-Dichlorobenzene						0.01U
1,2-Dichloroethane	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
1,2-Dichloropropane	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
1,3,5-Trimethylbenzene	2.2U	4.6	0.2U	64	2.6	0.01U
1,3-Dichlorobenzene						0.01U
1,4-Dichlorobenzene						0.01U
2-Butanone	11U	1.1U	1.2U	1.1U	1.2U	0.004J
2-Chloroethylvinylether	2.2U	0.2U	0.2U	0.2U	0.2U	
2-Hexanone	11U	1.1U	1.2U	1.1U	1.2U	0.01U
4-Methyl-2-pentanone	11U	1.1U	1.2U	1.1U	1.2U	0.01U
Acetone	11U	1.1U	1.2U	1.1U	1.2U	0.02
Benzene	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
Bromodichloromethane	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
Bromoform	2.2U	0.2U	0.2U	0.2U	0.2U	0.01UJ
Bromomethane	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
Carbon disulfide	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
Carbon tetrachloride	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
Chlorobenzene	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
Chloroethane	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
Chloroform	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
Chloromethane	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
cis-1,2-Dichloroethene	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
cis-1,3-Dichloropropene	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
Cyclohexane						0.01U
Dibromochloromethane	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
Dichlorodifluoromethane						0.01UJ
Ethylbenzene	4.5	0.2U	0.2U	1.3	0.2	0.01U
Isopropylbenzene						0.01U
Methyl acetate						0.01U
Methyl tert-butyl ether						0.01U
Methylcyclohexane						0.01U
Methylene chloride	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
n-Butylbenzene	45.3	2.5	11.5	33.2	1.5	0.01U
sec-Butylbenzene	39.7	1.1	2.2	16.6	1	0.01U
Styrene	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
tert-Butylbenzene	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
Tetrachloroethene	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
Toluene	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
trans-1,2-Dichloroethene	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
trans-1,3-Dichloropropene	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
Trichloroethene	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
Trichlorofluoromethane						0.01UJ
Vinyl acetate	2.2U	0.2U	0.2U	0.2U	0.2U	
Vinyl chloride	2.2U	0.2U	0.2U	0.2U	0.2U	0.01U
Xylenes, Total	2.2U	0.2U	0.2U	11.1	0.4	0.01U
TICs (see note 8)						ND

TABLE 1
SUMMARY OF SOIL ANALYSIS RESULTS - VOLATILE ORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	STB-41	TM-1	TM-1	TM-2	TM-2	DUPLICATE
SAMPLE DATE	12/24/02	12/23/02	12/23/02	12/23/02	12/23/02	12/23/02
SAMPLE INTERVAL	G2	G3	G4	G2	G4	G3
DEPTH TOP (ft.)	4.8	10.0	16.0	6.8	14.8	10.0
DEPTH BOTTOM (ft.)	7.0	14.0	17.7	10.8	16.8	14.0
LABORATORY SAMPLE ID	0212263-06A	0212263-04A	0212263-05A	2002:0015227-4	2002:0015227-8	0212263-02A
LABORATORY	E&E	E&E	E&E	Free-Col	Free-Col	E&E
ANALYSIS METHOD	OLM04.2_VOA	OLM04.2_VOA	OLM04.2_VOA	SW-846 8260B	SW-846 8260B	OLM04.2_VOA
1,1,1-Trichloroethane	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
1,1,2,2-Tetrachloroethane	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.01U	0.01U	0.01U			0.01U
1,1,2-Trichloroethane	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
1,1-Dichloroethane	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
1,1-Dichloroethene	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
1,2,4-Trichlorobenzene	0.01U	0.01U	0.01U			0.01U
1,2,4-Trimethylbenzene	0.01J	0.01U	0.1	0.2U	0.3U	0.01U
1,2-Dibromo-3-chloropropane	0.01U	0.01U	0.01U			0.01U
1,2-Dibromoethane	0.01U	0.01U	0.01U			0.01U
1,2-Dichlorobenzene	0.01U	0.01U	0.01U			0.01U
1,2-Dichloroethane	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
1,2-Dichloropropane	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
1,3,5-Trimethylbenzene	0.01U	0.01U	0.02	0.2U	0.3U	0.01U
1,3-Dichlorobenzene	0.01U	0.01U	0.01U			0.01U
1,4-Dichlorobenzene	0.01U	0.01U	0.01U			0.01U
2-Butanone	0.02	0.004J	0.02	1.2U	1.3U	0.003J
2-Chloroethylvinylether				0.2U	0.3U	
2-Hexanone	0.01U	0.01U	0.01U	1.2U	1.3U	0.01U
4-Methyl-2-pentanone	0.01U	0.01U	0.01U	1.2U	1.3U	0.01U
Acetone	0.1	0.02	0.1	1.2U	1.3U	0.02
Benzene	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
Bromodichloromethane	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
Bromoform	0.01UJ	0.01UJ	0.01UJ	0.2U	0.3U	0.01UJ
Bromomethane	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
Carbon disulfide	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
Carbon tetrachloride	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
Chlorobenzene	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
Chloroethane	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
Chloroform	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
Chloromethane	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
cis-1,2-Dichloroethene	0.01U	0.01U	0.003J	0.2U	0.3U	0.01U
cis-1,3-Dichloropropene	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
Cyclohexane	0.01U	0.01U	0.01U			0.01U
Dibromochloromethane	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
Dichlorodifluoromethane	0.01UJ	0.01UJ	0.01UJ			0.01UJ
Ethylbenzene	0.01U	0.01U	0.003J	0.2U	0.3U	0.01U
Isopropylbenzene	0.01U	0.01U	0.01J			0.01U
Methyl acetate	0.01U	0.01U	0.01U			0.01U
Methyl tert-butyl ether	0.01U	0.01U	0.01U			0.01U
Methylcyclohexane	0.01U	0.01U	0.01U			0.01U
Methylene chloride	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
n-Butylbenzene	0.01U	0.01U	0.1	0.2U	0.3U	0.01U
sec-Butylbenzene	0.01U	0.01U	0.1	0.2U	0.3U	0.01U
Styrene	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
tert-Butylbenzene	0.01U	0.01U	0.003J	0.2U	0.3U	0.01U
Tetrachloroethene	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
Toluene	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
trans-1,2-Dichloroethene	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
trans-1,3-Dichloropropene	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
Trichloroethene	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
Trichlorofluoromethane	0.01UJ	0.01UJ	0.01UJ			0.01UJ
Vinyl acetate				0.2U	0.3U	
Vinyl chloride	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
Xylenes, Total	0.01U	0.01U	0.01U	0.2U	0.3U	0.01U
TICs (see note 8)	0.06 NJ	ND	1.12 NJ			ND

TABLE 1
SUMMARY OF SOIL ANALYSIS RESULTS - VOLATILE ORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	DUPLICATE
SAMPLE DATE	12/27/02
SAMPLE INTERVAL	G3
DEPTH TOP (ft.)	8.0
DEPTH BOTTOM (ft.)	10.0
LABORATORY SAMPLE ID	2002:0015227-19
LABORATORY	Free-Col
ANALYSIS METHOD	SW-846 8260B
1,1,1-Trichloroethane	0.2U
1,1,2,2-Tetrachloroethane	0.2U
1,1,2-Trichloro-1,2,2-trifluoroethane	
1,1,2-Trichloroethane	0.2U
1,1-Dichloroethane	0.2U
1,1-Dichloroethene	0.2U
1,2,4-Trichlorobenzene	
1,2,4-Trimethylbenzene	0.2U
1,2-Dibromo-3-chloropropane	
1,2-Dibromoethane	
1,2-Dichlorobenzene	
1,2-Dichloroethane	0.2U
1,2-Dichloropropane	0.2U
1,3,5-Trimethylbenzene	0.2U
1,3-Dichlorobenzene	
1,4-Dichlorobenzene	
2-Butanone	1.1U
2-Chloroethylvinylether	0.2U
2-Hexanone	1.1U
4-Methyl-2-pentanone	1.1U
Acetone	1.1U
Benzene	0.2U
Bromodichloromethane	0.2U
Bromoform	0.2U
Bromomethane	0.2U
Carbon disulfide	0.2U
Carbon tetrachloride	0.2U
Chlorobenzene	0.2U
Chloroethane	0.2U
Chloroform	0.2U
Chloromethane	0.2U
cis-1,2-Dichloroethene	0.2U
cis-1,3-Dichloropropene	0.2U
Cyclohexane	
Dibromochloromethane	0.2U
Dichlorodifluoromethane	
Ethylbenzene	0.2U
Isopropylbenzene	
Methyl acetate	
Methyl tert-butyl ether	
Methylcyclohexane	
Methylene chloride	0.2U
n-Butylbenzene	0.2U
sec-Butylbenzene	0.2U
Styrene	0.2U
tert-Butylbenzene	0.2U
Tetrachloroethene	0.2U
Toluene	0.2U
trans-1,2-Dichloroethene	0.2U
trans-1,3-Dichloropropene	0.2U
Trichloroethene	0.2U
Trichlorofluoromethane	
Vinyl acetate	0.2U
Vinyl chloride	0.2U
Xylenes, Total	0.2U
TICs (see note 8)	

NOTES:

1. All results are presented in mg/kg, or parts-per-million (ppm).
2. Blank spaces indicate that the laboratory did not analyze for the analyte.
3. E&E denotes Ecology & Environment, Inc.
Free-Col denotes Free-Col Laboratories.
4. Data Qualifiers:
 - U – The analyte was analyzed for but not detected above the quantitation limit.
 - J – The analyte was positively identified but the value is an approximate concentration only.
 - UJ – Analyte not detected above the quantitation limit to accurately or precisely measure the analyte in the sample.
 - N – Presumed compound presence, identified as a tentatively-identified-compound (TIC).
 - NJ – Analyte presumptively present (TIC) and value is an approximation.
 - NJD – Approximate (TIC) concentration based on the analysis of a diluted sample.
 - R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and/or meet quality control standards. The presence or absence of the analyte cannot be verified.
5. Data Qualifier References:
 - OSWER 9240.1-05A-P, PB99-963506, EPA540/R-99/008, October 1999,
USEPA Contract Laboratory Program, National Functional Guidelines For Organic Data Review.
Office of Emergency and Remedial Response, USEPA, Washington, D.C.
 - OSWER 9240.1-35, EPA 540-R-01-008, July 2002,
USEPA Contract Laboratory Program, National Functional Guidelines For Inorganic Data Review.
Office of Emergency and Remedial Response, USEPA, Washington, D.C.
6. DUPLICATE from 10-28-02 is a field duplicate of the sample SSB-5B, 4.0-6.0 ft.
DUPLICATE from 10-27-02 is a field duplicate of the sample PB-15, 8.0-10.0 ft.
DUPLICATE from 10-23-02 is a field duplicate of the sample TM-1, 10.0-14.0 ft.
7. ND = Not Detected.
NA = Not Analyzed.
8. The Total TICs concentration presented on Table 1 is the sum of the concentrations reported by the laboratory for TICs identified as matching mass spectra of known compounds.

TABLE 2
SUMMARY OF SOIL ANALYSIS RESULTS - SEMIVOLATILE ORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	DGRB-2	DGRB-2	DGRB-6	DGRB-6
SAMPLE DATE	12/26/02	12/26/02	12/26/02	12/26/02
SAMPLE INTERVAL	G2	G3	G1	G3
DEPTH TOP (ft.)	6.9	8.9	0.9	10.9
DEPTH BOTTOM (ft.)	8.9	11.9	2.9	11.8
LABORATORY SAMPLE ID	2002:0015227-13	2002:0015227-14	2002:0015227-22	2002:0015227-23
LABORATORY	Free-Col	Free-Col	Free-Col	Free-Col
ANALYSIS METHOD	SW-846 8270C	SW-846 8270C	SW-846 8270C	SW-846 8270C
Acenaphthene	0.2U	0.2U	0.2U	0.2U
Acenaphthylene	0.2U	0.2U	0.2U	0.2U
Anthracene	0.2U	0.3	0.2U	0.2U
Benzo(a)anthracene	0.2U	0.2U	0.2U	0.2U
Benzo(a)pyrene	0.4	0.2U	0.2U	0.2U
Benzo(b)fluoranthene	0.5	0.2U	0.2U	0.2U
Benzo(g,h,i)perylene	0.2U	0.2U	0.2U	0.2U
Benzo(k)fluoranthene	0.6	0.2U	0.2U	0.2U
Chrysene	0.6	0.2	0.2U	0.2U
Dibenz(a,h)anthracene	0.6U	0.6U	0.6U	0.6U
Fluoranthene	1.2	0.7	0.2U	0.2U
Fluorene	0.2U	0.4	0.2U	0.2U
Indeno(1,2,3-cd)pyrene	0.2U	0.2U	0.2U	0.2U
Naphthalene	0.2U	0.2U	0.2U	0.2U
Phenanthrene	2.1	1.8	0.2U	0.7
Pyrene	0.7	0.6	0.2U	0.2U

TABLE 2
SUMMARY OF SOIL ANALYSIS RESULTS - SEMIVOLATILE ORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	DR-132	OW-324	OW-324	PB-15
SAMPLE DATE	12/5/02	10/25/02	10/25/02	12/27/02
SAMPLE INTERVAL	S1	G2	G4	G3
DEPTH TOP (ft.)	0.5	4.0	12.0	8.0
DEPTH BOTTOM (ft.)	2.0	8.0	14.0	10.0
LABORATORY SAMPLE ID	2002:0014772-1	0210272-03B	0210272-04B	2002:0015227-17
LABORATORY	Free-Col	E&E	E&E	Free-Col
ANALYSIS METHOD	SW-846 8270C	SW-846 8310	SW-846 8310	SW-846 8270C
Acenaphthene	1.2U	0.0901U	0.0885U	0.2U
Acenaphthylene	1.2U	0.0659J	0.0885U	0.2U
Anthracene	1.2U	0.00906	0.00885U	0.2U
Benzo(a)anthracene	1.2U	0.0486	0.00885U	0.2U
Benzo(a)pyrene	1.2U	0.0689	0.00263J	0.2U
Benzo(b)fluoranthene	1.2U	0.0458	0.00244J	0.2U
Benzo(g,h,i)perylene	1.2U	0.0358	0.0221U	0.2U
Benzo(k)fluoranthene	1.2U	0.0172	0.00885U	0.2U
Chrysene	1.2U	0.058	0.00116J	0.2U
Dibenz(a,h)anthracene	2.9U	0.0225U	0.0221U	0.6U
Fluoranthene	1.2U	0.176	0.0221U	0.2U
Fluorene	1.2U	0.00901U	0.00885U	0.2U
Indeno(1,2,3-cd)pyrene	1.2U	0.0382	0.00885U	0.2U
Naphthalene	1.9	0.0901U	0.0885U	0.2U
Phenanthrene	1.7	0.0567	0.00313J	0.2U
Pyrene	1.2U	0.0952	0.0221U	0.2U

TABLE 2
SUMMARY OF SOIL ANALYSIS RESULTS - SEMIVOLATILE ORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	PB-15	SMHB-1	SSB-4	SSB-4
SAMPLE DATE	12/27/02	10/24/02	10/25/02	10/25/02
SAMPLE INTERVAL	G3	G1	G2	G5
DEPTH TOP (ft.)	10.0	0.0	4.0	16.0
DEPTH BOTTOM (ft.)	12.0	4.0	8.0	20.0
LABORATORY SAMPLE ID	2002:0015227-18	0210252-01B	0210272-01B	0210272-02B
LABORATORY	Free-Col	E&E	E&E	E&E
ANALYSIS METHOD	SW-846 8270C	SW-846 8310	SW-846 8310	SW-846 8310
Acenaphthene	0.2U	5.82J	0.882J	1.85U
Acenaphthylene	0.2U	5.47J	1.65U	1.85U
Anthracene	0.2U	0.882J	0.227	0.154J
Benzo(a)anthracene	0.2U	1.89J	0.505	0.29
Benzo(a)pyrene	0.2	3.36J	0.81	0.577
Benzo(b)fluoranthene	0.2U	2.32J	0.626	0.536
Benzo(g,h,i)perylene	0.2U	1.43J	0.488	0.47
Benzo(k)fluoranthene	0.2U	0.915J	0.286	0.33
Chrysene	0.2U	2.35J	0.0698J	0.472
Dibenz(a,h)anthracene	0.6U	0.397UJ	0.413U	0.616
Fluoranthene	0.2U	11J	1.97	1.13
Fluorene	0.2U	0.696J	0.0814J	0.106J
Indeno(1,2,3-cd)pyrene	0.2U	1.26J	0.437	0.238
Naphthalene	0.2U	4.02J	1.65U	1.85U
Phenanthrene	0.5	6.3J	1.15	0.24
Pyrene	0.2	5.32J	1.26	0.982

TABLE 2
SUMMARY OF SOIL ANALYSIS RESULTS - SEMIVOLATILE ORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	STB-37	STB-37	STB-38	STB-38
SAMPLE DATE	12/23/02	12/23/02	12/26/02	12/26/02
SAMPLE INTERVAL	S6	S8	G2	G3
DEPTH TOP (ft.)	10.0	14.0	6.9	10.9
DEPTH BOTTOM (ft.)	12.0	16.0	8.9	12.9
LABORATORY SAMPLE ID	2002:0015227-1	2002:0015227-6	2002:0015227-15	2002:0015227-16
LABORATORY	Free-Col	Free-Col	Free-Col	Free-Col
ANALYSIS METHOD	SW-846 8270C	SW-846 8270C	SW-846 8270C	SW-846 8270C
Acenaphthene	0.2U	0.2	0.2U	0.2U
Acenaphthylene	0.2U	0.2U	0.2U	0.2U
Anthracene	0.2U	0.5	0.2U	0.2
Benzo(a)anthracene	0.2U	0.5	0.2U	0.6
Benzo(a)pyrene	0.2U	0.3	0.2U	0.4
Benzo(b)fluoranthene	0.2U	0.3	0.2U	0.3
Benzo(g,h,i)perylene	0.2U	0.2U	0.2U	0.2U
Benzo(k)fluoranthene	0.2U	0.3	0.2U	0.3
Chrysene	0.2U	0.6	0.2U	0.7
Dibenz(a,h)anthracene	0.5U	0.6U	0.6U	0.6U
Fluoranthene	0.2	1.4	0.3	1.1
Fluorene	0.2U	0.6	0.2U	0.2U
Indeno(1,2,3-cd)pyrene	0.2U	0.2U	0.2U	0.2U
Naphthalene	0.2U	24.2	0.2U	6.7
Phenanthrene	0.2	1.8	0.2	1
Pyrene	0.2U	1.4	0.3	1.1

TABLE 2
SUMMARY OF SOIL ANALYSIS RESULTS - SEMIVOLATILE ORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	STB-39	STB-39	STB-40	STB-40
SAMPLE DATE	12/23/02	12/23/02	12/23/02	12/24/02
SAMPLE INTERVAL	G1	G4	G1	G3
DEPTH TOP (ft.)	0.9	12.9	0.8	8.8
DEPTH BOTTOM (ft.)	4.9	14.9	4.8	10.8
LABORATORY SAMPLE ID	2002:0015227-5	2002:0015227-7	2002:0015227-3	2002:0015227-2
LABORATORY	Free-Col	Free-Col	Free-Col	Free-Col
ANALYSIS METHOD	SW-846 8270C	SW-846 8270C	SW-846 8270C	SW-846 8270C
Acenaphthene	0.2U	0.2U	0.2U	0.2U
Acenaphthylene	0.2U	0.2U	0.2U	0.2U
Anthracene	0.2U	0.2U	0.2U	1.2
Benzo(a)anthracene	0.2U	0.2U	0.2U	0.2
Benzo(a)pyrene	0.2U	0.2U	0.2U	0.4
Benzo(b)fluoranthene	0.2U	0.2U	0.2U	0.2U
Benzo(g,h,i)perylene	0.2U	0.2U	0.2U	0.2U
Benzo(k)fluoranthene	0.2U	0.2U	0.2U	0.2U
Chrysene	0.2U	0.2U	0.2U	0.2
Dibenz(a,h)anthracene	0.6U	0.6U	0.6U	0.6U
Fluoranthene	0.2U	0.2U	0.2U	1.4
Fluorene	0.2U	0.2U	0.2U	0.4
Indeno(1,2,3-cd)pyrene	0.2U	0.2U	0.2U	0.2U
Naphthalene	0.7	1.5	2.3	0.7
Phenanthrene	0.2U	0.2	0.2U	6.9
Pyrene	0.2U	0.2U	0.2U	1.4

TABLE 2
SUMMARY OF SOIL ANALYSIS RESULTS - SEMIVOLATILE ORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	STB-41	STB-41	TM-1	TM-1
SAMPLE DATE	12/24/02	12/24/02	12/23/02	12/23/02
SAMPLE INTERVAL	G1	G2	G3	G4
DEPTH TOP (ft.)	0.8	4.8	10.0	16.0
DEPTH BOTTOM (ft.)	4.8	7.0	14.0	17.7
LABORATORY SAMPLE ID	0212263-03B	0212263-06B	0212263-04B	0212263-05B
LABORATORY	E&E	E&E	E&E	E&E
ANALYSIS METHOD	SW-846 8310	SW-846 8310	SW-846 8310	SW-846 8310
Acenaphthene	0.1U	0.1U	0.4U	0.05U
Acenaphthylene	0.1U	0.1U	0.4U	0.01J
Anthracene	0.01U	0.01U	0.01J	0.01J
Benzo(a)anthracene	0.01U	0.01U	0.01J	0.02
Benzo(a)pyrene	0.01UJ	0.002J	0.04U	0.1
Benzo(b)fluoranthene	0.01J	0.01J	0.03J	0.01
Benzo(g,h,i)perylene	0.02U	0.02U	0.05J	0.03
Benzo(k)fluoranthene	0.004J	0.01J	0.01J	0.01J
Chrysene	0.01U	0.1U	0.01U	0.04U
Dibenz(a,h)anthracene	0.02U	0.02U	0.1U	0.02U
Fluoranthene	0.02U	0.004J	0.1J	0.1
Fluorene	0.01U	0.1U	0.04U	0.01U
Indeno(1,2,3-cd)pyrene	0.01U	0.01U	0.04U	0.02
Naphthalene	0.1U	0.1U	0.4U	0.3
Phenanthrene	0.002U	0.1U	0.03U	0.1U
Pyrene	0.02	0.003J	0.1J	0.1

TABLE 2
SUMMARY OF SOIL ANALYSIS RESULTS - SEMIVOLATILE ORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	TM-2	DUPLICATE	DUPLICATE
SAMPLE DATE	12/23/02	12/23/02	12/27/02
SAMPLE INTERVAL	G2	G3	G3
DEPTH TOP (ft.)	6.8	10.0	8.0
DEPTH BOTTOM (ft.)	10.8	14.0	10.0
LABORATORY SAMPLE ID	2002:0015227-4	0212263-02B	2002:0015227-19
LABORATORY	Free-Col	E&E	Free-Col
ANALYSIS METHOD	SW-846 8270C	SW-846 8310	SW-846 8270C
Acenaphthene	0.2U	0.1U	0.2U
Acenaphthylene	0.2U	0.04J	0.2U
Anthracene	0.2U	0.003J	0.2U
Benzo(a)anthracene	0.2U	0.01U	0.2U
Benzo(a)pyrene	0.2U	0.01U	0.2U
Benzo(b)fluoranthene	0.2U	0.01U	0.2U
Benzo(g,h,i)perylene	0.2U	0.01J	0.2U
Benzo(k)fluoranthene	0.2U	0.01U	0.2U
Chrysene	0.2U	0.01U	0.2U
Dibenz(a,h)anthracene	0.6U	0.02U	0.6U
Fluoranthene	0.2U	0.02J	0.2U
Fluorene	0.2U	0.003U	0.2U
Indeno(1,2,3-cd)pyrene	0.2U	0.01U	0.2U
Naphthalene	0.2U	0.1U	0.2U
Phenanthrene	0.6	0.01U	0.2U
Pyrene	0.2U	0.02J	0.2U

NOTES:

1. All results are presented in mg/kg, or parts-per-million (ppm).
2. Blank spaces indicate that the laboratory did not analyze for the analyte.
3. E&E denotes Ecology & Environment, Inc.
Free-Col denotes Free-Col Laboratories.
4. Data Qualifiers:
 - U – The analyte was analyzed for but not detected above the quantitation limit.
 - J – The analyte was positively identified but the value is an approximate concentration only.
 - UJ – Analyte not detected above the quantitation limit to accurately or precisely measure the analyte in the sample.
 - N – Presumed compound presence, identified as a tentatively-identified-compound (TIC).
 - NJ – Analyte presumptively present (TIC) and value is an approximation.
 - NJD – Approximate (TIC) concentration based on the analysis of a diluted sample.
 - R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and/or meet quality control standards. The presence or absence of the analyte cannot be verified.
5. Data Qualifier References:
 - OSWER 9240.1-05A-P, PB99-963506, EPA540/R-99/008, October 1999,
USEPA Contract Laboratory Program, National Functional Guidelines For Organic Data Review.
Office of Emergency and Remedial Response, USEPA, Washington, D.C.
 - OSWER 9240.1-35, EPA 540-R-01-008, July 2002,
USEPA Contract Laboratory Program, National Functional Guidelines For Inorganic Data Review.
Office of Emergency and Remedial Response, USEPA, Washington, D.C.
6. DUPLICATE from 10-28-02 is a field duplicate of the sample SSB-5B, 4.0-6.0 ft.
DUPLICATE from 10-27-02 is a field duplicate of the sample PB-15, 8.0-10.0 ft.
DUPLICATE from 10-23-02 is a field duplicate of the sample TM-1, 10.0-14.0 ft.
7. ND = Not Detected.
NA = Not Analyzed.
8. The Total TICs concentration presented on Table 1 is the sum of the concentrations reported by the laboratory for TICs identified as matching mass spectra of known compounds.

TABLE 3
SUMMARY OF SOIL ANALYSIS COMPOUNDS - INORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	DGRB-2	DGRB-2	DGRB-2	DGRB-2	DGRB-2	DGRB-2
SAMPLE DATE	12/26/02	12/26/02	12/26/02	12/26/02	12/26/02	12/26/02
SAMPLE INTERVAL	G2	G2	G2	G2	G3	G3
DEPTH TOP (ft.)	6.9	6.9	6.9	6.9	8.9	8.9
DEPTH BOTTOM (ft.)	8.9	8.9	8.9	8.9	11.9	11.9
LABORATORY SAMPLE ID	2002:0015227-13	2002:0015227-13	2002:0015227-13	2002:0015227-13	2002:0015227-14	2002:0015227-14
LABORATORY	Free-Col	Free-Col	Free-Col	Free-Col	Free-Col	Free-Col
ANALYSIS METHOD	SW-846 6010B	SW-846 7060A	SW-846 7470A	SW-846 9010B	SW-846 6010B	SW-846 7060A
Antimony	3.6U				3.4U	
Arsenic		4.6				1.3
Beryllium	2.4U				2.2U	
Cadmium	0.6U				0.6U	
Chromium	4.8				4.5	
Copper	13.1				6.1	
Cyanide				0.2U		
Lead	26.2				3.4U	
Mercury			0.1U			
Nickel	5.9				4.5	
Selenium	3.6U				3.4U	
Silver	0.6U				0.6U	
Thallium	5.9U				6.7	
Zinc	24.4				14.9	

TABLE 3
SUMMARY OF SOIL ANALYSIS COMPOUNDS - INORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	DGRB-2	DGRB-2	DGRB-7	DGRB-7	DR-132	DR-132
SAMPLE DATE	12/26/02	12/26/02	12/26/02	12/26/02	12/5/02	12/5/02
SAMPLE INTERVAL	G3	G3	G2	G3	S1	S1
DEPTH TOP (ft.)	8.9	8.9	4.9	10.9	0.5	0.5
DEPTH BOTTOM (ft.)	11.9	11.9	6.9	12.9	2.0	2.0
LABORATORY SAMPLE ID	2002:0015227-14	2002:0015227-14	2002:0015227-20	2002:0015227-21	2002:0014772-1	2002:0014772-1
LABORATORY	Free-Col	Free-Col	Free-Col	Free-Col	Free-Col	Free-Col
ANALYSIS METHOD	SW-846 7470A	SW-846 9010B	SW-846 6010B	SW-846 6010B	SW-846 6010B	SW-846 7060A
Antimony					0.35	
Arsenic						7.4
Beryllium					2.3U	
Cadmium					3.5	
Chromium					11.6	
Copper					24.3	
Cyanide		0.2U				
Lead			5.7U	8.2	20.8	
Mercury	0.1U					
Nickel					9.3	
Selenium					3.5U	
Silver					2.3	
Thallium					8.1	
Zinc					59.3	

TABLE 3
SUMMARY OF SOIL ANALYSIS COMPOUNDS - INORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	DR-132	DR-132	PB-15	PB-15	PB-15	PB-15
SAMPLE DATE	12/5/02	12/5/02	12/27/02	12/27/02	12/27/02	12/27/02
SAMPLE INTERVAL	S1	S1	G3	G3	G3	G3
DEPTH TOP (ft.)	0.5	0.5	8.0	8.0	8.0	8.0
DEPTH BOTTOM (ft.)	2.0	2.0	10.0	10.0	10.0	10.0
LABORATORY SAMPLE ID	2002:0014772-1	2002:0014772-1	2002:0015227-17	2002:0015227-17	2002:0015227-17	2002:0015227-17
LABORATORY	Free-Col	Free-Col	Free-Col	Free-Col	Free-Col	Free-Col
ANALYSIS METHOD	SW-846 7470A	SW-846 9010B	SW-846 6010B	SW-846 7060A	SW-846 7470A	SW-846 9010B
Antimony			3.4U			
Arsenic				1.9		
Beryllium			2.3U			
Cadmium			0.6U			
Chromium			7.7			
Copper			9.6			
Cyanide		0.2				0.2U
Lead			3.4U			
Mercury	0.3				0.1U	
Nickel			5.7			
Selenium			3.4U			
Silver			0.6U			
Thallium			6.8			
Zinc			19.3			

TABLE 3
SUMMARY OF SOIL ANALYSIS COMPOUNDS - INORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	PB-15	PB-15	PB-15	PB-15	PB-34	PB-34
SAMPLE DATE	12/27/02	12/27/02	12/27/02	12/27/02	12/23/02	12/23/02
SAMPLE INTERVAL	G3	G3	G3	G3	G1	G1
DEPTH TOP (ft.)	10.0	10.0	10.0	10.0	0.8	0.8
DEPTH BOTTOM (ft.)	12.0	12.0	12.0	12.0	4.8	4.8
LABORATORY SAMPLE ID	2002:0015227-18	2002:0015227-18	2002:0015227-18	2002:0015227-18	2002:0015227-9	2002:0015227-9
LABORATORY	Free-Col	Free-Col	Free-Col	Free-Col	Free-Col	Free-Col
ANALYSIS METHOD	SW-846 6010B	SW-846 7060A	SW-846 7470A	SW-846 9010B	SW-846 6010B	SW-846 7470A
Antimony	3.7U					
Arsenic		8.3				
Beryllium	2.4U					
Cadmium	0.6U				1.1U	
Chromium	9.4				123	
Copper	15.9				120	
Cyanide				0.2U		
Lead	15.9				34.2	
Mercury			0.1U			0.3
Nickel	9				9.1	
Selenium	3.7U					
Silver	0.6U					
Thallium	11					
Zinc	29.8				13098	

TABLE 3
SUMMARY OF SOIL ANALYSIS COMPOUNDS - INORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	PB-34	PB-34	PB-35	PB-35	SMHB-1	SMHB-1
SAMPLE DATE	12/23/02	12/23/02	12/26/02	12/26/02	10/24/02	10/24/02
SAMPLE INTERVAL	G3	G3	G2	G2	G1	G1
DEPTH TOP (ft.)	8.8	8.8	4.8	6.8	0.0	0.0
DEPTH BOTTOM (ft.)	11.2	11.2	6.8	8.8	4.0	4.0
LABORATORY SAMPLE ID	2002:0015227-10	2002:0015227-10	2002:0015227-10	2002:0015227-10	0210252-01BRE	0210252-01BRE
LABORATORY	Free-Col	Free-Col	Free-Col	Free-Col	E&E	E&E
ANALYSIS METHOD	SW-846 6010B	SW-846 7470A	SW-846 6010B	SW-846 6010B	ILM04.0_HG	ILM04.0_MET
Antimony						
Arsenic						56J
Beryllium						0.615U
Cadmium	1.1U					0.575U
Chromium	17.3					11.2J
Copper	10.4					29.1J
Cyanide						
Lead	10.4		13.3	18.9		
Mercury		0.1U			0.108U	
Nickel	4.6					15J
Selenium						5.18J
Silver						
Thallium						0.674U
Zinc	86					124J

TABLE 3
SUMMARY OF SOIL ANALYSIS COMPOUNDS - INORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	SSB-5C	STB-37	STB-37	STB-37	STB-37	STB-37
SAMPLE DATE	10/29/02	12/23/02	12/23/02	12/23/02	12/23/02	12/23/02
SAMPLE INTERVAL	G3	S6	S6	S6	S6	S8
DEPTH TOP (ft.)	10.0	10.0	10.0	10.0	10.0	14.0
DEPTH BOTTOM (ft.)	12.0	12.0	12.0	12.0	12.0	16.0
LABORATORY SAMPLE ID	0210283-02B	2002:0015227-1	2002:0015227-1	2002:0015227-1	2002:0015227-1	2002:0015227-6
LABORATORY	E&E	Free-Col	Free-Col	Free-Col	Free-Col	Free-Col
ANALYSIS METHOD	SW-846 6010B	SW-846 6010B	SW-846 7060A	SW-846 7470A	SW-846 9010B	SW-846 6010B
Antimony		3.3U				3.5U
Arsenic			1.6			
Beryllium		2.2U				2.3U
Cadmium	1.3J	0.6U				0.6U
Chromium	43.9J	5.5				7.7
Copper	32.1	6.6				9.5
Cyanide					0.2U	
Lead	19.6J	4.4				11.3
Mercury				0.3		
Nickel	18.1J	3.3				4.6
Selenium		3.3U				3.5U
Silver		0.6U				0.6U
Thallium		5.5U				5.8U
Zinc	79.5J	15.3				21.2

TABLE 3
SUMMARY OF SOIL ANALYSIS COMPOUNDS - INORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	STB-37	STB-37	STB-37	STB-38	STB-38	STB-38
SAMPLE DATE	12/23/02	12/23/02	12/23/02	12/26/02	12/26/02	12/26/02
SAMPLE INTERVAL	S8	S8	S8	G2	G2	G2
DEPTH TOP (ft.)	14.0	14.0	14.0	6.9	6.9	6.9
DEPTH BOTTOM (ft.)	16.0	16.0	16.0	8.9	8.9	8.9
LABORATORY SAMPLE ID	2002:0015227-6	2002:0015227-6	2002:0015227-6	2002:0015227-15	2002:0015227-15	2002:0015227-15
LABORATORY	Free-Col	Free-Col	Free-Col	Free-Col	Free-Col	Free-Col
ANALYSIS METHOD	SW-846 7060A	SW-846 7470A	SW-846 9010B	SW-846 6010B	SW-846 7060A	SW-846 7470A
Antimony				3.3		
Arsenic	2.1				3.2	
Beryllium				2.2U		
Cadmium				0.6U		
Chromium				6.6		
Copper				17.7		
Cyanide			0.2U			
Lead				30.9		
Mercury		0.1U				0.3
Nickel				5.7		
Selenium				3.3U		
Silver				0.6U		
Thallium				6.6		
Zinc				55		

TABLE 3
SUMMARY OF SOIL ANALYSIS COMPOUNDS - INORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	STB-38	STB-38	STB-38	STB-38	STB-38	STB-39
SAMPLE DATE	12/26/02	12/26/02	12/26/02	12/26/02	12/26/02	12/23/02
SAMPLE INTERVAL	G2	G3	G3	G3	G3	G1
DEPTH TOP (ft.)	6.9	10.9	10.9	10.9	10.9	0.9
DEPTH BOTTOM (ft.)	8.9	12.9	12.9	12.9	12.9	4.9
LABORATORY SAMPLE ID	2002:0015227-15	2002:0015227-16	2002:0015227-16	2002:0015227-16	2002:0015227-16	2002:0015227-5
LABORATORY	Free-Col	Free-Col	Free-Col	Free-Col	Free-Col	Free-Col
ANALYSIS METHOD	SW-846 9010B	SW-846 6010B	SW-846 7060A	SW-846 7470A	SW-846 9010B	SW-846 6010B
Antimony		3.3U				4.5
Arsenic			3.6			
Beryllium		2.2U				2.2U
Cadmium		0.6U				0.6U
Chromium		5.5				468
Copper		21				26.8
Cyanide	0.2U				0.2U	
Lead		28.7				3.3U
Mercury				0.1		
Nickel		6.6				17.8
Selenium		3.3U				3.3U
Silver		0.6U				0.6U
Thallium		5.5U				22.3
Zinc		48.9				20.1

TABLE 3
SUMMARY OF SOIL ANALYSIS COMPOUNDS - INORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	STB-39	STB-39	STB-39	STB-39	STB-39	STB-39
SAMPLE DATE	12/23/02	12/23/02	12/23/02	12/23/02	12/23/02	12/23/02
SAMPLE INTERVAL	G1	G1	G1	G4	G4	G4
DEPTH TOP (ft.)	0.9	0.9	0.9	12.9	12.9	12.9
DEPTH BOTTOM (ft.)	4.9	4.9	4.9	14.9	14.9	14.9
LABORATORY SAMPLE ID	2002:0015227-5	2002:0015227-5	2002:0015227-5	2002:0015227-7	2002:0015227-7	2002:0015227-7
LABORATORY	Free-Col	Free-Col	Free-Col	Free-Col	Free-Col	Free-Col
ANALYSIS METHOD	SW-846 7060A	SW-846 7470A	SW-846 9010B	SW-846 6010B	SW-846 7060A	SW-846 7470A
Antimony				3.7U		
Arsenic	2.3				5.4	
Beryllium				2.5U		
Cadmium				0.6U		
Chromium				5.8		
Copper				14.7		
Cyanide			0.2U			
Lead				12.3		
Mercury		0.1U				0.05U
Nickel				3.7		
Selenium				3.7U		
Silver				0.6U		
Thallium				6.1U		
Zinc				20.5		

TABLE 3
SUMMARY OF SOIL ANALYSIS COMPOUNDS - INORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	STB-39	STB-40	STB-40	STB-40	STB-40	STB-40
SAMPLE DATE	12/23/02	12/23/02	12/23/02	12/23/02	12/23/02	12/24/02
SAMPLE INTERVAL	G4	G1	G1	G1	G1	G3
DEPTH TOP (ft.)	12.9	0.8	0.8	0.8	0.8	8.8
DEPTH BOTTOM (ft.)	14.9	4.8	4.8	4.8	4.8	10.8
LABORATORY SAMPLE ID	2002:0015227-7	2002:0015227-3	2002:0015227-3	2002:0015227-3	2002:0015227-3	2002:0015227-2
LABORATORY	Free-Col	Free-Col	Free-Col	Free-Col	Free-Col	Free-Col
ANALYSIS METHOD	SW-846 9010B	SW-846 6010B	SW-846 7060A	SW-846 7470A	SW-846 9010B	SW-846 6010B
Antimony		3.3U				3.7U
Arsenic			3			
Beryllium		2.2U				2.5U
Cadmium		0.6U				0.6U
Chromium		9.7				8
Copper		15.5				7.9
Cyanide	0.2U				0.2U	
Lead		3.3U				10.2
Mercury				0.1U		
Nickel		10.4				4.9
Selenium		3.3U				3.7U
Silver		0.6U				0.6U
Thallium		8.9				9.8
Zinc		27.2				19.9

TABLE 3
SUMMARY OF SOIL ANALYSIS COMPOUNDS - INORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	STB-40	STB-40	STB-40	STB-41	STB-41	STB-41
SAMPLE DATE	12/24/02	12/24/02	12/24/02	12/24/02	12/24/02	12/24/02
SAMPLE INTERVAL	G3	G3	G3	G1	G1	G1
DEPTH TOP (ft.)	8.8	8.8	8.8	0.8	0.8	0.8
DEPTH BOTTOM (ft.)	10.8	10.8	10.8	4.8	4.8	4.8
LABORATORY SAMPLE ID	2002:0015227-2	2002:0015227-2	2002:0015227-2	0212263-03B	0212263-03BRE	0212263-03B
LABORATORY	Free-Col	Free-Col	Free-Col	E&E	E&E	E&E
ANALYSIS METHOD	SW-846 7060A	SW-846 7470A	SW-846 9010B	ILM04.0_CN	ILM04.0_HG	ILM04.0_MET
Antimony						3.7J
Arsenic	3.7					0.79J
Beryllium						0.25J
Cadmium						0.064U
Chromium						7.9
Copper						5.4J
Cyanide			0.2U	0.027J		
Lead						2.8
Mercury		0.1U			0.055R	
Nickel						5.6J
Selenium						2.2R
Silver						0.38UJ
Thallium						2.6
Zinc						20.3J

TABLE 3
SUMMARY OF SOIL ANALYSIS COMPOUNDS - INORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	STB-41	STB-41	STB-41	TM-1	TM-1	TM-1
SAMPLE DATE	12/24/02	12/24/02	12/24/02	12/23/02	12/23/02	12/23/02
SAMPLE INTERVAL	G2	G2	G2	G3	G3	G3
DEPTH TOP (ft.)	4.8	4.8	4.8	10.0	10.0	10.0
DEPTH BOTTOM (ft.)	7.0	7.0	7.0	14.0	14.0	14.0
LABORATORY SAMPLE ID	0212263-06B	0212263-06BRE	0212263-06B	0212263-04B	0212263-04BRE	0212263-04B
LABORATORY	E&E	E&E	E&E	E&E	E&E	E&E
ANALYSIS METHOD	ILM04.0_CN	ILM04.0_HG	ILM04.0_MET	ILM04.0_CN	ILM04.0_HG	ILM04.0_MET
Antimony			1.8J			0.93UJ
Arsenic			0.79UJ			1.9J
Beryllium			0.35J			0.35J
Cadmium			0.063U			0.062U
Chromium			6.7			5.8
Copper			7.8			6.2
Cyanide	1U			0.077J		
Lead			7.5			15.3
Mercury		0.056UJ			0.095J	
Nickel			6J			7.5J
Selenium			2.1UJ			1.1UJ
Silver			0.37UJ			0.37UJ
Thallium			4.1			1.4J
Zinc			12.6J			16.4J

TABLE 3
SUMMARY OF SOIL ANALYSIS COMPOUNDS - INORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	TM-1	TM-1	TM-1	TM-2	TM-2	TM-2
SAMPLE DATE	12/23/02	12/23/02	12/23/02	12/23/02	12/23/02	12/23/02
SAMPLE INTERVAL	G4	G4	G4	G2	G2	G2
DEPTH TOP (ft.)	16.0	16.0	16.0	6.8	6.8	6.8
DEPTH BOTTOM (ft.)	17.7	17.7	17.7	10.8	10.8	10.8
LABORATORY SAMPLE ID	0212263-05B	0212263-05BRE	0212263-05B	2002:0015227-4	2002:0015227-4	2002:0015227-4
LABORATORY	E&E	E&E	E&E	Free-Col	Free-Col	Free-Col
ANALYSIS METHOD	ILM04.0_CN	ILM04.0_HG	ILM04.0_MET	SW-846 6010B	SW-846 7060A	SW-846 7470A
Antimony			1.1J	3.5U		
Arsenic			1.8J		5.1	
Beryllium			0.36J	2.4U		
Cadmium			0.07U	0.6U		
Chromium			7.1	7.1		
Copper			10.1	11.3		
Cyanide	0.018J					
Lead			45	12.9		
Mercury		0.066J				0.05
Nickel			9.4J	9.3		
Selenium			1.2UJ	3.5U		
Silver			0.41UJ	0.6U		
Thallium			2.4	9.4		
Zinc			34.7J	22.2		

TABLE 3
SUMMARY OF SOIL ANALYSIS COMPOUNDS - INORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	TM-2	TM-2	TM-2	DUPLICATE	DUPLICATE	DUPLICATE
SAMPLE DATE	12/23/02	12/23/02	12/23/02	12/23/02	12/23/02	12/23/02
SAMPLE INTERVAL	G2	G3	G4	G3	G3	G3
DEPTH TOP (ft.)	6.8	10.8	14.8	10.0	10.0	10.0
DEPTH BOTTOM (ft.)	10.8	14.8	16.8	14.0	14.0	14.0
LABORATORY SAMPLE ID	2002:0015227-4	2002:0015227-11	2002:0015227-8	0212263-02B	0212263-02BRE	0212263-02B
LABORATORY	Free-Col	Free-Col	Free-Col	E&E	E&E	E&E
ANALYSIS METHOD	SW-846 9010B	SW-846 6010B	SW-846 6010B	ILM04.0_CN	ILM04.0_HG	ILM04.0_MET
Antimony						0.87UJ
Arsenic						0.83J
Beryllium						0.28J
Cadmium						0.059U
Chromium						6.5
Copper		11.6	33.1			6.2
Cyanide	0.2U			0.042J		
Lead						9.9
Mercury					0.043UJ	
Nickel						8.3
Selenium						3UJ
Silver						0.34UJ
Thallium						1.9J
Zinc						13.5J

TABLE 3
SUMMARY OF SOIL ANALYSIS COMPOUNDS - INORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	DUPLICATE	DUPLICATE	DUPLICATE	DUPLICATE
SAMPLE DATE	12/27/02	12/27/02	12/27/02	12/27/02
SAMPLE INTERVAL	G3	G3	G3	G3
DEPTH TOP (ft.)	8.0	8.0	8.0	8.0
DEPTH BOTTOM (ft.)	10.0	10.0	10.0	10.0
LABORATORY SAMPLE ID	2002:0015227-19	2002:0015227-19	2002:0015227-19	2002:0015227-19
LABORATORY	Free-Col	Free-Col	Free-Col	Free-Col
ANALYSIS METHOD	SW-846 6010B	SW-846 7060A	SW-846 7470A	SW-846 9010B
Antimony	3.3U			
Arsenic		2.3		
Beryllium	2.2U			
Cadmium	0.6U			
Chromium	8.2			
Copper	9.4			
Cyanide				0.2U
Lead	3.3U			
Mercury			0.1U	
Nickel	7.6			
Selenium	3.3U			
Silver	0.6U			
Thallium	6.7			
Zinc	22.9			

NOTES:

1. All results are presented in mg/kg, or parts-per-million (ppm).
2. Blank spaces indicate that the laboratory did not analyze for the analyte.
3. E&E denotes Ecology & Environment, Inc.
Free-Col denotes Free-Col Laboratories.
4. Data Qualifiers:
 - U – The analyte was analyzed for but not detected above the quantitation limit.
 - J – The analyte was positively identified but the value is an approximate concentration only.
 - UJ – Analyte not detected above the quantitation limit to accurately or precisely measure the analyte in the sample.
 - N – Presumed compound presence, identified as a tentatively-identified-compound (TIC).
 - NJ – Analyte presumptively present (TIC) and value is an approximation.
 - NJD – Approximate (TIC) concentration based on the analysis of a diluted sample.
 - R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and/or meet quality control standards. The presence or absence of the analyte cannot be verified.
5. Data Qualifier References:
 - OSWER 9240.1-05A-P, PB99-963506, EPA540/R-99/008, October 1999,
USEPA Contract Laboratory Program, National Functional Guidelines For Organic Data Review.
Office of Emergency and Remedial Response, USEPA, Washington, D.C.
 - OSWER 9240.1-35, EPA 540-R-01-008, July 2002,
USEPA Contract Laboratory Program, National Functional Guidelines For Inorganic Data Review.
Office of Emergency and Remedial Response, USEPA, Washington, D.C.
6. DUPLICATE from 10-28-02 is a field duplicate of the sample SSB-5B, 4.0-6.0 ft.
DUPLICATE from 10-27-02 is a field duplicate of the sample PB-15, 8.0-10.0 ft.
DUPLICATE from 10-23-02 is a field duplicate of the sample TM-1, 10.0-14.0 ft.
7. ND = Not Detected.
NA = Not Analyzed.
8. The Total TICs concentration presented on Table 1 is the sum of the concentrations reported by the laboratory for TICs identified as matching mass spectra of known compounds.

TABLE 4
SUMMARY OF SOIL ANALYSIS RESULTS - PCBs
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	DGRB-2	DGRB-2	DR-132	PB-15	PB-15	SMHB-1
SAMPLE DATE	12/26/02	12/26/02	12/5/02	12/27/02	12/27/02	10/24/02
SAMPLE INTERVAL	G2	G3	S1	G3	G3	G1
DEPTH TOP (ft.)	6.9	8.9	0.5	8.0	10.0	0.0
DEPTH BOTTOM (ft.)	8.9	11.9	2.0	10.0	12.0	4.0
LABORATORY SAMPLE ID	2002:0015227-13	2002:0015227-14	2002:0014772-1	2002:0015227-17	2002:0015227-18	0210252-01B
LABORATORY	Free-Col	Free-Col	Free-Col	Free-Col	Free-Col	E&E
ANALYSIS METHOD	SW-846 8082	SW-846 8082	SW-846 8082	SW-846 8082	SW-846 8082	SW-846 8082
Aroclor 1016	0.1U	0.1U	0.1U	0.1U	0.1U	0.0203U
Aroclor 1221	0.1U	0.1U	0.1U	0.1U	0.1U	0.0405U
Aroclor 1232	0.1U	0.1U	0.1U	0.1U	0.1U	0.0203U
Aroclor 1242	0.1U	0.1U	0.1U	0.1U	0.1U	0.0203U
Aroclor 1248	0.1U	0.1U	0.1U	0.1U	0.1U	0.0203U
Aroclor 1254	0.1U	0.1U	0.1U	0.1U	0.1U	0.0203U
Aroclor 1260	0.1U	0.1U	1.6	0.1U	0.1U	0.0203U

TABLE 4
SUMMARY OF SOIL ANALYSIS RESULTS - PCBs
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	SSB-4	SSB-4	STB-37	STB-37	STB-38	STB-38
SAMPLE DATE	10/25/02	10/25/02	12/23/02	12/23/02	12/26/02	12/26/02
SAMPLE INTERVAL	G2	G5	S6	S8	G2	G3
DEPTH TOP (ft.)	4.0	16.0	10.0	14.0	6.9	10.9
DEPTH BOTTOM (ft.)	8.0	20.0	12.0	16.0	8.9	12.9
LABORATORY SAMPLE ID	0210272-01B	0210272-02B	2002:0015227-1	2002:0015227-6	2002:0015227-15	2002:0015227-16
LABORATORY	E&E	E&E	Free-Col	Free-Col	Free-Col	Free-Col
ANALYSIS METHOD	SW-846 8082	SW-846 8082	SW-846 8082	SW-846 8082	SW-846 8082	SW-846 8082
Aroclor 1016	0.439UJ	0.0222U	0.1U	0.1U	0.1U	0.1U
Aroclor 1221	0.879UJ	0.0444U	0.1U	0.1U	0.1U	0.1U
Aroclor 1232	0.439UJ	0.0222U	0.1U	0.1U	0.1U	0.1U
Aroclor 1242	0.439UJ	0.0222U	0.1U	0.1U	0.1U	0.1U
Aroclor 1248	5.28J	0.285	0.1U	0.1U	0.1U	0.1U
Aroclor 1254	0.439UJ	0.0222U	0.1U	0.1U	0.1U	0.1U
Aroclor 1260	0.439UJ	0.0222U	0.1U	0.1U	0.1U	0.1U

TABLE 4
SUMMARY OF SOIL ANALYSIS RESULTS - PCBs
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	STB-39	STB-39	STB-40	STB-40	STB-41	STB-41
SAMPLE DATE	12/23/02	12/23/02	12/23/02	12/24/02	12/24/02	12/24/02
SAMPLE INTERVAL	G1	G4	G1	G3	G1	G2
DEPTH TOP (ft.)	0.9	12.9	0.8	8.8	0.8	4.8
DEPTH BOTTOM (ft.)	4.9	14.9	4.8	10.8	4.8	7.0
LABORATORY SAMPLE ID	2002:0015227-5	2002:0015227-7	2002:0015227-3	2002:0015227-2	0212263-03B	0212263-06B
LABORATORY	Free-Col	Free-Col	Free-Col	Free-Col	E&E	E&E
ANALYSIS METHOD	SW-846 8082	SW-846 8082	SW-846 8082	SW-846 8082	SW-846 8082	SW-846 8082
Aroclor 1016	0.1U	0.1U	0.1U	0.1U	0.02R	0.02R
Aroclor 1221	0.1U	0.1U	0.1U	0.1U	0.04U	0.05UJ
Aroclor 1232	0.1U	0.1U	0.1U	0.1U	0.02U	0.02UJ
Aroclor 1242	0.1U	0.1U	0.1U	0.1U	0.02U	0.02UJ
Aroclor 1248	0.1U	0.1U	0.1U	1.2	0.02U	0.02UJ
Aroclor 1254	0.1U	0.1U	0.1U	0.1U	0.02U	0.02UJ
Aroclor 1260	0.1U	0.1U	0.1U	0.1U	0.02U	0.02UJ

TABLE 4
SUMMARY OF SOIL ANALYSIS RESULTS - PCBs
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = mg/kg)

BORING OR WELL NUMBER	TM-1	TM-1	TM-2	DUPLICATE	DUPLICATE
SAMPLE DATE	12/23/02	12/23/02	12/23/02	12/23/02	12/27/02
SAMPLE INTERVAL	G3	G4	G2	G3	G3
DEPTH TOP (ft.)	10.0	16.0	6.8	10.0	8.0
DEPTH BOTTOM (ft.)	14.0	17.7	10.8	14.0	10.0
LABORATORY SAMPLE ID	0212263-04B	0212263-05B	2002:0015227-4	0212263-02B	2002:0015227-19
LABORATORY	E&E	E&E	Free-Col	E&E	Free-Col
ANALYSIS METHOD	SW-846 8082	SW-846 8082	SW-846 8082	SW-846 8082	SW-846 8082
Aroclor 1016	0.5R	0.02R	0.1U	0.5R	0.1U
Aroclor 1221	1U	0.05U	0.1U	1U	0.1U
Aroclor 1232	0.5U	0.02U	0.1U	0.5U	0.1U
Aroclor 1242	0.5U	0.02U	0.1U	0.5U	0.1U
Aroclor 1248	0.5U	0.02U	0.1U	0.5U	0.1U
Aroclor 1254	0.5U	0.02U	0.1U	0.5U	0.1U
Aroclor 1260	0.5U	0.02U	0.1U	0.5U	0.1U

NOTES:

1. All results are presented in mg/kg, or parts-per-million (ppm).
2. Blank spaces indicate that the laboratory did not analyze for the analyte.
3. E&E denotes Ecology & Environment, Inc.
Free-Col denotes Free-Col Laboratories.
4. Data Qualifiers:
 - U – The analyte was analyzed for but not detected above the quantitation limit.
 - J – The analyte was positively identified but the value is an approximate concentration only.
 - UJ – Analyte not detected above the quantitation limit to accurately or precisely measure the analyte in the sample.
 - N – Presumed compound presence, identified as a tentatively-identified-compound (TIC).
 - NJ – Analyte presumptively present (TIC) and value is an approximation.
 - NJD – Approximate (TIC) concentration based on the analysis of a diluted sample.
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5. Data Qualifier References:
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USEPA Contract Laboratory Program, National Functional Guidelines For Organic Data Review.
Office of Emergency and Remedial Response, USEPA, Washington, D.C.
 - OSWER 9240.1-35, EPA 540-R-01-008, July 2002,
USEPA Contract Laboratory Program, National Functional Guidelines For Inorganic Data Review.
Office of Emergency and Remedial Response, USEPA, Washington, D.C.
6. DUPLICATE from 10-28-02 is a field duplicate of the sample SSB-5B, 4.0-6.0 ft.
DUPLICATE from 10-27-02 is a field duplicate of the sample PB-15, 8.0-10.0 ft.
DUPLICATE from 10-23-02 is a field duplicate of the sample TM-1, 10.0-14.0 ft.
7. ND = Not Detected.
NA = Not Analyzed.
8. The Total TICs concentration presented on Table 1 is the sum of the concentrations reported by the laboratory for TICs identified as matching mass spectra of known compounds.

TABLE 5
SUMMARY OF GROUNDWATER ANALYSIS RESULTS - VOLATILE ORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = µg/L)

Boring or Well Number	OW-328	SSB-3	SSB-4
Sample Date	12/26/02	10/29/02	10/28/02
Laboratory Sample ID	2002:0015317-1	2002:0012969-1	2002:0012969-2
Laboratory	Free-Col	Free-Col	Free-Col
Analysis Method	SW-846 8260B	SW-846 8260B	SW-846 8260B
1,1,1-Trichloroethane	0.002U	0.002U	0.002U
1,1,2,2-Tetrachloroethane	0.002U	0.002U	0.002U
1,1,2-Trichloroethane	0.002U	0.002U	0.002U
1,1-Dichloroethane	0.002U	0.002U	0.002U
1,1-Dichloroethene	0.002U	0.002U	0.002U
1,2,4-Trimethylbenzene	0.027	0.14	0.53
1,2-Dichloroethane	0.002U	0.002U	0.002U
1,2-Dichloropropane	0.002U	0.002U	0.002U
1,3,5-Trimethylbenzene	0.01	0.12	0.16
2-Butanone	0.01U	0.01U	0.01U
2-Chloroethylvinylether	0.002U	0.002U	0.002U
2-Hexanone	0.01U	0.01U	0.01U
4-Methyl-2-pentanone	0.01U	0.01U	0.01U
Acetone	0.037	0.01U	0.012
Benzene	0.002U	0.002U	0.002U
Bromodichloromethane	0.002U	0.002U	0.002U
Bromoform	0.002U	0.002U	0.002U
Bromomethane	0.002U	0.002U	0.002U
Carbon disulfide	0.002U	0.002U	0.002U
Carbon tetrachloride	0.002U	0.002U	0.002U
Chlorobenzene	0.002U	0.002U	0.002U
Chloroethane	0.002U	0.002U	0.002U
Chloroform	0.002U	0.002U	0.002U
Chloromethane	0.002U	0.002U	0.002U
cis-1,2-Dichloroethene	0.002U	0.077	0.007
cis-1,3-Dichloropropene	0.002U	0.002U	0.002U
Dibromochloromethane	0.002U	0.002U	0.002U
Ethylbenzene	0.005	0.002U	0.02
Methylene chloride	0.002U	0.002U	0.002U
n-Butylbenzene	0.032	0.002U	0.002U
sec-Butylbenzene	0.034	0.021	0.015
Styrene	0.002U	0.002U	0.002U
tert-Butylbenzene	0.002U	0.002U	0.002U
Tetrachloroethene	0.002U	0.002U	0.002U
Toluene	0.002U	0.002U	0.002U
trans-1,2-Dichloroethene	0.002U	0.002U	0.002U
trans-1,3-Dichloropropene	0.002U	0.002U	0.002U
Trichloroethene	0.002U	0.028	0.019
Vinyl acetate	0.002U	0.002U	0.002U
Vinyl chloride	0.002U	0.025	0.002U
Xylenes, Total	0.005	0.008	0.079

NOTES:

1. All results are presented in mg/kg, or parts-per-million (ppm).
2. Blank spaces indicate that the laboratory did not analyze for the analyte.
3. E&E denotes Ecology & Environment, Inc.
Free-Col denotes Free-Col Laboratories.
4. Data Qualifiers:
 - U – The analyte was analyzed for but not detected above the quantitation limit.
 - J – The analyte was positively identified but the value is an approximate concentration only.
 - UJ – Analyte not detected above the quantitation limit to accurately or precisely measure the analyte in the sample.
 - N – Presumed compound presence, identified as a tentatively-identified-compound (TIC).
 - NJ – Analyte presumptively present (TIC) and value is an approximation.
 - NJD – Approximate (TIC) concentration based on the analysis of a diluted sample.
 - R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and/or meet quality control standards. The presence or absence of the analyte cannot be verified.
5. Data Qualifier References:
 - OSWER 9240.1-05A-P, PB99-963506, EPA540/R-99/008, October 1999,
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 - OSWER 9240.1-35, EPA 540-R-01-008, July 2002,
USEPA Contract Laboratory Program, National Functional Guidelines For Inorganic Data Review.
Office of Emergency and Remedial Response, USEPA, Washington, D.C.
6. DUPLICATE from 10-28-02 is a field duplicate of the sample SSB-5B, 4.0-6.0 ft.
DUPLICATE from 10-27-02 is a field duplicate of the sample PB-15, 8.0-10.0 ft.
DUPLICATE from 10-23-02 is a field duplicate of the sample TM-1, 10.0-14.0 ft.
7. ND = Not Detected.
NA = Not Analyzed.
8. The Total TICs concentration presented on Table 1 is the sum of the concentrations reported by the laboratory for TICs identified as matching mass spectra of known compounds.

TABLE 6
SUMMARY OF GROUNDWATER ANALYSIS RESULTS - INORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = µg/L)

Boring or Well Number	OW-328	OW-328	OW-328	OW-328
Sample Date	12/26/02	12/26/02	12/26/02	12/26/02
Laboratory Sample ID	2002:0015317-1	2002:0015317-1	2002:0015317-1	2002:0015317-1
Laboratory	Free-Col	Free-Col	Free-Col	Free-Col
Analysis Method	SW-846 6010B	SW-846 7131A	SW-846 7421	SW-846 7470A
Antimony				
Arsenic				
Beryllium				
Cadmium		0.0058		
Chromium	0.23			
Copper	0.66			
Lead			1.5	
Mercury				0.0024
Nickel	0.13			
Selenium				
Silver				
Thallium				
Zinc	2.6			

TABLE 6
SUMMARY OF GROUNDWATER ANALYSIS RESULTS - INORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

All results are in parts per million (ppm = µg/L)

Boring or Well Number	SSB-3	SSB-3	SSB-3	SSB-4
Sample Date	10/29/02	10/29/02	10/29/02	10/28/02
Laboratory Sample ID	2002:0012969-4	2002:0012969-4	2002:0012969-4	2002:0012969-5
Laboratory	Free-Col	Free-Col	Free-Col	Free-Col
Analysis Method	SW-846 6010B	SW-846 7060A	SW-846 7470A	SW-846 6010B
Antimony	0.05U			0.05U
Arsenic		0.062		
Beryllium	0.03U			0.03U
Cadmium	0.01U			0.01U
Chromium	0.43			0.54
Copper	3.19			0.48
Lead	1.09			0.07
Mercury			0.12	
Nickel	0.34			0.05
Selenium	0.05U			0.05U
Silver	0.01			0.01U
Thallium	0.2			0.1
Zinc	2.3			0.861

TABLE 6
SUMMARY OF GROUNDWATER ANALYSIS RESULTS - INORGANIC COMPOUNDS
DELPHI CORPORATION
ROCHESTER, NY

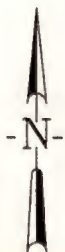
All results are in parts per million (ppm = µg/L)

Boring or Well Number	SSB-4	SSB-4
Sample Date	10/28/02	10/28/02
Laboratory Sample ID	2002:0012969-5	2002:0012969-5
Laboratory	Free-Col	Free-Col
Analysis Method	SW-846 7060A	SW-846 7470A
Antimony		
Arsenic	0.012	
Beryllium		
Cadmium		
Chromium		
Copper		
Lead		
Mercury		0.0088
Nickel		
Selenium		
Silver		
Thallium		
Zinc		

NOTES:

1. All results are presented in mg/kg, or parts-per-million (ppm).
2. Blank spaces indicate that the laboratory did not analyze for the analyte.
3. E&E denotes Ecology & Environment, Inc.
Free-Col denotes Free-Col Laboratories.
4. Data Qualifiers:
 - U – The analyte was analyzed for but not detected above the quantitation limit.
 - J – The analyte was positively identified but the value is an approximate concentration only.
 - UJ – Analyte not detected above the quantitation limit to accurately or precisely measure the analyte in the sample.
 - N – Presumed compound presence, identified as a tentatively-identified-compound (TIC).
 - NJ – Analyte presumptively present (TIC) and value is an approximation.
 - NJD – Approximate (TIC) concentration based on the analysis of a diluted sample.
 - R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and/or meet quality control standards. The presence or absence of the analyte cannot be verified.
5. Data Qualifier References:
 - OSWER 9240.1-05A-P, PB99-963506, EPA540/R-99/008, October 1999,
USEPA Contract Laboratory Program, National Functional Guidelines For Organic Data Review.
Office of Emergency and Remedial Response, USEPA, Washington, D.C.
 - OSWER 9240.1-35, EPA 540-R-01-008, July 2002,
USEPA Contract Laboratory Program, National Functional Guidelines For Inorganic Data Review.
Office of Emergency and Remedial Response, USEPA, Washington, D.C.
6. DUPLICATE from 10-28-02 is a field duplicate of the sample SSB-5B, 4.0-6.0 ft.
DUPLICATE from 10-27-02 is a field duplicate of the sample PB-15, 8.0-10.0 ft.
DUPLICATE from 10-23-02 is a field duplicate of the sample TM-1, 10.0-14.0 ft.
7. ND = Not Detected.
NA = Not Analyzed.
8. The Total TICs concentration presented on Table 1 is the sum of the concentrations reported by the laboratory for TICs identified as matching mass spectra of known compounds.

70014-054



QUADRANGLE LOCATION: ROCHESTER WEST, N.Y.



HALEY & ALDRICH

UNDERGROUND
ENGINEERING &
ENVIRONMENTAL
SOLUTIONS

DELPHI CORPORATION
LEXINGTON AVENUE FACILITY RI/FS
ROCHESTER, NEW YORK

PROJECT LOCUS

SCALE: 1" = 2000'

MAY 2002

FIGURE 1

ENVIRONMENT

APPENDIX A

Test Boring Reports

IDENTIFICATION AND DESCRIPTION OF SUBSURFACE MATERIALS

SOIL

Soil description on logs of subsurface explorations are based on Standard Penetration Test results, visual-manual examination of exposed soil and soil samples, and the results of laboratory tests on selected samples. The criteria, descriptive terms and definitions are as follows:

DENSITY OR CONSISTENCY

Density of Cohesionless Soils	Penetration Resistance (Blows per ft.)	Consistency of Cohesive Soils	Penetration Resistance (Blows per ft.)
Very Loose	0-4	Very Soft	0-2
Loose	5-10	Soft	3-4
Medium	11-30	Medium	5-8
Dense	31-50	Stiff	9-15
Very Dense	over 50	Very Stiff	16-30
		Hard	over 30

PENETRATION RESISTANCE

Standard Penetration Test (ASTM D-1586) - Number of blows required to drive a standard 2 in. O.D. split spoon sampler 1 ft. with a 140 lb. weight falling freely through 30 in.

COLOR: Basic colors and combinations: black, brown, gray, yellow-brown, etc.

SUPPLEMENTAL SOIL TERMINOLOGY:

Lamina	- 0 to 1/16 in. thick (cohesive)
Parting	- 0 to 1/16 in. thick (granular)
Seam	- 1/16 to 1/2 in. thick
Layer	- 1/2 to 12 in. thick
Stratum	- > 12 in. thick
Pocket	- Small, erratic deposit less than 12 in. size
Lens	- Lenticular deposit larger than a pocket
Occasional	- One or less per 12 in. of thickness
Frequent	- More than one per 12 in. of thickness
Interbedded	- Alternating soil layers of differing composition
Varved	- Alternating thin seams of silt and clay
Mottled	- Variation of color

GEOLOGIC INTERPRETATION

Deposit type - GLACIAL TILL, ALLUVIUM, FILL.....

The natural soils are identified by criteria of Unified Soil Classification System (USCS), with appropriate group symbol in parenthesis for each soil description. Fill materials may not be classified by USCS criteria.

U.S. Standard Series Sieve				Clear Square Sieve Openings			
12"	3"	3/4"	4	10	40	200	
Boulders	Cobbles	Gravel		Sand			Silts and Clays
		Coarse	Fine	Coarse	Medium	Fine	
305 mm	76 mm	19 mm	4.75 mm	2.00 mm	0.43 mm	0.074 mm	

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS			Group Symbol	Graphic Symbol	TYPICAL NAMES		
Coarse grained soils: more than half is larger than number 200 sieve	Gravels More than half of coarse fraction is larger than number 4 sieve	Gravels with little or no fines	GW		Well graded gravels, gravel-sand mixtures		
			GP		Poorly graded gravels, gravel-sand mixtures		
		Gravels with over 12% fines	GM		Silty gravels, poorly graded gravel-sand-silt mixtures		
			GC		Clayey gravels, poorly graded gravel-sand-clay mixtures		
	Sands More than half of coarse fraction is smaller than number 4 sieve	Sands with little or no fines	SW		Well graded sands, gravelly sands		
			SP		Poorly graded sands, gravelly sands		
Sands with over 12% fines		SM		Silty sands, poorly graded sand-silt mixtures			
		SC		Clayey sands, poorly graded sand-clay mixtures			
Fined-grained soils: more than half smaller than number 200 sieve	Silt and Clays Liquid limit 50% or less		ML		Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity		
			CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays		
			OL		Organic clays and organic silty clays of low plasticity		
	Silt and Clays Liquid limit greater than 50%		MH		Inorganic silty, micaceous or diatomaceous fine sandy or silty soils, elastic silts		
			CH		Inorganic clays of high plasticity, fat clays		
			OH		Organic clays of medium to high plasticity, organic silts		
			Highly organic soils		PT		Peat and other highly organic soils

GENERAL NOTES

- Logs of subsurface explorations depict soil, rock and groundwater conditions only at the locations specified on the dates indicated. Subsurface conditions may vary at other locations and at other times.
- Water levels noted on the logs were measured at the times and under the conditions indicated. During test borings, these water levels could have been affected by the introduction of water into the borehole, extraction of tools on other procedures and thus may not reflect actual groundwater level at the test boring location. Groundwater level fluctuations may also occur as a result of variations in precipitation, temperature, season, tides, adjacent construction activities and pumping of water supply wells and construction dewatering systems.

ROCK

Rock descriptions noted on logs of subsurface explorations are based on visual-manual examination of exposed rock outcrops and core samples. The criteria, descriptive terms and definitions used are as follows:

FIELD HARDNESS:

Very Hard	Cannot be scratched with a knife point or sharp pick.
Hard	Can be scratched with a knife point or sharp pick, only with difficulty.
Moderately Hard	Can be readily scratched with a knife point or pick.
Medium Hard	Can be grooved or gouged 1/16 in. deep with firm pressure on a knife point or sharp pick.
Soft	Can be grooved or gouged easily with a knife point or pick.
Very Soft	Can be corved with a knife and excavated with a pick point.

WEATHERING:

The action of organic and inorganic and chemical and physical processes resulting in alteration of color, texture and composition.

Weathering:

Fresh-FR	No visible sign of alteration, except perhaps slight discoloration on major discontinuity surfaces.
Slight-SL	Discoloration of rock material and discontinuity surfaces.
Moderate-MOD	Less than half the rock material decomposed to soil. Some fresh rock; continuous "framework".
High-HIGH	More than half the rock material decomposed and/or disintegrated to soil. Fresh rock corestones or discontinuous "framework".
Complete-COMP	All rock material disintegrated to soil, but mass still intact.
Residual Soil	All rock material converted to soil. Volume of mass changed, but material has not been significantly transported.

COLOR: Basic colors and combinations: gray, light gray, brown, red-brown.

TEXTURE: Size, shape and arrangements of constituents.

Aphanitic	Individual grains invisible.
Fine-grained	Grains barely visible to the unaided eye, up to 1/16 in. diameter.
Medium-grained	Grains between 1/16 and 3/16 in. diameter
Coarse-grained	Grains between 3/16 and 1/4 in. diameter
Very Coarse-grained	Grains larger than 1/4 in.

LITHOLOGY: Rock classification and modifiers; accepted formation names.

DISCONTINUITIES:

Type	Definition
Joint	A natural fracture along which no displacement has occurred. May occur in parallel groups called sets.
Shear	A natural fracture along which displacement has occurred. Surface may be slickensided or striated.
Fault	A natural fracture along which displacement has occurred. Usually lined with gouge and slickensides.
Shear or Fault Zone	Zone of fractured rock and gouge bordering the displacement plane.

ORIENTATION/ATTITUDE:

Term	Angle (degrees)
Horizontal	0-5
Low Angle	6-35
Moderately Dipping	36-55
High Angle	56-85
Vertical	86-100

SPACING:

Term	Inches
Extremely Close	< 3/4
Very Close	3/4 - 2-1/2
Close	2-1/2 - 8
Moderate	8 - 24
Wide	24 - 80
Very Wide	80 - 20 ft.
Extremely Wide	> 20 ft.

PERSISTENCE/CONTINUITY:

Term	Feet	Term	Size
Very Low	0-3	Pit	Barely visible - 1/4 in.
Low	3-10	Vug	1/4 - 2 in.
Medium	10-40	Cavity	2 in. - 2 ft.
High	40-80	Cave	> 2 ft.
Very High	> 80		

APERTURE/GAP:

Term	Inches
Very Tight	< 0.004
Tight	0.004 - 0.01
Partly Open	0.01 - 0.02
Open	0.02 - 0.1
Moderately Wide	0.1-0.4
Wide	> 0.4
Very Wide	0.4 - 4.0
Extremely Wide	4.0 - 40
Cavernous	> 40

BEDDING:

Term	Inches	Term
Very thin	< 2.5	Thick
Thin	2.5-8	Very thick
Medium	9-24	Massive



SUBSURFACE EXPLORATION KEY

UNIFIED SOIL CLASSIFICATION SYSTEM
ENGINEERING & ENVIRONMENTAL SOLUTIONS

NOT TO SCALE

TEST BORING REPORT

Boring No. DR-132

File No. 70014-054

Sheet No. 2 of 2

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
20	20 100/6	S10 7	20.0 21.0		491.0 21.0	ML	-WEATHERED BEDROCK- PID = ND ppm Split spoon refusal and bottom of Test Boring at 21.0 ft. Overdrilled with 10-1/4 in. augers & advanced augers to 22.0 ft. Drive temporary 12.0 in. casing to 22.0 ft. See Core Boring Report.										
25																	

<

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. DR-132

CORE BORING REPORT

Boring No. DR-132

File No. 70014-054

Sheet No. 1 of 1

Depth (ft)	Drilling Rate Min./ft	Run No.	Depth (ft)	Recovery/RQD		Weathering	Well Dia- gram	Elev./ Depth (ft)	Visual Description and Remarks
				in.	%				
35									SEE TEST BORING REPORT FOR OVERBURDEN DETAILS
40									Temporary 12" casing driven to 22.0 ft. Ream boring with 12" diameter roller bit to 46.0 ft. Lose approximately 1,200 gallons of water during rollerbit reaming from 22.0 to 46.0 ft.
45									
3		Run 1	46.0	64	89	SL		46.0	Begin Run 1 at 46.0 ft. Moderately hard, slightly weathered, gray, aphanitic, very thin bedded, dolomitic MUDSTONE with extremely close, moderately wide horizontal joints with occasional pits & vugs. Severe fracturing 47.0 to 47.9 ft.
3			52.0	9	13				
3									
3									
50									-ROCHESTER SHALE-
2									
3		Run 2	52.0	116	97	SL			Same, except close joint spacing with some secondary gypsum deposits and occasional slicken sides.
3			62.0	64	53				Note: No water lost during Run 2.
2									
55									-ROCHESTER SHALE-
2									
2									
3									
3									
3									
60									
3									
3									
4		Run 3	62.0	118	99	SL			Same, with more slicken sides along joints.
3			72.0	86	72				Note: lost approximately 30 gallons of water during Run 3.
3									
3									
65									ROCHESTER SHALE-
3									
3									
2									
3									
70									
3									
3									
4									
								72.0	Bottom of Boring at 72.0 ft.
									Notes: 1. Installed deep bedrock monitoring well DR-132 in completed borehole as open-rock interval from 62.0 - 72.0 ft. See Bedrock Observation Well Report.



TEST BORING REPORT

Boring No. R-302

Project LEXINGTON AVENUE FACILITY RI/FS INVESTIGATION ROCHESTER, NEW YORK
Client DELPHI CORPORATION
Contractor NOTHNAGLE DRILLING, INC.

File No. 70014-054
Sheet No. 1 of 1
Start December 16, 2002
Finish December 17, 2002
Driller S. Loranty
H&A Rep. S. Amrozowicz
Elevation 493.0
Datum NGVD
Location See Plan
N 52,606
E 57,673

		Casing	Sampler	Barrel	Drilling Equipment and Procedures		Finish		December 17, 2002											
Type		HSA	S	NX	Rig Make & Model: Truck CME-85		Driller		S. Loranty											
Inside Diameter (in.)		8"/4"	1-3/8	1-7/8	Bit Type: Roller Bit, Cutting Head		H&A Rep.		S. Amrozowicz											
Hammer Weight (lb.)		--	140	-	Drill Mud: None		Elevation		493.0											
Hammer Fall (in.)		--	30	-	Casing: 8" driven = 11', 4" driven=26'		Datum		NGVD											
					Hoist/Hammer: Safety Hammer		Location		See Plan											
							N 52,606													
							E 57,673													
Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description						Gravel		Sand		Field Test			
							(Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)						% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness
0							PAVEMENT & GRAVEL to 0.5 ft.													
	3	S1	0.5			SP-SM	(SP-SM), Loose, brown, poorly-graded SAND with silt and gravel (SP-SM), and gravel, mps 1.5 in., no structure, moist.	PID = ND ppm	10	15	15	25	25	10						
	5	10	2.0																	
	7				491.0															
	2	S2	2.0		2.0	SP-SM	-FILL- (SP- SM), Medium stiff, brown SILT (ML), with wood, no structure, moist.	PID = ND ppm				5	5	90		M	N			
	3	14	4.0																	
	3																			
	5																			
	1	S3	4.0			MH	(MH), Medium stiff, gray-brown, sandy elastic SILT (MH), organics, mps 1/4 in., no structure, moist.	PID = ND ppm			5	5	10	80		M	L			
5	2	15	6.0																	
	3																			
	3				486.9															
	4	S4	6.0		6.1	ML	(ML), Very stiff, mottled gray-brown, light-brown SILT (ML), homogeneous with blocky structure, occasionally layered, moist to dry, severely weathered bedrock (siltstone).	PID = ND ppm						100		H	N			
	9	17	8.0																	
	10																			
	11																			
	4	S5	8.0			ML	(ML), Same as above, dry.	PID = ND ppm						100		H	N			
	11	20	10.0																	
	13																			
	16																			
10	8	S6	10.0				Same, except gray.	PID = ND ppm						100		H	N			
	100/6	4	11.0		482.0		-WEATHERED BEDROCK-													
					11.0		Split spoon refusal and Bottom of Test Boring at Apparent TOR at 11.0 ft. Advanced augers to 11.0 ft.													
							Notes: See Core Boring Report.													
15																				

Water Level Data						Sample Identification		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O	Open End Rod		Riser Pipe	Overburden (lin. ft.) 11.0 Rock Cored (lin. ft.) 25.0 Samples 6S/3C	
			Bottom of Casing	Bottom of Hole	Water						T
						U	Undisturbed Sample		Filter Sand		
						S	Split Spoon		Cuttings		
						G	Geoprobe		Grout		
									Concrete		
									Bentonite Seal	Boring No. R-302	
Field Tests:			Dilatancy: R-Rapid, S-Slow, N-None			Plasticity: N-Nonplastic, L-Low, M-Medium, H-High					
			Toughness: L-Low, M-Medium, H-High			Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High					
¹ SPT = Sampler blows per 6 in.			² Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).								
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.											

USCS: TBAPID USCILB4.GLB USCSTC3A.GDT G:\PROJECTS\70014\054\TESTBORE.GPJ Feb 7, 03

CORE BORING REPORT

Boring No. R-302

File No. 70014-054

Sheet No. 1 of 1

Depth (ft)	Drilling Rate Min./ft	Run No.	Depth (ft)	Recovery/RQD		Weath- ering	Well Dia- gram	Elev./ Depth (ft)	Visual Description and Remarks
				in.	%				
0									SEE TEST BORING REPORT FOR OVERBURDEN DETAILS
5									8 in. temporary casing driven to top of rock at 11.0 ft. Began coring at 11.0 ft.
10									
3		Run 1	11.0	120	100	SL		11.0	Moderately hard, slightly weathered gray, aphanitic, very thin bedded, dolomitic MUDSTONE with extremely close, moderately wide horizontal & low angle fractures with some vertical fractures. Infrequent clay partings evident in some seams, trace pits or vugs.
3			21.0	4	3				
3									
3									
15									Severely fractured throughout run.
2									
2									
2									
3									
3									
20									Note: No water lost during Run 1.
3									
3		Run 2	21.0	60	100	SL			Same as above.
3			26.0	16	27				
3									
3									
25									Note: Lost approximately 5 gallons of water during Run 2.
4									
3		Run 3	26.0	116	97	SL			Same, except close joint spacings, 1/4-in. thick mud seam at 33.0 ft.
3			36.0	48	40				
3									
3									
2									
30									
3									
3									
3									
3									Note: Approximately 15 gallons of water lost in Run 3.
3									
35									
3									
								36.0	Bottom of Boring at 36.0 ft.
									Notes:
40									1. Installed intermediate bedrock monitoring well R-302 in completed borehole as open-rock interval from 26.0 - 36.0 ft. See Bedrock Observation Well Installation Report.

CORE BORING REPORT

Boring No. R-305
File No. 70014-054
Sheet No. 1 of 1

Depth (ft)	Drilling Rate Min./ft	Run No.	Depth (ft)	Recovery/RQD		Weath- ering	Well Dia- gram	Elev./ Depth (ft)	Visual Description and Remarks	
				in.	%					
0									SEE TEST BORING REPORT FOR OVERBURDEN DETAILS	
									Drove temporary 8" HSA casing to 3.5 ft. Begin coring at 3.5 ft.	
	3	Run 1	3.5	116	97	Slight	NO WELL INSTALLED	3.5	Moderately hard, slightly weathered, gray, aphanitic, very thinly bedded dolomitic MUDSTONE, with moderately wide, very close horizontal and frequent low angle joint. Trace vertical joints and severe fracturing from 3.5 to 10.0 ft. Some pits and vugs and some mud seams in joints.	
5	3		13.5	14	12					
	3									
	3									
	3									
	3									
10	3									
	3									Note: Lost 25 gallons of water in Run 1.
	3									
	3									
	3	Run 2	13.5	59	98	Slight				Same as above, except close horizontal joints with occasional vugs.
15	3		18.5	33	55					
	3									
	3									
	3									
	3									
	3	Run 3	18.5	113	94	Slight				Same as above. Frequent secondary filled gypsum deposits throughout run, most evident in joints.
20	4		28.5	37	31					
	4									
	4									
	4									
	3									
25	4									Note: Lost approximately 400 gallons of water in Run 3.
	3									-ROCHESTER SHALE-
	4									
	4									
	4									
									28.5	Bottom of Boring at 28.5 ft.
30										NOTES: 1. Installed intermediate-bedrock monitoring well R-305 in completed borehole as open-rock interval from 18.5 ft. to 28.5 ft. See Bedrock Observation Well Installation Report.

TEST BORING REPORT

Boring No. R-306

Project LEXINGTON AVENUE FACILITY R/FS INVESTIGATION ROCHESTER, NEW YORK
 Client DELPHI CORPORATION
 Contractor NOTHNAGLE DRILLING, INC.

File No. 70014-054
 Sheet No. 1 of 1
 Start December 12, 2002
 Finish December 13, 2002
 Driller S. Loranty
 H&A Rep. S. Amrozowicz

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	HSA	S	NX	Rig Make & Model: Truck, CME 85
Inside Diameter (in.)	--	1-3/8	1-7/8	Bit Type: Roller Bit, Cutting Head
Hammer Weight (lb.)	--	140	-	Drill Mud: None
Hammer Fall (in.)	--	30	-	Casing: HSA
				Hoist/Hammer: Safety Hammer

Elevation 513.6
 Datum NGVD
 Location See Plan
 N 50,047
 E 58,747

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0	3 3 7 9	S1 16	0.0 2.0			SW-SM	(SW-SM), Loose, brown, well-graded SAND with silt (SW-SM), mps 1 in., no structure, moist to wet, some organics.		10	30	20	30	10	R				
	3 7 2 8	S2 21	2.0 4.0			SW-SM	(SW-SM), Same, except well-graded SAND with silt and gravel, some brick, mps 1.5 in., angular broken rock pieces, moist. -FILL-	PID = ND ppm	5	10	30	10	35	10				
	2 2 3 6	S3 16	4.0 6.0		509.5 4.1	CL	(CL), Medium stiff, yellow-brown, sandy lean CLAY (CL), mps 0.5 in., no structure, moist. Same to 7.2 ft. -GLACIAL TILL-	PID = ND ppm			5	25	20	50	R	L	L	
	7 8 36 26	S4 18	6.0 8.0		506.4 7.2	ML	(ML), Hard, tan SILT (ML), homogeneous and blocky, dry. -WEATHERED SILTSTONE BEDROCK-	PID = ND ppm						100	H	N	H	
					504.6 9.0		Note: Advance augers to apparent top of rock at 9.0 ft. Drove temporary 8 in. casing to 9.0 ft. See Core Report.											
10																		

Water Level Data						Sample Identification		Well Diagram		Summary		
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O	Open End Rod		Riser Pipe	Overburden (lin. ft.) 9.0	Rock Cored (lin. ft.) 25.0	
			Bottom of Casing	Bottom of Hole	Water							T
						U	Undisturbed Sample		Filter Sand			
						S	Split Spoon					Cuttings
						G	Geoprobe					Grout
										Concrete	Boring No. R-306	
									Bentonite Seal			
Field Tests:		Dilatancy: R-Rapid, S-Slow, N-None				Plasticity: N-Nonplastic, L-Low, M-Medium, H-High						
		Toughness: L-Low, M-Medium, H-High				Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High						
¹ SPT = Sampler blows per 6 in. ² Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).												
Note: Soil Identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.												

CORE BORING REPORT

Boring No. R-306

File No. 70014-054

Sheet No. 1 of 1

Depth (ft)	Drilling Rate Min./ft	Run No.	Depth (ft)	Recovery/RQD		Weath- ering	Well Dia- gram	Elev./ Depth (ft)	Visual Description and Remarks
				in.	%				
0									SEE TEST BORING REPORT FOR OVERBURDEN DETAILS
5									
10	3	Run 1	9.0 19.0	112 45	93 38	SL		9.0	Drove 8 in. temporary casing to top of rock at 9.0 ft. Begin coring at 9.0 ft. Moderately hard, slightly weathered, gray, alphanitic, very thin bedded, dolomitic MUDSTONE with extremely close moderately wide horizontal joint with some pits & vugs. Occasional high angle fractures in severely fractured intervals. Severely fractured from 9.0-9.9 ft., 11.5-11.9 ft., 17.3-17.7 ft.
15	3								
20	3	Run 2	19.0 24.0	60 52	100 87	SL			Note: No water lost during Run 1. Same, except wider joint spacing and some gypsum partings in joint seams.
25	3								
30	3	Run 3	24.0 34.0	114 50	95 42	SL			Note: Lost 8 gallons of water on Run 2. Same, except very close joint spacing, trace pits & vugs, and occasional mud seams in fractures.
35	3							34.0	Bottom of Boring at 34.0 ft. NOTE: 1. Installed intermediate-bedrock monitoring well R-306 in completed borhole as open-rock interval from 24.0 ft. to 34.0 ft. See Bedrock Observation Well Installation Report.

TEST BORING REPORT

Boring No. SR-326

Project LEXINGTON AVENUE FACILITY RI/FS INVESTIGATION ROCHESTER, NEW YORK
 Client DELPHI CORPORATION
 Contractor NOTHNAGLE DRILLING, INC.

File No. 70014-054
 Sheet No. 1 of 1
 Start December 24, 2002
 Finish December 27, 2002
 Driller S. Loranty

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	HSA	--	--	Rig Make & Model: Gus Peck Mite-E-Mite
Inside Diameter (in.)	4-1/4	--	--	Bit Type: Roller Bit, Cutting Head
Hammer Weight (lb.)	--	--	--	Drill Mud: None
Hammer Fall (in.)	--	--	--	Casing: HSA
				Hoist/Hammer: Cat-Head Doughnut Hammer

H&A Rep. D. Nostrant

Elevation 516.9

Datum NGVD

Location 15'N & 15'E of
Column J-35

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test							
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0																			
							Augered 4-1/4 inch HSA without sampling to 17.5 ft. Advance temporary HSA casing to 18.0 ft. Tri-cone rollerbit 3-7/8-inch bit in bedrock from 17.5 to 27.5 ft. Install Overburden Well SR-326 in completed borehole. See Observation Well Installation Report.												
5																			
10																			
15																			

NO WELL INSTALLED

Water Level Data						Sample Identification		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O	T	U	S	G	Overburden (lin. ft.) 17.5
			Bottom of Casing	Bottom of Hole	Water						
											Rock Cored (lin. ft.) --
											Samples --
											Boring No. SR-326
Field Tests:						Dilatancy: R-Rapid, S-Slow, N-None					
						Toughness: L-Low, M-Medium, H-High					
						Plasticity: N-Nonplastic, L-Low, M-Medium, H-High					
						Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High					

¹SPT = Sampler blows per 6 in.

²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT

Boring No. DGRB-6

Project LEXINGTON AVENUE FACILITY R/F/S INVESTIGATION ROCHESTER, NEW YORK
 Client DELPHI CORPORATION
 Contractor NOTHNAGLE DRILLING, INC.

File No. 70014-054
 Sheet No. 1 of 1
 Start December 26, 2002
 Finish December 26, 2002

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	G	--	Rig Make & Model: Skid Diedrich D-25
Inside Diameter (in.)	--	2.0	--	Bit Type:
Hammer Weight (lb.)	--	--	--	Drill Mud: None
Hammer Fall (in.)	--	--	--	Casing:
				Hoist/Hammer: Automatic Hammer

Driller J. Stockholm
 H&A Rep. S. Amrozowicz

Elevation 516.9
 Datum NGVD

Location 15'S & 4'E of
 Column L-17

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0				NO WELL INSTALLED	516.0		CONCRETE												
	NA	G1 41	0.9 4.9		0.9	CL	(CL), Brown-gray lean CLAY (CL), blocky structure, slightly stratified, moist. -REWORKED CLAY FILL-	PID = 2.0 ppm PID = 20 ppm PID = 5 ppm PID = 6 ppm			5	5		90		M	L		
5	NA	G2 48	4.9 8.9			CL	(CL), Same. -FILL-	PID = 15 ppm PID = 8 ppm			5	5		90		M	L		
					510.0	ML	(ML), Red-brown sandy SILT (ML), small amount of clay present, mps. 1/4 in., blocky structure, moist silt increasing with depth. -LACUSTRINE-	PID = 3 ppm PID = 1 ppm			5	5	5	35	50				
	NA	G3 35	8.9 11.8				Same, with increasing clay with depth, gravel in pockets, mps 2-1/4", no structure, moist.	PID = 11 ppm	5	5		5	20	65		M	L		
10					506.1														
					10.8	ML	(ML), Tan SILT (ML). -WEATHERED BEDROCK-												
					505.1		Probe refusal and Bottom of Boring at 11.8 ft.												
					11.8														
15																			

NO WELL INSTALLED

Water Level Data						Sample Identification		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O	Open End Rod		Riser Pipe	Overburden (lin. ft.) 11.8 Rock Cored (lin. ft.) -- Samples 3G Boring No. DGRB-6	
			Bottom of Casing	Bottom of Hole	Water	T	Thin Wall Tube		Screen		
						U	Undisturbed Sample		Filter Sand		
						S	Split Spoon		Cuttings		
						G	Geoprobe		Grout		
									Concrete		
									Bentonite Seal		

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
 Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil Identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT

Boring No. DGRB-7

Project LEXINGTON AVENUE FACILITY RI/FS INVESTIGATION ROCHESTER, NEW YORK
 Client DELPHI CORPORATION
 Contractor NOTHNAGLE DRILLING, INC.

File No. 70014-054
 Sheet No. 1 of 1
 Start October 26, 2002
 Finish October 26, 2002
 Driller J. Stockholm
 H&A Rep. S. Amrozowicz

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	G	--	Rig Make & Model: Skid Diedrich D-25
Inside Diameter (in.)	--	2.0	--	Bit Type:
Hammer Weight (lb.)	--	--	--	Drill Mud: None
Hammer Fall (in.)	--	--	--	Casing:
				Hoist/Hammer: Automatic Hammer

Elevation 516.9
 Datum NGVD
 Location 4'S & 7'E of Column C 23

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0				NO WELL INSTALLED	516.0		CONCRETE											
	NA	G1 30	0.9 4.9		0.9	SM	(SM), Red-brown silty SAND (SM), staining at 0.9 to 1.2 ft., no structure, moist. -FILL-	PID = 2.1 ppm			10	10	50	30				
								PID = 3.0 ppm										
								PID = 10 ppm										
5	NA	G2 44	4.9 8.9		512.0 4.9	CL	(CL), Mottled, brown-red-yellow, sandy lean CLAY (CL), mps 0.5 in., slight petroleum odor, wet at 6.0-7.0 ft. with some gray staining, remainder of soil is moist. -FILL-	PID = 19 ppm	5			30	75					
								PID = 19 ppm										
								PID = 91 ppm										
								PID = 39 ppm										
	NA	G3 37	8.9 12.9		508.0 8.9	CL	(CL), Mottled brown-red-yellow sandy lean CLAY with gravel (CL), mps 0.5 in., moist to wet, petroleum odor at 10.0-11.0 ft., slight sheen. -GLACIOLACUSTRINE-	PID = 21 ppm	10	5	5	30	50	S		L		
								PID = 80 ppm										
	NA	G4 15	12.9 14.2	502.7 14.2	CL	(CL), Brown, sandy lean CLAY (CL) mps 1 in., no structure, petroleum sheen and odor, moist.	PID = 121 ppm PID = 22 ppm	5	10		25	60	S		L	L		
							PID = 46 ppm											
15							Probe refusal Bottom of Boring at 14.2 ft.											

Water Level Data						Sample Identification		Well Diagram			Summary				
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O Open End Rod	T Thin Wall Tube	U Undisturbed Sample	S Split Spoon	G Geoprobe	 Riser Pipe	 Screen	Overburden (lin. ft.) 14.2		
			Bottom of Casing	Bottom of Hole	Water									 Filter Sand	 Cuttings
													Samples 4G		
Field Tests:						Dilatancy: R-Rapid, S-Slow, N-None			Plasticity: N-Nonplastic, L-Low, M-Medium, H-High			Boring No. DGRB-7			
						Toughness: L-Low, M-Medium, H-High			Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High						
1 SPT = Sampler blows per 6 in.						2 Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).									
Note: Soil Identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.															

TEST BORING REPORT

Boring No. PB-34

Project LEXINGTON AVENUE FACILITY R/FS INVESTIGATION ROCHESTER, NEW YORK
 Client DELPHI CORPORATION
 Contractor NOTHNAGLE DRILLING, INC.

File No. 70014-054
 Sheet No. 1 of 1
 Start December 23, 2002
 Finish December 23, 2002

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	G	--	Rig Make & Model: Skid Diedrich D-25
Inside Diameter (in.)	--	2.0	--	Bit Type:
Hammer Weight (lb.)	--	--	--	Drill Mud: None
Hammer Fall (in.)	--	--	--	Casing:
				Hoist/Hammer: Automatic Hammer

Driller J. Stockholm
 H&A Rep. S. Amrozowicz
 Elevation 516.9
 Datum NGVD
 Location 16°N & 3°E of
 Column LL-15.

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel						Sand		Field Test			
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0				NO WELL INSTALLED	516.1		CONCRETE												
	NA	G1 13	0.8 4.8		0.8	SM	(SM), Mottled gray-brown silty SAND with gravel (SM), mps 2", no structure, moist, odor immediately below concrete at 0.9 ft.	PID = ND ppm	30	10	20	20		20					
								PID = ND ppm											
5	NA	G2 27	4.8 8.8		511.1		(MH), Brown, sandy elastic SILT, (MH), mps 0.25 inches, no structure, moist, wet at 8.4 ft., possible reworked glacial till.	PID = ND ppm		5	20	20	5	50	N	L	L		
					5.8	MH	-FILL-	PID = ND ppm											
							Same to 10.6 ft.	PID = ND ppm											
10	NA	G3 13	8.8 11.2		506.3			PID = ND ppm											
					10.6	SP	(SP), Black-stained, well-graded SAND (SP), petroleum odor and product noticeable, wet.			60	40								
					506.1	CL	(CL), Black-stained lean CLAY (CL), homogeneous, petroleum odor, wet.				10			90	N	L	M		
					10.8														
				505.7		-LACUSTRINE-													
				11.2		Probe Refusal and Bottom of Boring at 11.2 ft.													
15																			

Water Level Data						Sample Identification		Well Diagram		Summary		
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O	Open End Rod		Riser Pipe	Overburden (lin. ft.) 11.2	Rock Cored (lin. ft.) --	Samples 3G
			Bottom of Casing	Bottom of Hole	Water							
						U	Undisturbed Sample		Filter Sand			
						S	Split Spoon		Cuttings			
						G	Geoprobe		Grout			
									Concrete			
									Bentonite Seal	Boring No. PB-34		
Field Tests:			Dilatancy: R-Rapid, S-Slow, N-None				Plasticity: N-Nonplastic, L-Low, M-Medium, H-High					
			Toughness: L-Low, M-Medium, H-High				Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High					
¹ SPT = Sampler blows per 6 in.			² Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).									
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.												

USCS TB3APID USC SLIB4 GLB USCSTC3A.GDT G:\PROJECTS\70014\054\TESTBORE.GPJ Feb 7, 03

TEST BORING REPORT

Boring No. STB-37

Project LEXINGTON AVENUE FACILITY RI/FS INVESTIGATION ROCHESTER, NEW YORK
 Client DELPHI CORPORATION
 Contractor NOTHNAGLE DRILLING, INC.

File No. 70014-054
 Sheet No. 1 of 1
 Start December 23, 2002
 Finish December 23, 2002

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	G	--	Rig Make & Model: Gus Peck Mite-E-Mite
Inside Diameter (in.)		2.0	--	Bit Type: Cutting Head
Hammer Weight (lb.)	--	140	-	Drill Mud: None
Hammer Fall (in.)	--	30	-	Casing:
				Hoist/Hammer: Winch Safety Hammer

Driller S. Loranty
 H&A Rep. D. Nostrant

Elevation 516.8
 Datum NGVD

Location 8'N & 15'W of
 Column T-37

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	PID	Gravel		Sand			Field Test								
									% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength				
0				NO WELL INSTALLED	516.3		-CONCRETE-															
	9	S1	0.5		ML	0.5	(ML), Medium dense, brown SILT with sand (ML), mps 10mm, solvent like odor, damp to dry.	PID = 450 ppm	--	5	5	5	10	75								
	11	17/18	2.0				-FILL-															
	9	S2	2.0		Same			PID = 178 ppm														
	13	14/24	4.0				-FILL-															
	13				ML	512.1	(ML), Medium dense, gray-brown, sandy SILT (ML), mps 8 mm, solvent like odor, damp to dry.	PID = 436 ppm	5	5	10	5	10	65								
	17						4.7	-GLACIAL TILL-														
	4	S3	4.0		Same			PID = 254 ppm														
	6	17/24	6.0																			
5	9				Same except damp, observed stone lodged in shoe of split spoon.			PID = 309 ppm														
	8	S4	6.0			ML		(ML), Same	PID = 2025 ppm	5	5	5	5	20	60							
	6	13/24	8.0																			
	8				Same			PID = NA ppm														
	7																					
	6	S5	8.0		SM	502.8	(SM), Loose, gray-brown, silty SAND (SM), mps 2mm, solvent odor, moist to wet, suspected free-phase product observed.	PID = 1300 ppm	--	--	5	10	60	25								
	5	10/24	10.0				14.0	-GLACIAL TILL-														
10	9	S6	10.0		SM		(SM), Dense, brown, SILT with sand (SM), mps 3mm, solvent odor, damp to dry.	PID = NA ppm	--	--	5	5	15	75								
	4	16/24	12.0					-WEATHERED BEDROCK-														
	6																					
	6	S7	12.0																			
	5	13/24	14.0																			
	6																					
	1	S8	14.0																			
	2	14/24	16.0																			
	3																					
	3	S9	16.0																			
	9	16/24	18.0																			
	16																					
	25																					
	43																					
NOTES: 1) Installed Overburden Well OW-327 in completed borehole. See Observation Well Installation Well Report.																						

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:		
			Bottom of Casing	Bottom of Hole	Water

Sample Identification

O Open End Rod
 T Thin Wall Tube
 U Undisturbed Sample
 S Split Spoon
 G Geoprobe

Well Diagram

Riser Pipe
 Screen
 Filter Sand
 Cuttings
 Grout
 Concrete
 Bentonite Seal

Summary

Overburden (lin. ft.) 18.0
 Rock Cored (lin. ft.) --
 Samples 9S

Boring No. STB-37

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
 Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.



TEST BORING REPORT

Boring No. STB-38

Project LEXINGTON AVENUE FACILITY RI/FS INVESTIGATION ROCHESTER, NEW YORK
Client DELPHI CORPORATION
Contractor NOTHNAGLE DRILLING, INC.

File No. 70014-054
Sheet No. 1 of 1
Start December 26, 2002
Finish December 26, 2002
Driller J. Stockholm
H&A Rep. S. Amrozowicz

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	G	--	Rig Make & Model: Skid Diedrich D-25
Inside Diameter (in.)	--	2.0	--	Bit Type:
Hammer Weight (lb.)	--	--	-	Drill Mud: None
Hammer Fall (in.)	--	--	-	Casing:
				Hoist/Hammer: Automatic Hammer

Elevation 516.9
Datum NGVD
Location 11'E of Column
YA-34

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel						Sand			Field Test			
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength			
0				NO WELL INSTALLED	516.0		Wooden brick and concrete slab.													
	NA	G1 44	0.9 4.9		0.9	SW	(SW), Mottled, red-red-brown, well-graded SAND (SW), mps 1/2 in., no structure, musty odor, moist to dry. -FILL-	PID = ND ppm PID = 5 ppm PID = 2 ppm PID = 5 ppm			15	15	65	5						
						SP	(SP), Same to 6.5 ft.	PID = 7 ppm PID = 6 ppm												
5	NA	G2 48	4.9 8.9		510.4 6.5	ML	(ML), Dark brown SILT with sand (ML), mps 2 in., angular pieces, no structure, moist. Pockets of sand ~0.3 ft. thick with strong solvent odor. Same, except sandy SILT with gravel (ML).	PID = 50 ppm PID = 1200 ppm PID = 810 ppm PID = 686 ppm PID = 730 ppm		10	5	5	80		M	N				
	NA	G3 40	8.9 12.9						10	5	5	20	60		R	L				
10					505.4 11.5	ML/CL	(ML/CL), Gray, gravelly SILT (ML) and CLAY (CL), mps 0.5 in., no structure, petroleum product and odor, moist to wet. -GLACIOLACUSTRINE-		5	10	15	10	60		S	L	L			
					503.4 13.5		Probe refusal and Bottom of Boring at 13.5 ft.													
15																				

Water Level Data					Sample Identification		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O Open End Rod		Riser Pipe	Overburden (lin. ft.) 13.5	
			Bottom of Casing	Bottom of Hole	Water					
						U Undisturbed Sample	 <th>Filter Sand</th> <th>Samples 3G</th> <td></td>	Filter Sand	Samples 3G	
						S Split Spoon	 <th>Cuttings</th> <td></td> <td></td>	Cuttings		
						G Geoprobe	 <th>Grout</th> <td></td> <td></td>	Grout		
							 <th>Concrete</th> <td></td> <td></td>	Concrete		
							 <th>Bentonite Seal</th> <td></td> <td></td>	Bentonite Seal		
Field Tests:			Dilatancy: R-Rapid, S-Slow, N-None			Plasticity: N-Nonplastic, L-Low, M-Medium, H-High				
			Toughness: L-Low, M-Medium, H-High			Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High				
¹ SPT = Sampler blows per 6 in.			² Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).							
Note: Soil Identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.										

TEST BORING REPORT

Boring No. STB-39

Project LEXINGTON AVENUE FACILITY RI/FS INVESTIGATION ROCHESTER, NEW YORK
 Client DELPHI CORPORATION
 Contractor NOTHNAGLE DRILLING, INC.

File No. 70014-054
 Sheet No. 1 of 1
 Start December 23, 2002
 Finish December 23, 2002
 Driller J. Stockholm
 H&A Rep. S. Amrozowicz

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	G	--	Rig Make & Model: Skid Diedrich D-25
Inside Diameter (in.)	--	2.0	--	Bit Type:
Hammer Weight (lb.)	--	--	--	Drill Mud: None
Hammer Fall (in.)	--	--	--	Casing:
				Hoist/Hammer:

Elevation 516.9
 Datum NGVD
 Location 20'S & 4'W of
 Column B-33

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse % Fine	Sand % Coarse % Medium % Fine	Field Test % Fines Dilatancy Toughness Plasticity Strength
0					516.0		-CONCRETE-			
	NA	G1 20	0.9 4.9		0.9	SW	(SW), Brown-red, well-graded SAND with gravel (SW), mps 1.5, no structure, strong solvent odor, moist.	PID = 121 ppm PID = 1201 ppm PID = 355 ppm		
5	NA	G2 43	4.9 8.9			SW	(SW), Same as above except well-graded SAND (SW), with ash/coal layer from 8.4 ft. - 8.5 ft., same strong odor, moist.	PID = 900 ppm PID = 1250 ppm PID = 719 ppm		
10	NA	G3 19	8.9 12.9			SW	(SW), Same, except well-graded SAND with gravel (SW), with some product odor and staining at 12.0 ft. - 12.9 ft.	PID = 340 ppm PID = 710 ppm PID = 68 ppm PID = 103 ppm PID = 82 ppm		
					504.9		-FILL-			
	NA	G4 38	12.9 15.9		12.0	SC	(SC), Brown-red, clayey SAND (SC), mps 0.25 in., black staining with odor, wet, with some seashells. -LACUSTRINE-			
15					501.3		-WEATHERED SILTSTONE BEDROCK-			
					15.6	ML	(ML), Tan SILT (ML), homogenous and fissile, no staining, dry.			
					501.0		Probe Refusal and Bottom of Boring at 15.9 ft.			
					15.9					

Notes:

1) Installed 1-in. diameter PVC miniwell OW-328 in completed borehole, with 10 ft. screen from 5.5 ft. - 15.5 ft. See Observation Well Installation Report.

Water Level Data						Sample Identification		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O Open End Rod		Riser Pipe	Screen	Overburden (lin. ft.) 15.9	Rock Cored (lin. ft.) --
			Bottom of Casing	Bottom of Hole	Water						
						T Thin Wall Tube <td><td>Cuttings<td>Grout<td></td><td></td></td></td></td>	 <td>Cuttings<td>Grout<td></td><td></td></td></td>	Cuttings <td>Grout<td></td><td></td></td>	Grout <td></td> <td></td>		
						S Split Spoon <td><td>Grout<td>Concrete<td></td><td></td></td></td></td>	 <td>Grout<td>Concrete<td></td><td></td></td></td>	Grout <td>Concrete<td></td><td></td></td>	Concrete <td></td> <td></td>		
						G Geoprobe <td><td>Concrete<td>Bentonite Seal<td>Boring No.</td><td>STB-39</td></td></td></td>	 <td>Concrete<td>Bentonite Seal<td>Boring No.</td><td>STB-39</td></td></td>	Concrete <td>Bentonite Seal<td>Boring No.</td><td>STB-39</td></td>	Bentonite Seal <td>Boring No.</td> <td>STB-39</td>	Boring No.	STB-39
Field Tests:			Dilatancy: R-Rapid, S-Slow, N-None			Plasticity: N-Nonplastic, L-Low, M-Medium, H-High					
			Toughness: L-Low, M-Medium, H-High			Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High					
¹ SPT = Sampler blows per 6 in.			² Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).								
Note: Soil Identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.											

TEST BORING REPORT

Boring No. STB-40

Project LEXINGTON AVENUE FACILITY RI/FS INVESTIGATION ROCHESTER, NEW YORK
 Client DELPHI CORPORATION
 Contractor NOTHNAGLE DRILLING, INC.

File No. 70014-054
 Sheet No. 1 of 1
 Start December 24, 2002
 Finish December 24, 2002

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	G	--	Rig Make & Model: Skid Diedrich D-25
Inside Diameter (in.)	--	2.0	--	Bit Type:
Hammer Weight (lb.)	--	--	--	Drill Mud: None
Hammer Fall (in.)	--	--	--	Casing:
				Hoist/Hammer: Automatic Hammer

Driller J. Stockholm
 H&A Rep. S. Amrozowicz

Elevation 516.9
 Datum NGVD

Location 4'S & 4'W of
 Column B-21

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel Sand Field Test									
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0					516.1		Aprox floor and concrete to 0.8 ft.										
	NA	G1 28	0.8 4.8		0.8	SP	(SP), Red-brown, poorly-graded SAND with gravel (SP), mps 2 in., no structure, strong solvent odor, moist. -FILL- PID = 1100 ppm PID = 1650 ppm PID = 1410 ppm	15	10	10	65						
5	NA	G2 36	4.8 8.8		509.8	SW	(SW), Red-brown, well-graded SAND (SW), mps 2.0 in., no structure, moist to wet at 7.1 ft., strong odor. -FILL- PID = 270 ppm	5	10	5	80						
					7.1	CL	(CL), Mottled, gray-red lean CLAY with sand (CL), slight product sheen, solvent odor, slightly striated structure, moist. -LACUSTRINE- PID = 217 ppm PID = 45 ppm PID = 59 ppm PID = 61 ppm PID = 212 ppm PID = 495 ppm			5	10	10	75	S	M	L	
10	NA	G3 48	8.8 12.8		505.2	ML	(ML), Tan-brown SILT (ML), homogeneous, fissile structure, solvent odor, dry to moist. -WEATHERED SILTSTONE BEDROCK- Probe refusal and Bottom of Boring at 12.8 ft.					100	N	M	N		
					11.7												
					504.1												
					12.8												
15																	

NO WELL INSTALLED

Notes:
 1) Installed temporary 1" PVC mini well screened from 1'-8.5' in completed borehole. Attempted sampling, no yield, later abandoned.

Water Level Data						Sample Identification		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O	Open End Rod		Riser Pipe	Overburden (lin. ft.)	12.8
			Bottom of Casing	Bottom of Hole	Water						
						U	Undisturbed Sample		Filter Sand	Samples	3G
						S	Split Spoon		Cuttings	Boring No.	STB-40
						G	Geoprobe		Grout		
									Concrete		
									Bentonite Seal		
Field Tests:			Dilatancy: R-Rapid, S-Slow, N-None				Plasticity: N-Nonplastic, L-Low, M-Medium, H-High				
			Toughness: L-Low, M-Medium, H-High				Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High				
SPT = Sampler blows per 6 in.			Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).								
Note: Soil Identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.											

TEST BORING REPORT

Boring No. STB-41

Project LEXINGTON AVENUE FACILITY RI/FS INVESTIGATION ROCHESTER, NEW YORK
 Client DELPHI CORPORATION
 Contractor NOTHNAGLE DRILLING, INC.

File No. 70014-054
 Sheet No. 1 of 1
 Start December 24, 2002
 Finish December 24, 2002
 Driller J. Stockholm
 H&A Rep. S. Amrozowicz

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	G	--	Rig Make & Model: Skid Diedrich D-25
Inside Diameter (in.)	--	2.0	--	Bit Type:
Hammer Weight (lb.)	--	--	--	Drill Mud: None
Hammer Fall (in.)	--	--	--	Casing:
				Hoist/Hammer: Automatic Hammer

Elevation 516.9
 Datum NGVD
 Location 8'S and 8'E of
 Column C-11

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0				NO WELL INSTALLED	516.1		Wooden brick and concrete to 0.8 ft.											
	NA	G1 32	0.8 4.8		0.8	SW	(SW), Red-brown, well-graded SAND with gravel (SW), mps 1.75 in., no structure, dry, slight solvent odor, moist. -FILL-	PID = 9.0 ppm PID = 13 ppm PID = 12 ppm	10	5	5	10	70					
					512.9													
					4.0	SM	(SM), Brown silty SAND (SM), mps 0.5 in., moist. -GLACIAL TILL-		5	10	5	40	40					
5	NA	G2 31	4.8 7.0					PID = 14 ppm PID = 8 ppm										
					510.3													
					6.6	ML	(ML), Tan SILT (ML), homogeneous, fissile structure, dry. -WEATHERED BEDROCK-	PID = 8 ppm					100					
					509.9		Probe refusal and Bottom of Boring at 7.0 ft.											
					7.0													
10																		

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:		Water
			Bottom of Casing	Bottom of Hole	

Sample Identification

O Open End Rod
 T Thin Wall Tube
 U Undisturbed Sample
 S Split Spoon
 G Geoprobe

Well Diagram

Riser Pipe
 Screen
 Filter Sand
 Cuttings
 Grout
 Concrete
 Bentonite Seal

Summary

Overburden (lin. ft.) 7.0
 Rock Cored (lin. ft.) --
 Samples 2G

Boring No. STB-41

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
 Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High
¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT

Boring No. TM-1

Project LEXINGTON AVENUE FACILITY RI/FS INVESTIGATION ROCHESTER, NEW YORK
 Client DELPHI CORPORATION
 Contractor NOTHNAGLE DRILLING, INC.

File No. 70014-054
 Sheet No. 1 of 1
 Start December 23, 2002
 Finish December 23, 2002
 Driller J. Stockholm
 H&A Rep. S. Amrozowicz

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	G	--	Rig Make & Model: Skid Diedrich D-25
Inside Diameter (in.)	--	2.0	--	Bit Type:
Hammer Weight (lb.)	--	--	--	Drill Mud: None
Hammer Fall (in.)	--	--	--	Casing:
				Hoist/Hammer: Automatic Hammer

Elevation 516.9
 Datum NGVD
 Location 4'S & 2'W of
 Column JJ-33

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0				NO WELL INSTALLED			CONCRETE											
	NA	G1 39	2.0 6.0		515.1 1.8	ML	(ML), Brown, sandy SILT with gravel (ML), mps 1.25 in., no structure, moist	PID = ND ppm	15	5	5	10	10	55	R	L	L	
					513.8 3.1	ML	~~-FILL-~~ (ML), Brown SILT with varying amounts of sand (ML), small amount of clay, mps 0.10 in., homogeneous, slightly striated, moist.	PID = ND ppm		5	5		10	80	R	L	L	
								PID = ND ppm										
5								PID = ND ppm										
	NA	G2 37	6.0 10.0			CL- ML	(CL- ML), Brown, sandy SILT (ML) and CLAY (CL) with varying amounts of gravel, mps 2 in., no structure, moist.	PID = ND ppm	20	10	10	10		50	R	L	L	
							~~-FILL-~~	PID = ND ppm										
								PID = ND ppm										
								PID = ND ppm										
10						507.2 9.7	ML	(ML), Same, except wet.	PID = ND ppm									
	NA	G3 29	10.0 14.0				ML	(ML), Same.	PID = ND ppm									
								PID = ND ppm	20	10	10	10		50	R	L	L	
								PID = ND ppm										
						503.9 13.0	ML	(ML), Purple-brown, gravelly SILT (ML), mps 0.75 in., homogenous, with angular gravel, slight petroleum odor, wet.	PID = ND ppm	20	20			60	R	L	M	
	NA	G4 45	14.0 17.7			502.9 14.0	CL- ML	(CL- ML), Gray-brown, gravelly SILT (ML), mps 0.75 in., homogeneous, with angular gravel, no odor, moist.	PID = ND ppm	20	5			75	S	L	M	
15							~~-GLACIAL TILL-~~	PID = ND ppm										
					500.2 16.7	ML	(ML), Tan-brown, SILT (ML), homogeneous, dry.	PID = ND ppm					100		M	N		
					499.2 17.7		~~-WEATHERED SILTSTONE BEDROCK-~~ Probe refusal and Bottom of boring at 17.7 ft.	PID = ND ppm										

Water Level Data						Sample Identification		Well Diagram		Summary		
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O	Open End Rod		Riser Pipe	Overburden (lin. ft.) 17.7	Rock Cored (lin. ft.) --	Samples 4G
			Bottom of Casing	Bottom of Hole	Water							
						U	Undisturbed Sample		Filter Sand			
						S	Split Spoon		Cuttings			
						G	Geoprobe		Grout			
									Concrete	Boring No. TM-1		
									Bentonite Seal			
Field Tests:			Dilatancy: R-Rapid, S-Slow, N-None				Plasticity: N-Nonplastic, L-Low, M-Medium, H-High					
			Toughness: L-Low, M-Medium, H-High				Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High					
¹ SPT = Sampler blows per 6 in.			² Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).									
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.												

TEST BORING REPORT

Boring No. TM-2

Project LEXINGTON AVENUE FACILITY RI/FS INVESTIGATION ROCHESTER, NEW YORK
 Client DELPHI CORPORATION
 Contractor NOTHNAGLE DRILLING, INC.

File No. 70014-054
 Sheet No. 1 of 1
 Start December 23, 2002
 Finish December 23, 2002
 Driller J. Stockholm
 H&A Rep. S. Amrozowicz

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	G	--	Rig Make & Model: Skid Diedrich D-25
Inside Diameter (in.)	--	2.0	--	Bit Type:
Hammer Weight (lb.)	--	--	--	Drill Mud: None
Hammer Fall (in.)	--	--	--	Casing:
				Hoist/Hammer: Automatic Hammer

Elevation 516.9
 Datum NGVD
 Location 8'S & 2'E of
 Column GG-33

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test								
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength			
0				NO WELL INSTALLED	514.1		CONCRETE													
	NA	G1 41	2.8 6.8		2.8	ML	(ML), Gray-brown, sandy, SILT with gravel, (ML), mps 2 in., no structure, slight petroleum odor, wet, possible reworked glacial till. -FILL-	PID = ND ppm	20	5	10	10	5	50	S	L	M			
5								PID = ND ppm												
						510.1			PID = ND ppm											
	NA	G2 21	6.8 10.8		6.8	ML	(ML), Same, except moist to wet. -FILL-	PID = ND ppm	10	5	15	10	10	50	N	L	M			
								PID = ND ppm												
10								PID = ND ppm												
	NA	G3 24	10.8 14.8		505.6 11.3	MH	(MH), Brown, sandy elastic SILT with gravel (MH), mps 2 in., no structure, slight odor, moist to wet, rounded gravel, possible reworked glacial till. -FILL-	PID = ND ppm	10	5	10	15		60	R	L	L			
								PID = ND ppm												
								PID = ND ppm												
15								PID = ND ppm												
	NA	G4 41	14.8 18.2	500.5 16.4	MH	(MH), Gray-brown, elastic SILT (MH), homogeneous, bonded structure, moist, seashells. -LACUSTRINE-	PID = ND ppm						100	N	L	M				
					498.8 18.1	ML	(ML), Brown SILT (ML), homogenous, siltstone. -WEATHERED BEDROCK-	PID = ND ppm						100			N			
					498.7 18.2		Probe refusal and Bottom of boring at 18.2 ft.													
20																				

Water Level Data						Sample Identification		Well Diagram		Summary																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O Open End Rod	T Thin Wall Tube	U Undisturbed Sample	S Split Spoon	G Geoprobe		Riser Pipe Screen	Filter Sand	Cuttings	Grout	Concrete	Bentonite Seal	Overburden (lin. ft.)	18.2	Rock Cored (lin. ft.)	--	Samples	4G																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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APPENDIX B
Headspace Screening Reports

SCREENING LOC. LAB

HEADSPACE SCREENING REPORT

Page 1 of 1

PROJECT	Delphi Lexington Avenue Facility RI/FS		H&A FILE NO.	70014-054
LOCATION	Rochester, NY		PROJECT MGR.	T. Wells
CLIENT	Delphi Automotive Systems		FIELD REP	SRA
INSTRUMENT	MiniRAE 2000		DATE SAMPLED	10/24
DATE CALIBRATED ⁽¹⁾	10/24/02	LAMP (eV)	DATE SCREENED	10/24
AMBIENT TEMPERATURE	65	CALIBRATED BY	SCREENING LOC.	LAB

[illegible]

1. Instrument calibrated to the manufacturer standard.
2. "ppm" represents concentration of detectable volatile gaseous compounds in parts-per-million of air.
3. Sample assigned for gas chromatograph screening.

Sampled and relinquished by:		Received by:		Relinquished by:		Received by:	
Sign:		Sign:		Sign:		Sign:	
Print:		Print:		Print:		Print:	
Firm:		Firm:		Firm:		Firm:	
Date:	Time:	Date:	Time:	Date:	Time:	Date:	Time:

H&A FILE NO.	70014-054
PROJECT MGR.	T. Wells
FIELD REP	SRA
DATE SAMPLED	10/28/02
DATE SCREENED	10/28/02
SCREENING LOC.	LAB

1. Instrument calibrated to the manufacturer standard.
2. "ppm" represents concentration of detectable volatile gaseous compounds in parts-per-million of air.
3. Sample assigned for gas chromatograph screening.

Form 4010

H&A FILE NO.	70014-054
PROJECT MGR.	T. Wells
FIELD REP	SRA
DATE SAMPLED	10/29/02
DATE SCREENED	10/29/02
SCREENING LOC.	LAB

PARC 5



HEADSPACE SCREENING REPORT

Page 1 of 1

PROJECT	Delphi Lexington Avenue Facility RI/FS	H&A FILE NO.	70014-054
LOCATION	Rochester, NY	PROJECT MGR.	T. Wells
CLIENT	Delphi Automotive Systems	FIELD REP	S. Amrozowicz
INSTRUMENT	minirAE 2000 PID	DATE SAMPLED	12/5/02
DATE CALIBRATED ⁽¹⁾	12/5	LAMP (eV)	10.4
AMBIENT TEMPERATURE		CALIBRATED BY	SRA
		DATE SCREENED	12/5/02
		SCREENING LOC.	LAB

Exploration	Sample Number	Depth (ft)	Sample Description	Sample Reading (ppm) ⁽²⁾	Back-Ground Reading (ppm) ⁽²⁾	Remarks	GC ⁽³⁾	Containers			
								Drill Jar			
DR-132	S1	0.5-2		27	1.7	2 nd reading = 23 ppm		X			
	S2	2-4		11	1.5	" " = 10 ppm		X			
	S3	4-6		4.7	1.8			X			
▽	S4	6-6.1		10	1.4			X			
	*										
DR-132	S6	12-14		1.1	1.1			X			
	S7	14-16		0.7	0.7			X			
	S8	16-18		0.4	0.4			X			
	S9	18-20		1.7	1.7			X			
▽	S10	20-21		1.4	1.4			X			
			*no samples from 6.1 ft. to 12.0 ft.								
			*sample S5 from 10-12 ft. only in VOC jar. no headspace in filled. (SRA)								

- Instrument calibrated to the manufacturer standard.
- "ppm" represents concentration of detectable volatile gaseous compounds in parts-per-million of air.
- Sample assigned for gas chromatograph screening.

Sampled and relinquished by:		Received by:		Relinquished by:		Received by:	
Sign:		Sign:		Sign:		Sign:	
Print:		Print:		Print:		Print:	
Firm:		Firm:		Firm:		Firm:	
Date:	Time:	Date:	Time:	Date:	Time:	Date:	Time:

HEADSPACE SCREENING REPORT

Page 1 of 3

PROJECT	Delphi Lexington Avenue Facility RI/FS		H&A FILE NO.	70014-054	
LOCATION	Rochester, NY		PROJECT MGR.	T. Wells	
CLIENT	Delphi Automotive Systems		FIELD REP	SEA/mgb/dmn	
INSTRUMENT	miniRAE 2000 PID		DATE SAMPLED	12/23/02	
DATE CALIBRATED ⁽¹⁾	12/20/02	LAMP (eV)	10.4	DATE SCREENED	12/23/02
AMBIENT TEMPERATURE	75°	CALIBRATED BY	SEA	SCREENING LOC.	Delphi plant

Exploration	Sample Number	Depth (ft)	Sample Description	Sample Reading (ppm) ⁽²⁾	Back-Ground Reading (ppm) ⁽²⁾	Remarks	GC ⁽³⁾	Containers			
								Drill Jar	VOCs	Site metals	PAH or PCB
Tm-1	G1	2-4		ND	0.0			X			
	G1	4-6		ND	0.0			X			
	G2	6-8		ND	0.0			X			
	G2	8-10		ND	0.0			X			
	G3	10-14	petroleum odor	51	0.0	Dup. taken (VOCs)		X	X		
	G4	14-16		ND	0.0			X			
	G4	16-17.7		ND	0.0	submitted (VOCs, Hg)		X	X	Hg	
Tm-2	G1	2.8-4.8	petroleum odor	ND	0.0			X			
	G1	4.8-6.8	petroleum odor	ND	0.0			X			
	G2	6.8-10.8	petroleum odor	ND	0.0	submitted (all)		X	X	X	X
	G3	10.8-14.8	slight odor	ND	0.0	submitted (Cu only)		X		Cu	
	G4	14.8-16.8		ND	0.0	submitted (Cu only)		X		Cu	
	G4	16.8-18.2		ND	0.0	submitted (voc)		X	X		
PB-34	G3	8.8-11.2	stained / petroleum odor	91	0.0	(submit G1 0.8-4.8') # G3 8.8-11.2 (site metals)		X		X	
STB-39	G1	0.9-4.9	strong VOC odor	2600	0.0	submitted (all)		X	X	X	X
	G2	4.9-6.9	strong VOC odor	2400	0.0			X			
	G2	6.9-8.9	strong VOC odor / ash layer	2550	0.0			X			
	G3	8.9-12.9	staining / petro-VOC odor	1300	0.0			X			
	G4	12.9-14.9	staining / petro-VOC odor	1850	0.0	submitted (all)		X	X	X	X
	G4	14.9-15.9		450	0.0			X			

1. Instrument calibrated to the manufacturer standard.

2. "ppm" represents concentration of detectable volatile gaseous compounds in parts-per-million of air.

3. Sample assigned for gas chromatograph screening.

Sampled and relinquished by:		Received by:		Relinquished by:		Received by:	
Sign:		Sign:		Sign:		Sign:	
Print:		Print:		Print:		Print:	
Firm:		Firm:		Firm:		Firm:	
Date:	Time:	Date:	Time:	Date:	Time:	Date:	Time:

H&A FILE NO.	70014-054
PROJECT MGR.	T. Wells
FIELD REP	SRA / mGB / DMN
DATE SAMPLED	12/23/02
DATE SCREENED	
SCREENING LOC.	Delphi Plant

1. Instrument calibrated to the manufacturer standard.
2. "ppm" represents concentration of detectable volatile gaseous compounds in parts-per-million of air.
3. Sample assigned for gas chromatograph screening.

Form 4010

MERCURY
HEADSPACE SCREENING REPORT

Page 3 of 3

PROJECT	Delphi Lexington Avenue Facility RI/FS	H&A FILE NO.	70014-054
LOCATION	Rochester, NY	PROJECT MGR.	T. Wells
CLIENT	Delphi Automotive Systems	FIELD REP	SEA/MGB/DMN
INSTRUMENT	Jerome meter	DATE SAMPLED	12/23/02
DATE CALIBRATED ⁽¹⁾	12/20/02	LAMP (eV)	
DATE SCREENED	12/23/02	SCREENING LOC.	Delphi Plant
AMBIENT TEMPERATURE	75°	CALIBRATED BY	Ashted Tech.

Exploration	Sample Number	Depth (ft)	Sample Description	Hg Sample Reading (ppm) ⁽²⁾	Back-Ground Reading (ppm) ⁽²⁾	Remarks	GC ⁽³⁾	Containers			
								Drill Jar			
TM-1	G1	2-4		ND	0.0			X			
	G1	4-6		ND	0.0			X			
	G2	6-8		ND	0.0			X			
	G2	8-10		ND	0.0			X			
	G3	10-14	petroleum odor	ND	0.0	Dup taken		X			
	G4	14-16		ND	0.0			X			
	G4	16-17.7		0.006	0.0			X			
TM-2	G1	2.8-4.8	petroleum odor	0.006	0.0			X			
	G1	4.8-6.8	petroleum odor	ND	0.0			X			
	G2	6.8-10.8	petroleum odor	0.007	0.0			X			
	G3	10.8-14.8	slight odor	0.003	0.0			X			
	G4	14.8-16.8		0.003	0.0			X			
	G4	16.8-18.2		0.006	0.0			X			
			Blank Air	ND	0.0						
			Blank Air	ND	0.0						
			Blank Air	0.003	0.0						
			Blank Air	0.004	0.0						
			*Blanks run directly after positive hit								

- Instrument calibrated to the manufacturer standard.
- "ppm" represents concentration of detectable volatile gaseous compounds in parts-per-million of air.
- Sample assigned for gas chromatograph screening.

Sampled and relinquished by:		Received by:		Relinquished by:		Received by:	
Sign:		Sign:		Sign:		Sign:	
Print:		Print:		Print:		Print:	
Firm:		Firm:		Firm:		Firm:	
Date:	Time:	Date:	Time:	Date:	Time:	Date:	Time:

H&A FILE NO. 70014-054

PROJECT MGR. T. Wells

FIELD REP SRA/DMN

DATE SAMPLED 12/24/02

LAMP (eV)	10.4
-----------	------

DATE SCREENED 12/24/02

CALIBRATED BY SRA

SCREENING LOC. Delphi Plant

1. Instrument calibrated to the manufacturer standard. 2. "ppm" represents concentration of detectable volatile gaseous compounds in parts-per-million of air. 3. Sample assigned for gas chromatograph screening.			
Sampled and relinquished by:		Received by:	
Sign:		Sign:	
Print:		Print:	
Firm:		Firm:	
Date:	Time:	Date:	Time:

HEADSPACE SCREENING REPORT

Page 1 of 1

PROJECT Lexington Ave RI/ES H&A FILE NO. 70014-054
 LOCATION Rochester, NY PROJECT MGR. Tom Wells
 CLIENT Delphi Automotive Systems FIELD REP SEA/m6B
 INSTRUMENT MiniRAE 2000 PID DATE SAMPLED 12/26/02
 DATE CALIBRATED ⁽¹⁾ 12/26/02 LAMP (eV) 10.4 DATE SCREENED 12/26/02
 AMBIENT TEMPERATURE 75° CALIBRATED BY SEA SCREENING LOC. Delphi Plant

Exploration	Sample Number	Depth (ft)	Sample Description	Sample Reading (ppm) ⁽²⁾	Back-Ground Reading (ppm) ⁽²⁾	Remarks	GC ⁽³⁾	Containers			
								Drill Jar	VOC	PAH or Pb	All else
DGRB-2	G1	0.9-2.9		9999+	0.0			X			
	G1	2.9-4.9		9999+	0.0						
	G2	4.9-6.9		9999+	0.0						
	G2	6.9-8.9		9999+	0.0	submit			X		X
↓	G3	8.9-11.9		9999+	0.0	submit			X		X
STB-38	G1	0.9-2.9		6.8	0.0						
	G1	2.9-4.9		5.4	0.0						
	G2	4.9-6.9		13.1	0.0						
	G2	6.9-8.9	VOC odor	1901	0.0	submit			X		X
	G3	8.9-10.9	odor, high PID	1996	0.0						
	G3	10.9-12.9	high PID petroleum product	2266	0.0	submit			X		X
↓	G4	12.9-13.5		1797	0.0						
DGRB-7	G1	0.9-4.9	some staining	10.6	0.0						
	G2	4.9-6.9	slight odor, staining	19.7	0.0	submit (ms/msp)			X	Pb	
	G2	6.9-8.9		78.4	0.0						
	G3	8.9-10.9	slight green	66.5	0.0						
	G3	10.9-12.9	high PID, green, odor	372	0.0	submit			X	Pb	
↓	G4	12.9-14.2	"	354	0.0						
DGRB-6	G1	0.9-2.9		20.8	0.0	submit			X	PAH	
	G1	2.9-4.9		15.1	0.0						
	G2	4.9-6.9		11.4	0.0						
	G2	6.9-8.9		28.2	0.0						
	G3	8.9-10.9		56.9	0.0						
↓	G3	10.9-11.8		173	0.0	submit		↓	X	PAH	

1. Instrument calibrated to the manufacturer standard.

2. ppm represents concentration of detectable volatile gaseous compounds in parts per million of air.

3. Sample assigned for gas chromatograph screening.

Sampled and relinquished by:		Received by:		Relinquished by:		Received by:	
Sign:		Sign:		Sign:		Sign:	
Print:		Print:		Print:		Print:	
Firm:		Firm:		Firm:		Firm:	
Date:	Time:	Date:	Time:	Date:	Time:	Date:	Time:

ENVIRONMENT

APPENDIX C

Observation Well Installation Reports

BEDROCK OBSERVATION WELL INSTALLATION REPORT

Well No.

DR-132

Boring No.

DR-132

PROJECT	LEXINGTON AVENUE FACILITY RI/FS	H&A FILE NO.	70014-054
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	T. WELLS
CLIENT	DELPHI CORPORATION	FIELD REP.	S. AMROZOWICZ
CONTRACTOR	NOTHANGLE DRILLING	DATE INSTALLED	12/11/2002
DRILLER	S. LORANTY	WATER LEVEL	

Ground El.	512.0	ft	Location	N - 51129.8	☒ Guard Pipe
El. Datum	NGVD			E - 58086.8	☐ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL	Diagram & Measurements															
OVERBURDEN SOILS 22.0 FT. B49	CONCRETE 1.0 FT.	Type of protective cover/lock: <u>Locking cover</u> Height of top of guard pipe above ground surface: <u>3.0</u> ft Height of top of riser casing above ground surface: <u>2.5</u> ft Type of protective casing: <u>HSA Casing</u> Length: <u>52.0</u> ft Inside Diameter: <u>8.0</u> in Depth of bottom of roadway box: <u>1.0</u> ft <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type of Seals</th> <th>Top of Seal (ft)</th> <th>Thickness (ft)</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td>0.0</td> <td>1.0</td> </tr> <tr> <td>Cement Grout</td> <td>1.0</td> <td>61.0</td> </tr> <tr> <td>Bentonite</td> <td>--</td> <td>--</td> </tr> <tr> <td>Silica Quartz Sand</td> <td>--</td> <td>--</td> </tr> </tbody> </table>	Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0.0	1.0	Cement Grout	1.0	61.0	Bentonite	--	--	Silica Quartz Sand	--	--
	Type of Seals	Top of Seal (ft)	Thickness (ft)														
Concrete	0.0	1.0															
Cement Grout	1.0	61.0															
Bentonite	--	--															
Silica Quartz Sand	--	--															
CEMENT GROUT	Depth to the top of bedrock: <u>22.0</u> ft Type of riser casing: <u>Steel</u> Inside diameter of riser casing: <u>4.0</u> in Type of backfill around riser: <u>Cement Grout</u> Diameter of borehole: <u>10.0</u> in Depth to top of open core interval/bottom of riser casing: <u>62.0</u> ft Type of open core interval: <u>NX Core reamed to 4 in.</u> Diameter of open core interval: <u>4.0</u> in Depth of bottom of open core interval: <u>72.0</u> ft Depth of bottom of test borehole: <u>72.0</u> ft																
ROCHESTER SHALE	62.0 FT.	L1 L2 (Bottom of Exploration) (Numbers refer to depth from ground surface in feet)															

(Not to Scale)

64.5 ft	+	10 ft	=	74.5 ft
Casing Length (L1)		Screened Interval (L2)		Pay length

COMMENTS:

BEDROCK OBSERVATION WELL INSTALLATION REPORT

Well No.
SR-301
Boring No.
SR-301

PROJECT	LEXINGTON AVE. FACILITY RI/FS INVESTIGATION	H&A FILE NO.	70014-054
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	T. WELLS
CLIENT	DELPHI AUTOMOTIVE SYSTEMS	FIELD REP.	S. AMROZOWICZ
CONTRACTOR	NOTHNAGLE DRILLING	DATE INSTALLED	12/17/2001
DRILLER	S. LORANTY	WATER LEVEL	

Ground El.	497.6	ft	Location	N - 52500.8	☒ Guard Pipe
El. Datum	NGVD			E - 57016.9	☐ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL			Type of protective cover/lock	Locking Steel Guard Pipe													
PAVEMENT/ GRAVEL 0.5 FT.	CEMENT 1.0 FT.			Height of top of guard pipe above ground surface	3.0 ft													
OVERBURDEN SOILS	BENTONITE 10.0 FT.			Height of top of riser pipe above ground surface	2.8 ft													
				Type of protective casing	Steel Guard Pipe													
				Length	5.0 ft													
		Inside Diameter	6.0 in															
		Depth of bottom of guard pipe	2.0 ft															
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type of Seals</th> <th>Top of Seal (ft)</th> <th>Thickness (ft)</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td>0.0</td> <td>1.0</td> </tr> <tr> <td>Cement Grout</td> <td>--</td> <td>--</td> </tr> <tr> <td>Bentonite</td> <td>1.0</td> <td>9.0</td> </tr> <tr> <td>Quartz Sand</td> <td>10.0</td> <td>12.0</td> </tr> </tbody> </table>		Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0.0	1.0	Cement Grout	--	--	Bentonite	1.0	9.0	Quartz Sand	10.0	12.0
Type of Seals	Top of Seal (ft)	Thickness (ft)																
Concrete	0.0	1.0																
Cement Grout	--	--																
Bentonite	1.0	9.0																
Quartz Sand	10.0	12.0																
		Depth to the top of bedrock	15.0 ft															
		Type of riser pipe	Stainless Steel															
		Inside diameter of riser pipe	2.0 in															
		Type of backfill around riser	Bentonite															
		Diameter of borehole	8.0 in															
		Depth to top of well screen	12.0 ft															
		Type of core interval	Tri-cone-bit-reamed NX Core															
		Diameter of core interval	6.0 in															
		Type of well screen	Continuous-Wrap Stainless Steel															
		Diameter of well screen	2.0 in															
		Screen gauge or size of openings	0.010 in															
		Type of backfill around well screen	Quartz Sand															
		Depth of bottom of well screen	22.0 ft															
		Depth of bottom of borehole	22.0 ft															

(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

$$\begin{array}{rclclcl}
 17.8 & \text{ft} & + & 7.0 & \text{ft} & + & & \text{ft} & = & 24.8 & \text{ft} \\
 \text{Riser Pay Length (L1)} & & & \text{Length of screen (L2)} & & & \text{Length of silt trap (L3)} & & & \text{Pay length}
 \end{array}$$

COMMENTS:

BEDROCK OBSERVATION WELL INSTALLATION REPORT

 Well No.
R-301
Boring No.
R-301

PROJECT	LEXINGTON AVE. FACILITY RI/FS INVESTIGATION	H&A FILE NO.	70014-054
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	T. WELLS
CLIENT	DELPHI AUTOMOTIVE SYSTEMS	FIELD REP.	S. AMROZOWICZ
CONTRACTOR	NOTHNAGLE DRILLING	DATE INSTALLED	12/17/2001
DRILLER	S. LORANTY	WATER LEVEL	

Ground El.	497.9	ft	Location	N - 52472.5	☒ Guard Pipe
El. Datum	NGVD			E - 57011.1	☐ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL		Type of protective cover/lock	Locking Cap																	
PAVEMENT 0.5 FT.	CEMENT 1.0 FT.		Height of top of guard pipe above ground surface	NA	ft																
OVERBURDEN SOILS			Height of top of riser pipe above ground surface	3.0	ft																
			Type of protective casing	Steel Casing Riser																	
			Length	33.0	ft																
			Inside Diameter	4.0	in																
			Depth of bottom of roadway box	NA	ft																
			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type of Seals</th> <th>Top of Seal (ft)</th> <th>Thickness (ft)</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td>0.0</td> <td>1.0</td> </tr> <tr> <td>Cement Grout</td> <td>1.0</td> <td>29.0</td> </tr> <tr> <td>Bentonite</td> <td>--</td> <td>--</td> </tr> <tr> <td>Quartz Sand</td> <td>--</td> <td>--</td> </tr> </tbody> </table>				Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0.0	1.0	Cement Grout	1.0	29.0	Bentonite	--	--	Quartz Sand	--	--
Type of Seals	Top of Seal (ft)	Thickness (ft)																			
Concrete	0.0	1.0																			
Cement Grout	1.0	29.0																			
Bentonite	--	--																			
Quartz Sand	--	--																			
12.7 FT.	CEMENT BENTONITE GROUT	L1	Type of casing pipe	Steel																	
WEATHERED BEDROCK			Inside diameter of casing pipe	4.0	in																
			Type of backfill around riser	Cement Bentonite Grout																	
15.0 FT.			Diameter of borehole	8.0	in																
ROCHESTER SHALE			Depth to bottom of casing	30.0	ft																
			Depth to the top of bedrock	15.0	ft																
			Type of open core interval	NX Core																	
			Diameter of open core interval	3.0	in																
	OPEN INTERVAL	L2	Depth of bottom of open core interval	40.0	ft																
40.0	40.0		Depth of bottom of test borehole	40.0	ft																

(Bottom of Exploration)

(Numbers refer to depth from ground surface in feet)

(Not to Scale)

33	ft	+	10	ft	=	43.0	ft
Casing Length (L1)			Cored Interval (L2)			Pay length	

COMMENTS:

BEDROCK OBSERVATION WELL INSTALLATION REPORT

Well No.

R-302

Boring No.

R-302

PROJECT LEXINGTON AVE. FACILITY RI/FS

H&A FILE NO. 70014-054

LOCATION ROCHESTER, NEW YORK

PROJECT MGR. T. WELLS

CLIENT DELPHI AUTOMOTIVE SYSTEMS

FIELD REP. S. AMROZOWICZ

CONTRACTOR NOTHNAGLE DRILLING

DATE INSTALLED 12/17/2002

DRILLER S. LORANTY

WATER LEVEL

Ground El. 493.0 ft
El. Datum NGVDLocation N - 52606.2
E - 57672.9
☐ Guard Pipe
☒ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL	Type of protective cover/lock		Roadway Box
OVERBURDEN SOILS 11.0 FT.	CEMENT BENTONITE GROUT	Height of top of guard pipe above ground surface	0.0	ft
		Depth of top of riser pipe below ground surface	0.2	ft
		Type of protective casing	Steel Casing Riser	
		Length	25.8	ft
		Inside Diameter	4.0	in
		Depth of bottom of roadway box	1.0	ft
		Type of Seals	Top of Seal (ft)	Thickness (ft)
		Concrete	0.0	1.0
		Cement Grout	1.0	25.0
		Bentonite	--	--
		Quartz Sand	--	--
		Type of casing pipe	Steel	
		Inside diameter of casing pipe	4.0	in
		Type of backfill around riser	Cement Bentonite Grout	
		Diameter of borehole	8.0	in
		Depth to bottom of casing	26.0	ft
		Depth to top of bedrock	11.1	ft
		Type of open core interval	NX Core reamed to 4 in.	
		Diameter of open core interval	4.0	in
		Depth of bottom of open core interval	36.0	ft
		Depth of bottom of test borehole	36.0	ft

(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

25.8 ft + 10.0 ft = 35.8 ft
 Casing Length (L1) Cored Interval (L2) Pay length

COMMENTS:

BEDROCK OBSERVATION WELL INSTALLATION REPORT

 Well No.
SR-303
Boring No.
SR-303

PROJECT	LEXINGTON AVENUE FACILITY RI/FS	H&A FILE NO.	70014-054
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	T. WELLS
CLIENT	DELPHI CORPORATION	FIELD REP.	S. AMROZOWICZ
CONTRACTOR	NOTHNAGLE DRILLING	DATE INSTALLED	10/17/2002
DRILLER	S. LORANTY	WATER LEVEL	

Ground El.	494.0	ft	Location	N - 52017.2	☐ Guard Pipe
El. Datum	NGVD			E - 58045.7	☒ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL	Type of protective cover/lock	Bolted Steel Cover															
OVERBURDEN SOILS	CONCRETE	Height of top of guard pipe above ground surface	Flush ft															
	2.0 FT.	Depth of top of riser pipe below ground surface	0.2 ft															
	BENTONITE SEAL	Type of protective casing:	Roadway Box															
	4.0 FT.	Length	1.0 ft															
		Inside Diameter	8.0 in															
9.0 FT.		Depth of bottom of guard pipe	N/A ft															
		Type of Seals	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type of Seals</th> <th>Top of Seal (ft)</th> <th>Thickness (ft)</th> </tr> </thead> <tbody> <tr><td>Concrete</td><td>0.0</td><td>2.0</td></tr> <tr><td>Cement Grout</td><td>-</td><td>-</td></tr> <tr><td>Bentonite</td><td>2.0</td><td>2.0</td></tr> <tr><td>Silica Quartz Sand</td><td>4.0</td><td>12.0</td></tr> </tbody> </table>	Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0.0	2.0	Cement Grout	-	-	Bentonite	2.0	2.0	Silica Quartz Sand	4.0	12.0
	Type of Seals	Top of Seal (ft)	Thickness (ft)															
	Concrete	0.0	2.0															
	Cement Grout	-	-															
Bentonite	2.0	2.0																
Silica Quartz Sand	4.0	12.0																
	Depth to the top of bedrock	9.0 ft																
	Type of riser pipe:	PVC																
	Inside diameter of riser pipe	2.0 in																
ROCHESTER SHALE		Type of backfill around riser	See Above															
		Diameter of borehole	8.0 in															
		Depth to top of well screen	6.0 ft															
		Type of screen	Factory-slotted PVC															
		Screen gauge or size of openings	0.010 in															
	Diameter of screen	2.0 in																
	Type of backfill around screen	#00N Quartz Sand																
	Diameter of bedrock corehole	6.0 in																
	Depth of bottom of well screen	16.0 ft																
	Bottom of Silt trap	16.0 ft																
	Depth of bottom of borehole	16.0 ft																

 (Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

5.8	ft	+	10	ft	+	0	ft	=	15.8	ft
Riser Pay Length (L1)			Length of screen (L2)			Length of silt trap (L3)			Pay length	

COMMENTS:

BEDROCK OBSERVATION WELL
INSTALLATION REPORT

Well No.

R-305

Boring No.

R-305

PROJECT LEXINGTON AVENUE FACILITY RI/FS

H&A FILE NO. 70014-054

LOCATION ROCHESTER, NEW YORK

PROJECT MGR. T. WELLS

CLIENT DELPHI CORPORATION

FIELD REP. S. AMROZOWICZ

CONTRACTOR NOTHANGLE DRILLING

DATE INSTALLED 12/19/2002

DRILLER S. LORANTY

WATER LEVEL

Ground El. 504.9 ft

Location N - 50395.9

☒ Guard Pipe

El. Datum NGVD

E - 58936.6

☐ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL	Type of protective cover/lock		Protective Casing													
OVERBURDEN SOILS	CONCRETE 1.0 FT.	Height of top of guard pipe above ground surface	2.5	ft													
	CEMENT GROUT	Height of top of riser casing above ground surface	2.5	ft													
		Type of protective casing:	Steel Casing														
		Length	30.5	ft													
3.5 FT.		Inside Diameter	4.0	in													
ROCHESTER SHALE	18.5 FT.	Depth of bottom of guard pipe box	18.5	ft													
		<table border="1"><thead><tr><th>Type of Seals</th><th>Top of Seal (ft)</th><th>Thickness (ft)</th></tr></thead><tbody><tr><td>Concrete</td><td>0.0</td><td>1.0</td></tr><tr><td>Cement Grout</td><td>1.0</td><td>17.5</td></tr><tr><td>Bentonite</td><td>--</td><td>--</td></tr><tr><td>Silica Quartz Sand</td><td>--</td><td>--</td></tr></tbody></table>		Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0.0	1.0	Cement Grout	1.0	17.5	Bentonite	--	--	Silica Quartz Sand	--
	Type of Seals	Top of Seal (ft)	Thickness (ft)														
	Concrete	0.0	1.0														
	Cement Grout	1.0	17.5														
	Bentonite	--	--														
	Silica Quartz Sand	--	--														
	OPEN BEDROCK INTERVAL	L1	Depth to the top of bedrock	3.5	ft												
		Type of riser casing:	Steel														
			Inside diameter of riser casing	4.0	in												
Type of backfill around riser		Cement Grout															
Diameter of borehole		8.0	in														
Depth to top of open core interval/bottom of riser casing		18.5	ft														
Type of open core interval		NX Core reamed to 4 in.															
Diameter of open core interval		4.0	in														
28.5	28.5	Depth of bottom of open core interval	28.5	ft													
		Depth of bottom of test borehole	28.5	ft													

(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

20.5 ft

+ 10.0 ft

= 30.5 ft

Casing Length (L1)

Screened Interval (L2)

Pay length

COMMENTS:

BEDROCK OBSERVATION WELL
INSTALLATION REPORT

Well No.

R-306

Boring No.

R-306

PROJECT LEXINGTON AVENUE FACILITY RI/FS

H&A FILE NO. 70014-054

LOCATION ROCHESTER, NEW YORK

PROJECT MGR. T. WELLS

CLIENT DELPHI CORPORATION

FIELD REP. S. AMROZOWICZ

CONTRACTOR NOTHANGLE DRILLING

DATE INSTALLED 12/13/2002

DRILLER S. LORANTY

WATER LEVEL

Ground El. 513.6 ft
El. Datum NGVDLocation N - 50046.7
E - 58746.7☒ Guard Pipe☐ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL	Type of protective cover/lock	Protective Casing														
OVERBURDEN SOILS	CONCRETE 1.0 FT.	Height of top of guard pipe above ground surface	3.0 ft														
	CEMENT GROUT	Height of top of riser casing above ground surface	2.5 ft														
		Type of protective casing:	Steel Casing														
		Length	26.5 ft														
9.0 FT.		Inside Diameter	4.0 in														
ROCHESTER SHALES	24.0 FT.	Depth of bottom of guard pipe box	24.0 ft														
		<table border="1"><thead><tr><th>Type of Seals</th><th>Top of Seal (ft)</th><th>Thickness (ft)</th></tr></thead><tbody><tr><td>Concrete</td><td>0.0</td><td>1.0</td></tr><tr><td>Cement Grout</td><td>1.0</td><td>23.0</td></tr><tr><td>Bentonite</td><td>--</td><td>--</td></tr><tr><td>Silica Quartz Sand</td><td>--</td><td>--</td></tr></tbody></table>		Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0.0	1.0	Cement Grout	1.0	23.0	Bentonite	--	--	Silica Quartz Sand	--
	Type of Seals	Top of Seal (ft)	Thickness (ft)														
	Concrete	0.0	1.0														
	Cement Grout	1.0	23.0														
	Bentonite	--	--														
	Silica Quartz Sand	--	--														
	OPEN BEDROCK INTERVAL	Depth to the top of bedrock	9.0 ft														
		Type of riser casing:	Steel														
		Inside diameter of riser casing	4.0 in														
Type of backfill around riser		Cement Grout															
Diameter of borehole		8.0 in															
Depth to top of open core interval/bottom of riser casing		24.0 ft															
Type of open core interval		NX Core reamed to 4 in.															
Diameter of open core interval		4.0 in															
	Depth of bottom of open core interval	34.0 ft															
	Depth of bottom of test borehole	34.0 ft															

(Bottom of Exploration) (Numbers refer to depth from ground surface in feet) (Not to Scale)

26.5 ft + 10 ft = 36.5 ft
Casing Length (L1) Screened Interval (L2) Pay length

COMMENTS:

BEDROCK OBSERVATION WELL INSTALLATION REPORT

Well No.
R-307
Boring No.
R-307

PROJECT	LEXINGTON AVENUE FACILITY RI/FS	H&A FILE NO.	70014-054
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	T. WELLS
CLIENT	DELPHI CORPORATION	FIELD REP.	S. AMROZOWICZ
CONTRACTOR	NOTHANGLE DRILLING	DATE INSTALLED	10/23/2002
DRILLER	S. LORANTY	WATER LEVEL	

Ground El.	511.7	ft	Location	N - 49886.2	☐ Guard Pipe
El. Datum	NGVD			E - 58862.2	☒ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL			
OVERBURDEN SOILS 6.1 FT. WEATHERED BEDROCK 7.0 FT.	CEMENT 1.0 FT.	Type of protective cover/lock	Bolted Steel Cover	
	CEMENT- BENTONITE GROUT 22.0 FT.	Depth of top of guard pipe/roadway box below ground surface	Flush ft	
		Depth of top of riser casing below ground surface	0.2 ft	
ROCHESTER SHALE	CEMENT- BENTONITE GROUT 22.0 FT.	Type of protective casing:	Roadway Box	
		Length	1.0 ft	
		Inside Diameter	8.0 in	
		Depth of bottom of roadway box	1.0 ft	
		Type of Seals	Top of Seal (ft)	Thickness (ft)
		Concrete	0.0	1.0
		Cement Grout	1.0	22.0
		Bentonite	--	--
		Silica Quartz Sand	--	--
		Depth to the top of bedrock	7.0 ft	
Type of riser casing:	Steel			
Inside diameter of riser casing	4.0 in			
Type of backfill around riser	Cement Grout			
Diameter of borehole	8.0 in			
Depth to top of open core interval/bottom of riser casing	22.0 ft			
Type of open core interval	NX Core reamed to 4.0			
Diameter of open core interval	4.0 in			
Depth of bottom of open core interval	32.0 ft			
Depth of bottom of test borehole	32.0 ft			

(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

22 ft	+	10 ft	=	32 ft
Casing Length (L1)		Screened Interval (L2)		Pay length

COMMENTS:

BEDROCK OBSERVATION WELL INSTALLATION REPORT

 Well No.
SR-308
Boring No.
SR-308

 PROJECT LEXINGTON AVE. FACILITY RI/FS INVESTIGATION
 LOCATION ROCHESTER, NEW YORK
 CLIENT DELPHI AUTOMOTIVE SYSTEMS
 CONTRACTOR NOTHNAGLE DRILLING
 DRILLER S. LORANTY

 H&A FILE NO. 70014-054
 PROJECT MGR. T. WELLS
 FIELD REP. S. AMROZOWICZ
 DATE INSTALLED 12/13/2001
 WATER LEVEL _____

 Ground El. 517.3 ft
 El. Datum NGVD

 Location N - 50185.9
E - 57568.0
☒ Guard Pipe
☐ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL		
OVERBURDEN SOILS	CEMENT		
	1.0 FT.		
	BENTONITE		
	8.0 FT.		
ROCHESTER SHALE	6.0 FT.		
	QUARTZ SAND		
	18.0		
	18.0		
(Bottom of Exploration) (Numbers refer to depth from ground surface in feet)		(Not to Scale)	

Type of protective cover/lock _____

Height of top of guard pipe above ground surface 3.0 ft

Height of top of riser pipe above ground surface 2.8 ft

Type of protective casing _____

Length 5.0 ft

Inside Diameter 6.0 in

Depth of bottom of guard pipe 2.0 ft

Type of seals

Type of Seals	Top of Seal (ft)	Thickness (ft)
Concrete	0.0	1.0
Cement Grout	--	--
Bentonite	1.0	5.0
Quartz Sand	6.0	12.0

Type of riser pipe _____

Inside diameter of riser pipe 2.0 in

Type of backfill around riser Bentonite

Diameter of borehole 8.0 in

Depth to top of well screen 8.0 ft

Depth to the top of bedrock 8.0 ft

Type of core interval _____

Diameter of core interval 6.0 in

Type of well screen _____

Diameter of well screen 2.0 in

Screen gauge or size of openings 0.010 in

Type of backfill around well screen Quartz Sand

Depth of bottom of well screen 18.0 ft

Depth of bottom of borehole 18.0 ft

Guard Pipe

Locking Steel Guard Pipe

Stainless Steel

Continuous-Wrap Stainless Steel

11	ft	+	10.0	ft	+	ft	=	21	ft
Riser Pay Length (L1)			Length of screen (L2)			Length of silt trap (L3)		Pay length	

COMMENTS: _____

BEDROCK OBSERVATION WELL INSTALLATION REPORT

 Well No.
R-308
Boring No.
R-308

PROJECT	LEXINGTON AVE. FACILITY RI/FS INVESTIGATION	H&A FILE NO.	70014-054
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	T. WELLS
CLIENT	DELPHI AUTOMOTIVE SYSTEMS	FIELD REP.	S. AMROZOWICZ
CONTRACTOR	NOTHNAGLE DRILLING	DATE INSTALLED	12/13/2001
DRILLER	S. LORANTY	WATER LEVEL	

Ground El.	518.4	ft	Location	N - 50173.2	☒ Guard Pipe
El. Datum	NGVD			E - 57645.8	☐ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL															
OVERBURDEN SOILS	CEMENT	Type of protective cover/lock	Locking Cap													
	1.0 FT.	Height of top of guard pipe above ground surface	NA ft													
7.5 FT.		Height of top of riser pipe above ground surface	3.0 ft													
		Type of protective casing	Steel Casing Riser													
		Length	26.5 ft													
		Inside Diameter	4.0 in													
		Depth of bottom of roadway box	23.5 ft													
		<table border="1"> <thead> <tr> <th>Type of Seals</th> <th>Top of Seal (ft)</th> <th>Thickness (ft)</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td>0.0</td> <td>1.0</td> </tr> <tr> <td>Cement Grout</td> <td>1.0</td> <td>22.5</td> </tr> <tr> <td>Bentonite</td> <td>--</td> <td>--</td> </tr> <tr> <td>Quartz Sand</td> <td>--</td> <td>--</td> </tr> </tbody> </table>		Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0.0	1.0	Cement Grout	1.0	22.5	Bentonite	--	--	Quartz Sand
Type of Seals	Top of Seal (ft)	Thickness (ft)														
Concrete	0.0	1.0														
Cement Grout	1.0	22.5														
Bentonite	--	--														
Quartz Sand	--	--														
ROCHESTER SHALE	CEMENT BENTONITE GROUT	Type of casing pipe	Steel													
		Inside diameter of casing pipe	4.0 in													
		Type of backfill around riser	Cement Bentonite Grout													
		Diameter of borehole	8.0 in													
		Depth to bottom of casing	7.5 ft													
		Depth to the top of bedrock	23.5 ft													
		Type of open core interval	NX Core													
		Diameter of open core interval	3.0 in													
	OPEN INTERVAL	Depth of bottom of open core interval	33.5 ft													
		Depth of bottom of test borehole	33.5 ft													

(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

26.5	ft	+	10	ft	=	36.5	ft
Casing Length (L1)			Cored Interval (L2)			Pay length	

COMMENTS:

BEDROCK OBSERVATION WELL INSTALLATION REPORT

Well No.

R-309

Boring No.

R-309

PROJECT LEXINGTON AVE. FACILITY RI/FS INVESTIGATION

H&A FILE NO. 70014-054

LOCATION ROCHESTER, NEW YORK

PROJECT MGR. T. WELLS

CLIENT DELPHI AUTOMOTIVE SYSTEMS

FIELD REP. S. AMROZOWICZ

CONTRACTOR NOTHNAGLE DRILLING

DATE INSTALLED 1/4/2002

DRILLER S. LORANTY

WATER LEVEL

Ground El. 516.85 ft

Location 9'N and 14'E of Column R-9

El. Datum NGVD

☐ Guard Pipe☒ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL	Type of protective cover/lock		Roadway Box															
OVERBURDEN SOILS	CEMENT 1.0 FT.	Height of top of roadway box above ground surface	Flush	ft															
	CEMENT BENTONITE GROUT	Depth of top of riser pipe below ground surface	0.2	ft															
		Type of protective casing	Roadway Box																
		Length	1.0	ft															
		Inside Diameter	8.0	in															
		Depth of bottom of roadway box	1.0	ft															
10.5 FT.		<table border="1"> <thead> <tr> <th>Type of Seals</th> <th>Top of Seal (ft)</th> <th>Thickness (ft)</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td>0.0</td> <td>1.0</td> </tr> <tr> <td>Cement Grout</td> <td>1.0</td> <td>24.5</td> </tr> <tr> <td>Bentonite</td> <td>--</td> <td>--</td> </tr> <tr> <td>Quartz Sand</td> <td>--</td> <td>--</td> </tr> </tbody> </table>			Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0.0	1.0	Cement Grout	1.0	24.5	Bentonite	--	--	Quartz Sand	--	--
Type of Seals	Top of Seal (ft)	Thickness (ft)																	
Concrete	0.0	1.0																	
Cement Grout	1.0	24.5																	
Bentonite	--	--																	
Quartz Sand	--	--																	
ROCHESTER SHALE	25.5 FT.	Type of casing pipe	Steel																
		Inside diameter of casing pipe	4.0	in															
		Type of backfill around riser	Cement Bentonite Grout																
			Diameter of borehole	8.0	in														
		Depth to bottom of casing	25.5	ft															
		Depth to the top of bedrock	10.5	ft															
		Type of open core interval	NX Core																
		Diameter of open core interval	3.0	in															
		Depth of bottom of open core interval	35.5	ft															
35.5	35.5	Depth of bottom of test borehole	35.5	ft															

(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

$$25.5 \text{ ft} + 10 \text{ ft} = 35.5 \text{ ft}$$

Casing Length (L1) Cored Interval (L2) Pay length

COMMENTS:

BEDROCK OBSERVATION WELL INSTALLATION REPORT

Well No.

SR-310

Boring No.

SR-310

PROJECT LEXINGTON AVE. FACILITY RI/FS INVESTIGATION

H&A FILE NO. 70014-054

LOCATION ROCHESTER, NEW YORK

PROJECT MGR. T. WELLS

CLIENT DELPHI AUTOMOTIVE SYSTEMS

FIELD REP. S. AMROZOWICZ

CONTRACTOR NOTHNAGLE DRILLING

DATE INSTALLED 12/22/2001

DRILLER S. LORANTY

WATER LEVEL

Ground El. 516.85 ft
El. Datum NGVD

Location 4.5'S and 22'E of Column T-17

☐ Guard Pipe☒ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL			Type of protective cover/lock	Roadway Box														
CONCRETE 0.7 FT.	CEMENT 1.0 FT.		Height of top of roadway box above ground surface	0.0 ft															
OVERBURDEN SOILS	BENTONITE 7.5 FT.		Depth of top of riser pipe below ground surface	0.2 ft															
			Type of protective casing	Roadway Box															
WEATHERED BEDROCK 12.5 FT.	QUARTZ SAND		Length	1.0 ft															
ROCHESTER SHALE		Inside Diameter	8.0 in																
			Depth of bottom of roadway box	1.0 ft															
			<table border="1"> <thead> <tr> <th>Type of Seals</th> <th>Top of Seal (ft)</th> <th>Thickness (ft)</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td>0.0</td> <td>1.0</td> </tr> <tr> <td>Cement Grout</td> <td>--</td> <td>--</td> </tr> <tr> <td>Bentonite</td> <td>1.0</td> <td>6.5</td> </tr> <tr> <td>Quartz Sand</td> <td>7.5</td> <td>12.0</td> </tr> </tbody> </table>		Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0.0	1.0	Cement Grout	--	--	Bentonite	1.0	6.5	Quartz Sand	7.5	12.0
Type of Seals	Top of Seal (ft)	Thickness (ft)																	
Concrete	0.0	1.0																	
Cement Grout	--	--																	
Bentonite	1.0	6.5																	
Quartz Sand	7.5	12.0																	
			Type of riser pipe	Stainless Steel															
			Inside diameter of riser pipe	2.0 in															
			Type of backfill around riser	Bentonite															
			Diameter of borehole	8.0 in															
			Depth to top of well screen	9.5 ft															
			Depth to the top of bedrock	12.5 ft															
			Type of core interval	Tri-cone-bit-reamed NX Core															
			Diameter of core interval	6.0 in															
			Type of well screen	Continuous-Wrap Stainless Steel															
			Diameter of well screen	2.0 in															
			Screen gauge or size of openings	0.010 in															
			Type of backfill around well screen	Quartz Sand															
			Depth of bottom of well screen	19.5 ft															
			Depth of bottom of borehole	19.5 ft															

(Bottom of Exploration)

(Numbers refer to depth from ground surface in feet)

(Not to Scale)

$$\text{Riser Pay Length (L1)} + \text{Length of screen (L2)} + \text{Length of silt trap (L3)} = \text{Pay length}$$

COMMENTS:

BEDROCK OBSERVATION WELL INSTALLATION REPORT

Well No.
SR-311
Boring No.
SR-311

PROJECT	LEXINGTON AVE. FACILITY RI/FS INVESTIGATION	H&A FILE NO.	70014-054
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	T. WELLS
CLIENT	DELPHI AUTOMOTIVE SYSTEMS	FIELD REP.	S. AMROZOWICZ
CONTRACTOR	NOTHNAGLE DRILLING	DATE INSTALLED	12/26/2001
DRILLER	S. LORANTY	WATER LEVEL	

Ground El.	516.85 ft	Location	5'S and 5'E of Column R-29		☐ Guard Pipe
El. Datum	NGVD				☒ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL		
CONCRETE 0.8 FT.	CEMENT 1.0 FT.	Type of protective cover/lock Height of top of roadway box above ground surface Depth of top of riser pipe below ground surface Type of protective casing Length Inside Diameter Depth of bottom of roadway box Roadway Box 0.0 ft 0.2 ft Roadway Box 1.0 ft 8.0 in 1.0 ft	
OVERBURDEN SOILS	BENTONITE 11.0 FT.	Type of seals Concrete Cement Grout Bentonite Quartz Sand Top of Seal (ft) 0.0 -- 1.0 11.0 Thickness (ft) 1.0 -- 10.0 12.0	
12.0 FT.		Type of riser pipe Inside diameter of riser pipe Type of backfill around riser Stainless Steel 2.0 in Bentonite	
WEATHERED BEDROCK 16.0 FT.		Diameter of borehole 8.0 in	
ROCHESTER SHALE	QUARTZ SAND	Depth to top of well screen Depth to the top of bedrock Type of core interval Diameter of core interval Type of well screen Diameter of well screen Screen gauge or size of openings Type of backfill around well screen 13.0 ft 12.5 ft Tri-cone-bit-reamed NX Core 6.0 in Continuous-Wrap Stainless Steel 2.0 in 0.010 in Quartz Sand	
23.0	23.0	Depth of bottom of well screen Depth of bottom of borehole 23.0 ft 23.0 ft	

(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

ft	+	ft	+	ft	=	ft
Riser Pay Length (L1)		Length of screen (L2)		Length of silt trap (L3)		Pay length

COMMENTS:

BEDROCK OBSERVATION WELL INSTALLATION REPORT

 Well No.
SR-312
Boring No.
SR-312

PROJECT	LEXINGTON AVE. FACILITY RI/PS INVESTIGATION	H&A FILE NO.	70014-054
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	T. WELLS
CLIENT	DELPHI AUTOMOTIVE SYSTEMS	FIELD REP.	S. AMROZOWICZ
CONTRACTOR	NOTHNAGLE DRILLING	DATE INSTALLED	12/27/2001
DRILLER	S. LORANTY	WATER LEVEL	

Ground El.	516.85 ft	Location	4'N and 14'W of Column L-23	☐ Guard Pipe
El. Datum	NGVD			☒ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL	Diagram Labels	Measurements															
CONCRETE 0.6 FT.	CEMENT 1.0 FT.	Type of protective cover/lock	Roadway Box															
		Height of top of roadway box above ground surface	Flush ft															
		Depth of top of riser pipe below ground surface	0.2 ft															
		Type of protective casing	Roadway Box															
		Length	1.0 ft															
		Inside Diameter	8.0 in															
		Depth of bottom of roadway box	1.0 ft															
OVERBURDEN SOILS	BENTONITE																	
		Seals Table																
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type of Seals</th> <th>Top of Seal (ft)</th> <th>Thickness (ft)</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td>0.0</td> <td>1.0</td> </tr> <tr> <td>Cement Grout</td> <td>--</td> <td>--</td> </tr> <tr> <td>Bentonite</td> <td>1.0</td> <td>9.0</td> </tr> <tr> <td>Quartz Sand</td> <td>10.0</td> <td>12.0</td> </tr> </tbody> </table>	Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0.0	1.0	Cement Grout	--	--	Bentonite	1.0	9.0	Quartz Sand	10.0	12.0	
Type of Seals	Top of Seal (ft)	Thickness (ft)																
Concrete	0.0	1.0																
Cement Grout	--	--																
Bentonite	1.0	9.0																
Quartz Sand	10.0	12.0																
		Type of riser pipe	Stainless Steel															
		Inside diameter of riser pipe	2.0 in															
		Type of backfill around riser	Bentonite															
	10.0 FT.	Diameter of borehole	8.0 in															
		Depth to top of well screen	12.0 ft															
		Depth to the top of bedrock	15.0 ft															
		Type of core interval	Tri-cone-bit-reamed NX Core															
		Diameter of core interval	6.0 in															
		Type of well screen	Continuous-wrap Stainless Steel															
		Diameter of well screen	2.0 in															
		Screen gauge or size of openings	0.010 in															
		Type of backfill around well screen	Quartz Sand															
		Depth of bottom of well screen	22.0 ft															
		Depth of bottom of borehole	22.0 ft															
15.0 FT.	QUARTZ SAND																	
ROCHESTER SHALE																		
22.0	22.0																	

(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

15.0 ft	+	7.0 ft	+	ft	=	22.0 ft
Riser Pay Length (L1)		Length of screen (L2)		Length of silt trap (L3)		Pay length

COMMENTS:

BEDROCK OBSERVATION WELL INSTALLATION REPORT

Well No.
SR-313Boring No.
SR-313

PROJECT LEXINGTON AVE. FACILITY R/FS INVESTIGATION
 LOCATION ROCHESTER, NEW YORK
 CLIENT DELPHI AUTOMOTIVE SYSTEMS
 CONTRACTOR NOTHNAGLE DRILLING
 DRILLER S. LORANTY

H&A FILE NO. 70014-054
 PROJECT MGR. T. WELLS
 FIELD REP. S. AMROZOWICZ
 DATE INSTALLED 12/27/2001
 WATER LEVEL

Ground El. 516.85 ft
 El. Datum NGVD

Location 5'S and 5'E of Column E-23

☐ Guard Pipe
☒ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL	Type of protective cover/lock		Roadway Box	
CONCRETE 1.0 FT.	CEMENT 1.0 FT.		Height of top of roadway box above ground surface	Flush ft	
OVERBURDEN SOILS	BENTONITE		Depth of top of riser pipe below ground surface	0.2 ft	
			Type of protective casing	Roadway Box	
		Length	1.0 ft		
		Inside Diameter	8.0 in		
			Depth of bottom of roadway box	1.0 ft	
			Type of Seals	Top of Seal (ft)	Thickness (ft)
			Concrete	0.0	1.0
			Cement Grout	--	--
			Bentonite	1.0	9.0
			Quartz Sand	10.0	10.0
			Type of riser pipe	Stainless Steel	
			Inside diameter of riser pipe	2.0 in	
			Type of backfill around riser	Bentonite	
	10.0 FT.		Diameter of borehole	8.0 in	
13.1 FT.	QUARTZ SAND		Depth to top of well screen	10.0 ft	
			Depth to the top of bedrock	13.1 ft	
WEATHERED BEDROCK			Type of core interval	Tri-cone-bit-reamed NX Core	
16.0 ft.			Diameter of core interval	6.0 in	
ROCHESTER SHALE			Type of well screen	Continuous-wrap Stainless Steel	
			Diameter of well screen	2.0 in	
			Screen gauge or size of openings	0.010 in	
			Type of backfill around well screen	Quartz Sand	
20.0	20.0		Depth of bottom of well screen	20.0 ft	
			Depth of bottom of borehole	20.0 ft	

(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

16.0 ft + 4.0 ft + 0.0 ft = 20.0 ft
 Riser Pay Length (L1) Length of screen (L2) Length of silt trap (L3) Pay length

COMMENTS:

OVERBURDEN OBSERVATION WELL INSTALLATION REPORT

Well No.

OW-314

Boring No.

OW-314

PROJECT LEXINGTON AVE. FACILITY RI/FS INVESTIGATION

H&A FILE NO. 70014-054

LOCATION ROCHESTER, NEW YORK

PROJECT MGR. T. WELLS

CLIENT DELPHI AUTOMOTIVE SYSTEMS

FIELD REP. D. NOSTRANT

CONTRACTOR NOTHNAGLE DRILLING

DATE INSTALLED 12/9/2001

DRILLER S. LORANTY

WATER LEVEL

Ground El. 514.3 ft
El. Datum NGVDLocation N - 51112.5
E - 57906.2☒ Guard Pipe
☐ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL	Type of protective cover/lock	Locking Steel Guard Pipe	
OVERBURDEN SOILS	CONCRETE 0.5 FT.	Height of top of guard pipe above ground surface	2.9 ft	
	BENTONITE CEMENT GROUT 3.0 FT.	Height of top of riser pipe above ground surface	2.7 ft	
	BENTONITE 5.0 FT.	Type of protective casing	Galvanized Steel	
		Length	5.0 ft	
		Inside Diameter	4.0 in	
		Depth of bottom of guard pipe	2.1 ft	
		Type of Seals	Top of Seal (ft)	Thickness (ft)
		Concrete	0.0	0.5
		Cement Grout	0.5	2.5
		Bentonite Seal	3.0	2.0
	Quartz Sand	5.0	12.0	
	Type of riser pipe	Stainless Steel		
	Inside diameter of riser pipe	2.0 in		
	Type of backfill around riser	Bentonite/Cement Grout		
	Diameter of borehole	8.0 in		
	Depth to top of well screen	6.8 ft		
	Depth to the top of bedrock	NA ft		
	Type of well screen	Continuous-wrap Stainless Steel		
	Diameter of well screen	2.0 in		
	Screen gauge or size of openings	0.010 in		
	Type of backfill around well screen	Quartz Sand		
	Depth of bottom of well screen	16.8 ft		
	Depth of bottom of borehole	17.0 ft		

(Bottom of Exploration) (Numbers refer to depth from ground surface in feet)

(Not to Scale)

17.0 17.0

(Bottom of Exploration)

(Not to Scale)

16.0 ft + 4.0 ft + ft = 20.0 ft

Riser Pay Length (L1) Length of screen (L2) Length of silt trap (L3) Pay length

COMMENTS:

BEDROCK OBSERVATION WELL INSTALLATION REPORT

 Well No.
SR-314
Boring No.
SR-314

PROJECT	LEXINGTON AVE. FACILITY RI/FS INVESTIGATION	H&A FILE NO.	70014-054
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	T. WELLS
CLIENT	DELPHI AUTOMOTIVE SYSTEMS	FIELD REP.	D. NOSTRANT
CONTRACTOR	NOTHNAGLE DRILLING	DATE INSTALLED	12/6/2001
DRILLER	S. LORANTY	WATER LEVEL	

Ground El.	515.5	ft	Location	N - 51097.1		☐ Guard Pipe
El. Datum	NGVD			E - 57873.8		☒ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL		Type of protective cover/lock	Locking Steel Guard Pipe				
OVERBURDEN SOILS	CEMENT 1.0 FT.	L1	Height of top of guard pipe above ground surface	2.7	ft			
	CEMENT BENTONITE GROUT 13.0 FT.		Height of top of riser pipe above ground surface	2.5	ft			
			Type of protective casing	Galvanized Steel				
			Length	5.0	ft			
				Inside Diameter	4.0	in		
			Depth of bottom of guard pipe/roadway box	2.3	ft			
	BENTONITE 15.0 FT.	L2	Type of riser pipe	PVC				
QUARTZ SAND 20.5 FT.	Inside diameter of riser pipe		2.0	in				
	Type of backfill around riser		See Diagram					
	Diameter of borehole		10.0	in				
	Depth to top of well screen		17.3	ft				
	Depth to the top of bedrock	20.5	ft					
	L3	Type of core interval	Tri-cone-bit-reamed NX Core					
		Diameter of core interval	6.0	in				
ROCHESTER SHALE 27.5		Type of well screen	Factory-Slotted PVC					
		Diameter of well screen	2.0	in				
		Screen gauge or size of openings	0.010	in				
		Type of backfill around well screen	Quartz Sand					
		Depth of bottom of well screen	27.3	ft				
		Depth of bottom of borehole	27.5	ft				

 (Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

ft	+	ft	+	ft	=	ft
Riser Pay Length (L1)		Length of screen (L2)		Length of silt trap (L3)		Pay length

COMMENTS:

BEDROCK OBSERVATION WELL INSTALLATION REPORT

Well No.
R-314
Boring No.
R-314

PROJECT	LEXINGTON AVE. FACILITY RI/FS INVESTIGATION	H&A FILE NO.	70014-054
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	T. WELLS
CLIENT	DELPHI AUTOMOTIVE SYSTEMS	FIELD REP.	S. AMROZOWICZ
CONTRACTOR	NOTHNAGLE DRILLING	DATE INSTALLED	12/7/2001
DRILLER	S. LORANTY	WATER LEVEL	

Ground El.	515.1	ft	Location	N - 51092.5	☒ Guard Pipe
El. Datum	NGVD			E - 57892.5	☐ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL		Type of protective cover/lock	Locking Cap																	
OVERBURDEN SOILS 20.4 FT.	CEMENT BENTONITE GROUT	L1	Height of top of guard pipe above ground surface	NA	ft																
			Height of top of riser pipe above ground surface	2.5	ft																
			Type of protective casing	Steel Casing Riser																	
			Length	37.9	ft																
			Inside Diameter	4.0	in																
			Depth of bottom of roadway box	NA	ft																
			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type of Seals</th> <th>Top of Seal (ft)</th> <th>Thickness (ft)</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td>0.0</td> <td>0.5</td> </tr> <tr> <td>Cement Grout</td> <td>0.5</td> <td>34.9</td> </tr> <tr> <td>Bentonite</td> <td>--</td> <td>--</td> </tr> <tr> <td>Quartz Sand</td> <td>--</td> <td>--</td> </tr> </tbody> </table>		Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0.0	0.5	Cement Grout	0.5	34.9	Bentonite	--	--	Quartz Sand	--	--		
Type of Seals	Top of Seal (ft)	Thickness (ft)																			
Concrete	0.0	0.5																			
Cement Grout	0.5	34.9																			
Bentonite	--	--																			
Quartz Sand	--	--																			
			Type of casing pipe	Steel																	
			Inside diameter of casing pipe	4.0	in																
			Type of backfill around riser	Cement Bentonite Grout																	
			Diameter of borehole	8.0	in																
			Depth to bottom of casing	35.4	ft																
			Depth to top of bedrock	20.4	ft																
ROCHESTER SHALE	OPEN INTERVAL	L2	Type of open core interval	NX Core																	
			Diameter of open core interval	3.0	in																
			Depth of bottom of open core interval	45.4	ft																
			Depth of bottom of test borehole	45.4	ft																
45.4	45.4		(Bottom of Exploration) (Numbers refer to depth from ground surface in feet)		(Not to Scale)																

37.9	ft	+	10	ft	=	47.9	ft
Casing Length (L1)			Cored Interval (L2)			Pay length	

COMMENTS: _____

BEDROCK OBSERVATION WELL INSTALLATION REPORT

Well No.
DR-315

Boring No.
DR-315

PROJECT	LEXINGTON AVE. FACILITY RI/FS INVESTIGATION	H&A FILE NO.	70014-054
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	T. WELLS
CLIENT	DELPHI AUTOMOTIVE SYSTEMS	FIELD REP.	D. NOSTRANT
CONTRACTOR	NOTHNAGLE DRILLING	DATE INSTALLED	12/4/2001
DRILLER	S. LORANTY	WATER LEVEL	

Ground El.	514.1	ft	Location	N - 51168.3		☒ Guard Pipe
El. Datum	NGVD			E - 57635.9		☐ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL																
PAVEMENT 0.5 FT.	CEMENT 0.5 FT.	Type of protective cover/lock Height of top of inner casing above ground surface Height of top of outer casing above ground surface Type of outer protective casing Length Inside Diameter Depth of bottom of outer protective casing Locking Cap 2.1 ft 1.7 ft Steel Casing Riser 56.7 ft 8.0 in 55.0 ft															
OVERBURDEN SOILS	CEMENT BENTONITE GROUT	L1 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type of Seals</th> <th>Top of Seal (ft)</th> <th>Thickness (ft)</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td>0.0</td> <td>0.5</td> </tr> <tr> <td>Cement Grout</td> <td>0.5</td> <td>64.5</td> </tr> <tr> <td>Bentonite</td> <td>--</td> <td>--</td> </tr> <tr> <td>Quartz Sand</td> <td>--</td> <td>--</td> </tr> </tbody> </table>	Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0.0	0.5	Cement Grout	0.5	64.5	Bentonite	--	--	Quartz Sand	--	--
Type of Seals	Top of Seal (ft)	Thickness (ft)															
Concrete	0.0	0.5															
Cement Grout	0.5	64.5															
Bentonite	--	--															
Quartz Sand	--	--															
20.4 FT.		Type of inner casing pipe Inside diameter of inner casing pipe Type of backfill around inner riser Diameter of borehole Depth to bottom of inner casing Steel 4.0 in Cement Bentonite Grout 10.0 in 65.0 ft															
ROCHESTER SHALE	65.0 FT.	L2 Depth to the top of bedrock Type of open core interval Diameter of open core interval Depth of bottom of open core interval															
80.0	80.0	Depth of bottom of test borehole 80.0 ft															

(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

ft	+	ft	=	ft
Casing Length (L1)		Cored Interval (L2)		Pay length

COMMENTS:

OVERBURDEN OBSERVATION WELL INSTALLATION REPORT

Well No.

OW-316

Boring No.

OW-316

PROJECT LEXINGTON AVE. FACILITY R/FS INVESTIGATION

H&A FILE NO. 70014-054

LOCATION ROCHESTER, NEW YORK

PROJECT MGR. T. WELLS

CLIENT DELPHI AUTOMOTIVE SYSTEMS

FIELD REP. S. AMROZOWICZ

CONTRACTOR NOTHNAGLE DRILLING

DATE INSTALLED 1/12/2002

DRILLER S. LORANTY

WATER LEVEL

Ground El. 516.85 ft
El. Datum NGVD

Location 12'N and 15'W of Column DD-33

☒ Guard Pipe☐ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL	Type of protective cover/lock	Roadway Box
CONCRETE 1.0 FT.	CEMENT 1.0 FT.	Height of top of roadway box above ground surface	Flush ft
OVERBURDEN SOILS	CEMENT BENTONITE GROUT 3.0 FT.	Depth of top of riser pipe below ground surface	0.2 ft
		Type of protective casing	Roadway Box
		Length	1.0 ft
		Inside Diameter	8.0 in
		Depth of bottom of roadway box	1.0 ft
	BENTONITE 5.0 FT.	Type of Seals	Top of Seal (ft)
		Concrete	0.0
		Bentonite Seal	1.0
		Bentonite Grout	3.0
		Quartz Sand	5.0
		Type of riser pipe	Stainless Steel
		Inside diameter of riser pipe	2.0 in
		Type of backfill around riser	Bentonite/Bentonite Grout
		Diameter of borehole	8.0 in
		Depth to top of well screen	7.0 ft
		Depth to top of bedrock	NA ft
		Type of well screen	Continuous-wrap Stainless Steel
		Diameter of well screen	2.0 in
		Screen gauge or size of openings	0.010 in
		Type of backfill around well screen	Quartz Sand
		Depth of bottom of well screen	12.0 ft
		Depth of bottom of borehole	12.0 ft

(Numbers refer to depth from ground surface in feet)

(Not to Scale)

12.0 (Bottom of Exploration)

(Numbers refer to depth from ground surface in feet)

6.8 ft + 5 ft + ft = 11.8 ft

Riser Pay Length (L1) Length of screen (L2) Length of silt trap (L3) Pay length

COMMENTS:

BEDROCK OBSERVATION WELL INSTALLATION REPORT

 Well No.
SR-316
Boring No.
SR-316

PROJECT	LEXINGTON AVE. FACILITY R/F'S INVESTIGATION	H&A FILE NO.	70014-054
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	T. WELLS
CLIENT	DELPHI AUTOMOTIVE SYSTEMS	FIELD REP.	S. AMROZOWICZ
CONTRACTOR	NOTHNAGLE DRILLING	DATE INSTALLED	1/12/2002
DRILLER	S. LORANTY	WATER LEVEL	

Ground El.	516.85	ft	Location	11'N and 9'W of Column DD-33	☐ Guard Pipe
El. Datum	NGVD				☒ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL																	
CONCRETE 1.0 FT.	CEMENT 1.0 FT.	Type of protective cover/lock Height of top of roadway box above ground surface Depth of top of riser pipe below ground surface Type of protective casing Length Inside Diameter Depth of bottom of roadway box	Roadway Box Flush 0.2 Roadway Box 1.0 8.0 1.0															
OVERBURDEN SOILS	CEMENT BENTONITE GROUT 14.0 FT.	L1 	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type of Seals</th> <th>Top of Seal (ft)</th> <th>Thickness (ft)</th> </tr> </thead> <tbody> <tr><td>Concrete</td><td>0.0</td><td>1.0</td></tr> <tr><td>Cement Grout</td><td>1.0</td><td>13.0</td></tr> <tr><td>Bentonite</td><td>14.0</td><td>2.0</td></tr> <tr><td>Quartz Sand</td><td>16.0</td><td>11.0</td></tr> </tbody> </table>	Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0.0	1.0	Cement Grout	1.0	13.0	Bentonite	14.0	2.0	Quartz Sand	16.0	11.0
	Type of Seals		Top of Seal (ft)	Thickness (ft)														
Concrete	0.0	1.0																
Cement Grout	1.0	13.0																
Bentonite	14.0	2.0																
Quartz Sand	16.0	11.0																
16.0 FT.	BENTONITE 16.0 FT.	Type of riser pipe Inside diameter of riser pipe Type of backfill around riser Diameter of borehole Depth to top of well screen Depth to the top of bedrock	Stainless Steel 2.0 Bentonite/Cement Grout 8.0 17.0 16.0															
ROCHESTER SHALE	QUARTZ SAND 27.0	L2 	Type of core interval Diameter of core interval Type of well screen Diameter of well screen Screen gauge or size of openings Type of backfill around well screen	Tri-cone-bit-reamed NX Core 6.0 Continuous-wrap Stainless Steel 2.0 0.010 Quartz Sand														
			Depth of bottom of well screen Depth of bottom of borehole	27.0 27.0														

 (Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

16.8	ft	+	10.0	ft	+	ft	=	26.8	ft	
Riser Pay Length (L1)			Length of screen (L2)			Length of silt trap (L3)			Pay length	

COMMENTS: Rocked out 26.0 to 27.0 ft.

OVERBURDEN OBSERVATION WELL INSTALLATION REPORT

Well No.
OW-317
Boring No.
OW-317

PROJECT	LEXINGTON AVE. FACILITY RI/FS INVESTIGATION	H&A FILE NO.	70014-054
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	T. WELLS
CLIENT	DELPHI AUTOMOTIVE SYSTEMS	FIELD REP.	S. AMROZOWICZ
CONTRACTOR	NOTHNAGLE DRILLING	DATE INSTALLED	1/6/2002
DRILLER	S. LORANTY	WATER LEVEL	

Ground El.	516.85 ft	Location	12'S and 8'W of Column GG-39	☐ Guard Pipe
El. Datum	NGVD			☒ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL	Type of protective cover/lock		Roadway Box															
CONCRETE 0.6 FT.	CEMENT 1.0 FT.	Height of top of roadway box above ground surface	Flush	ft															
OVERBURDEN SOILS	BENTONITE 3.0 FT.	Depth of top of riser pipe below ground surface	0.2	ft															
		Type of protective casing	Roadway Box																
		Length	1.0	ft															
		Inside Diameter	6.0	in															
		Depth of bottom of roadway box	1.0	ft															
	<table border="1"> <thead> <tr> <th>Type of Seals</th> <th>Top of Seal (ft)</th> <th>Thickness (ft)</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td>0.0</td> <td>1.0</td> </tr> <tr> <td>Bentonite Seal</td> <td>1.0</td> <td>2.0</td> </tr> <tr> <td>Bentonite Grout</td> <td>--</td> <td>--</td> </tr> <tr> <td>Quartz Sand</td> <td>3.0</td> <td>12.0</td> </tr> </tbody> </table>		Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0.0	1.0	Bentonite Seal	1.0	2.0	Bentonite Grout	--	--	Quartz Sand	3.0	12.0		
	Type of Seals	Top of Seal (ft)	Thickness (ft)																
	Concrete	0.0	1.0																
	Bentonite Seal	1.0	2.0																
	Bentonite Grout	--	--																
Quartz Sand	3.0	12.0																	
	Type of riser pipe	Stainless Steel																	
	Inside diameter of riser pipe	2.0	in																
	Type of backfill around riser	Bentonite																	
	Diameter of borehole	8.0	in																
	Depth to top of well screen	5.0	ft																
	Depth to top of bedrock	NA	ft																
	Type of well screen	Continuous-wrap Stainless Steel																	
	Diameter of well screen	2.0	in																
	Screen gauge or size of openings	0.010	in																
	Type of backfill around well screen	Quartz Sand																	
	Depth of bottom of well screen	15.0	ft																
	Depth of bottom of borehole	15.0	ft																

(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

4.8	+	10	ft	+		ft	=	14.8	ft
Riser Pay Length (L1)		Length of screen (L2)		Length of silt trap (L3)		Pay length			

COMMENTS:

BEDROCK OBSERVATION WELL INSTALLATION REPORT

Well No.

SR-317

Boring No.

SR-317

PROJECT LEXINGTON AVE. FACILITY RI/FS INVESTIGATION

H&A FILE NO. 70014-054

LOCATION ROCHESTER, NEW YORK

PROJECT MGR. T. WELLS

CLIENT DELPHI AUTOMOTIVE SYSTEMS

FIELD REP. S. AMROZOWICZ

CONTRACTOR NOTHNAGLE DRILLING

DATE INSTALLED 1/6/2002

DRILLER S. LORANTY

WATER LEVEL

Ground El. 516.85 ft

Location 12'S and 13'W of Column GG-39

El. Datum NGVD

☐ Guard Pipe☒ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL	Diagram Labels	Measurements													
CONCRETE 0.6 FT.	CEMENT 1.0 FT.	Type of protective cover/lock	Roadway Box													
OVERBURDEN SOILS	CEMENT BENTONITE GROUT 17.0 FT.	Height of top of roadway box above ground surface	Flush ft													
		Depth of top of riser pipe below ground surface	0.2 ft													
		Type of protective casing	Roadway Box													
		Length	1.0 ft													
		Inside Diameter	8.0 in													
18.5 FT.	BENTONITE 19.0 FT.	Depth of bottom of roadway box	1.0 ft													
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type of Seals</th> <th>Top of Seal (ft)</th> <th>Thickness (ft)</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td>0.0</td> <td>1.0</td> </tr> <tr> <td>Cement Grout</td> <td>1.0</td> <td>16.0</td> </tr> <tr> <td>Bentonite</td> <td>17.0</td> <td>2.0</td> </tr> <tr> <td>Quartz Sand</td> <td>19.0</td> <td>11.0</td> </tr> </tbody> </table>		Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0.0	1.0	Cement Grout	1.0	16.0	Bentonite	17.0	2.0	Quartz Sand
Type of Seals	Top of Seal (ft)	Thickness (ft)														
Concrete	0.0	1.0														
Cement Grout	1.0	16.0														
Bentonite	17.0	2.0														
Quartz Sand	19.0	11.0														
ROCHESTER SHALE	QUARTZ SAND	Type of riser pipe:	Stainless Steel													
		Inside diameter of riser pipe	2.0 in													
		Type of backfill around riser	Bentonite Pellets													
		Diameter of borehole	8.0 in													
		Depth to top of well screen	20.0 ft													
		Depth to the top of bedrock:	18.5 ft													
		Type of core interval	Tri-cone-bit-reamed NX Core													
		Diameter of core interval	6.0 in													
30.0	30.0	Type of well screen	Continuous-wrap Stainless Steel													
		Diameter of well screen	2.0 in													
		Screen gauge or size of openings	0.010 in													
		Type of backfill around well screen	Quartz Sand													
		Depth of bottom of well screen	30.0 ft													
		Depth of bottom of borehole	30.0 ft													

(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

$$19.0 \text{ ft} + 11.0 \text{ ft} + \text{ft} = 30.0 \text{ ft}$$

Riser Pay Length (L1) Length of screen (L2) Length of silt trap (L3) Pay length

COMMENTS: Roller-reamed w/o coring from 26.0 to 27.0 ft.

BEDROCK OBSERVATION WELL INSTALLATION REPORT

 Well No.
SR-318

 Boring No.
SR-318

PROJECT	LEXINGTON AVE. FACILITY RI/FS INVESTIGATION	H&A FILE NO.	70014-054
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	T. WELLS
CLIENT	DELPHI AUTOMOTIVE SYSTEMS	FIELD REP.	S. AMROZOWICZ
CONTRACTOR	NOTHNAGLE DRILLING	DATE INSTALLED	12/10/2001
DRILLER	S. LORANTY	WATER LEVEL	

Ground El.	512.8	ft	Location	N - 51224.1	☒ Guard Pipe
El. Datum	NGVD			E - 57285.2	☐ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL	Diagram Labels	Values	Units														
CONCRETE 0.5 FT.	CEMENT 1.0 FT.	Type of protective cover/lock	Guard Pipe															
OVERBURDEN SOILS	BENTONITE	Height of top of guard pipe above ground surface	3.0	ft														
		Height of top of riser pipe above ground surface	2.8	ft														
		Type of protective casing	Steel															
		Length	6.0	ft														
		Inside Diameter	4.0	in														
		Depth of bottom of guard pipe	3.0	ft														
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type of Seals</th> <th>Top of Seal (ft)</th> <th>Thickness (ft)</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td>0.0</td> <td>1.0</td> </tr> <tr> <td>Cement Grout</td> <td>--</td> <td>--</td> </tr> <tr> <td>Bentonite</td> <td>1.0</td> <td>14.0</td> </tr> <tr> <td>Quartz Sand</td> <td>15.0</td> <td>12.0</td> </tr> </tbody> </table>				Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0.0	1.0	Cement Grout	--	--	Bentonite	1.0	14.0	Quartz Sand
Type of Seals	Top of Seal (ft)	Thickness (ft)																
Concrete	0.0	1.0																
Cement Grout	--	--																
Bentonite	1.0	14.0																
Quartz Sand	15.0	12.0																
	15.0 FT.	Type of riser pipe	Stainless Steel															
		Inside diameter of riser pipe	2.0	in														
		Type of backfill around riser	Bentonite															
WEATHERED BEDROCK 20.0 FT.	QUARTZ SAND	Diameter of borehole	8.0	in														
		Depth to top of well screen	17.0	ft														
		Depth to the top of bedrock	20.0	ft														
		Type of core interval	Tri-cone-bit-reamed NX Core															
		Diameter of core interval	6.0	in														
		Type of well screen	Continuous-wrap Stainless Steel															
		Diameter of well screen	2.0	in														
		Screen gauge or size of openings	0.010	in														
		Type of backfill around well screen	Quartz Sand															
		Depth of bottom of well screen	27.0	ft														
		Depth of bottom of borehole	27.0	ft														

 (Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

23.0	ft	+	7.0	ft	+	ft	=	30.0	ft
Riser Pay Length (L1)			Length of screen (L2)			Length of silt trap (L3)		Pay length	

COMMENTS: Rocked out 26.0 to 27.0 ft.

BEDROCK OBSERVATION WELL INSTALLATION REPORT

 Well No.
SR-319
Boring No.
SR-319

PROJECT	LEXINGTON AVE. FACILITY RI/FS INVESTIGATION	H&A FILE NO.	70014-054
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	T. WELLS
CLIENT	DELPHI AUTOMOTIVE SYSTEMS	FIELD REP.	S. AMROZOWICZ
CONTRACTOR	NOTHNAGLE DRILLING	DATE INSTALLED	1/21/2002
DRILLER	S. LORANTY	WATER LEVEL	

Ground El.	516.85 ft	Location	14'S and 12'W of Column MM-37	☐ Guard Pipe
El. Datum	NGVD			☒ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL	Type of protective cover/lock	Roadway Box															
CONCRETE 0.8 FT.	CEMENT 1.0 FT.	Height of top of roadway box above ground surface _____ ft Depth of top of riser pipe below ground surface _____ ft	Type of protective casing _____ Length _____ ft Inside Diameter _____ in Depth of bottom of roadway box _____ ft															
OVERBURDEN SOILS	BENTONITE		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type of Seals</th> <th>Top of Seal (ft)</th> <th>Thickness (ft)</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td>0.0</td> <td>1.0</td> </tr> <tr> <td>Cement Grout</td> <td>--</td> <td>--</td> </tr> <tr> <td>Bentonite</td> <td>1.0</td> <td>13.5</td> </tr> <tr> <td>Quartz Sand</td> <td>14.5</td> <td>12.0</td> </tr> </tbody> </table>	Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0.0	1.0	Cement Grout	--	--	Bentonite	1.0	13.5	Quartz Sand	14.5	12.0
Type of Seals	Top of Seal (ft)	Thickness (ft)																
Concrete	0.0	1.0																
Cement Grout	--	--																
Bentonite	1.0	13.5																
Quartz Sand	14.5	12.0																
	14.5 FT.	Type of riser pipe _____ Inside diameter of riser pipe _____ in Type of backfill around riser _____	Stainless Steel _____ in															
		Diameter of borehole _____ in	_____ in															
WEATHERED BEDROCK	QUARTZ SAND	Depth to top of well screen _____ ft Depth to top of bedrock _____ ft	_____ ft _____ ft															
		Type of core interval _____ Diameter of core interval _____ in	Tri-cone-bit-reamed NX Core _____ in															
		Type of well screen _____ Diameter of well screen _____ in Screen gauge or size of openings _____ in Type of backfill around well screen _____	Continuous-wrap Stainless Steel _____ in _____ in															
ROCHESTER SHALE		Depth of bottom of well screen _____ ft Depth of bottom of borehole _____ ft	_____ ft _____ ft															
26.5	26.5																	
(Bottom of Exploration)		(Not to Scale)																
(Numbers refer to depth from ground surface in feet)																		

19.3 ft	+	7.0 ft	+	ft	=	26.3 ft
Riser Pay Length (L1)		Length of screen (L2)		Length of silt trap (L3)		Pay length

COMMENTS: Rocked out 26.0 to 27.0 ft.

BEDROCK OBSERVATION WELL INSTALLATION REPORT

Well No.
SR-320
Boring No.
SR-320

PROJECT	LEXINGTON AVE. FACILITY RI/FS INVESTIGATION	H&A FILE NO.	70014-054
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	T. WELLS
CLIENT	DELPHI AUTOMOTIVE SYSTEMS	FIELD REP.	S. AMROZOWICZ
CONTRACTOR	NOTHNAGLE DRILLING	DATE INSTALLED	1/22/2002
DRILLER	S. LORANTY	WATER LEVEL	

Ground El.	516.85 ft	Location	4'N and 11'E of Column RR-33	☐ Guard Pipe
El. Datum	NGVD			☒ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL	Diagram Labels	Measurements															
CONCRETE 0.7 FT.	CEMENT 1.0 FT.	Type of protective cover/lock	Roadway Box															
OVERBURDEN SOILS	BENTONITE	Height of top of roadway box above ground surface	Flush ft															
		Depth of top of riser pipe below ground surface	0.2 ft															
		Type of protective casing	Roadway Box															
		Length	1.0 ft															
		Inside Diameter	8.0 in															
		Depth of bottom of roadway box	1.0 ft															
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type of Seals</th> <th>Top of Seal (ft)</th> <th>Thickness (ft)</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td>0.0</td> <td>1.0</td> </tr> <tr> <td>Cement Grout</td> <td>--</td> <td>--</td> </tr> <tr> <td>Bentonite</td> <td>1.0</td> <td>11.0</td> </tr> <tr> <td>Quartz Sand</td> <td>12.0</td> <td>12.0</td> </tr> </tbody> </table>		Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0.0	1.0	Cement Grout	--	--	Bentonite	1.0	11.0	Quartz Sand	12.0	12.0
Type of Seals	Top of Seal (ft)	Thickness (ft)																
Concrete	0.0	1.0																
Cement Grout	--	--																
Bentonite	1.0	11.0																
Quartz Sand	12.0	12.0																
	12.0 FT.	Type of riser pipe	Stainless Steel															
		Inside diameter of riser pipe	2.0 in															
		Type of backfill around riser	Bentonite															
		Diameter of borehole	8.0 in															
15.6 FT.		Depth to top of well screen	14.0 ft															
WEATHERED BEDROCK	QUARTZ SAND	Depth to the top of bedrock	16.0 ft															
16.0 FT.		Type of core interval	Tri-cone-bit-reamed NX Core															
		Diameter of core interval	6.0 in															
		Type of well screen	Continuous-wrap Stainless Steel															
		Diameter of well screen	2.0 in															
		Screen gauge or size of openings	0.010 in															
		Type of backfill around well screen	Quartz Sand															
		Depth of bottom of well screen	24.0 ft															
		Depth of bottom of borehole	24.0 ft															
24.0	24.0	(Bottom of Exploration)																

(Numbers refer to depth from ground surface in feet)

(Not to Scale)

15.8 ft	+ 8.0 ft	+ 0.0 ft	= 23.8 ft
Riser Pay Length (L1)	Length of screen (L2)	Length of silt trap (L3)	Pay length

COMMENTS: Rocked out 26.0 to 27.0 ft.

BEROCK OBSERVATION WELL INSTALLATION REPORT

Well No.

SR-321

Boring No.

SR-321

PROJECT LEXINGTON AVE. FACILITY RI/FS INVESTIGATION

H&A FILE NO. 70014-054

LOCATION ROCHESTER, NEW YORK

PROJECT MGR. T. WELLS

CLIENT DELPHI AUTOMOTIVE SYSTEMS

FIELD REP. S. AMROZOWICZ

CONTRACTOR NOTHNAGLE DRILLING

DATE INSTALLED 12/29/2001

DRILLER S. LORANTY

WATER LEVEL

Ground El. 516.85 ft
El. Datum NGVD

Location 13'N and 16'E of Column SS-39

☐ Guard Pipe☒ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL	Type of protective cover/lock	Roadway Box															
CONCRETE 0.6 FT.	CEMENT 1.0 FT.	Height of top of roadway box above ground surface	Flush ft															
FILL	BENTONITE CEMENT GROUT 12.5 FT.	Depth of top of riser pipe below ground surface	0.2 ft															
		Type of protective casing	Roadway Box															
		Length	1.0 ft															
		Inside Diameter	8.0 in															
		Depth of bottom of roadway box	1.0 ft															
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type of Seals</th> <th>Top of Seal (ft)</th> <th>Thickness (ft)</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td>0.0</td> <td>1.0</td> </tr> <tr> <td>Cement Grout</td> <td>1.0</td> <td>11.5</td> </tr> <tr> <td>Bentonite</td> <td>12.5</td> <td>2.0</td> </tr> <tr> <td>Quartz Sand</td> <td>14.5</td> <td>12.0</td> </tr> </tbody> </table>		Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0.0	1.0	Cement Grout	1.0	11.5	Bentonite	12.5	2.0	Quartz Sand	14.5	12.0
Type of Seals	Top of Seal (ft)	Thickness (ft)																
Concrete	0.0	1.0																
Cement Grout	1.0	11.5																
Bentonite	12.5	2.0																
Quartz Sand	14.5	12.0																
	BENTONITE 14.5 FT.	Type of riser pipe	Stainless Steel															
		Inside diameter of riser pipe	2.0 in															
		Type of backfill around riser	Bentonite/Cement Grout															
		Diameter of borehole	8.0 in															
WEATHERED ROCK 19.5 FT.	QUARTZ SAND 26.5	Depth to top of well screen	16.5 ft															
		Depth to the top of bedrock	19.5 ft															
		Type of core interval	Tri-cone-bit-reamed NX Core															
		Diameter of core interval	4.0 in															
BEDROCK		Type of well screen	Continuous-wrap Stainless Steel															
		Diameter of well screen	2.0 in															
		Screen gauge or size of openings	0.010 in															
		Type of backfill around well screen	Quartz Sand															
		Depth of bottom of well screen	26.5 ft															
		Depth of bottom of borehole	26.5 ft															

(Bottom of Exploration) (Numbers refer to depth from ground surface in feet) (Not to Scale)

$$19.5 \text{ ft} + 7.0 \text{ ft} + \text{ft} = 26.5 \text{ ft}$$

Riser Pay Length (L1) Length of screen (L2) Length of silt trap (L3) Pay length

COMMENTS: Rocked out 26.0 to 27.0 ft.

OVERBURDEN OBSERVATION WELL INSTALLATION REPORT

Well No.

OW-322

Boring No.

OW-322

PROJECT LEXINGTON AVE. FACILITY RI/FS INVESTIGATION

H&A FILE NO. 70014-054

LOCATION ROCHESTER, NEW YORK

PROJECT MGR. T. WELLS

CLIENT DELPHI AUTOMOTIVE SYSTEMS

FIELD REP. S. AMROZOWICZ

CONTRACTOR NOTHNAGLE DRILLING

DATE INSTALLED 12/19/2001

DRILLER S. LORANTY

WATER LEVEL

Ground El. 511.3 ft
El. Datum NGVDLocation N - 51479.6
E - 57748.8☒ Guard Pipe
☐ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL	Type of protective cover/lock		Locking Steel Guard Pipe
PAVEMENT 0.5 FT.	CEMENT 1.0 FT.	Height of top of guard pipe above ground surface	3.0	ft
OVERBURDEN SOILS	BENTONITE	Height of top of riser pipe above ground surface	2.8	ft
		Type of protective casing	Steel Guard Pipe	
		Length	5.0	ft
		Inside Diameter	6.0	in
		Depth of bottom of guard pipe	2.0	ft
		Type of Seals	Top of Seal (ft)	Thickness (ft)
		Concrete	0.0	1.0
		Cement Grout	--	--
		Bentonite Seal	1.0	5.0
		Quartz Sand	6.0	12.0
		Type of riser pipe	Stainless Steel	
		Inside diameter of riser pipe	2.0	in
		Type of backfill around riser	Bentonite	
		Diameter of borehole	8.0	in
		Depth to top of well screen	8.0	ft
		Depth to the top of bedrock	NA	ft
		Type of well screen	Continuous-wrap Stainless Steel	
		Diameter of well screen	2.0	in
		Screen gauge or size of openings	0.010	in
		Type of backfill around well screen	Quartz Sand	
		Depth of bottom of well screen	18.0	ft
		Depth of bottom of borehole	18.0	ft

(Bottom of Exploration) (Numbers refer to depth from ground surface in feet) (Not to Scale)

$$10.8 \text{ ft} + 10.0 \text{ ft} + \text{ft} = 20.8 \text{ ft}$$

Riser Pay Length (L1) Length of screen (L2) Length of silt trap (L3) Pay length

COMMENTS: Rocked out 26.0 to 27.0 ft.

OBSERVATION WELL
INSTALLATION REPORTWell No.
OW-323
Boring No.
USTB-1/OW-323

PROJECT	LEXINGTON AVENUE FACILITY RI/FS	H&A FILE NO.	70014-054
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	T. WELLS
CLIENT	DELPHI CORPORATION	FIELD REP.	S. AMROZOWICZ
CONTRACTOR	NOTHNAGLE DRILLING	DATE INSTALLED	10/24/2002
DRILLER	S. LORANTY	WATER LEVEL	

Ground El.	510.7 ft	Location	N - 50414.7	☐ Guard Pipe
El. Datum	NGVD		E - 58248.0	☒ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL	Type of protective cover/lock		Bolted Steel Cover	
PAVEMENT 0.6 FT.	CONCRETE	Height/Depth of top of guard pipe/roadway box above/below ground surface	Flush		
OVERBURDEN SOILS		Depth of top of riser pipe below ground surface	0.2 ft		
		Type of protective casing:	Roadway Box		
		Length	1.0 ft		
		Inside Diameter	8.0 in		
		Depth of bottom of guard pipe	N/A ft		
	1.0 FT.	Type of Seals		Top of Seal (ft)	Thickness (ft)
		Concrete		0.0	1.0
		Bentonite Seal		1.0	2.0
		Quartz Sand		3.0	12.0
	BENTONITE SEAL 3.0 FT.	Type of riser pipe:	PVC		
		Inside diameter of riser pipe	2.0 in		
		Type of backfill around riser	See Above		
		Diameter of borehole	8.0 in		
		Depth to top of well screen	5.0 ft		
	#00N QUARTZ SAND	Type of screen	Factory Slotted PVC		
		Screen gauge or size of openings	0.010 in		
		Diameter of screen	2.0 in		
		Type of backfill around screen	#00N Quartz Sand		
		Depth of bottom of well screen	15.0 ft		
		Bottom of Silt trap	15.0 ft		
		Depth of bottom of borehole	15.0 ft		

(Numbers refer to depth from ground surface in feet) (Not to Scale)

Riser Pay Length (L1)	ft	+	ft	+	ft	=	ft
			Length of screen (L2)		Length of silt trap (L3)		Pay length

COMMENTS:

OBSERVATION WELL INSTALLATION REPORT

 Well No.
OW-324
Boring No.
OW-324

PROJECT	LEXINGTON AVENUE FACILITY RI/FS	H&A FILE NO.	70014-054
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	T. WELLS
CLIENT	DELPHI CORPORATION	FIELD REP.	S. AMROZOWICZ
CONTRACTOR	NOTHNAGLE DRILLING	DATE INSTALLED	10/25/2002
DRILLER	S. LORANTY	WATER LEVEL	

Ground El.	513.0	ft	Location	N - 51158.6	☒ Guard Pipe
El. Datum	NGVD			E - 57744.9	☐ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL	Type of protective cover/lock	Locking Protective Cap
OVERBURDEN SOILS	CONCRETE	Height of top of guard pipe above ground surface 2.8 ft Height of top of riser pipe above ground surface 2.5 ft Type of protective casing: Steel Length 5.0 ft Inside Diameter 4.0 in Depth of bottom of guard pipe 2.2 ft	
	2.0 FT.		
	BENTONITE SEAL	Type of seals Concrete 0.0 2.0 Bentonite Seal 2.0 2.0 Quartz Sand 4.0 12.0	
	4.0 FT.	Type of riser pipe: PVC Inside diameter of riser pipe 2.0 in Type of backfill around riser See Above	
	#00N QUARTZ SAND	Diameter of borehole 8.0 in Depth to top of well screen 6.0 ft Type of screen Factory-Slotted PVC Screen gauge or size of openings 0.010 in Diameter of screen 2.0 in Type of backfill around screen #00N Quartz Sand	
WEATHERED BEDROCK		Depth of bottom of well screen 16.0 ft Bottom of Silt trap 16.0 ft Depth of bottom of borehole 19.0 ft	

(Bottom of Exploration)
(Not to Scale)

8.5	ft	+	10	ft	+	0	ft	=	18.5	ft
Riser Pay Length (L1)			Length of screen (L2)			Length of silt trap (L3)			Pay length	

COMMENTS: Well filled with native soil cuttings/backfill from 19.0 to 16.0 feet.

BEDROCK OBSERVATION WELL INSTALLATION REPORT

Well No.

SR-325

Boring No.

SR-325

PROJECT LEXINGTON AVENUE FACILITY RI/FS

H&A FILE NO. 70014-054

LOCATION ROCHESTER, NEW YORK

PROJECT MGR. T. WELLS

CLIENT DELPHI CORPORATION

FIELD REP. M. REAY

CONTRACTOR NOTHNAGLE DRILLING

DATE INSTALLED 10/28/2002

DRILLER S. LORANTY

WATER LEVEL

Ground El. 511.7 ft

Location N - 51408.8

El. Datum NGVD

E - 57094.8

☒ Guard Pipe☐ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL	Type of protective cover/lock	Locking Protective Cap															
BLACKTOP FILL FLOOR 2.0 FT.	CEMENT 1.0 FT.	Height of top of guard pipe above ground surface	2.8 ft															
		Height of top of riser pipe above ground surface	2.5 ft															
OVERBURDEN SOILS 21.5 FT.	CEMENT GROUT 20.0 FT.	Type of protective casing: Length	Steel 5.0 ft															
		Inside Diameter	4.0 in															
ROCHESTER SHALE 30.0	BENTONITE SEAL 22.0 FT.	Depth of bottom of guard pipe	2.2 ft															
	#00N QUARTZ SAND																	
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type of Seals</th> <th>Top of Seal (ft)</th> <th>Thickness (ft)</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td>0.0</td> <td>1.0</td> </tr> <tr> <td>Cement Grout</td> <td>19.0</td> <td>1.0</td> </tr> <tr> <td>Bentonite</td> <td>20.0</td> <td>2.0</td> </tr> <tr> <td>Silica Quartz Sand</td> <td>22.5</td> <td>1.0</td> </tr> </tbody> </table>	Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0.0	1.0	Cement Grout	19.0	1.0	Bentonite	20.0	2.0	Silica Quartz Sand	22.5	1.0	
Type of Seals	Top of Seal (ft)	Thickness (ft)																
Concrete	0.0	1.0																
Cement Grout	19.0	1.0																
Bentonite	20.0	2.0																
Silica Quartz Sand	22.5	1.0																
		Depth to the top of bedrock	21.5 ft															
		Type of riser pipe: Inside diameter of riser pipe	PVC 2.0 in															
		Type of backfill around riser	See Above															
		Diameter of borehole	8.0 in															
		Depth to top of well screen	23.0 ft															
		Type of screen Screen gauge or size of openings	Factory-Slotted PVC 0.010 in															
		Diameter of screen	2.0 in															
		Type of backfill around screen	#00N Quartz Sand															
		Diameter of bedrock corehole	6.0 in															
		Depth of bottom of well screen	30.0 ft															
		Bottom of Silt trap	30.0 ft															
		Depth of bottom of borehole	30.0 ft															

(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

$$25.5 \text{ ft} + 7 \text{ ft} + 0 \text{ ft} = 32.5 \text{ ft}$$

Riser Pay Length (L1) Length of screen (L2) Length of silt trap (L3) Pay length

COMMENTS:

BEDROCK OBSERVATION WELL INSTALLATION REPORT

 Well No.
SR-326
 Boring No.
SR-326

PROJECT	LEXINGTON AVE. FACILITY RI/FS	H&A FILE NO.	70014-054
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	T. WELLS
CLIENT	DELPHI CORPORATION	FIELD REP.	D. NOSTRANT
CONTRACTOR	NOTHNAGLE DRILLING INC.	DATE INSTALLED	12/26/2002
DRILLER	S. LORANTY	WATER LEVEL	

Ground El.	516.85	ft	Location	15°N and 15°E of Col. J-35	
El. Datum	NGVD				☐ Guard Pipe ☒ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL		Type of protective cover/lock	Bolted Steel / Padlock	
FILL	CONCRETE	1.0 FT.	Height of top of roadway box above ground surface	0.0 ft	
			Depth of top of riser pipe below ground surface	0.3 ft	
6.5 FT.	CEMENT GROUT	13.5 FT.	Type of protective casing:	Flushmount Roadway Box	
			Length	1.0 ft	
		16.5 FT.	Inside Diameter	8.0 in	
			Depth of bottom of roadway box	1.0 ft	
NATIVE SOILS	BENTONITE PELLETS	17.5 FT.	Type of seals		
			Concrete	0.0	1.0
		27.5	Bentonite Seal	1.0	12.5
			Bentonite Grout	13.5	3.0
ROCHESTER SHALE	#00N QUARTZ SAND	27.5	Type of riser pipe:	Stainless Steel	
			Inside diameter of riser pipe	2.0 in	
			Type of backfill around riser	Bentonite/Grout	
			Diameter of overburden borehole	8.0 in	
			Depth to top of bedrock	17.5 ft	
			Depth to top of well screen	17.5 ft	
			Type of core interval	Tri-cone bit reamed	
			Diameter of bedrock corehole	4.0 in	
			Type of backfill around well screen	#00N Quartz Sand	
			Type of well screen	Continuous-wound Stainless Steel	
			Diameter of well screen	2.0 in	
			Screen gauge or size of openings	0.010 in	
			Depth of bottom of well screen	27.5 ft	
			Depth of bottom of borehole	27.5 ft	

(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

ft	+	ft	+	ft	=	ft
Riser Pay Length (L1)		Length of screen (L2)		Length of silt trap (L3)		Pay length

COMMENTS:

OBSERVATION WELL INSTALLATION REPORT

Well No.
OW-327
Boring No.
STB-37

PROJECT	LEXINGTON AVENUE FACILITY RI/FS	H&A FILE NO.	70014-054
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	T. WELLS
CLIENT	DELPHI CORPORATION	FIELD REP.	D. NOSTRANT
CONTRACTOR	NOTHNAGLE DRILLING	DATE INSTALLED	12/23/2002
DRILLER	S. LORANTY	WATER LEVEL	

Ground El.	516.76	ft	Location	8'N and 15'W of Col. T-37	☐ Guard Pipe
El. Datum	NGVD				☒ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL											
FILL 4.7 FT.	CONCRETE 1.0 FT.	Type of protective cover/lock	Aluminum Lockable Riser Cap									
	OVERBURDEN SOILS 5.0 FT.	BENTONITE PELLETS	Height of top of roadway box above ground surface	0.0 ft								
#00N QUARTZ SAND		Depth of top of riser pipe below ground surface	0.3 ft									
		Type of protective casing:	Flushmount Roadbox									
		Length	1.0 ft									
		Inside Diameter	8.0 in									
		Depth of bottom of roadway box	1.0 ft									
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type of Seals</th> <th>Top of Seal (ft)</th> <th>Thickness (ft)</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td style="text-align: center;">0.0</td> <td style="text-align: center;">1.0</td> </tr> <tr> <td>Bentonite Seal</td> <td style="text-align: center;">1.0</td> <td style="text-align: center;">4.0</td> </tr> </tbody> </table>		Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0.0	1.0	Bentonite Seal	1.0	4.0
Type of Seals	Top of Seal (ft)	Thickness (ft)										
Concrete	0.0	1.0										
Bentonite Seal	1.0	4.0										
		Type of riser pipe:	Stainless Steel									
		Inside diameter of riser pipe	2.0 in									
		Type of backfill around riser	Bentonite / Concrete									
		Diameter of borehole	8.0 in									
		Depth to top of well screen	7.0 ft									
		Type of screen	Continuous-wound Stainless Steel									
		Screen gauge or size of openings	0.010 in									
		Diameter of screen	2.0 in									
		Type of backfill around screen	#00N Quartz Sand									
		Depth of bottom of well screen	17.0 ft									
		Bottom of Silt trap	17.0 ft									
		Depth of bottom of borehole	18.0 ft									
17.0	17.0	(Bottom of Exploration) (Numbers refer to depth from ground surface in feet)										

$\text{ft} + \text{ft} + \text{ft} = \text{ft}$ Riser Pay Length (L1) Length of screen (L2) Length of silt trap (L3) Pay length	(Not to Scale)
COMMENTS:	

OBSERVATION WELL
INSTALLATION REPORT

Well No.

OW-328

Boring No.

STB-39

PROJECT LEXINGTON AVENUE FACILITY RI/FS

H&A FILE NO. 70014-054

LOCATION ROCHESTER, NEW YORK

PROJECT MGR. T. WELLS

CLIENT DELPHI CORPORATION

FIELD REP. S. AMROZOWICZ

CONTRACTOR NOTHNAGLE DRILLING, INC.

DATE INSTALLED 12/23/2002

DRILLER J. STOCKHOLM

WATER LEVEL

Ground El. 516.85 ft

Location 20'S and 4'W of Col. B-33

El. Datum NGVD

☐ Guard Pipe☒ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL	Type of protective cover/lock		Roadway Box
CONCRETE 0.9 FT.		Height of top of roadway box above ground surface	0.0	ft
	CONCRETE	Depth of top of riser pipe below ground surface	0.2	ft
		Type of protective casing:	None	
		Length	--	ft
		Inside Diameter	--	in
		Depth of bottom of guard pipe/roadway box	--	ft
	2.0 FT.			
OVERBURDEN SOILS	BENTONITE	Type of Seals	Top of Seal (ft)	Thickness (ft)
		Concrete	0.0	2.0
		Bentonite Seal	2.0	2.5
		Sand	4.5	11.0
		Type of riser pipe:	PVC	
		Inside diameter of riser pipe	1.0	in
		Type of backfill around riser	Quartz Sand	
	4.5 FT.	Diameter of borehole	3.0	in
		Depth to top of well screen	5.5	ft
	#00N QUARTZ SAND	Type of screen	Factory-Slotted PVC	
		Screen gauge or size of openings	0.010	in
		Diameter of screen	1.0	in
		Type of backfill around screen	#00N Quartz Sand	
	15.5 FT.	Depth of bottom of well screen	15.4	ft
	COLLAPSE	Bottom of Silt trap	15.5	ft
		Depth of bottom of borehole	15.9	ft
15.9	15.9			

(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

$$15.5 \text{ ft} + 9.9 \text{ ft} + 0.1 \text{ ft} = 15.5 \text{ ft}$$

Riser Pay Length (L1) Length of screen (L2) Length of silt trap (L3) Pay length

COMMENTS:

APPENDIX D

Water Level Measurement Forms and Well Sampling Records

**HALEY &
ALDRICH****Project Name: Delphi Lex. Ave. RI/FS****File Number: 70014-054****Name: Mike Beikirch****Date: December 26, 2002**

Well ID	DTW	Comments
OW-327	14.32	DTP=12.87'. DTB=Not Measured (17.0' as-installed).

General Comments: All measurements in feet taken from top of outermost casing.

**HALEY &
ALDRICH****Project Name: Delphi Lex. Ave. RI/FS****File Number: 70014-054****Name: Mike Beikirch****Date: January 14, 2003**

Well ID	DTW	Comments
R-302	Not Measured	DTB=Not Measured (36' as-installed)
R-305	~20-25 ft.	DTB=Not Measured (28.5 as-installed); oil noted on probe, readings approximate. DTP=~20-25'.
R-306	29.45	DTB=37.2

General Comments: All measurements in feet taken from top of outermost casing.

GROUNDWATER LEVEL MONITORING REPORT

GROUND/TOP OF CASING ELEVATION:

FILE NO.
PAGE NO.

[illegible]

11618 Cotton Road
Meadville, PA 16335
phone 814-724-6242 fax 814-333-1466

Free-Col Laboratories
A Division of Modern
Industries

Fax

Company: Haley + Aldrich From: Dick Valisby
To: Mike Berkich Pages: 11
Fax: 585 359 - 4650 Date: 2/7/03
Re: Monitoring well data CC:

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

• Comments:

Mike,
Here is the corrected report for the g.w.
monitoring at Delphi 1/29 - 1/31/03. Call if you
don't receive all the pages.
Dick

Confidentiality Note:

The pages which accompany this facsimile transmission contain information from Free-Col Laboratories, which is confidential and privileged. The information is intended for the sole use of the individual or entity named on this cover sheet. If you are not the intended recipient, your use of this information is prohibited. If you have received this facsimile in error, please notify us by telephone immediately so that we can arrange for the retrieval of the documents at no cost to you.

Delphi Energy & Engine Quarterly Groundwater Monitoring

Introduction

Delphi Energy & Engine of Rochester, New York contracted Free-Col Laboratories of Meadville, Pennsylvania, to conduct groundwater monitoring well sampling for their Lexington Avenue plant.

All samples were collected and transported to Ecology and Environment, Inc., Analytical Services Center of Lancaster, New York, by Richard Valesky and Steve Clark of Free-Col Laboratories. Sampling was conducted on January 29, 30, and 31, 2003. Enclosed within is the report of the January 2003 sampling event.

Pre sampling Activities

Well Maintenance Check

Prior to the sampling event, a routine inspection of the condition of the protective casing and surface seal was performed. The protective casing was inspected for the integrity of the locking cap and the surface seal. In addition, each well was checked for any signs of damage or inadvertent entry. Observations of any irregularity were noted in the field logbook as well as the number and date.

Static Water Level Measurements

The depth of groundwater was measured with an electronic depth-indicating sounder. A Heron R2400 Oil-Water Interface Probe was used for static water level measurements. Hydrocarbon phases were measured and recorded in the field logbook. The probe was lowered in the well until the meter indicated that product or water was reached. When product (LNAPL) was indicated, the probe was slowly lowered again until water was indicated. The cable was held against the side of the well and a depth reading was taken. This procedure was followed three times or until a consistent value was obtained. The value was recorded to the nearest 0.01 foot in the field logbook. The probe was raised to the surface and together with the amount of cable that was wetted in the well, was decontaminated with a methanol wipe followed by a de-ionized water rinse.

Before leaving the well location, the volume of water in the well and the volume of the water required to purge three well volumes was calculated and entered into the field logbook (See Table I, Field Data).

Well Evacuation

The eight R and SR monitoring wells were purged using disposable polypropylene bailers. The bailer was attached to a nylon rope and the well was bailed until 3 well volumes were removed from the well or until the well was bailed dry. If a LNAPL was present, the product was sampled prior to well evacuation.

Purge water was transferred to a 55-gallon drum and transported to the Wastewater Treatment Plant of Delphi Energy & Engine for disposal.

Well Sampling

Groundwater quality samples were obtained after evacuation of the well when sufficient volume was present. Samples for volatile organic compounds were sampled first during the sampling stage. When insufficient volume for sample collection occurred after purging, the well was sampled within 24 hours of well evacuation.

A nylon rope was attached to a disposable translucent polypropylene bailer equipped with a bottom check ball. The bailer was lowered to the middle of the open interval of the well or, if little water was in the well, to within one foot of the bottom of the well and slowly to the surface. The appropriate sample vials were filled slowly to avoid sample aeration. The remaining bottles were filled followed by the field parameter tests.

Field Measurements

A portion of the groundwater collected during the sampling procedure was subjected to the field tests of temperature, specific conductance, and pH. Tests for field parameters were conducted after all sample containers were filled. Groundwater for these tests was collected in a 250 ml glass container.

Temperature was taken first and measured with a thermometer calibrated in the laboratory. The values were recorded in the field logbook. The thermometer was decontaminated between samples with a de-ionized water rinse and placed in the field carrying case for transport to other sampling locations.

The pH was measured with an Orion pH meter that was calibrated to lab standards with pH values of 4.0, 7.0, and 10.0. The clean probe was inserted into the sample container, the reading recorded in the field logbook to the nearest 0.1 pH unit and the probe rinsed with de-ionized water and inserted into its carrying case.

The specific electrical conductance was measured using a Myron L Company conductivity meter. The meter was calibrated to 1470 μ MHOS prior to sampling. The sample was placed in the meter, readings were taken and then recorded in the field logbook. The meter was decontaminated between samples with a de-ionized water rinse and placed in the field carrying case.

All meters were calibrated daily prior to sampling events. Calibration values of the pH meter and conductivity meter appear on Table III.

Equipment Decontamination

The sampling equipment (excluding the thermometer, pH and specific conductance meters) were decontaminated between sampling events using the following procedure:

1. An initial Alconox or equivalent detergent wash.
2. Clean water rinse.
3. Methanol rinse
4. De-ionized water rinse.
5. Air dry.

Decontamination wastewater was containerized and disposed with the purge water or disposed properly at the facility Wastewater Treatment Plant.

Duplicate Samples

A duplicate sample was collected at the same time and location as a field sample and collected at the frequency of one per matrix/method per day. The sample is used to assess precision including variability caused by the laboratory analysis and the sample collection procedure. A

duplicate was collected in immediate succession using identical sampling techniques, sample storage, transportation, and analysis. The duplicate was evenly split from the same bailer load and equally proportioned into each bottle for the split duplicate.

Sampling Notes

All sampling at Delphi Energy & Engine, Lexington Ave., was conducted on January 29, 30 & 31, 2003. During the sampling event, five wells were bailed dry and sampled the following day. These locations were wells: R-302, R-303, R-304, R-305, and R-306. Insufficient well volume on January 30, 2003 to fill up all the appropriate sample bottles for analyses existed in wells R-303 and R-304. An attempt to fill the remaining bottles on the following day was made for those two wells.

One well, R-305, was sampled for LNAPL. Well, R-306, indicated a thin LNAPL which was too thin to sample.

All other wells, not being required to sample, were measured for static water levels and presence of LNAPL layers. Fifty locations showed LNAPL as shown on Table IV.

All field data, purge data, and sampling data can be found on Tables I – IV, and copies of the original field logs can be furnished upon request.



TABLE I
DELPHI ENERGY & ENGINE
MONITORING WELLS FIELD DATA
1/29/03

LOCATION	TIME	DEPTH TO WATER (FT)	DEPTH TO LNAPL (F)	DEPTH TO BOTTOM OF WELL (FT)	WELL VOLUME (GAL)	FIELD REMARKS
R-302	10:55	6.55		36.0	19.3	
SR-303	10:40	10.97		15.9	0.9	
R-303	10:30	15.95		34.4	12.1	
SR-304	10:20	15.36		16.0	0.2	
R-304	10:10	17.30		30.7	8.8	
R-305	10:00	23.50	22.45	28.5	3.3	Well cap loose
R-306	9:50	30.37	30.36	34.0	2.4	Well cap loose
R-307	11:10	24.03		34.3	6.7	

TABLE II
DELPHI ENERGY & ENGINE
MONITORING WELLS PURGE DATA
1/29/03

LOCATION	START TIME	GALLONS PURGED	END TIME	WATER LEVEL AT END (FT)	APPEARANCE
R-302	15:15	33	15:35	Bailed dry	Moderately Turbid
SR-303	14:40	4	14:50	11.48	Very Turbid
R-303	14:40	13	15:00	Bailed dry	Moderately Turbid
SR-304	13:35	1	13:40	15.06	Moderately Turbid
R-304	13:35	10	14:00	Bailed dry	Clear
R-305	13:00	7	13:15	Bailed dry	Very Turbid, Oily
R-306	12:20	6	12:45	Bailed dry	Clear, No visible Product
R-307	11:20	21	11:50	24.05	Very Turbid

**TABLE III
DELPHI ENERGY & ENGINE
MONITORING WELLS SAMPLING DATA
1/29 - 1/31/03**

LOCATION	DATE	SAMPLING TIME	WATER LEVEL (FT)	APPEARANCE	TEMP (C)	pH	SPECIFIC CONDUCTANCE (µMHOS)
R-302	1/30/03	13:00	6.91	Clear	8	7.5	2080
R-302 DUP	1/30/03	13:00	6.91	Clear	8	7.5	2110
SR-303	1/29/03	15:00	11.48	Clear to slightly turbid	9	7.0	1290
R-303	1/30 - 1/31/03	12:00	32.81	Clear, ended turbid	10	8.7	5600
SR-304	1/29/03	14:00	15.36	Slightly turbid	8	6.8	3540
R-304	1/30 - 1/31/03	11:00	29.00	Clear, ended turbid	10	9.6	5400
R-305	1/30/03	10:45	22.92	Clear, with slight oil	9	6.8	1430
R-305LNAPL	1/29/03	13:00		Brown oil			
R-306	1/30/03	10:00	30.70	Clear, with slight oil	7	7.3	2540
R-307	1/29/03	11:55	24.05	Very turbid	9	7.0	5400

TABLE IV
DELPHI ENERGY & ENGINE
MONITORING WELLS FIELD DATA
1/29/03

LOCATION	DEPTH TO WATER (FT)	DEPTH TO LNAPL (FT)	FIELD REMARKS
VM-224	10.53		
VM-213	DRY		
VM-221	DRY		
SR-216	22.18	20.48	
VM-222	9.18		
VM-215	10.68		
VM-220	9.89		
VM-218	10.92	9.70	
VM-229	8.02		
VM-226	DRY		
VM-228	DRY		
VM-210	7.41		
VM-225			Could not remove well cap
VM-227	DRY		
VM-214	DRY		
VM-223	10.58	10.42	
VM-219	8.08		
SR-230	21.82	20.33	
VM-217	DRY		
VM-211	NO WATER	10.29	
VM-212	NO WATER	10.97	
VM-209	12.36		
SR-231	14.07		
PZ-142	8.79	8.78	
SR-321	NO WATER	14.38	
SR-320	17.39	17.38	
SR-319	23.75	20.33	
SR-317	18.05		
OW-317	8.86	8.50	
SR-316	21.95	12.83	
OW-316	10.95	9.50	
SR-208	11.72	10.98	
OW-328	10.67	10.62	
SR-326	21.07	20.59	
OW-327	14.95	13.34	
SR-311	22.00	10.68	
SR-310	19.15	9.50	
R-309	32.50	25.04	
SR-312	18.43	13.09	
SR-313	20.17	14.09	

TABLE IV (contd.)
DELPHI ENERGY & ENGINE
MONITORING WELLS FIELD DATA
1/30 - 1/31/03

LOCATION	DEPTH TO WATER (FT)	DEPTH TO LNAPL (FT)	FIELD REMARKS
MW-2	7.62		PHOTEC WELL
DR-103	67.98		
DR-105	27.04		No lock
DR-108	DRY		
DR-109	83.84		
DR-11	43.03		
DR-132	38.13		
DR-315	30.58		
OW-102	NO WATER	18.44	
OW-105	DRY		
OW-314	13.16		
OW-322	6.88		
OW-323	5.50		
OW-324	11.89		
OW-6	8.77		
OW-7	DRY		Need new lock (used bolt cutters)
PZ-1	8.81	7.30	
PZ-111	14.23		No lock
PZ-112	13.75		No lock
PZ-113	11.56		
PZ-114	9.61	7.00	
PZ-115	12.50		No lock
PZ-116	9.14		
PZ-117	7.48	7.38	
PZ-118	8.01		
PZ-119	8.55		
PZ-120	5.50		
PZ-121	8.72	7.32	
PZ-122	5.59	5.56	
PZ-123	11.66	9.87	
PZ-124	8.04	7.79	
PZ-125	7.87		
PZ-126	12.39		
PZ-127	6.66		
PZ-128	7.40		
PZ-129	15.39	14.82	
PZ-130	17.74	17.46	
PZ-132	11.58	11.54	
PZ-133	24.32		
PZ-134	23.78		

TABLE IV (contd.)
DELPHI ENERGY & ENGINE
MONITORING WELLS FIELD DATA
1/30 - 1/31/03

LOCATION	DEPTH TO WATER (FT)	DEPTH TO LNAPL (FT)	FIELD REMARKS
PZ-135	30.18	30.17	
PZ-136	26.23	25.97	
PZ-137	32.95	32.65	Need new lock (used bolt cutters)
PZ-138	26.37		
PZ-139	30.10	Product Film	Well cap broken
PZ-140	18.09		
PZ-141	11.40		
PZ-143	18.19		
PZ-144	17.78		Need new lock (used bolt cutters)
R-101	8.75		
R-102	39.37		Lock broken
R-103	38.17		
R-105	38.58		
R-105-R	34.86		
R-106	13.23		
R-107	27.58		
R-108	26.61		
R-109	19.96		
R-11	28.86		
R-110	22.56		
R-131	38.76		
R-132	38.72		
R-2	32.26	28.87	
R-234	28.73		
R-235	31.23	30.09	
R-236	33.10	24.63	
R-237	23.41		
R-238	23.33	22.77	
R-239	27.89		
R-240	35.26	34.39	
R-241	29.31	26.39	
R-242	24.80		
R-243	27.73	26.30	
R-244	26.97	26.35	
R-3	19.33		
R-301	9.71		
R-308	28.51		Need new lock (used bolt cutters)
R-314	39.56		
SR-101	8.85		
SR-102	22.57		

**TABLE IV (contd.)
DELPHI ENERGY & ENGINE
MONITORING WELLS FIELD DATA
1/30 - 1/31/03**

[illegible]

ENVIRONMENT

APPENDIX E

Elevation Survey Data



H&A OF NY

JAN 31 2003

RECEIVED

Engineers / Architects / Planners / Surveyors

January 30, 2003

Haley & Aldrich of New York
200 Town Centre Drive, Suite 2
Rochester, New York 14623

Attn: Mike Beikirch

Re: Delphi Lexington Avenue

Dear Mike:

Attached please find a copy of the spreadsheet showing the coordinates and elevations of the wells at the Delphi Plant. The coordinates are on an assumed coordinate system which is consistent with the previous surveys for this site. The elevations are based on the NGVD 1929 Datum, also consistent with the previous surveys on this site.

If you have any questions please contact me at 232-5137 ext. 426, our fax number is 325-8303. Thank you.

Very Truly Yours,

Bergmann Associates

Kevin M. Sullivan, P.L.S.
Survey Project Manager

200 First Federal Plaza, 28 East Main Street / Rochester, New York 14614-1909
585.232.5135 / 585.232.4652 fax

Buffalo, NY / Philadelphia, PA / Pittsburgh, PA / Hoboken, NJ / Toledo, OH / Lansing, MI / Ft. Lauderdale, FL / Jacksonville, FL

An Equal Opportunity Employer

Northing	Easting	Elevation	Well Number
49886.2	58862.2	511.72	R-307
50046.7	58746.7	516.56	R-306
50173.2	57645.8	521.43	R-308
50185.9	57568.0	520.34	SR-308
N/A	N/A	500.37	OW-6
N/A	N/A	513.94	DR-105
50414.7	58248.0	510.65	OW-323
N/A	N/A	510.83	PZ-1
50395.9	58936.6	507.39	R-305
N/A	N/A	516.76	OW-327
51129.8	58086.8	515.04	DR-132
51261.8	58544.9	496.59	SR-304
51255.3	58550.7	496.44	R-304
51112.5	57906.2	517.22	OW-314
51092.5	57892.5	517.59	R-314
51097.1	57873.8	518.20	SR-314
51158.6	57744.9	515.78	OW-324
51168.3	57635.9	516.18	DR-315
51479.6	57748.8	514.26	OW-322
51408.8	57094.8	514.53	SR-325
51335.2	57290.6	511.40	PZ-129
51224.1	57285.2	515.75	SR-318
51998.8	58060.9	494.27	R-303
52017.2	58045.7	493.98	SR-303
52606.2	57672.9	492.98	R-302
52500.8	57016.9	500.64	SR-301
52472.5	57011.1	500.86	R-301
N/A	N/A	516.93	FL.ELEV. DOCK 65