Vanasse Hangen Brustlin, Inc.

October 31, 2003

Ref: 06392.31

Mr. Patrick Van Rossem
KeySpan Corporation
One MetroTech Center
Brooklyn, NY 11201-3850

Re: Former Glenwood Landing Gas Plant Site
Groundwater Remediation Work Plan Implementation
Phase I – Geophysical Investigation & Supplemental Environmental Sampling

Dear Mr. Van Rossem:

In accordance with the New York State Department of Environmental conservation (NYSDEC) approved groundwater work plan, Vanasse Hangen Brustlin, Inc. (VHB) conducted a geophysical investigation, supplemental environmental sampling, and dye injection testing within Area 1A of the former Glenwood Landing Gas Plant site (the site), which is located on Shore Road in Glenwood Landing, New York. The site location is depicted on Figure 1. The purpose of this correspondence is to provide a summary of the field work and findings, and document our thought process for the next phase of the program.

For the purposes of the environmental work performed to date, the site has been segregated into four discrete areas, which includes Areas 1A and 1B, Area 2 and Area 3. The site is bisected by Shore Road. Areas 2 and 3 are located to the east of this roadway, while Areas 1A and 1B are located to the west of Shore Road. As indicated above, the fieldwork activities performed at the site during this phase of the work are limited to Area 1A, which is an undeveloped 3.7-acre parcel of land. Area 1A is bound by Shore Road to the east; Hempstead Harbor to the west; a marina to the south; and Area 1B to the north. This area formerly contained a propane storage tank field, that was part of KeySpan's gas storage system.

The geophysical investigation and supplemental environmental sampling was designed to further define site-specific geology/hydrogeology, and refine our understanding of the spatial distribution of subsurface volatile organic compound (VOC) impacts, primarily tetrachloroethene (PCE). As discussed in the work plan, the results of this investigation will either: (1) provide the basis for an exposure assessment; or (2) be used to refine the design of the in-situ chemical oxidation (ISCO) remedy.

The objectives of the dye injection testing were to: 1) determine the effective radius of influence propagated from the test injection point in addition to other operational and/or physical parameters required to refine the ISCO design; and, 2) determine potential concerns regarding short-circuiting of

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injectant material to the existing drywells and/or through the bulkhead fronting Hempstead Harbor during and after full-scale injection operations.

The following subsections provide a narrative summary of the fieldwork activities performed at the site during this phase of the proposed groundwater remediation activities.

Phase I Fieldwork Activities

I. Baseline Groundwater Sampling

On March 5, 6, and 7, 2003, VHB sampled nine existing groundwater monitoring wells located in Area 1A using low flow (minimal drawdown) groundwater sampling procedures. Monitoring well locations are depicted on Figure 2. The following is a summary of the sampling protocol employed:

1. Prior to sampling, depth to groundwater and total well-depth measurements were collected relative to the north side of each well casing.

2. A Well Wizard® bladder pump, manufactured by QED Environmental Systems, was set at mid-screen level in each well, and flow from each well during operation was limited to less than 1 liter per minute.

3. An integrated flow cell and water quality meter, also manufactured by QED Environmental Systems, was used to monitor and determine stability of the groundwater purged from each of the wells for, at a minimum, the following parameters: turbidity, pH, temperature, specific conductance, salinity and dissolved oxygen.

4. Once parameters had stabilized, the flow cell was disconnected and samples were collected. Parameter stabilization was achieved in all wells, although in deep monitoring wells MWD-01, MWD-02, and MWD-03, slightly elevated turbidity readings (±100 nephelometric turbidity units [NTU]) persisted at the time of sample collection. Therefore, samples for both total and dissolved metals analysis were collected from the deep monitoring wells.

5. All groundwater samples collected were analyzed for the following parameters: VOCs by United States Environmental Protection Agency (EPA) method 8260; total Resource Conservation and Recovery Act (RCRA) 8 Metals by EPA method 6010B/7471A; Biological Oxygen Demand (BOD) by New York State Department of Health (NYSDOH) method 405.1; and Chemical Oxygen Demand (COD) by NYSDOH method 410.4. In addition, split samples from MWD-01, MWD-02 and MWD-03 were lab-filtered and analyzed for dissolved RCRA 8 metals due to slightly elevated turbidity readings as discussed above.

All laboratory analytical services were provided by H2M LABS, INC. (H2M), under direct contract to KeySpan Corporation (KeySpan).

II. Groundwater Gauging

On March 10, 11, and 12, 2003, VHB periodically gauged the nine Area 1A groundwater monitoring wells. The intent of the gauging program was to determine the influence of tidal fluctuations (from Hempstead Harbor) on groundwater elevations across Area 1A. Figures 2, 3, and 4 depict the high and low groundwater table and potentiometric surface elevations for each day. The corrected water table elevation data is summarized in Table 1.

III. Geophysical Investigation

The geophysical investigation was performed at the site from March 4 to 12, 2003. Zebra Environmental Inc. (Zebra), of Lynbrook, New York advanced 20 soil borings using a combination Membrane Interface Probe and Direct Sensing Soil Conductivity (MIP/SC) system. The probe, which is advanced into the subsurface using a standard Geoprobe®, is a percussion tolerant device that is connected through a rob string-pot to the various detectors at the surface using a comparted lead-line. In addition to the SC detector, the system is equipped with the following detectors: (1) photoionization detector (PID); (2) flame-ionization detector (FID); and (3) electron capture detector (ECD). The capabilities of each of these detectors are generally unique and provide an overall, screening level "snapshot" of total organic chemical constituent concentrations (in microvolts [uV]) present in the subsurface as the probe is advanced. In particular, the PID is used for the detection of aromatic VOCs (such as benzene), the FID is used for the detection of straight-chain alkanes (such as methane), and the ECD detector is utilized for the detection of halogenated organics (such as PCE). The SC detector also provides real-time soil conductivity data in milliSiemens/meter (ms/M) as the probe is advanced into the subsurface. All of the MIP/SC system detectors are housed in a Hewlett Packard 5890 Series II Gas Chromatograph cabinet that is mounted on a field transportable platform.

As initially proposed in the Phase I scope of work, soil borings GWMIP-01 through GWMIP-14 were advanced in three transects across the Site (see Figure 5). On March 11, 2003, VHB and KeySpan personnel analyzed the field-screening results from these initial borings and decided to advance six additional/delineation borings (GWMIP-15 through GWMIP-20) on the southern portion of Area 1A. Field-screening results generated from the MIP/SC system are presented on the Boring/Geophysical Reports, which are presented as Attachment A.

IV. Confirmatory Soil and Groundwater Sampling

Data collected during the geophysical investigation was used to determine the intervals and depths at which confirmatory soil and groundwater samples were collected. Confirmatory soil and groundwater samples were collected at up to two discrete depth intervals at each boring location. A review of the sample summary table provided below indicates that at selected boring locations, the

number of confirmatory samples collected varied from the provisions of the Work Plan, specifically as a result of interpretation of the geophysical data collected at the site.

Boring Identification	Sample Depth (feet)	Rationale
GWMIP-01	13-15' (soil) 11-15' (water)	Increased conductivity and FID readings
	33-35' (soil) 31-35' (water)	Increased ECD reading
GWMIP-02	42-44' (soil) 40-44' (water)	Increased ECD reading
GWMIP-03	56-58' (soil) 54-58' (water)	Increased ECD reading
GWMIP-04	13-15' (soil) 11-15' (water)	Increased conductivity and FID readings
	44-46' (soil) 42-46' (water)	Increased PID, ECD, and FID readings
GWMIP-05	58-60' (soil) 56-60' (water)	Increased ECD and PID readings
GWMIP-06	28-30' (soil) 26-30' (water)	Increased conductivity, PID, ECD and FID readings
	36-38' (soil) 34-38' (water)	Increased PID, ECD, and FID readings
GWMIP-07	10-12' (soil) 8-12' (water)	Increased conductivity and FID readings
	30-32' (soil) 28-32' (water)	Increased PID, ECD, and FID reading
GWMIP-08	29-31' (soil) 27-31' (water)	Increased ECD reading
	38-40' (soil) 36-40' (water)	Increased PID and ECD reading
GWMIP-09	25-27' (soil)	Increased PID, ECD, and FID readings
	21-25' (water)	Increased ECD readings
	30-32' (soil) 28-32' (water)	Increased PID, ECD, and FID reading
GWMIP-10	34-36' (soil) 32-36' (water)	Increased PID, ECD, and FID readings
	48-50' (soil) 46-50' (water)	Increased PID, ECD, and FID readings

GWMIP-11	18-20' (soil) 16-20' (water)	Increased ECD reading
	35-37' (soil) 33-37' (water)	Increased PID and FID readings
GWMIP-12	31-33' (soil) 29-33' (water)	Increased PID, ECD, and FID readings
GWMIP-13	18-20' (soil) 16-20' (water)	Increased PID and ECD readings
	36-38' (soil) 34-38' (water)	Increased PID, ECD, and FID readings
GWMIP-14	31-33' (soil) 28-32' (water)	Increased PID, ECD, and FID readings
	38-40' (soil) 36-40' (water)	Increased PID and FID readings
	59-61.5' (soil) 56-60' (water)	Increased ECD reading
GWMIP-16	34-36' (soil) 32-36' (water)	Increased PID, ECD, and FID readings
	48-50' (soil) 46-50' (water)	Increased PID, ECD, and FID readings
GWMIP-18	35-37' (soil) 33-37' (water)	Increased PID and FID readings
	43-45' (soil) 41-45' (water)	Increased PID, ECD, and FID readings
GWMIP-20	58-60' (soil) 56-60' (water)	Increased ECD readings

On March 12 through 18, 2003, all confirmatory soil and groundwater samples were collected utilizing a Geoprobe® and narrow-diameter sampling tools. Soil samples were described in a manner consistent with American Society for Testing Materials (ASTM) Standard D 2488-00, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) and field screened using a Photovac 2020 PID. Boring/Geophysical Reports, including soil sample descriptions as well as MIP/SC detector screening results, are presented as Attachment A. A water quality meter and integrated flow cell, manufactured by Horiba, were used during the collection of samples from the groundwater probes to determine stability where conditions permitted (*i.e.*, under low to moderate turbidity conditions).

During the confirmatory soil sampling, olfactory evidence of hydrocarbon impacts (similar to creosote) were only detected in sample GWMIP-13 (18-20'). No evidence of subsurface impacts resulting from chemical constituents of concern (primarily chlorinated VOCs) was noted in the remaining samples. All samples were analyzed for VOCs by EPA method 8260 by H2M under direct contract to KeySpan.

V. Dye Injection Testing

On March 17, 2003, a prescribed volume of environmentally benign dye ("Bright-Dyes") was injected at a test point (INJ-A07) located within the west central portion of the site proximal to groundwater monitoring well MW-03. The location of the test injection point was selected based on its proximity to MW-03 and two existing drywells in this portion of Area 1A. The point was also located approximately 30 feet upgradient to the east of the bulkhead fronting Hempstead Harbor. The injection was made at a depth of 20-feeet below ground surface (bgs).

Approximately 250 gallons of dye was injected into the subsurface in two discrete batches of 125 gallons each. The dye was injected into the subsurface at a prescribed flow rate of approximately 5 gallons per minute (gpm) using a centrifugal pump attached to standard Geoprobe tooling, and pressures were recorded ranging from 18 to 20 pounds per square inch (psi). The two drywells and MW-03 were observed during the test in an attempt to measure the effective radius of influence of the injection point. Indications of harbor water discoloration were also continuously monitored during and after the dye injection test.

Data Interpretation

I. Baseline Groundwater Sampling Analysis

Monitoring Wells

Groundwater samples from existing site monitoring wells exhibited concentrations of chlorinated VOCs consistent with previous investigation data. PCE in concentrations ranging from non-detect to 820 micrograms per liter (ug/l) and trichloroethene (TCE) in concentrations ranging from non-detect to 210 ug/l were the principal compounds detected. Other chlorinated VOCs detected included vinyl chloride, 1,1-dichloroethane, 1,2-dichloroethene (total), 1,1,1-trichloroethane, and carbon tetrachloride. However, these compounds were detected at very low concentrations relative to TCE/PCE, consistent with previous investigation data. The concentrations of total chlorinated VOCs in the monitoring wells ranged from 4 ug/l at MW-05 and MW-01 to 861 ug/l at MWD-02. MW-03 had the highest concentrations of chlorinated VOCs for shallow wells at 318 ug/l. Refer to Figure 8 for chlorinated VOC concentration contours for both shallow and deep well data.

Inorganics data from the monitoring wells was consistent with previous investigation data and regional groundwater characteristics.

All samples from the monitoring wells were non-detect for BOD. COD in groundwater samples collected from the monitoring wells ranged from 22,000 to 54,000 ug/l.

Drywells

Analytical results from drywells were consistent with previous data. All three drywells contained chlorinated VOCs, principally PCE at concentrations of 71 to 200 ug/l and TCE at concentrations of 9 to 40 ug/l. Refer to Table 5 for the data summary.

Outfalls

Analytical results from outfalls through the bulkhead (OF-2 and OF- 3) were consistent with previous data. Both outfalls contained chlorinated VOCs, principally PCE at concentrations of 100 to 180 ug/l and TCE at concentrations of 19 to 28 ug/l. Refer to Table 5 for the data summary.

II. Groundwater Gauging Results

The groundwater gauging data collected during the Phase I field activities for Area 1A suggest that the deep aquifer responds more rapidly to tidal changes than the shallow aquifer. For instance, as low tide approaches in the harbor, the potentiometric surface in the deeper portion of the aquifer equilibrates, or reaches a low elevation for the tidal cycle, sooner than the water table in the shallow portion of the aquifer. The data also suggest that the tidal influence on the deep aquifer extends further inland (*i.e.*, to the east) than it does on the shallow aquifer. As depicted on Figures 2, 3, and 4, tidal influence in the deeper portion of the aquifer extends in an easterly direction beyond MWD-03. Minimal groundwater fluctuations (*i.e.*, hundredths of a foot) were observed in MW-05 which is located directly adjacent to MWD-03. This suggests minimal, if any tidal influence on the shallow portion of the aquifer in the eastern portion of Area 1A. The dynamic influence demonstrated in the deeper portion of the aquifer has also likely contributed to the more widespread spatial distribution and presence of chlorinated VOCs across Area 1A.

III. Geophysical Investigation Results

Based on data from previous investigations, the primary constituents of concern in Area 1A are chlorinated VOCs, primarily PCE. As discussed previously, the ECD data collected during the geophysical investigation was utilized to provide real-time information regarding the spatial distribution of chlorinated VOCs in the subsurface within Area 1A.

Figures 5 and 6 provide spatial visualizations of the ECD data collected during the geophysical investigation performed at the site. Specifically, a series of cross-sections from Area 1A that plot ECD values versus depth are presented on Figure 5, while Figure 6 provides a series of three-dimensional renderings of this data at different azimuth directions and fields of view. A review of these figures indicates that the highest VOC concentrations were detected on the southwestern portion of Area 1A.

The soil conductivity data collected during the geophysical investigation suggests the presence of an interval of higher conductivity soils at a depth of approximately 30 to 40 feet bgs across Area 1A, although intervals deeper than this were also noted at some boring locations. Confirmatory soil

samples collected in the areas of higher soil conductivity revealed the presence of subsurface materials (*e.g.*, fine sands and silts) that would represent intervals of lower vertical permeability. The 30 to 40-foot bgs interval generally coincides with the depth of higher VOC detector concentrations, specifically ECD, seen within Area 1A, although elevated detector concentrations were also identified at greater depths. The conductivity and chemical detector data suggest that while layers of lower vertical permeability are present in the subsurface across Area 1A, they appear to be generally discontinuous in nature and do not represent a substantive confining unit. This is consistent with the results of previous investigation efforts completed within Area 1A.

IV. Confirmatory Soil and Groundwater Sampling Analysis

Soil

VOC analytical results from soil samples collected from the MIP points indicated the presence of chlorinated VOCs in 12 of the 18 borings. PCE was the principal compound detected at concentrations ranging from non-detect to 0.046 mg/kg. TCE was detected with less frequency in 4 of the 18 borings. Concentrations of TCE ranged from non-detect to 0.0060 mg/kg. Traces of other VOCs including 2-butanone/methyl-ethyl ketone (MEK), acetone, methylene chloride, 1,2-dichloroethene (Total), and chloroform were also detected. Acetone, MEK, and methylene chloride are typical lab contaminants and will be addressed during data validation. Refer to Table 6 for data summary.

This data is consistent with previous subsurface soil data that indicated limited concentrations of VOCs in soil. In general, the soil analytical data compares favorably with the ECD data. The contour maps in Figures 7-1 and 7-2 indicate that the composite contour interval for soil analytical data generally has the same shape as the ECD composite contour. Refer to Figure 7 for a data set scatter plot which illustrates the correlation of the soil and groundwater analytical and ECD data.

The analytical and MIP data suggests that higher concentrations of VOCs in soils are located in the southern portion of the area. Specifically, GWMIP-10 had the highest total concentrations. GWMIP's 12, 13, 14, 16, and 18 all had detectable concentrations of VOCs in soil. Figure 7-1 provides chlorinated solvent concentration contours based on analytical data. Three contour intervals are provided which illustrate deep subsurface (40 to 60-feet bgs), intermediate subsurface (10 to 30-feet bgs), and composite total chlorinated solvent contours. Figure 7-2 provides soil data and a corollary map of soil analytical data from the deep and intermediate soils and the composite ECD data.

Higher concentrations of chlorinated VOCs were more prevalent in the intermediate subsurface (30 to 40-feet bgs) than in deeper intervals. This finding is consistent with conductivity data from the MIP that indicated areas of finer/tighter soils in this interval.

Groundwater

Groundwater samples from MIP points exhibited concentrations of chlorinated VOCs consistent with previous investigation data. PCE in concentrations ranging from non-detect to 1,700 ug/l and TCE in

concentrations ranging from non-detect to 270 ug/l were the principal compounds detected. Other chlorinated VOCs detected included vinyl chloride, 1,1-dichloroethane, 1,2-dichloroethene, 1,1-dichloroethylene, 1,1,2,2-tetrachloroethane, 1,1,1-trichloroethane, chloroform, and carbon tetrachloride. However, these compounds were detected in very low concentrations relative to TCE/PCE, consistent with previous investigation data. The concentrations of total chlorinated VOCs at the MIP points ranged from non-detect at GWMIP-07 (8-12') to 2,167 ug/l at GWMIP-20 (56-60'). Refer to Table 7 for a data summary.

The groundwater data compares somewhat favorably with the ECD data; however there are some clear disparities between the two data sets. The ECD data is consistent with analytical data for both soil and groundwater in the south portion of the site, most notably points GWMIP-9, 10 and 20. However, there is no apparent corollary between the relatively high concentrations detected in groundwater from GWMIP-03. Refer to Figure 7 for a scatter plot of the analytical and ECD data which illustrates the correlation of the data.

The analytical data suggests that higher concentrations of VOCs in groundwater are located in the southern portion of the area. A further note of interest is the fact that the highest concentrations detected came from the deep groundwater points, however, shallow data points exhibited higher concentrations more frequently. GWMIP-20 had the highest total chlorinated VOC concentration of 2,167 ug/l at the 56-60' depth interval. Other high concentrations in the deep samples included 1,863 ug/l at GWMIP-10 (46-50' bgs), and 1,711 at GWMIP-03 (54-58' bgs).

GWMIP's 3, 5, 10, and 20 all had detectable concentrations of VOCs at approximately 1,000 ug/l or higher. GWMIP's 1, 2, 4, 8, 9, 11, 13, 14, 16, and 18 all had concentrations of total chlorinated VOCs between 100 and 1,000 ug/l. GWMIP-7 and 6 contained the lowest total chlorinated VOC concentrations at non-detect to 87 ug/l, respectively. Refer to Figures 7-3 and 7-4 for contour maps of the groundwater data and a corollary map of groundwater analytical data and ECD data.

V. Dye Test Results

Throughout the day of injection and at time intervals of 24, 48, and 72 hours after injection, no evidence of the injected dye was noted in any of the monitoring points and/or the harbor. The results of the dye injection testing generally satisfied the two objectives established at the beginning of the test since: 1) short-circuiting to the drywells and/or through the bulkhead were not observed and are not a concern; and, 2) the effective radius of influence from the test point was controlled since no dye was detected in adjacent wells. It was also demonstrated that injections could effectively be conducted within Area 1A.

Conclusions and Recommendations

- The supplemental investigation data is generally consistent with previous investigation data from the site. Chlorinated VOCs, principally PCE and TCE are present in subsurface soil and groundwater in Area 1A.
- The ECD data generally correlates to the analytical data, however, the soil data compares more consistently than groundwater data. The state-of-the-art ECD is near the limits of it's analytical capabilities with respect to low the concentrations in groundwater.
- The ECD and analytical data indicates that the southern portion of the site has higher concentrations of chlorinated VOC's compared to overall chlorinated VOC concentrations across the site.
- Tidal fluctuations have an influence on groundwater at the site. The influence to shallow groundwater immediately adjacent to the bulkhead is greater since the gradient is very steep. However, the tidal impact on the deeper aquifer extends further inland, and the deeper aquifer is more responsive to tidal fluctuations.
- The lower concentrations of chlorinated VOCs in groundwater adjacent to the bulkhead are most likely attributable to dilutions from tidal fluctuations that have a dynamic impact on areas immediately adjacent to the bulkhead.
- The higher concentrations of chlorinated VOCs at depth is likely associated with by tidal action on the deep aquifer. In addition the data does not preclude the potential for off-site sources.
- Dye testing results indicate that injections can be made along the proposed transect closest to the bulkhead without short-circuiting to the harbor. However, injections at this transect should be done at or near high-tide to enhance contact time. Furthermore, subsurface drain lines between the drywells and the bulkhead should be marked out before injection or piezometer installation.
- While the groundwater data indicate higher concentrations in the southern portion of the site, no site specific "hot-spots", NAPL pockets, or residual source areas were found.

The investigation data provides further support that chemical oxidation is amenable to the site conditions considering uniform soils, and favorable BOD and COD data. Natural Oxidant Demand (NOD) will be the preferential consumption of permanganate by naturally-occurring organic matter, reduced (but not targeted) organic and inorganic compounds, and reduced minerals. NOD is difficult to predict without actually measuring it on groundwater and subsurface soils collected from the site (i.e. BOD and COD measurements are not always accurate predictors of NOM). Based on other similar chemical oxidation projects, the COD data collected from the site (22 to 54 mg/l) suggests there could potentially be an abundance of NOM that could affect permanganate dosage rates. Values for NOD can be much higher than the mass of permanganate needed for oxidizing the contaminants of concern (CoC), particularly when CoC concentrations are relatively low, as they are at this site. The most applicable scenarios for ISCO is for treating source areas rather than plumes and ISCO for treating plumes can be more difficult. Therefore, a good understanding of dosage requirements and NOM site conditions is even more important when treating relatively dilute plumes.

Based on the aforementioned conclusions, a bench-scale treatability study is recommended to evaluate the potential effectiveness for the site-specific conditions and help refine process conditions, especially the permanganate concentration injected. The data from the treatability study will provide a more accurate assessment of permanganate dosages and the kinetics of VOC treatment and permanganate

consumption. The kinetic data can be matched to groundwater flow rates to better estimate chemical injection concentrations and radius of influence for injections.

We look forward to meeting with you to discuss these results. Once you have had a chance to review the report feel free to call us to set-up a meeting.

Very truly yours,

VANASSE HANGEN BRUSTLIN, INC.

Matthew Wawrowski, P.E.
Senior Project Engineer

Attachments

SS/CP/MW/pc
CC: E. Kitt (VHB)
C. Poole (VHB)

Figures

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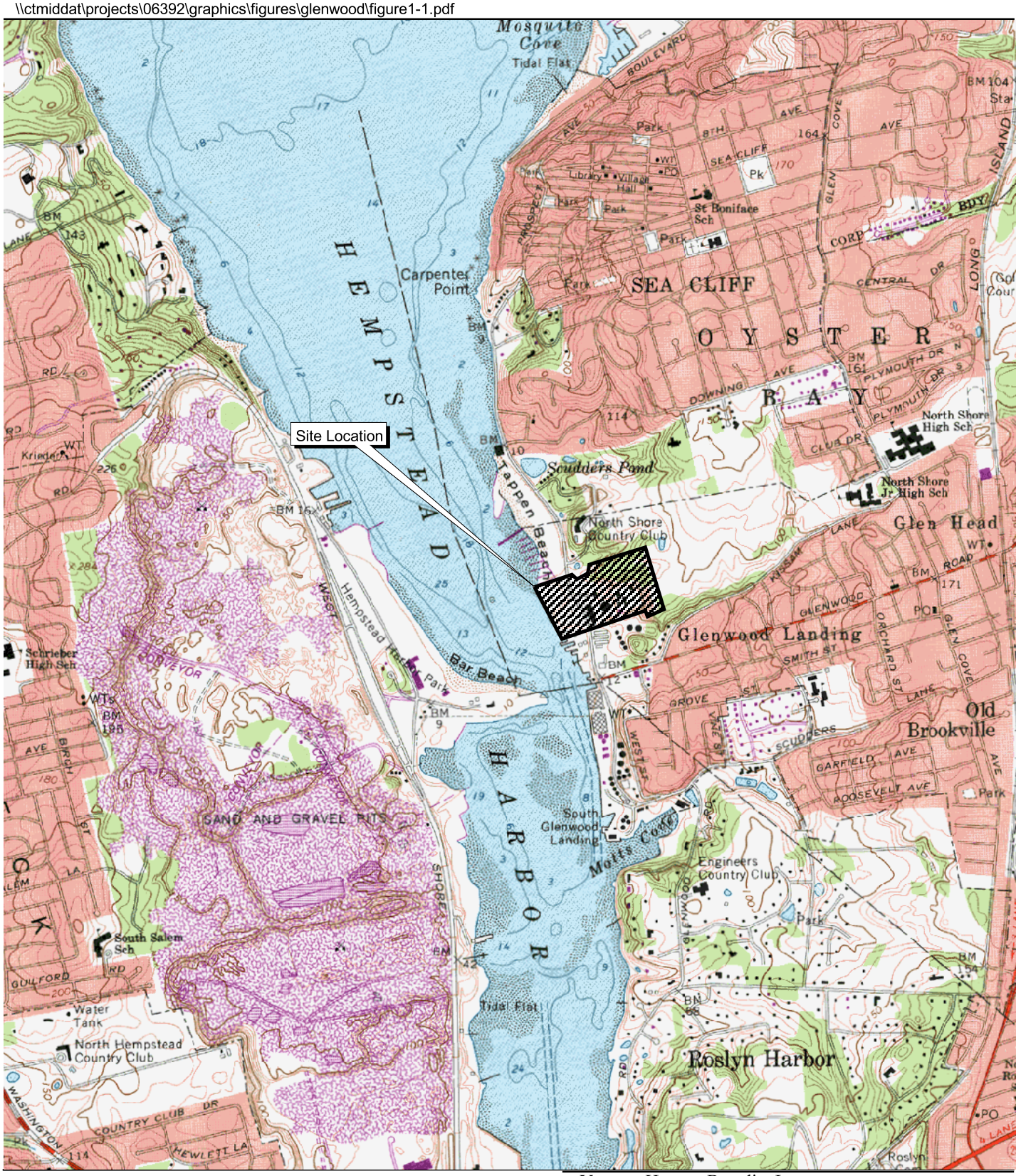


BASE MAP SOURCE:

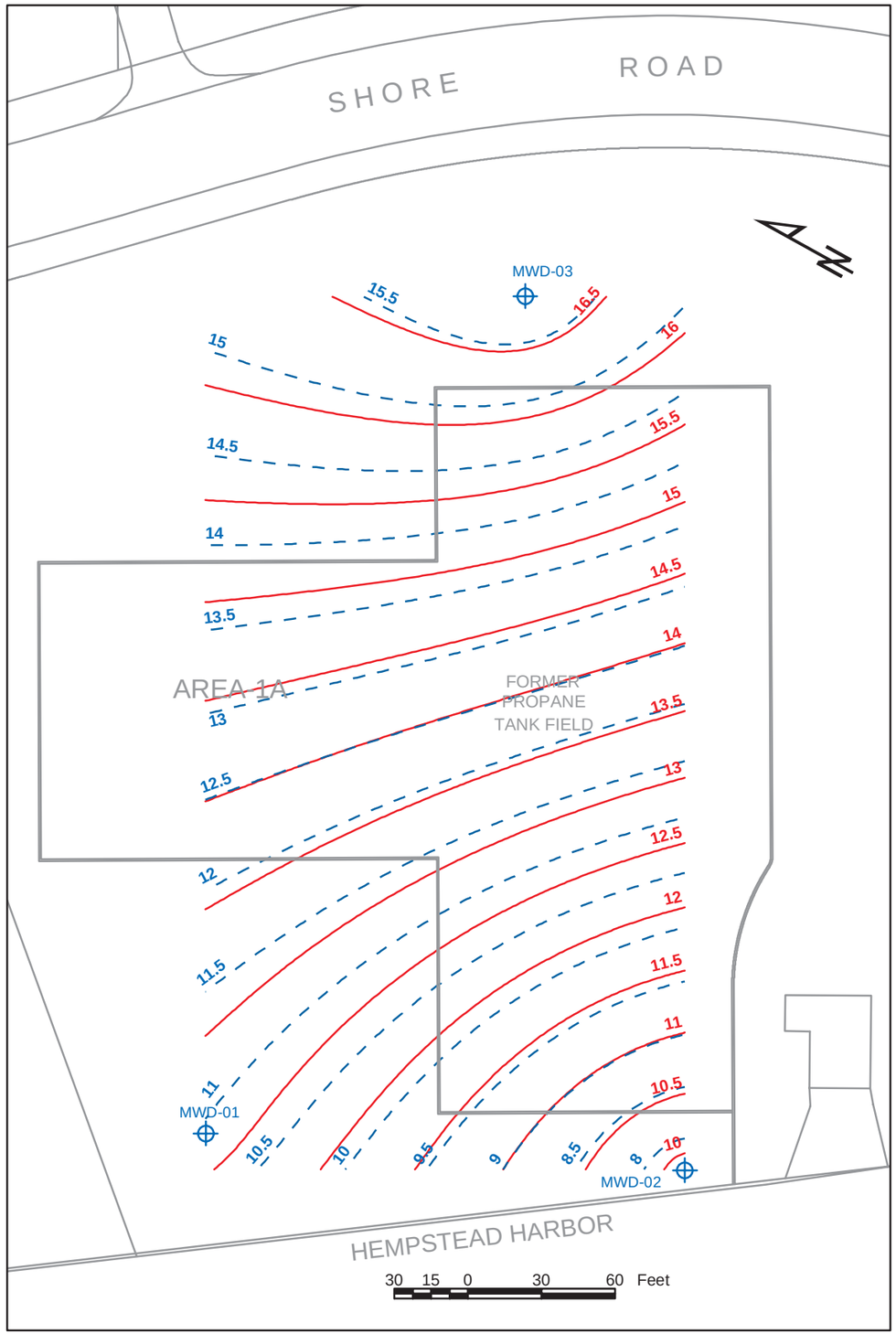
U.S.G.S. QUAD MAP
SEA CLIFF, N.Y. QUADRANGLE - 1979

N

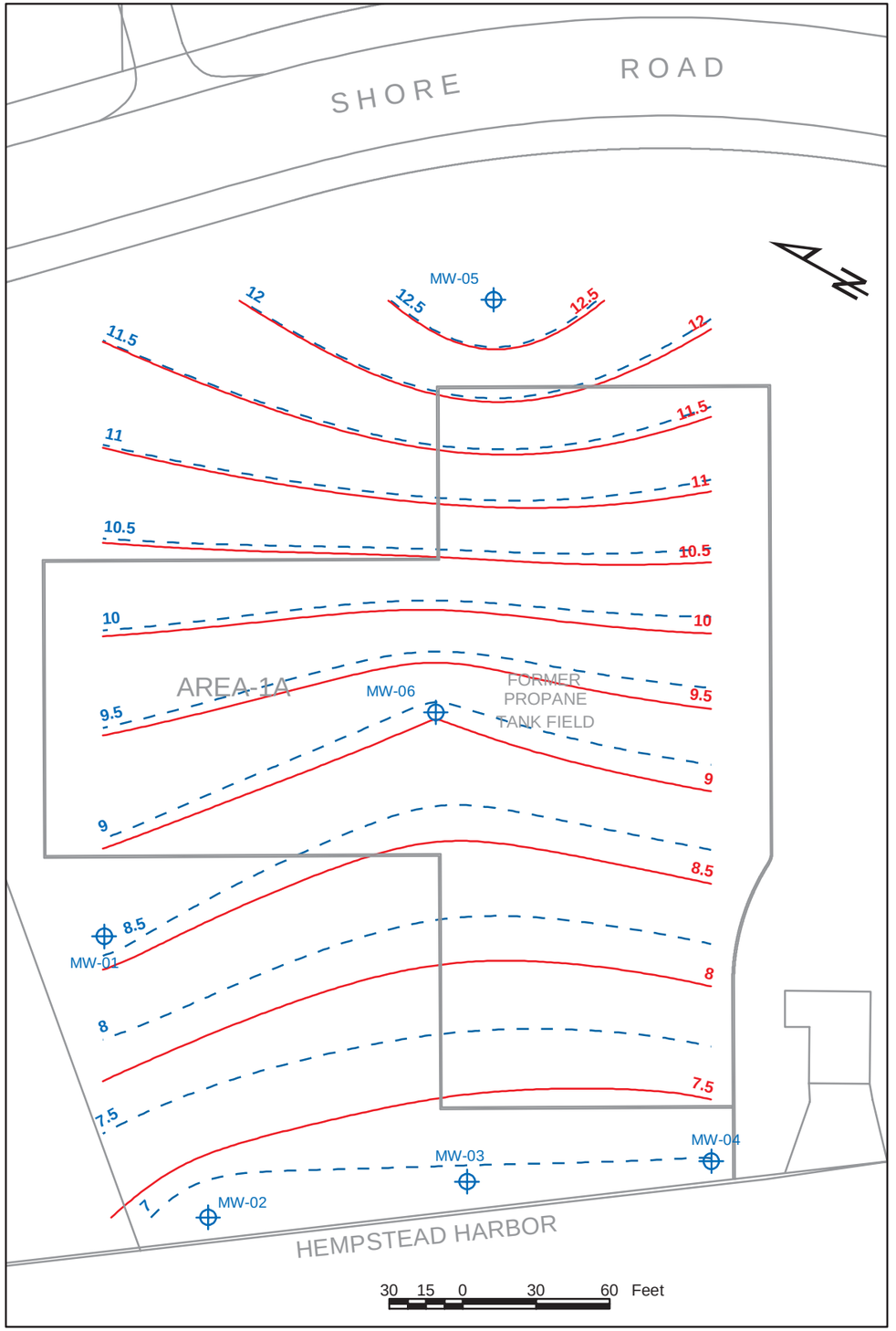
0 0.25 0.5 0.75 1 Miles

Vanasse Hangen Brustlin, Inc.

Figure 1
Site Location Map
Glenwood Landing Gas Plant Site
Glenwood Landing, New York



DEEP WELLS



SHALLOW WELLS

Legend

MWD-01 Deep Groundwater Monitoring Well

MW-01 Shallow Groundwater Monitoring Well

Inferred Groundwater Contours - Deep Wells

High Elevation - Gauging Time: 15:25

Low Elevation - Gauging Time: 10:15

Inferred Groundwater Contours - Shallow Wells

High Elevation - Gauging Time: 16:37

Low Elevation - Gauging Time: 12:25

High Tide: 03:20 and 15:56
Low Tide: 09:38*

Source: Newsday
*Low tide determined from published high tides

MAP REFERENCES:

1. BASE MAP SOURCE DRAWINGS AND AERIAL PHOTOGRAPHS BY LONG ISLAND LIGHTING COMPANY, AS MODIFIED BY IT CORPORATION

2. ALL ELEVATIONS ARE BASED ON A PLANT DATUM.

GENERAL NOTES:

THIS PLAN IS COMPILED FROM AVAILABLE EXISTING INFORMATION AND IS FOR CONCEPTUAL PLANNING ONLY. LINEWORK AND OTHER DATA SHOWN IS NOT TO BE CONSTRUED AS HAVING BEEN OBTAINED AS THE RESULT OF A CERTIFIED FIELD SURVEY, AND IS SUBJECT TO SUCH CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE. SURVEY CONDUCTED RELATIVE TO AN ASSIGNED BENCHMARK.

VHB *Vanasse Hangen Brustlin, Inc.*
Transportation Land Development Environmental Services

PREPARED FOR KeySpan Corporation
One MetroTech Center
Brooklyn, New York

FORMER GLENWOOD LANDING
GAS PLANT SITE
GLENWOOD LANDING, NEW YORK

INFERRED GROUNDWATER ELEVATION CONTOURS MARCH 10, 2003

DATE: OCTOBER 2003

SCALE: AS NOTED

FIGURE 2

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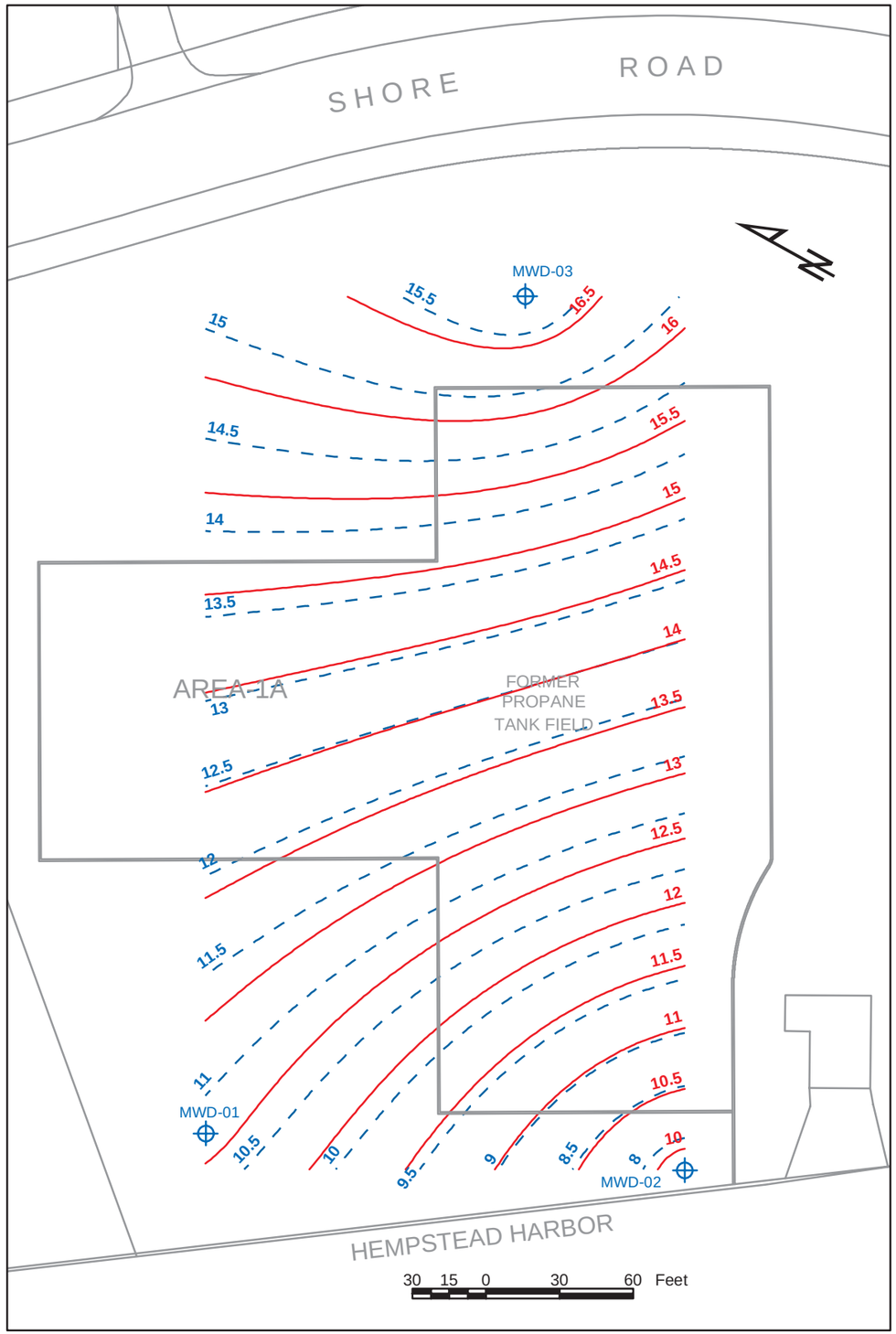
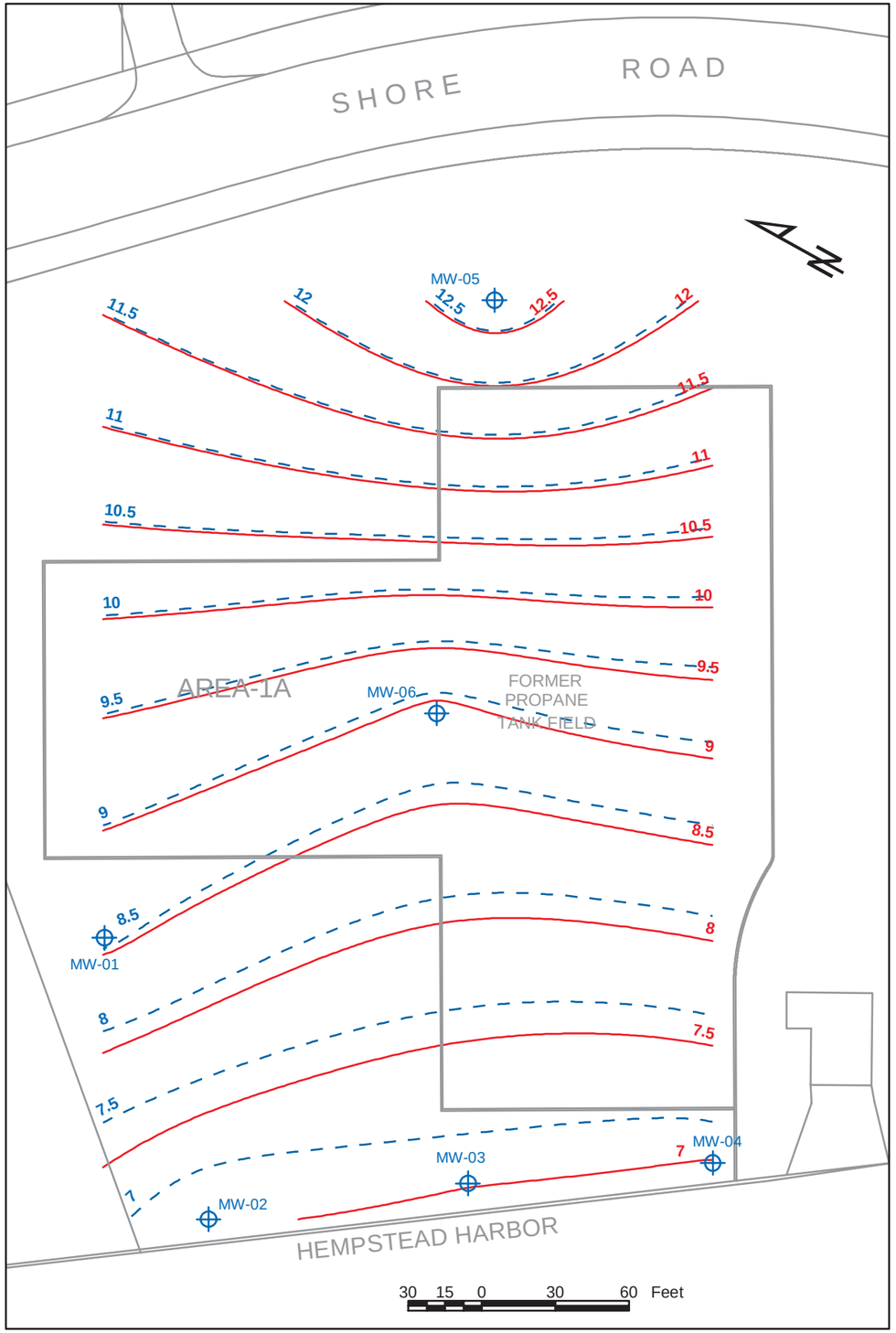


DEEP WELLS



SHALLOW WELLS

Legend

- MWD-01 Deep Groundwater Monitoring Well
- MW-01 Shallow Groundwater Monitoring Well

Inferred Groundwater Contours - Deep Wells

- High Elevation - Gauging Time: 15:56
- Low Elevation - Gauging Time: 11:53

Inferred Groundwater Contours - Shallow Wells

- High Elevation - Gauging Time: 15:56
- Low Elevation - Gauging Time: 11:53

High Tide: 04:10 and 16:52
Low Tide: 10:31*

Source: Newsday
*Low tide determined from published high tides

MAP REFERENCES:

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VHB Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

PREPARED FOR KeySpan Corporation
One MetroTech Center
Brooklyn, New York

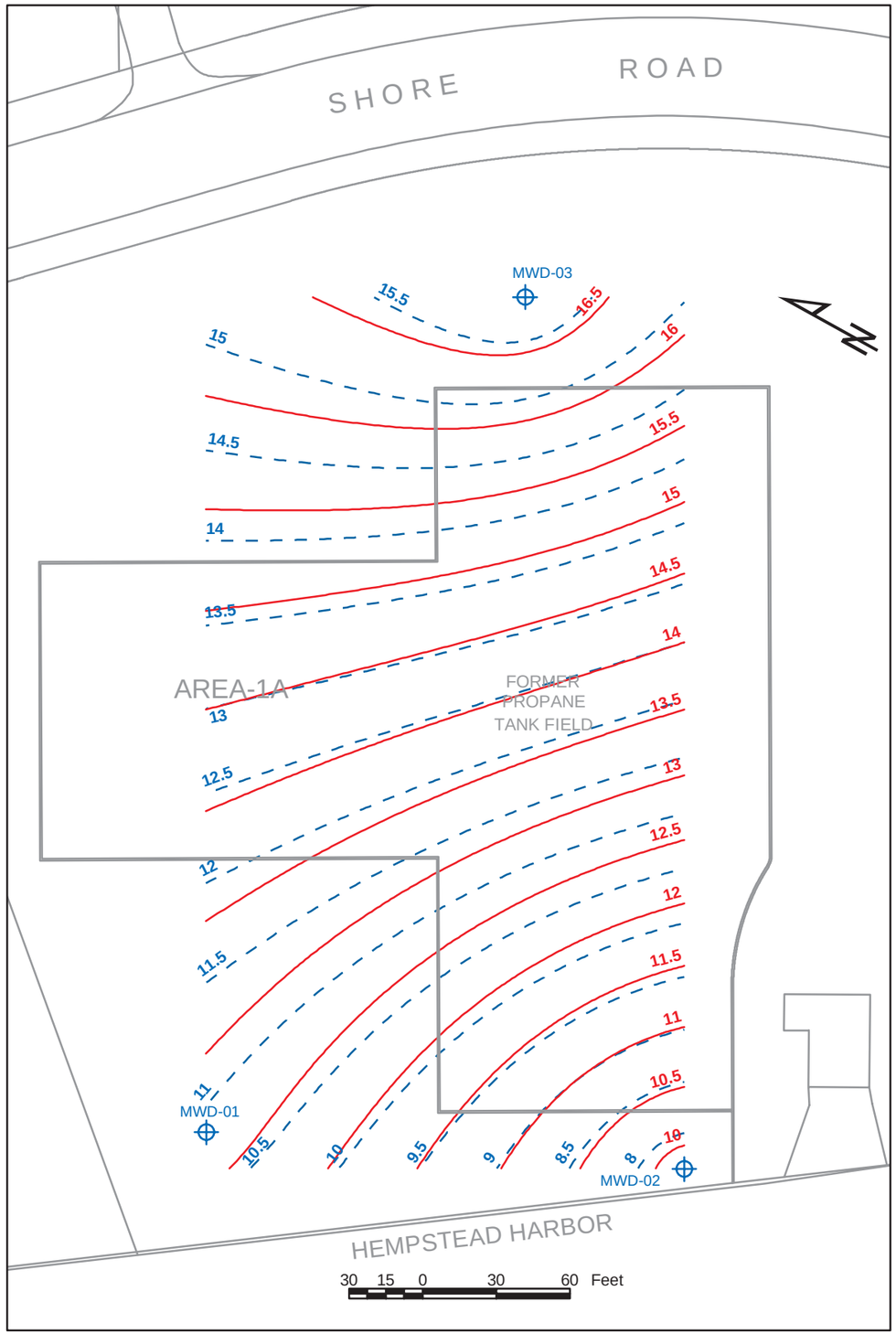
FORMER GLENWOOD LANDING
GAS PLANT SITE
GLENWOOD LANDING, NEW YORK

INFERRED GROUNDWATER ELEVATION CONTOURS MARCH 11, 2003

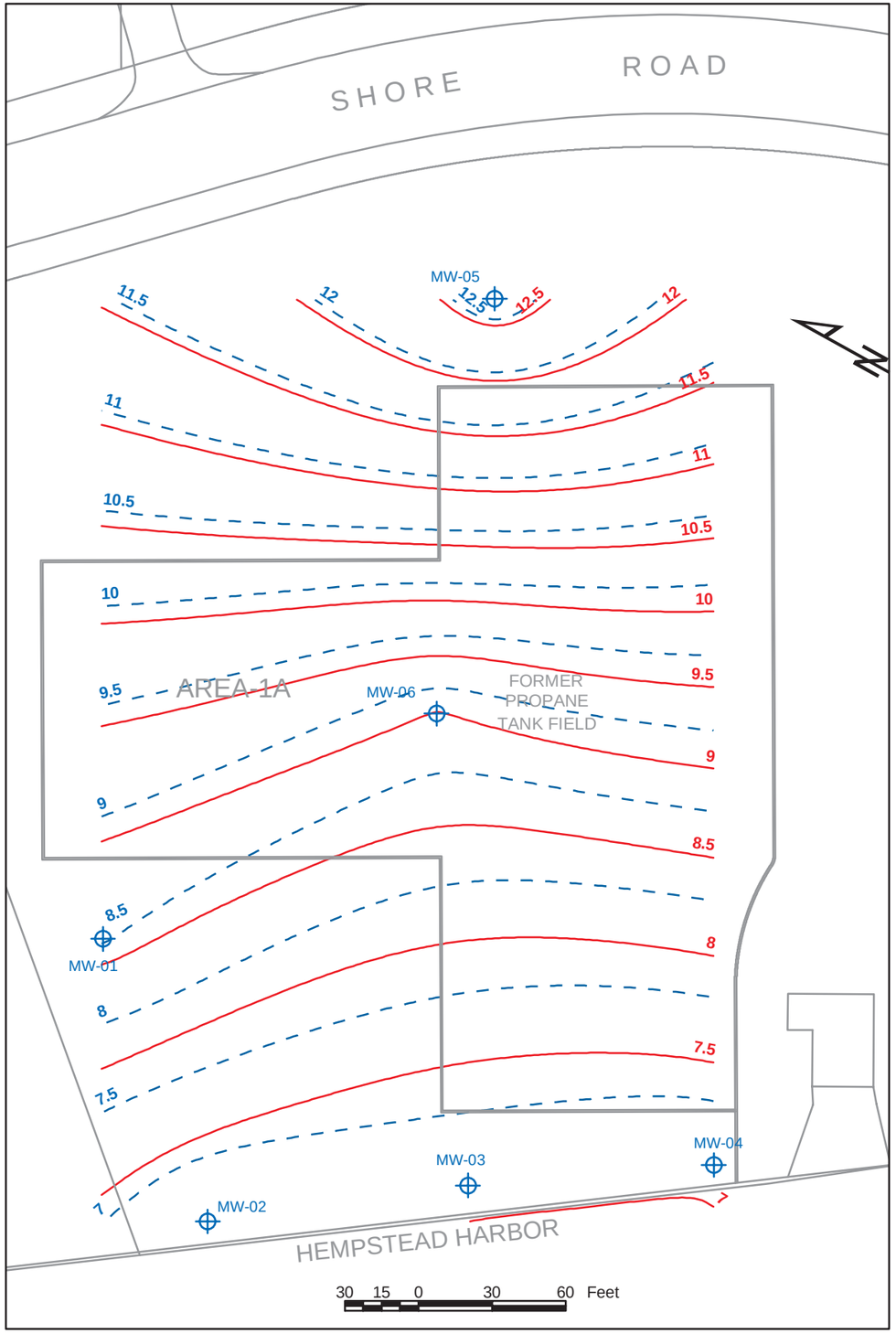
DATE: OCTOBER 2003

SCALE: AS NOTED

FIGURE 3



DEEP WELLS



SHALLOW WELLS

Legend

MWD-01 Deep Groundwater Monitoring Well

MW-01 Shallow Groundwater Monitoring Well

Inferred Groundwater Contours - Deep Wells

High Elevation - Gauging Time: 18:00

Low Elevation - Gauging Time: 12:13

Inferred Groundwater Contours - Shallow Wells

High Elevation - Gauging Time: 09:03

Low Elevation - Gauging Time: 13:50

High Tide: 05:07 and 17:57
Low Tide: 11:32*

Source: Newsday
*Low tide determined from published high tides

MAP REFERENCES:

1. BASE MAP SOURCE DRAWINGS AND AERIAL PHOTOGRAPHS BY LONG ISLAND LIGHTING COMPANY, AS MODIFIED BY IT CORPORATION

2. ALL ELEVATIONS ARE BASED ON A PLANT DATUM.

GENERAL NOTES:

THIS PLAN IS COMPILED FROM AVAILABLE EXISTING INFORMATION AND IS FOR CONCEPTUAL PLANNING ONLY. LINEWORK AND OTHER DATA SHOWN IS NOT TO BE CONSTRUED AS HAVING BEEN OBTAINED AS THE RESULT OF A CERTIFIED FIELD SURVEY, AND IS SUBJECT TO SUCH CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE. SURVEY CONDUCTED RELATIVE TO AN ASSIGNED BENCHMARK.

VHB Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

PREPARED FOR KeySpan Corporation
One MetroTech Center
Brooklyn, New York

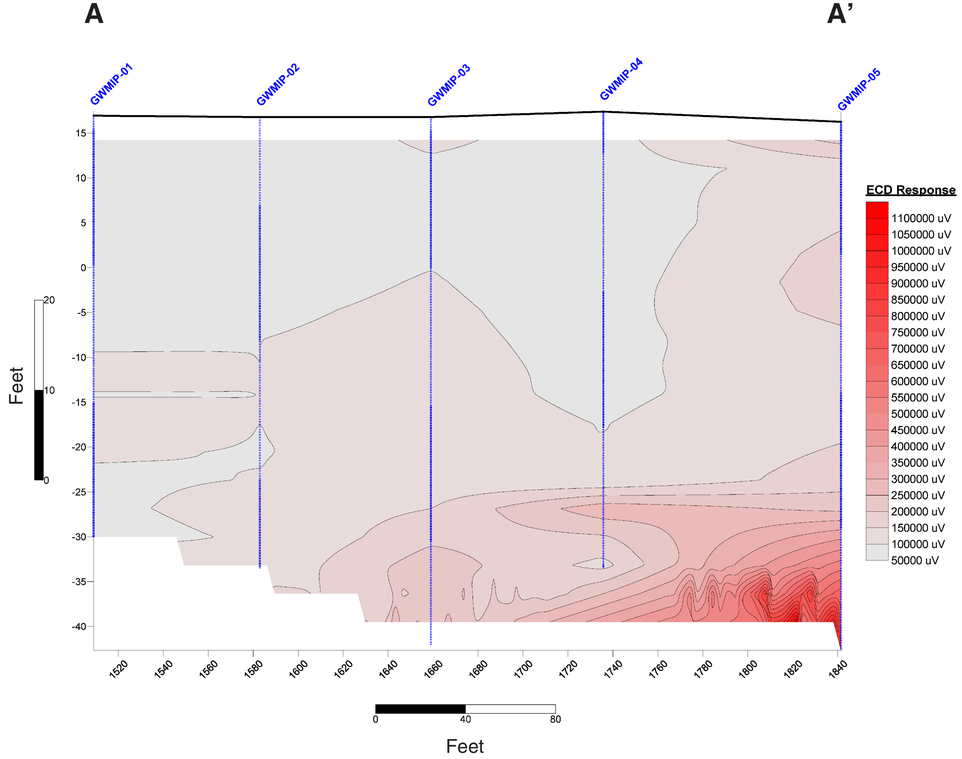
FORMER GLENWOOD LANDING
GAS PLANT SITE
GLENWOOD LANDING, NEW YORK

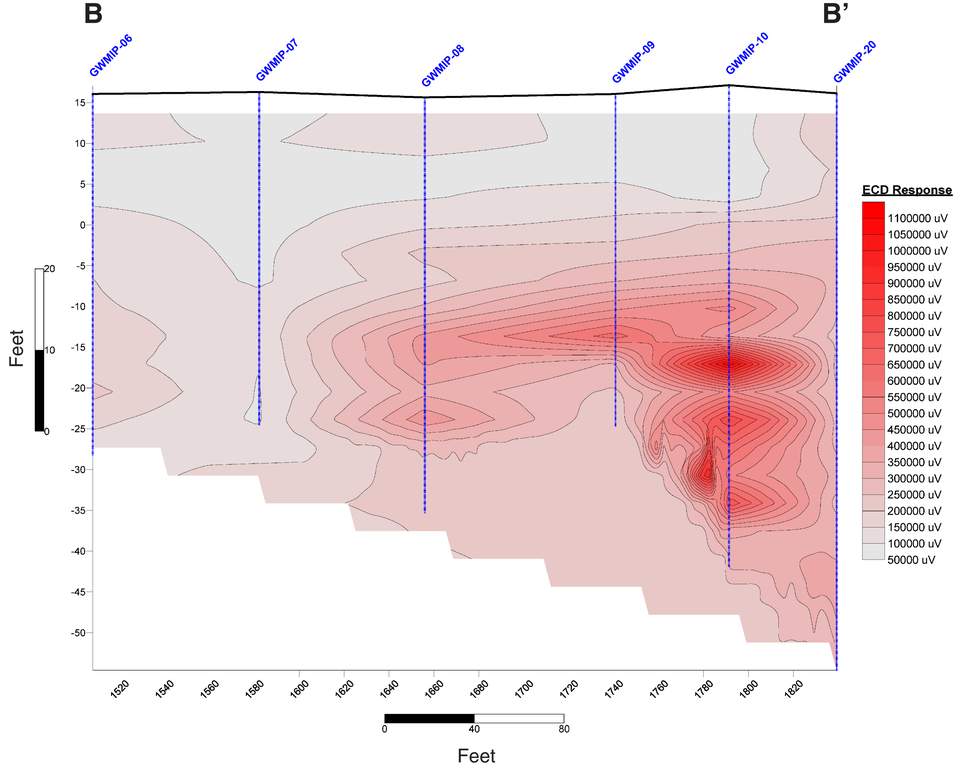
INFERRED GROUNDWATER ELEVATION CONTOURS MARCH 12, 2003

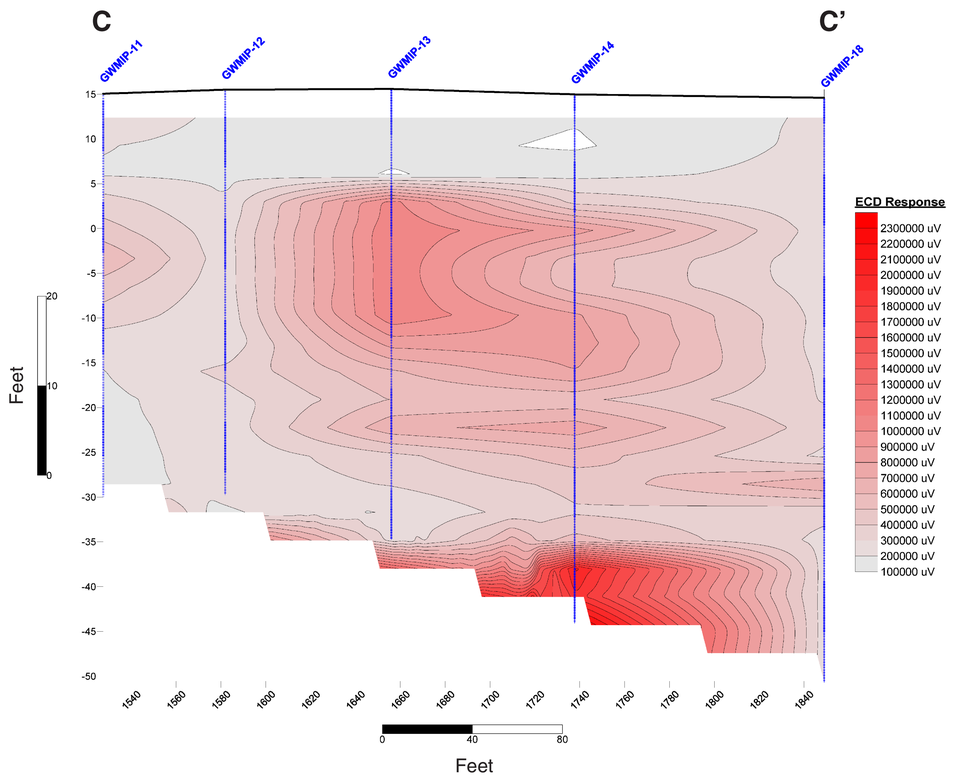
DATE: OCTOBER 2003

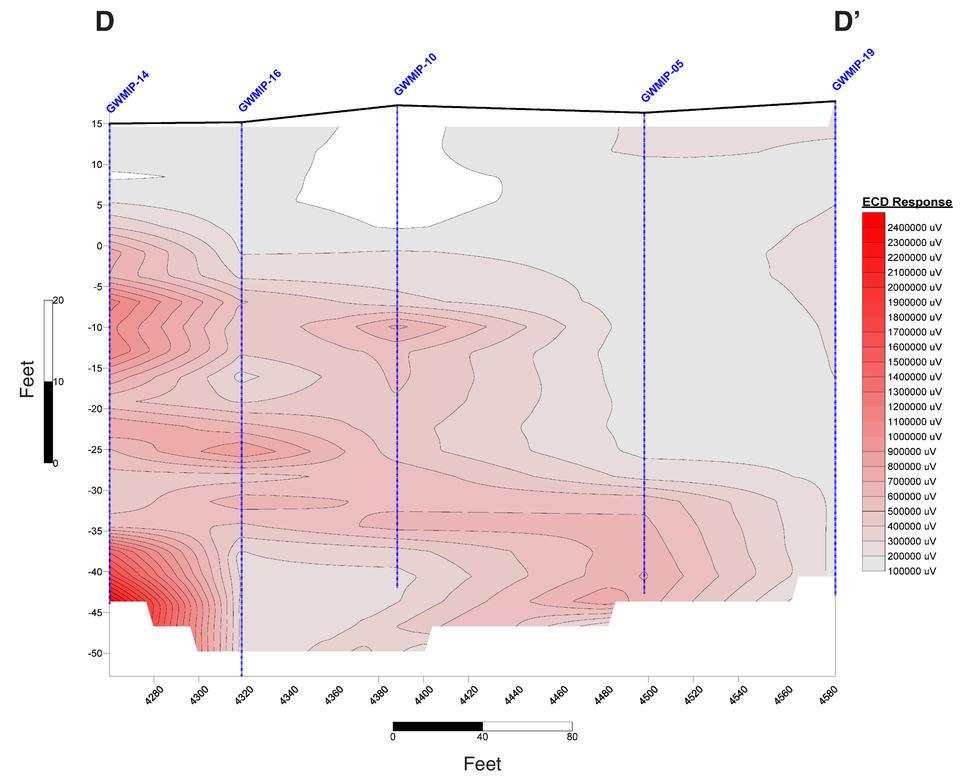
SCALE: AS NOTED

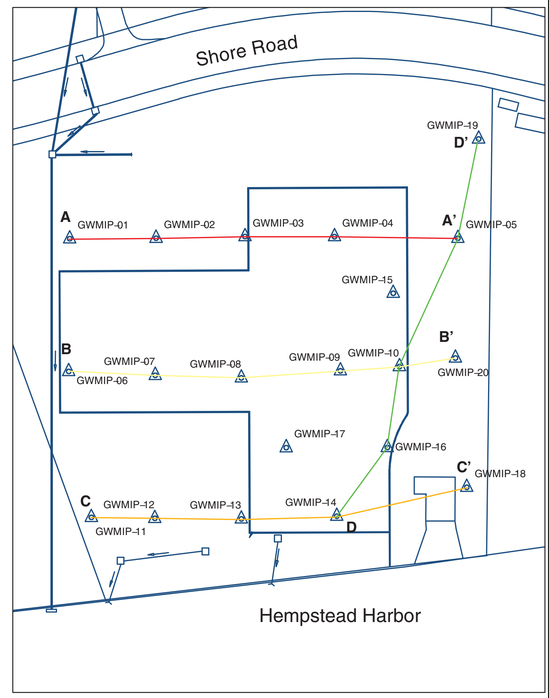
FIGURE 4











NOTES

ECD –Electron Capture Detector
uV –Micro Volts
All Transects Measured in Feet

Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

PREPARED FOR KeySpan Corporation
One MetroTech Center
Brooklyn, New York

Former Glenwood Landing
Gas Plant Site
Glenwood Landing, New York

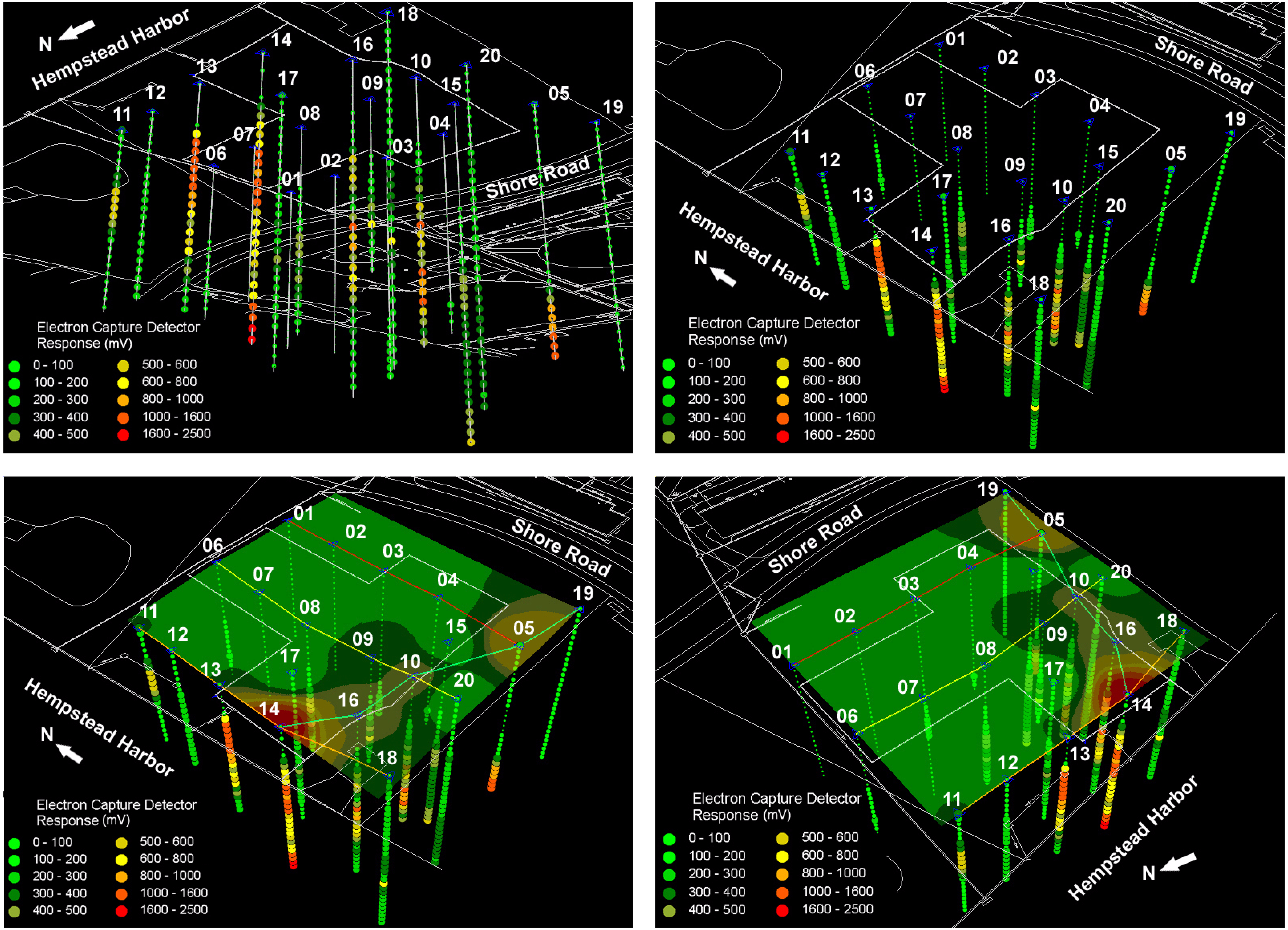
Transects Depicting Electron Capture Detector (ECD) Results Versus Depth

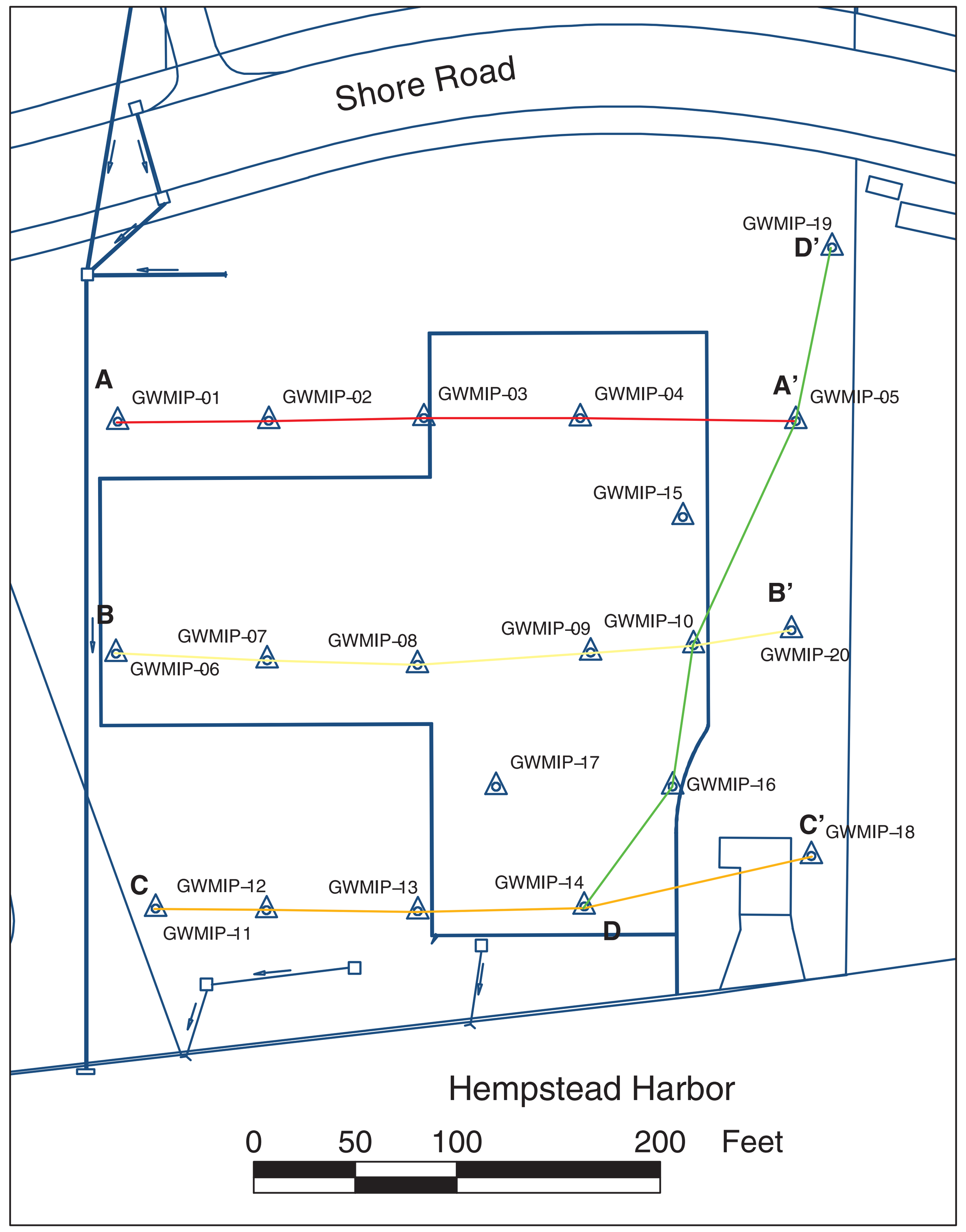
DATE: OCTOBER 2003

SCALE: AS NOTED

FIGURE 5

D:\projects\glenwood\transfer\Figure5.pdf





NOTES

ECD –Electron Capture Detector
mV –Millivolts
3-D Images Have 4x Vertical Exaggeration

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Transportation Land Development Environmental Services

PREPARED FOR KeySpan Corporation
One MetroTech Center
Brooklyn, New York

Former Glenwood Landing
Gas Plant Site
Glenwood Landing, New York

Three-Dimensional Visualizations Depicting
Electron Capture Detector (ECD) Results

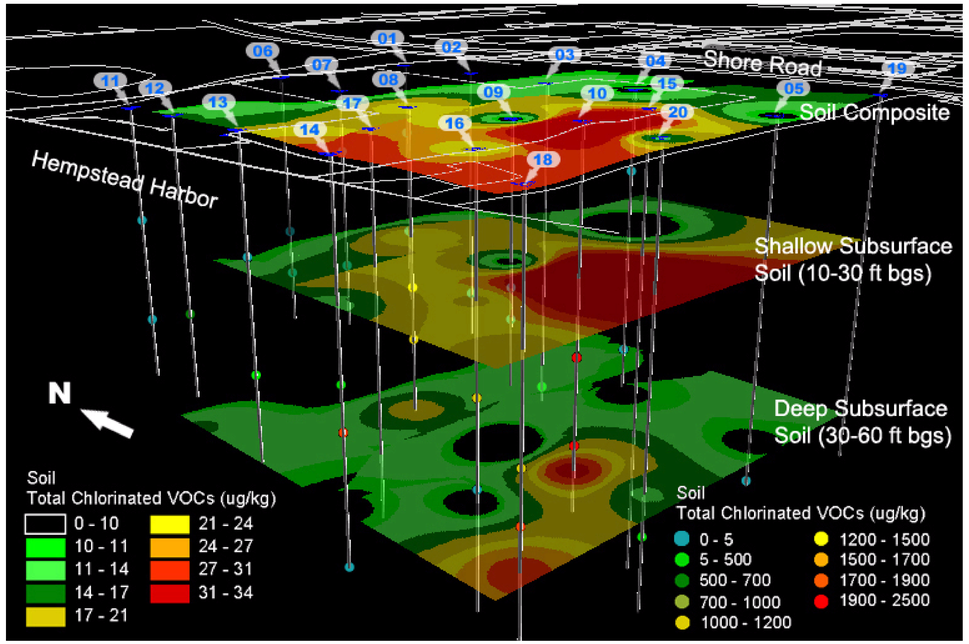
DATE: OCTOBER 2003

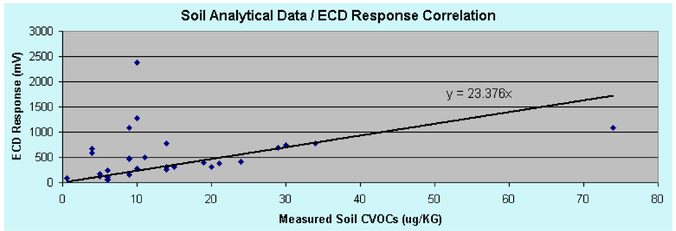
SCALE: AS NOTED

FIGURE 6

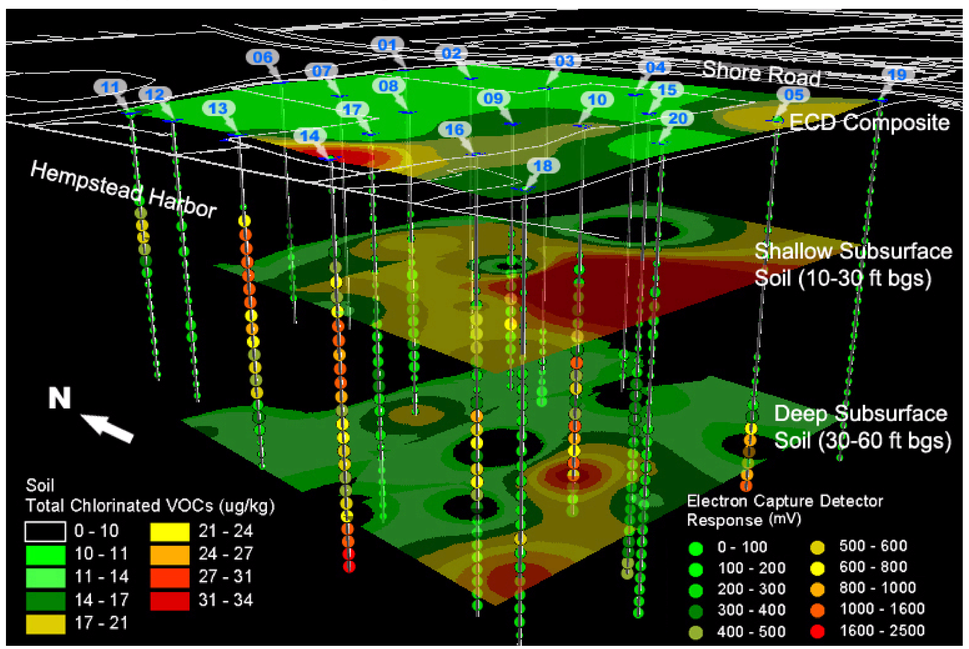
D:\projects\glenwood\transfer\Figure6.pdf

7.1 Soil Analytical Results

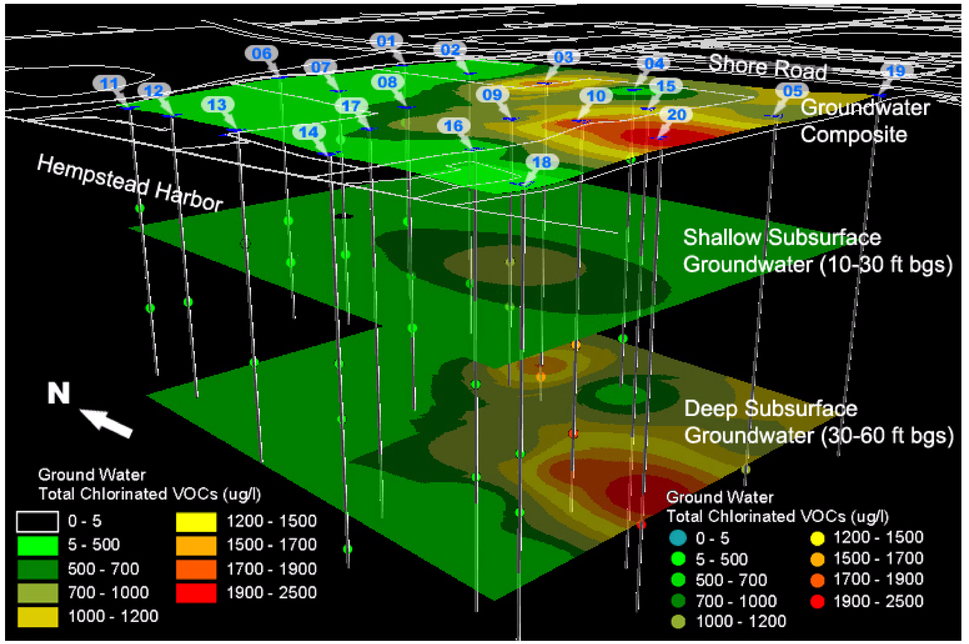


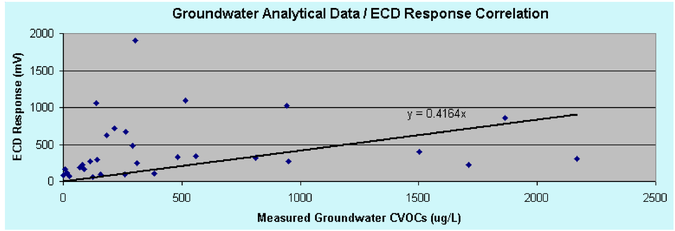


7.2 Soil Analytical Results with ECD Response Measurements

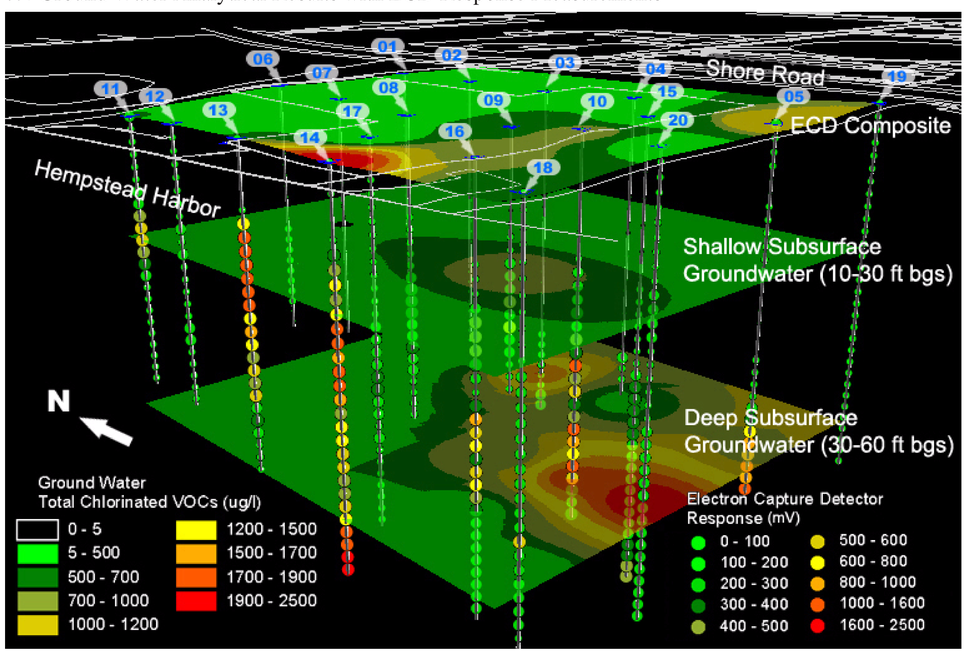


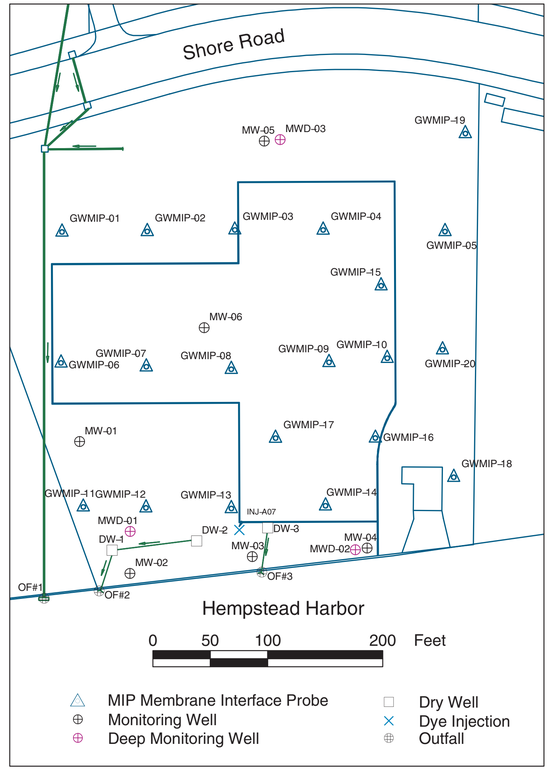
7.3 Ground Water Analytical Results





7.4 Ground Water Analytical Results with ECD Response Measurements





NOTES

ECD –Electron Capture Detector
mV –Millivolts
3-D Images Have 4x Vertical Exaggeration
All Measurements Taken at Membrane Interface Probe Locations

Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

PREPARED FOR KeySpan Corporation
One MetroTech Center
Brooklyn, New York

Former Glenwood Landing
Gas Plant Site
Glenwood Landing, New York

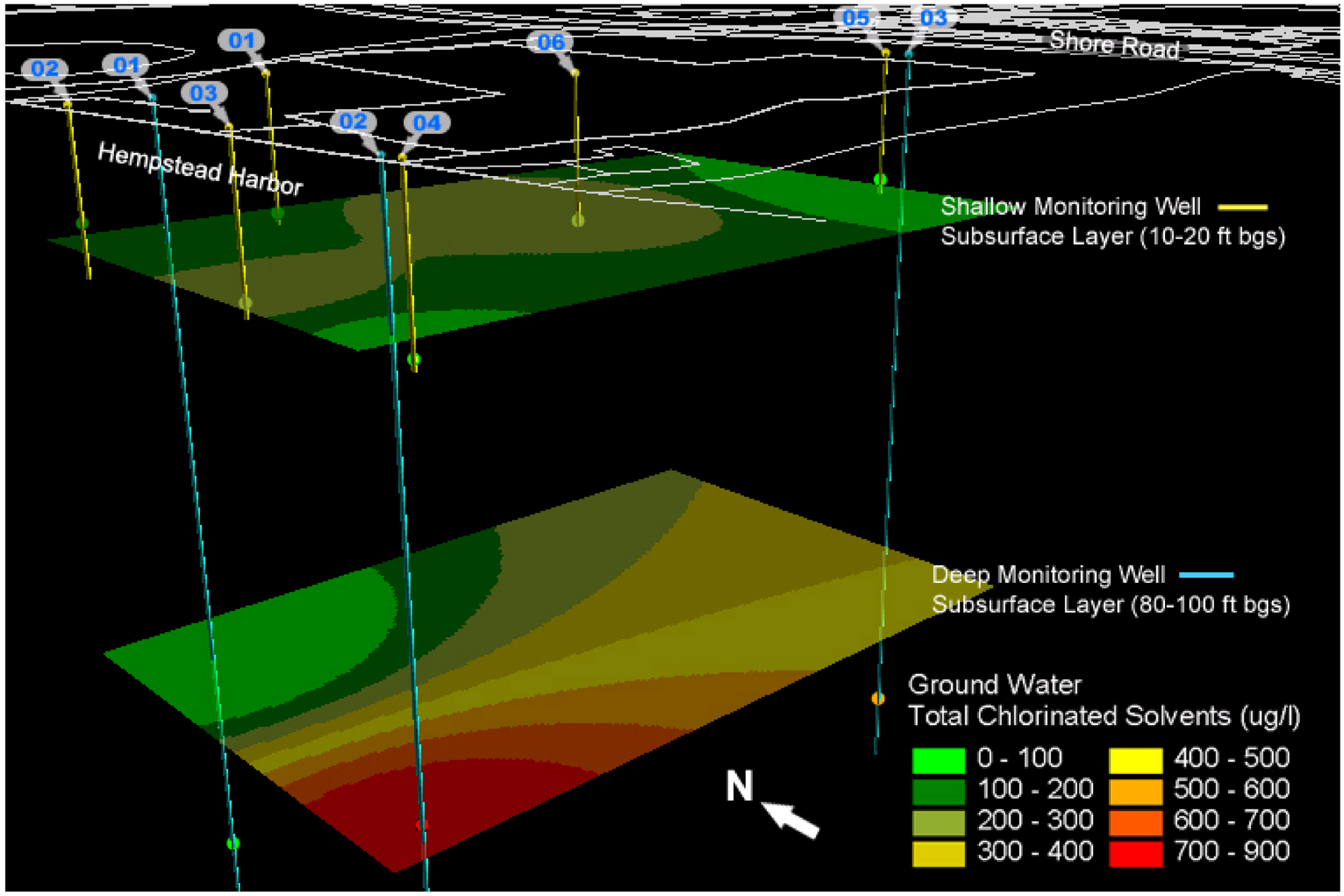
Three-Dimensional Visualizations Depicting Subsurface Soil and Groundwater Analytical Results

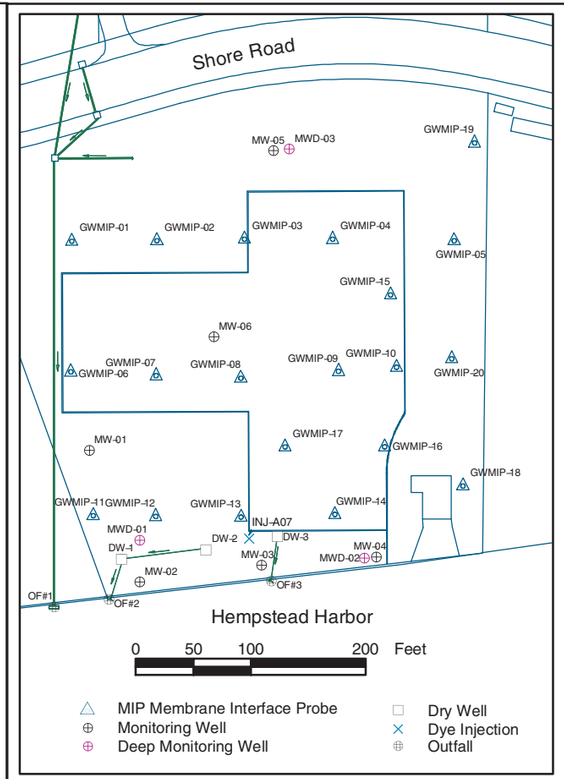
DATE: OCTOBER 2003

SCALE: AS NOTED

FIGURE 7

D:\projects\glenwood\gw_soil.mxd





NOTES

ug/l –Micrograms per liter
3-D Images Have 4x Vertical Exaggeration
All Measurements Taken at Monitoring Wells (MW) and Deep Monitoring Wells (MWD)

Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

PREPARED FOR KeySpan Corporation
One MetroTech Center
Brooklyn, New York

Former Glenwood Landing
Gas Plant Site
Glenwood Landing, New York

Three-Dimencional Visualization Depicting Groundwater Monitoring Analytical Results

DATE: OCTOBER 2003

SCALE: AS NOTED

FIGURE 8

D:\projects\glenwood\tc_solvents.mxd

Tables

Table 1: Groundwater Elevations as measured on March 10, 11, and 12, 2003

Date & Time	Corrected Groundwater Elevation Data (feet)								
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MWD-01	MWD-02	MWD-03
3/10/2003	High Tide: 03:20 & 15:56; Low Tide: 09:38*								
10:15	8.67	6.91	7.04	7.08	12.97	8.97	10.95	7.69	15.90
11:25	8.64	6.83	6.97	7.02	12.95	8.92	10.90	7.81	15.90
12:25	8.63	6.80	6.95	6.98	12.96	8.90	11.14	8.17	16.06
14:25	8.64	7.05	7.08	7.12	12.96	8.95	12.42	9.65	16.76
15:25	8.66	7.17	7.17	7.18	12.97	8.99	12.70	9.86	16.89
16:37	8.67	7.25	7.23	7.24	12.97	9.03	12.71	9.67	16.83
3/11/2003	High Tide: 04:10 & 16:52; Low Tide: 10:31*								
9:15	8.64	6.94	6.98	6.96	12.81	8.92	11.19	7.73	15.93
10:56	8.60	6.78	6.88	6.85	12.79	8.83	10.89	7.64	15.83
11:53	8.58	6.72	6.84	6.81	12.79	8.80	10.87	7.69	15.82
14:35	8.57	6.85	6.88	6.86	12.80	8.81	11.97	9.29	16.60
15:56	8.60	7.02	7.01	6.98	12.81	8.88	12.64	9.82	16.87
3/12/2003	High Tide: 05:07 & 17:57; Low Tide: 11:32*								
9:03	8.64	7.13	7.08	7.05	12.74	8.98	12.05	8.69	16.43
10:33	8.61	6.90	6.93	6.90	12.72	8.90	11.32	7.89	16.04
12:13	8.57	6.74	6.82	6.77	12.68	8.81	10.91	7.65	15.88
13:50	8.54	6.64	6.75	6.70	12.69	8.76	11.05	7.95	16.10
15:50	8.54	6.79	6.80	6.76	12.68	8.77	12.00	9.18	16.55
18:00	8.57	7.08	7.03	6.97	12.70	8.87	12.77	9.80	16.91

Notes: The tidal information presented in Table 1 was acquired from Newsday
* Low tides were determined from published high tides

TABLE 2
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MONITORING WELL RESULTS
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/05/2003 thru 03/07/2003 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MW-01 MW-01 03/06/2003 16.51	MW-02 MW-02 03/07/2003 12.05	MW-03 MW-03 03/07/2003 16.43	MW-04 MW-04 03/06/2003 16.86	MW-05 MW-05 03/06/2003 16.06
1,1,1-Trichloroethane	(ug/l)	5	2J	1J	2J	0.12U	1J
1,1,2,2-Tetrachloroethane	(ug/l)	0.2	0.35U	0.35U	0.35U	0.35U	0.35U
1,1,2-Trichloroethane	(ug/l)	1	0.24U	0.24U	0.24U	0.24U	0.24U
1,1-Dichloroethane	(ug/l)	5	2J	1J	2J	0.12U	1J
1,1-Dichloroethene	(ug/l)	0.7	0.14U	0.14U	0.14U	0.14U	0.14U
1,2-Dichloroethane	(ug/l)	0.6	0.26U	0.26U	0.26U	0.26U	0.26U
1,2-Dichloroethene (total)	(ug/l)		13	9J	11	5J	2.9U
1,2-Dichloropropane	(ug/l)	1	0.33U	0.33U	0.33U	0.33U	0.33U
2-Butanone	(ug/l)	50	0.75U	0.75U	0.75U	0.75U	0.75U
2-Hexanone	(ug/l)	50	1.4U	1.4U	1.4U	1.4U	1.4U
4-Methyl-2-pentanone	(ug/l)		0.3U	0.3U	0.3U	0.3U	0.3U
Acetone	(ug/l)	50	2.8U	2.8U	2.8U	2.8U	2.8U
Benzene	(ug/l)	1	0.25U	0.25U	0.25U	0.25U	0.25U
Bromodichloromethane	(ug/l)	50	0.2U	0.2U	0.2U	0.2U	0.2U
Bromoform	(ug/l)	50	3J	0.47U	0.47U	2J	1J
Bromomethane	(ug/l)	5	0.46U	0.46U	0.46U	0.46U	0.46U
Carbon disulfide	(ug/l)	50	0.15U	0.15U	0.15U	0.15U	0.15U
Carbon tetrachloride	(ug/l)	5	0.18U	0.18U	0.18U	0.18U	0.18U
Chlorobenzene	(ug/l)	5	0.34U	0.34U	0.34U	0.34U	0.34U
Chloroethane	(ug/l)	5	0.48U	0.48U	0.48U	0.48U	0.48U
Chloroform	(ug/l)	7	0.27U	0.27U	0.27U	0.27U	0.27U

ug/l - micrograms per liter

The following qualifier(s) exist: CLP Q: J, U

TABLE 2
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MONITORING WELL RESULTS
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/05/2003 thru 03/07/2003 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MW-01 MW-01 03/06/2003 16.51	MW-02 MW-02 03/07/2003 12.05	MW-03 MW-03 03/07/2003 16.43	MW-04 MW-04 03/06/2003 16.86	MW-05 MW-05 03/06/2003 16.06
Chloromethane	(ug/l)		0.42U	0.42U	0.42U	0.42U	0.42U
Dibromochloromethane	(ug/l)	50	2J	0.29U	0.29U	2J	0.29U
Ethylbenzene	(ug/l)	5	0.3U	0.3U	0.3U	0.3U	0.3U
Methylene chloride	(ug/l)	5	0.2U	0.2U	0.2U	0.2U	0.2U
Styrene	(ug/l)	50	0.35U	0.35U	0.35U	0.35U	0.35U
Tetrachloroethene	(ug/l)	0.7	[180]	[150]	[290]D	[94]	[2]J
Toluene	(ug/l)	5	0.23U	0.23U	0.23U	0.23U	0.23U
Trichloroethene	(ug/l)	5	[19]	[15]	[13]	4J	0.14U
Vinyl chloride	(ug/l)	0.3	0.41U	0.41U	0.41U	0.41U	0.41U
cis-1,3-Dichloropropene	(ug/l)	0.4	0.19U	0.19U	0.19U	0.19U	0.19U
trans-1,3-Dichloropropene	(ug/l)	0.4	0.39U	0.39U	0.39U	0.39U	0.39U
Xylene (total)	(ug/l)	5	0.33U	0.33U	0.33U	0.33U	0.33U
Total Chlorinated Solvents	(ug/l)		218	176	318	105	4

ug/l - micrograms per liter

The following qualifier(s) exist: CLP Q: J, U, D

TABLE 2
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MONITORING WELL RESULTS
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/05/2003 thru 03/07/2003 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MW-06 MW-06 03/06/2003 17.25	MWD-01 MWD-01 03/07/2003 90.70	MWD-02 MWD-02 03/07/2003 63.25	MWD-03 MWD-03 03/05/2003 90.82
1,1,1-Trichloroethane	(ug/l)	5	1J	1J	4J	[6]J
1,1,2,2-Tetrachloroethane	(ug/l)	0.2	0.35U	0.35U	0.35U	0.35U
1,1,2-Trichloroethane	(ug/l)	1	0.24U	0.24U	0.24U	0.24U
1,1-Dichloroethane	(ug/l)	5	2J	1J	[6]J	[6]J
1,1-Dichloroethene	(ug/l)	0.7	0.14U	0.14U	[2]J	[2]J
1,2-Dichloroethane	(ug/l)	0.6	0.26U	0.26U	0.26U	0.26U
1,2-Dichloroethene (total)	(ug/l)		21	2.9U	11	57
1,2-Dichloropropane	(ug/l)	1	0.33U	0.33U	0.33U	0.33U
2-Butanone	(ug/l)	50	0.75U	0.75U	0.75U	0.75U
2-Hexanone	(ug/l)	50	1.4U	1.4U	1.4U	1.4U
4-Methyl-2-pentanone	(ug/l)		0.3U	0.3U	0.3U	0.3U
Acetone	(ug/l)	50	2.8U	2.8U	2.8U	2.8U
Benzene	(ug/l)	1	0.25U	0.25U	0.25U	0.25U
Bromodichloromethane	(ug/l)	50	0.2U	0.2U	0.2U	0.2U
Bromoform	(ug/l)	50	1J	2J	0.47U	0.47U
Bromomethane	(ug/l)	5	0.46U	0.46U	0.46U	0.46U
Carbon disulfide	(ug/l)	50	0.15U	0.15U	0.15U	0.15U
Carbon tetrachloride	(ug/l)	5	0.18U	0.18U	2J	0.18U
Chlorobenzene	(ug/l)	5	0.34U	0.34U	0.34U	0.34U
Chloroethane	(ug/l)	5	0.48U	0.48U	0.48U	0.48U
Chloroform	(ug/l)	7	0.27U	0.27U	1J	0.27U

ug/l - micrograms per liter

The following qualifier(s) exist: CLP Q: J, U

TABLE 2
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MONITORING WELL RESULTS
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/05/2003 thru 03/07/2003 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MW-06 MW-06 03/06/2003 17.25	MWD-01 MWD-01 03/07/2003 90.70	MWD-02 MWD-02 03/07/2003 63.25	MWD-03 MWD-03 03/05/2003 90.82
Chloromethane	(ug/l)		0.42U	0.42U	0.42U	0.42U
Dibromochloromethane	(ug/l)	50	0.29U	2J	0.29U	0.29U
Ethylbenzene	(ug/l)	5	0.3U	0.3U	0.3U	0.3U
Methylene chloride	(ug/l)	5	0.2U	0.2U	0.2U	0.2U
Styrene	(ug/l)	50	0.35U	0.35U	0.35U	0.35U
Tetrachloroethene	(ug/l)	0.7	[310]D	0.42U	[820]D	[330]D
Toluene	(ug/l)	5	0.23U	0.23U	0.23U	0.23U
Trichloroethene	(ug/l)	5	[10]	0.14U	[16]	[210]D
Vinyl chloride	(ug/l)	0.3	0.41U	0.41U	0.41U	0.41U
cis-1,3-Dichloropropene	(ug/l)	0.4	0.19U	0.19U	0.19U	0.19U
trans-1,3-Dichloropropene	(ug/l)	0.4	0.39U	0.39U	0.39U	0.39U
Xylene (total)	(ug/l)	5	0.33U	0.33U	0.33U	0.33U
Total Chlorinated Solvents	(ug/l)		344	4	861	611

ug/l - micrograms per liter

The following qualifier(s) exist: CLP Q: U, J, D

TABLE 3

FORMER GLENWOOD LANDING GAS PLANT SITE

ON-SITE FIELD INVESTIGATION

MONITORING WELL RESULTS

BIOCHEMICAL AND CHEMICAL OXYGEN DEMAND MEASUREMENTS

PERIOD: From 03/05/2003 thru 03/07/2003 - Inclusive

SAMPLE TYPE: Water

CONSTITUENT	SITE		MW-01	MW-02	MW-03	MW-04	MW-05
	SAMPLE ID		MW-01	MW-02	MW-03	MW-04	MW-05
	DATE	NYSDEC	03/06/2003	03/07/2003	03/07/2003	03/06/2003	03/06/2003
	DEPTH (ft)	SCG	16.51	12.05	16.43	16.86	16.06
Biochemical Oxygen Demand	(mg/l)		0.64U	0.64U	0.64U	0.64U	0.64U
Chemical Oxygen Demand	(ug/l)		43000	46000	22000	46000	49000

mg/l - milligrams per liter
ug/l - micrograms per liter

The following qualifier(s) exist: CLP Q: U =Not analyzed

TABLE 3

FORMER GLENWOOD LANDING GAS PLANT SITE

ON-SITE FIELD INVESTIGATION

MONITORING WELL RESULTS

BIOCHEMICAL AND CHEMICAL OXYGEN DEMAND MEASUREMENTS

PERIOD: From 03/05/2003 thru 03/07/2003 - Inclusive

SAMPLE TYPE: Water

CONSTITUENT			SITE SAMPLE ID DATE DEPTH (ft)	MW-06 MW-06 03/06/2003 17.25	MWD-01 MWD-01 03/07/2003 90.70	MWD-02 MWD-02 03/07/2003 63.25	MWD-03 MWD-03 03/05/2003 90.82
		NYSDEC SCG					
Biochemical Oxygen Demand	(mg/l)			0.64U	0.64U	0.64U	0.64U
Chemical Oxygen Demand	(ug/l)			33000	49000	43000	54000

mg/l - milligrams per liter
ug/l - micrograms per liter

The following qualifier(s) exist: CLP Q: U =Not analyzed

TABLE 4

FORMER GLENWOOD LANDING GAS PLANT SITE

ON-SITE FIELD INVESTIGATION

MONITORING WELL RESULTS

METALS (TOTAL AND DISSOLVED)

PERIOD: From 03/05/2003 thru 03/07/2003 - Inclusive

SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MW-01 MW-01 03/06/2003 16.51	MW-02 MW-02 03/07/2003 12.05	MW-03 MW-03 03/07/2003 16.43	MW-04 MW-04 03/06/2003 16.86	MW-05 MW-05 03/06/2003 16.06
Arsenic	(ug/l)	25	1.2U	1.2U	0.3	1.2U	1.2U
Arsenic (Dissolved)	(ug/l)	25					
Barium	(ug/l)	1000	27.7B	22.3B	23.9B	6.4B	37.8B
Barium (Dissolved)	(ug/l)	1000					
Cadmium	(ug/l)	5	0.1U	0.9B	0.1U	0.1U	2.0B
Cadmium (Dissolved)	(ug/l)	5					
Chromium	(ug/l)	50	0.59B	1.9B	0.4	0.71B	0.65B
Chromium (Dissolved)	(ug/l)	50					
Lead	(ug/l)	25	1.5U	3.0	0.6	1.5U	12.9
Lead (Dissolved)	(ug/l)	25					
Mercury	(ug/l)	0.7	0.1U	0.1U	0.1U	0.1U	0.1U
Mercury (Dissolved)	(ug/l)	0.7					
Selenium	(ug/l)	10	2.2U	1.6	1.0	2.2U	2.2U
Selenium (Dissolved)	(ug/l)	10					
Silver	(ug/l)	50	0.4U	0.4U	0.4U	0.4U	0.4U
Silver (Dissolved)	(ug/l)	50					

ug/l - micrograms per liter

The following qualifier(s) exist: CLP Q: U, B

TABLE 4

FORMER GLENWOOD LANDING GAS PLANT SITE

ON-SITE FIELD INVESTIGATION

MONITORING WELL RESULTS

METALS (TOTAL AND DISSOLVED)

PERIOD: From 03/05/2003 thru 03/07/2003 - Inclusive

SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MW-06 MW-06 03/06/2003 17.25	MWD-01 MWD-01 03/07/2003 90.70	MWD-02 MWD-02 03/07/2003 63.25	MWD-03 MWD-03 03/05/2003 90.82
Arsenic	(ug/l)	25	1.2U	1.2U	1.2U	0.9
Arsenic (Dissolved)	(ug/l)	25		1.2U	1.2U	1.2U
Barium	(ug/l)	1000	30.3B	2.9U	77.6B	51.6B
Barium (Dissolved)	(ug/l)	1000		27.4B	48.4B	50.3B
Cadmium	(ug/l)	5	0.29B	0.1U	0.1U	0.21B
Cadmium (Dissolved)	(ug/l)	5		0.15B	0.1U	0.1U
Chromium	(ug/l)	50	0.69B	0.4U	9.6B	2.5B
Chromium (Dissolved)	(ug/l)	50		1.0B	1.7B	1.9B
Lead	(ug/l)	25	1.5U	1.5U	2.7B	1.5U
Lead (Dissolved)	(ug/l)	25		1.5U	1.5U	1.5U
Mercury	(ug/l)	0.7	0.1U	0.1U	0.1U	0.1U
Mercury (Dissolved)	(ug/l)	0.7		0.1U	0.1U	0.1U
Selenium	(ug/l)	10	2.2U	2.2U	2.2U	2.2U
Selenium (Dissolved)	(ug/l)	10		2.2U	2.2U	2.2U
Silver	(ug/l)	50	0.4U	0.4U	0.4U	0.4U
Silver (Dissolved)	(ug/l)	50		0.4U	0.4U	0.4U

ug/l - micrograms per liter

The following qualifier(s) exist: CLP Q: U, B

TABLE 5
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
DRY WELL AND OUTFALL RESULTS
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/19/2003 thru 03/20/2003 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	DW-1 DW-1 03/19/2003 0.00	DW-2 DW-2 03/19/2003 0.00	DW-3 DW-3 03/19/2003 0.00	OF-2 OF#2 03/20/2003 0.00	OF-3 OF#3 03/20/2003 0.00
1,1,1-Trichloroethane	(ug/l)	5	2J	0.12U	1J	0.12U	2J
1,1,2,2-Tetrachloroethane	(ug/l)	0.2	0.35U	0.35U	0.35U	0.35U	0.35U
1,1,2-Trichloroethane	(ug/l)	1	0.24U	0.24U	0.24U	0.24U	0.24U
1,1-Dichloroethane	(ug/l)	5	3J	0.12U	0.12U	2J	2J
1,1-Dichloroethene	(ug/l)	0.7	0.14U	0.14U	0.14U	0.14U	0.14U
1,2-Dichloroethane	(ug/l)	0.6	0.26U	0.26U	0.26U	0.26U	0.26U
1,2-Dichloroethene (total)	(ug/l)		18	5J	14	15	13
1,2-Dichloropropane	(ug/l)	1	0.33U	0.33U	0.33U	0.33U	0.33U
2-Butanone	(ug/l)	50	0.75U	0.75U	0.75U	0.75U	0.75U
2-Hexanone	(ug/l)	50	1.4U	1.4U	1.4U	1.4U	1.4U
4-Methyl-2-pentanone	(ug/l)		0.3U	0.3U	0.3U	0.3U	0.3U
Acetone	(ug/l)	50	2.8U	2.8U	2.8U	2.8U	2.8U
Benzene	(ug/l)	1	0.25U	0.25U	0.25U	0.25U	0.25U
Bromodichloromethane	(ug/l)	50	0.2U	0.2U	0.2U	0.2U	0.2U
Bromoform	(ug/l)	50	0.47U	0.47U	0.47U	0.47U	0.47U
Bromomethane	(ug/l)	5	0.46U	0.46U	0.46U	0.46U	0.46U
Carbon disulfide	(ug/l)	50	0.15U	0.15U	0.15U	0.15U	0.15U
Carbon tetrachloride	(ug/l)	5	0.18U	0.18U	0.18U	0.18U	0.18U
Chlorobenzene	(ug/l)	5	0.34U	0.34U	0.34U	0.34U	0.34U
Chloroethane	(ug/l)	5	0.48U	0.48U	0.48U	0.48U	0.48U
Chloroform	(ug/l)	7	0.27U	0.27U	0.27U	0.27U	0.27U

ug/l - micrograms per liter

The following qualifier(s) exist: CLP Q: J, U

TABLE 5
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
DRY WELL AND OUTFALL RESULTS
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/19/2003 thru 03/20/2003 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	DW-1 DW-1 03/19/2003 0.00	DW-2 DW-2 03/19/2003 0.00	DW-3 DW-3 03/19/2003 0.00	OF-2 OF#2 03/20/2003 0.00	OF-3 OF#3 03/20/2003 0.00
Chloromethane	(ug/l)		0.42U	0.42U	0.42U	0.42U	0.42U
Dibromochloromethane	(ug/l)	50	0.29U	0.29U	0.29U	0.29U	0.29U
Ethylbenzene	(ug/l)	5	0.3U	0.3U	0.3U	0.3U	0.3U
Methylene chloride	(ug/l)	5	0.2U	0.2U	0.2U	0.2U	0.2U
Styrene	(ug/l)	50	0.35U	0.35U	0.35U	0.35U	0.35U
Tetrachloroethene	(ug/l)	0.7	[200]D	[71]	[120]D	[180]D	[100]D
Toluene	(ug/l)	5	0.23U	0.23U	0.23U	0.23U	0.23U
Trichloroethene	(ug/l)	5	[40]	[9]J	[17]	[28]	[19]
Vinyl chloride	(ug/l)	0.3	0.41U	0.41U	0.41U	0.41U	0.41U
cis-1,3-Dichloropropene	(ug/l)	0.4	0.19U	0.19U	0.19U	0.19U	0.19U
trans-1,3-Dichloropropene	(ug/l)	0.4	0.39U	0.39U	0.39U	0.39U	0.39U
Xylene (total)	(ug/l)	5	0.33U	0.33U	0.33U	0.33U	0.33U
Total Chlorinated Solvents	(ug/l)		263	85	152	225	136

ug/l - micrograms per liter

The following qualifier(s) exist: CLP Q: U, D, J

TABLE 6
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MEMBRANE INTERFACE PROBE RESULTS - SOIL
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/13/2003 thru 03/18/2003 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MIP-01 GWMIP-01 (13-15 03/14/2003 13.00	MIP-01 GWMIP-01 (33-35 03/14/2003 33.00	MIP-02 GWMIP-02 (42-44 03/14/2003 42.00	MIP-03 GWMIP-03 (56-58 03/17/2003 56.00	MIP-04 GWMIP-04 (13-15 03/14/2003 13.00
1,1,1-Trichloroethane	(mg/kg)	0.8	0.0015U	0.0016U	0.0015U	0.0016U	0.0021U
1,1,2,2-Tetrachloroethane	(mg/kg)	0.6	0.0011U	0.0011U	0.0011U	0.0012U	0.0015U
1,1,2-Trichloroethane	(mg/kg)	0.8	0.0010U	0.0010U	0.0010U	0.0011U	0.0014U
1,1-Dichloroethane	(mg/kg)	0.2	0.00068U	0.00070U	0.00069U	0.00073U	0.00096U
1,1-Dichloroethene	(mg/kg)	0.4	0.0012U	0.0012U	0.0012U	0.0013U	0.0017U
1,2-Dichloroethane	(mg/kg)	0.1	0.00070U	0.00073U	0.00071U	0.00075U	0.00099U
1,2-Dichloroethene (total)	(mg/kg)	0.3	0.00068U	0.00071U	0.00069U	0.00073U	0.00096U
1,2-Dichloropropane	(mg/kg)		0.0010U	0.0011U	0.0010U	0.0011U	0.0015U
2-Butanone	(mg/kg)	0.3	0.0010U	0.0010U	0.0010U	0.0011U	0.052
2-Hexanone	(mg/kg)		0.00053U	0.00055U	0.00054U	0.00057U	0.00075U
4-Methyl-2-pentanone	(mg/kg)	1.0	0.00099U	0.0010U	0.0010U	0.0011U	0.0014U
Acetone	(mg/kg)	0.2	0.013	0.0032U	0.0031U	0.012J	0.18
Benzene	(mg/kg)	0.06	0.0011U	0.0011U	0.0011U	0.0012U	0.0015U
Bromodichloromethane	(mg/kg)		0.00082U	0.00085U	0.00084U	0.00088U	0.0012U
Bromoform	(mg/kg)		0.00073U	0.00076U	0.00075U	0.00079U	0.0010U
Bromomethane	(mg/kg)		0.0017U	0.0018U	0.0017U	0.0018U	0.0024U
Carbon disulfide	(mg/kg)	2.7	0.00098U	0.0010U	0.0010U	0.0011U	0.0014U
Carbon tetrachloride	(mg/kg)	0.6	0.0021U	0.0022U	0.0021U	0.0023U	0.0030U
Chlorobenzene	(mg/kg)	1.7	0.0017U	0.0017U	0.0017U	0.0018U	0.0023U
Chloroethane	(mg/kg)	1.9	0.0014U	0.0015U	0.0015U	0.0015U	0.0020U
Chloroform	(mg/kg)	0.3	0.00072U	0.00075U	0.00073U	0.00077U	0.0010U

mg/kg - milligrams per kilogram

The following qualifier(s) exist: CLP Q: U, J

TABLE 6
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MEMBRANE INTERFACE PROBE RESULTS - SOIL
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/13/2003 thru 03/18/2003 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MIP-01 GWMIP-01 (13-15 03/14/2003 13.00	MIP-01 GWMIP-01 (33-35 03/14/2003 33.00	MIP-02 GWMIP-02 (42-44 03/14/2003 42.00	MIP-03 GWMIP-03 (56-58 03/17/2003 56.00	MIP-04 GWMIP-04 (13-15 03/14/2003 13.00
Chloromethane	(mg/kg)		0.0015U	0.0016U	0.0015U	0.0016U	0.0021U
Dibromochloromethane	(mg/kg)		0.00065U	0.00067U	0.00066U	0.00070U	0.00091U
Ethylbenzene	(mg/kg)	5.5	0.0020U	0.0021U	0.0021U	0.0022U	0.0029U
Methylene chloride	(mg/kg)	0.1	0.0060BJ	0.0050BJ	0.0060BJ	0.010BJ	0.0060BJ
Styrene	(mg/kg)		0.0018U	0.0019U	0.0018U	0.0019U	0.0025U
Tetrachloroethene	(mg/kg)	1.4	0.0016U	0.0017U	0.0017U	0.0040J	0.0023U
Toluene	(mg/kg)	1.5	0.0019U	0.0020U	0.0020U	0.0021U	0.0027U
Trichloroethene	(mg/kg)	0.7	0.0015U	0.0015U	0.0015U	0.0016U	0.0021U
Vinyl chloride	(mg/kg)	0.2	0.0015U	0.0015U	0.0015U	0.0016U	0.0021U
cis-1,3-Dichloropropene	(mg/kg)		0.00083U	0.00086U	0.00085U	0.00089U	0.0012U
trans-1,3-Dichloropropene	(mg/kg)		0.00053U	0.00055U	0.00054U	0.00057U	0.00074U
Xylene (total)	(mg/kg)	1.2	0.0020U	0.0021U	0.0021U	0.0022U	0.0029U
Total Chlorinated Solvents	(mg/kg)		0.0060	0.0050	0.0060	0.014	0.0060

mg/kg - milligrams per kilogram

The following qualifier(s) exist: CLP Q: U, B, J

TABLE 6
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MEMBRANE INTERFACE PROBE RESULTS - SOIL
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/13/2003 thru 03/18/2003 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MIP-04 GWMIP-04 (44-46 03/14/2003 44.00	MIP-05 GWMIP-05 (58-60 03/17/2003 58.00	MIP-06 GWMIP-06 (28-30 03/14/2003 28.00	MIP-06 GWMIP-06 (36-38 03/14/2003 36.00	MIP-07 GWMIP-07 (10-12 03/14/2003 10.00
1,1,1-Trichloroethane	(mg/kg)	0.8	0.0017U	0.0016U	0.0015U	0.0019U	0.0016U
1,1,2,2-Tetrachloroethane	(mg/kg)	0.6	0.0012U	0.0011U	0.0011U	0.0013U	0.0011U
1,1,2-Trichloroethane	(mg/kg)	0.8	0.0011U	0.0011U	0.0010U	0.0012U	0.0010U
1,1-Dichloroethane	(mg/kg)	0.2	0.00077U	0.00071U	0.00068U	0.00085U	0.00070U
1,1-Dichloroethene	(mg/kg)	0.4	0.0014U	0.0013U	0.0012U	0.0015U	0.0012U
1,2-Dichloroethane	(mg/kg)	0.1	0.00080U	0.00074U	0.00070U	0.00087U	0.00072U
1,2-Dichloroethene (total)	(mg/kg)	0.3	0.00077U	0.00071U	0.00068U	0.00085U	0.00070U
1,2-Dichloropropane	(mg/kg)		0.0012U	0.0011U	0.0010U	0.0013U	0.0011U
2-Butanone	(mg/kg)	0.3	0.0011U	0.0011U	0.0010U	0.0012U	0.0010U
2-Hexanone	(mg/kg)		0.00060U	0.00056U	0.00053U	0.00066U	0.00055U
4-Methyl-2-pentanone	(mg/kg)	1.0	0.0011U	0.0010U	0.00099U	0.0012U	0.0010U
Acetone	(mg/kg)	0.2	0.0035U	0.0090J	0.0031U	0.0038U	0.011J
Benzene	(mg/kg)	0.06	0.0012U	0.0011U	0.0011U	0.0013U	0.0011U
Bromodichloromethane	(mg/kg)		0.00093U	0.00086U	0.00082U	0.0010U	0.00085U
Bromoform	(mg/kg)		0.00084U	0.00077U	0.00074U	0.00092U	0.00076U
Bromomethane	(mg/kg)		0.0019U	0.0018U	0.0017U	0.0021U	0.0018U
Carbon disulfide	(mg/kg)	2.7	0.0011U	0.0010U	0.00098U	0.0012U	0.0010U
Carbon tetrachloride	(mg/kg)	0.6	0.0024U	0.0022U	0.0021U	0.0026U	0.0022U
Chlorobenzene	(mg/kg)	1.7	0.0019U	0.0017U	0.0017U	0.0021U	0.0017U
Chloroethane	(mg/kg)	1.9	0.0016U	0.0015U	0.0014U	0.0018U	0.0015U
Chloroform	(mg/kg)	0.3	0.00082U	0.00076U	0.00072U	0.00090U	0.00074U

mg/kg - milligrams per kilogram

The following qualifier(s) exist: CLP Q: U, J

TABLE 6
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MEMBRANE INTERFACE PROBE RESULTS - SOIL
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/13/2003 thru 03/18/2003 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MIP-04 GWMIP-04 (44-46 03/14/2003 44.00	MIP-05 GWMIP-05 (58-60 03/17/2003 58.00	MIP-06 GWMIP-06 (28-30 03/14/2003 28.00	MIP-06 GWMIP-06 (36-38 03/14/2003 36.00	MIP-07 GWMIP-07 (10-12 03/14/2003 10.00
Chloromethane	(mg/kg)		0.0017U	0.0016U	0.0015U	0.0019U	0.0015U
Dibromochloromethane	(mg/kg)		0.00074U	0.00068U	0.00065U	0.00081U	0.00067U
Ethylbenzene	(mg/kg)	5.5	0.0023U	0.0021U	0.0020U	0.0025U	0.0021U
Methylene chloride	(mg/kg)	0.1	0.0060BJ	0.010BJ	0.0050BJ	0.0060BJ	0.0050BJ
Styrene	(mg/kg)		0.0020U	0.0019U	0.0018U	0.0022U	0.0019U
Tetrachloroethene	(mg/kg)	1.4	0.0040J	0.0017U	0.0040J	0.0020U	0.0017U
Toluene	(mg/kg)	1.5	0.0022U	0.0020U	0.0019U	0.0024U	0.0020U
Trichloroethene	(mg/kg)	0.7	0.0017U	0.0015U	0.0015U	0.0018U	0.0015U
Vinyl chloride	(mg/kg)	0.2	0.0017U	0.0016U	0.0015U	0.0019U	0.0015U
cis-1,3-Dichloropropene	(mg/kg)		0.00094U	0.00087U	0.00083U	0.0010U	0.00086U
trans-1,3-Dichloropropene	(mg/kg)		0.00060U	0.00055U	0.00053U	0.00066U	0.00054U
Xylene (total)	(mg/kg)	1.2	0.0023U	0.0021U	0.0021U	0.0025U	0.0021U
Total Chlorinated Solvents	(mg/kg)		0.010	0.010	0.0090	0.0060	0.00054

mg/kg - milligrams per kilogram

The following qualifier(s) exist: CLP Q: U, B, J

TABLE 6
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MEMBRANE INTERFACE PROBE RESULTS - SOIL
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/13/2003 thru 03/18/2003 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MIP-07 GWMIP-07 (30-32 03/14/2003 30.00	MIP-08 GWMIP-08 (29-31 03/14/2003 29.00	MIP-08 GWMIP-08 (38-40 03/14/2003 38.00	MIP-09 GWMIP-09 (25-27 03/14/2003 25.00	MIP-09 GWMIP-09 (30-32 03/14/2003 30.00
1,1,1-Trichloroethane	(mg/kg)	0.8	0.0015U	0.0018U	0.0020U	0.0016U	0.0016U
1,1,2,2-Tetrachloroethane	(mg/kg)	0.6	0.0011U	0.0013U	0.0014U	0.0012U	0.0012U
1,1,2-Trichloroethane	(mg/kg)	0.8	0.0010U	0.0012U	0.0014U	0.0011U	0.0011U
1,1-Dichloroethane	(mg/kg)	0.2	0.00069U	0.00082U	0.00092U	0.00073U	0.00074U
1,1-Dichloroethene	(mg/kg)	0.4	0.0012U	0.0014U	0.0016U	0.0013U	0.0013U
1,2-Dichloroethane	(mg/kg)	0.1	0.00071U	0.00085U	0.00095U	0.00076U	0.00077U
1,2-Dichloroethene (total)	(mg/kg)	0.3	0.00069U	0.00082U	0.00092U	0.00073U	0.00074U
1,2-Dichloropropane	(mg/kg)		0.0011U	0.0012U	0.0014U	0.0011U	0.0011U
2-Butanone	(mg/kg)	0.3	0.0010U	0.0012U	0.0014U	0.0011U	0.0011U
2-Hexanone	(mg/kg)		0.00054U	0.00064U	0.00072U	0.00057U	0.00058U
4-Methyl-2-pentanone	(mg/kg)	1.0	0.0010U	0.0012U	0.0013U	0.0011U	0.0011U
Acetone	(mg/kg)	0.2	0.0031U	0.013	0.0060J	0.0033U	0.0034U
Benzene	(mg/kg)	0.06	0.0011U	0.0013U	0.0014U	0.0012U	0.0012U
Bromodichloromethane	(mg/kg)		0.00084U	0.00099U	0.0011U	0.00089U	0.00090U
Bromoform	(mg/kg)		0.00075U	0.00089U	0.0010U	0.00080U	0.00081U
Bromomethane	(mg/kg)		0.0017U	0.0021U	0.0023U	0.0018U	0.0019U
Carbon disulfide	(mg/kg)	2.7	0.0010U	0.0012U	0.0013U	0.0011U	0.0011U
Carbon tetrachloride	(mg/kg)	0.6	0.0022U	0.0026U	0.0029U	0.0023U	0.0023U
Chlorobenzene	(mg/kg)	1.7	0.0017U	0.0020U	0.0022U	0.0018U	0.0018U
Chloroethane	(mg/kg)	1.9	0.0015U	0.0017U	0.0019U	0.0016U	0.0016U
Chloroform	(mg/kg)	0.3	0.00073U	0.00087U	0.00097U	0.00078U	0.00079U

mg/kg - milligrams per kilogram

The following qualifier(s) exist: CLP Q: U, J

TABLE 6
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MEMBRANE INTERFACE PROBE RESULTS - SOIL
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/13/2003 thru 03/18/2003 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MIP-07 GWMIP-07 (30-32 03/14/2003 30.00	MIP-08 GWMIP-08 (29-31 03/14/2003 29.00	MIP-08 GWMIP-08 (38-40 03/14/2003 38.00	MIP-09 GWMIP-09 (25-27 03/14/2003 25.00	MIP-09 GWMIP-09 (30-32 03/14/2003 30.00
Chloromethane	(mg/kg)		0.0015U	0.0018U	0.0020U	0.0016U	0.0016U
Dibromochloromethane	(mg/kg)		0.00066U	0.00079U	0.00088U	0.00070U	0.00071U
Ethylbenzene	(mg/kg)	5.5	0.0021U	0.0025U	0.0027U	0.0022U	0.0022U
Methylene chloride	(mg/kg)	0.1	0.0050BJ	0.0090BJ	0.0080BJ	0.0070BJ	0.0040BJ
Styrene	(mg/kg)		0.0018U	0.0022U	0.0024U	0.0019U	0.0020U
Tetrachloroethene	(mg/kg)	1.4	0.0017U	0.015	0.011J	0.0020J	0.0018U
Toluene	(mg/kg)	1.5	0.0020U	0.0023U	0.0026U	0.0021U	0.0021U
Trichloroethene	(mg/kg)	0.7	0.0015U	0.0018U	0.0020U	0.0016U	0.0016U
Vinyl chloride	(mg/kg)	0.2	0.0015U	0.0018U	0.0020U	0.0016U	0.0016U
cis-1,3-Dichloropropene	(mg/kg)		0.00085U	0.0010U	0.0011U	0.00090U	0.00091U
trans-1,3-Dichloropropene	(mg/kg)		0.00054U	0.00064U	0.00071U	0.00057U	0.00058U
Xylene (total)	(mg/kg)	1.2	0.0021U	0.0025U	0.0028U	0.0022U	0.0022U
Total Chlorinated Solvents	(mg/kg)		0.0050	0.024	0.019	0.0090	0.0040

mg/kg - milligrams per kilogram

The following qualifier(s) exist: CLP Q: U, B, J

TABLE 6
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MEMBRANE INTERFACE PROBE RESULTS - SOIL
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/13/2003 thru 03/18/2003 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MIP-10 GWMIP-10 (34-36 03/13/2003 34.00	MIP-10 GWMIP-10 (48-50 03/13/2003 48.00	MIP-11 GWMIP-11 (18-20 03/13/2003 18.00	MIP-11 GWMIP-11 (35-37 03/13/2003 35.00	MIP-12 GWMIP-12 (31-33 03/13/2003 31.00
1,1,1-Trichloroethane	(mg/kg)	0.8	0.0017U	0.0017U	0.0016U	0.0018U	0.0016U
1,1,2,2-Tetrachloroethane	(mg/kg)	0.6	0.0012U	0.0012U	0.0011U	0.0013U	0.0012U
1,1,2-Trichloroethane	(mg/kg)	0.8	0.0011U	0.0011U	0.0010U	0.0012U	0.0011U
1,1-Dichloroethane	(mg/kg)	0.2	0.00077U	0.00076U	0.00071U	0.00083U	0.00073U
1,1-Dichloroethene	(mg/kg)	0.4	0.0014U	0.0013U	0.0012U	0.0015U	0.0013U
1,2-Dichloroethane	(mg/kg)	0.1	0.00080U	0.00078U	0.00073U	0.00086U	0.00075U
1,2-Dichloroethene (total)	(mg/kg)	0.3	0.0050J	0.0020J	0.00071U	0.00083U	0.00073U
1,2-Dichloropropane	(mg/kg)		0.0012U	0.0012U	0.0011U	0.0013U	0.0011U
2-Butanone	(mg/kg)	0.3	0.0011U	0.0011U	0.0010U	0.0012U	0.0011U
2-Hexanone	(mg/kg)		0.00061U	0.00060U	0.00055U	0.00065U	0.00057U
4-Methyl-2-pentanone	(mg/kg)	1.0	0.0011U	0.0011U	0.0010U	0.0012U	0.0011U
Acetone	(mg/kg)	0.2	0.0090J	0.0035U	0.0032U	0.0038U	0.0033U
Benzene	(mg/kg)	0.06	0.0012U	0.0012U	0.0011U	0.0013U	0.0012U
Bromodichloromethane	(mg/kg)		0.00093U	0.00092U	0.00085U	0.0010U	0.00088U
Bromoform	(mg/kg)		0.00084U	0.00083U	0.00076U	0.00090U	0.00079U
Bromomethane	(mg/kg)		0.0019U	0.0019U	0.0018U	0.0021U	0.0018U
Carbon disulfide	(mg/kg)	2.7	0.0011U	0.0011U	0.0010U	0.0012U	0.0011U
Carbon tetrachloride	(mg/kg)	0.6	0.0024U	0.0024U	0.0022U	0.0026U	0.0023U
Chlorobenzene	(mg/kg)	1.7	0.0019U	0.0019U	0.0017U	0.0020U	0.0018U
Chloroethane	(mg/kg)	1.9	0.0016U	0.0016U	0.0015U	0.0018U	0.0015U
Chloroform	(mg/kg)	0.3	0.00082U	0.0010J	0.00075U	0.00088U	0.00077U

mg/kg - milligrams per kilogram

The following qualifier(s) exist: CLP Q: U, J

TABLE 6
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MEMBRANE INTERFACE PROBE RESULTS - SOIL
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/13/2003 thru 03/18/2003 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MIP-10 GWMIP-10 (34-36 03/13/2003 34.00	MIP-10 GWMIP-10 (48-50 03/13/2003 48.00	MIP-11 GWMIP-11 (18-20 03/13/2003 18.00	MIP-11 GWMIP-11 (35-37 03/13/2003 35.00	MIP-12 GWMIP-12 (31-33 03/13/2003 31.00
Chloromethane	(mg/kg)		0.0017U	0.0017U	0.0016U	0.0018U	0.0016U
Dibromochloromethane	(mg/kg)		0.00074U	0.00073U	0.00067U	0.00080U	0.00070U
Ethylbenzene	(mg/kg)	5.5	0.0023U	0.0023U	0.0021U	0.0025U	0.0022U
Methylene chloride	(mg/kg)	0.1	0.0080BJ	0.0080BJ	0.0040BJ	0.0050BJ	0.0040BJ
Styrene	(mg/kg)		0.0020U	0.0020U	0.0019U	0.0022U	0.0019U
Tetrachloroethene	(mg/kg)	1.4	0.046	0.021	0.0017U	0.0020U	0.0080J
Toluene	(mg/kg)	1.5	0.0022U	0.0030J	0.0020U	0.0024U	0.0021U
Trichloroethene	(mg/kg)	0.7	0.0060J	0.0020J	0.0015U	0.0018U	0.0030J
Vinyl chloride	(mg/kg)	0.2	0.0017U	0.0017U	0.0015U	0.0018U	0.0016U
cis-1,3-Dichloropropene	(mg/kg)		0.00095U	0.00093U	0.00086U	0.0010U	0.00089U
trans-1,3-Dichloropropene	(mg/kg)		0.00060U	0.00059U	0.00055U	0.00065U	0.00057U
Xylene (total)	(mg/kg)	1.2	0.0023U	0.0023U	0.0021U	0.0025U	0.0022U
Total Chlorinated Solvents	(mg/kg)		0.074	0.034	0.0040	0.0050	0.015

mg/kg - milligrams per kilogram

The following qualifier(s) exist: CLP Q: U, B, J

TABLE 6
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MEMBRANE INTERFACE PROBE RESULTS - SOIL
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/13/2003 thru 03/18/2003 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MIP-13 GWMIP-13 (36-38 03/13/2003 36.00	MIP-13 GWMIP-13 (18-20 03/13/2003 18.00	MIP-14 GWMIP-14 (38-40 03/13/2003 38.00	MIP-14 GWMIP-14 (59-61 03/13/2003 59.00	MIP-14 GWMIP-14 (31-33 03/13/2003 31.00
1,1,1-Trichloroethane	(mg/kg)	0.8	0.0018U	0.0016U	0.0019U	0.0016U	0.0018U
1,1,2,2-Tetrachloroethane	(mg/kg)	0.6	0.0013U	0.0011U	0.0014U	0.0012U	0.0013U
1,1,2-Trichloroethane	(mg/kg)	0.8	0.0012U	0.0010U	0.0013U	0.0011U	0.0012U
1,1-Dichloroethane	(mg/kg)	0.2	0.00081U	0.00071U	0.00086U	0.00074U	0.00081U
1,1-Dichloroethene	(mg/kg)	0.4	0.0014U	0.0012U	0.0015U	0.0013U	0.0014U
1,2-Dichloroethane	(mg/kg)	0.1	0.00084U	0.00073U	0.00089U	0.00076U	0.00083U
1,2-Dichloroethene (total)	(mg/kg)	0.3	0.00081U	0.00071U	0.00086U	0.00074U	0.00081U
1,2-Dichloropropane	(mg/kg)		0.0012U	0.0011U	0.0013U	0.0011U	0.0012U
2-Butanone	(mg/kg)	0.3	0.0012U	0.0010U	0.0013U	0.012	0.0012U
2-Hexanone	(mg/kg)		0.00064U	0.00055U	0.00068U	0.00058U	0.00063U
4-Methyl-2-pentanone	(mg/kg)	1.0	0.0012U	0.0010U	0.0013U	0.0011U	0.0012U
Acetone	(mg/kg)	0.2	0.0037U	0.012	0.0039U	0.012	0.0037U
Benzene	(mg/kg)	0.06	0.0013U	0.0011U	0.0014U	0.0012U	0.0013U
Bromodichloromethane	(mg/kg)		0.00098U	0.00086U	0.0010U	0.00089U	0.00098U
Bromoform	(mg/kg)		0.00088U	0.00077U	0.00094U	0.00080U	0.00088U
Bromomethane	(mg/kg)		0.0020U	0.0018U	0.0022U	0.0018U	0.0020U
Carbon disulfide	(mg/kg)	2.7	0.0012U	0.0010U	0.0012U	0.0011U	0.0012U
Carbon tetrachloride	(mg/kg)	0.6	0.0025U	0.0022U	0.0027U	0.0023U	0.0025U
Chlorobenzene	(mg/kg)	1.7	0.0020U	0.0017U	0.0021U	0.0018U	0.0020U
Chloroethane	(mg/kg)	1.9	0.0017U	0.0015U	0.0018U	0.0016U	0.0017U
Chloroform	(mg/kg)	0.3	0.0010J	0.00075U	0.00092U	0.00078U	0.00086U

mg/kg - milligrams per kilogram

The following qualifier(s) exist: CLP Q: U, J

TABLE 6
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MEMBRANE INTERFACE PROBE RESULTS - SOIL
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/13/2003 thru 03/18/2003 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MIP-13 GWMIP-13 (36-38 03/13/2003 36.00	MIP-13 GWMIP-13 (18-20 03/13/2003 18.00	MIP-14 GWMIP-14 (38-40 03/13/2003 38.00	MIP-14 GWMIP-14 (59-61 03/13/2003 59.00	MIP-14 GWMIP-14 (31-33 03/13/2003 31.00
Chloromethane	(mg/kg)		0.0018U	0.0016U	0.0019U	0.0016U	0.0018U
Dibromochloromethane	(mg/kg)		0.00078U	0.012	0.00083U	0.00070U	0.00077U
Ethylbenzene	(mg/kg)	5.5	0.0024U	0.0021U	0.0026U	0.0022U	0.0024U
Methylene chloride	(mg/kg)	0.1	0.0040BJ	0.0040BJ	0.0040BJ	0.0080BJ	0.0080BJ
Styrene	(mg/kg)		0.0021U	0.0019U	0.0023U	0.0019U	0.0021U
Tetrachloroethene	(mg/kg)	1.4	0.0060J	0.0050J	0.024	0.0020J	0.0060J
Toluene	(mg/kg)	1.5	0.0023U	0.0020U	0.0025U	0.0021U	0.0023U
Trichloroethene	(mg/kg)	0.7	0.0018U	0.0015U	0.0020J	0.0016U	0.0018U
Vinyl chloride	(mg/kg)	0.2	0.0018U	0.0016U	0.0019U	0.0016U	0.0018U
cis-1,3-Dichloropropene	(mg/kg)		0.00099U	0.00086U	0.0011U	0.00090U	0.00099U
trans-1,3-Dichloropropene	(mg/kg)		0.00063U	0.00055U	0.00067U	0.00057U	0.00063U
Xylene (total)	(mg/kg)	1.2	0.0024U	0.0021U	0.0026U	0.0022U	0.0024U
Total Chlorinated Solvents	(mg/kg)		0.011	0.0090	0.030	0.010	0.014

mg/kg - milligrams per kilogram

The following qualifier(s) exist: CLP Q: U, B, J

TABLE 6
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MEMBRANE INTERFACE PROBE RESULTS - SOIL
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/13/2003 thru 03/18/2003 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MIP-16 GWMIP-16 (34-36 03/13/2003 34.00	MIP-16 GWMIP-16 (48-50 03/13/2003 48.00	MIP-18 GWMIP-18 (35-37 03/18/2003 35.00	MIP-18 GWMIP-18 (43-45 03/18/2003 43.00	MIP-20 GWMIP-20 (58-60 03/17/2003 58.00
1,1,1-Trichloroethane	(mg/kg)	0.8	0.0018U	0.0016U	0.0018U	0.0019U	0.0016U
1,1,2,2-Tetrachloroethane	(mg/kg)	0.6	0.0013U	0.0012U	0.0013U	0.0014U	0.0011U
1,1,2-Trichloroethane	(mg/kg)	0.8	0.0012U	0.0011U	0.0012U	0.0013U	0.0011U
1,1-Dichloroethane	(mg/kg)	0.2	0.00083U	0.00073U	0.00081U	0.00086U	0.00072U
1,1-Dichloroethene	(mg/kg)	0.4	0.0015U	0.0013U	0.0014U	0.0015U	0.0013U
1,2-Dichloroethane	(mg/kg)	0.1	0.00086U	0.00075U	0.00084U	0.00089U	0.00075U
1,2-Dichloroethene (total)	(mg/kg)	0.3	0.00083U	0.00073U	0.00081U	0.00086U	0.00072U
1,2-Dichloropropane	(mg/kg)		0.0013U	0.0011U	0.0012U	0.0013U	0.0011U
2-Butanone	(mg/kg)	0.3	0.0012U	0.012	0.0012U	0.0013U	0.0011U
2-Hexanone	(mg/kg)		0.00065U	0.00057U	0.00063U	0.00067U	0.00057U
4-Methyl-2-pentanone	(mg/kg)	1.0	0.0012U	0.0011U	0.0012U	0.0013U	0.0011U
Acetone	(mg/kg)	0.2	0.0038U	0.012	0.0037U	0.0039U	0.0090J
Benzene	(mg/kg)	0.06	0.0013U	0.0012U	0.0013U	0.0014U	0.0011U
Bromodichloromethane	(mg/kg)		0.0010U	0.00088U	0.00098U	0.0010U	0.00087U
Bromoform	(mg/kg)		0.00090U	0.00079U	0.00088U	0.00093U	0.00078U
Bromomethane	(mg/kg)		0.0021U	0.0018U	0.0020U	0.0022U	0.0018U
Carbon disulfide	(mg/kg)	2.7	0.0012U	0.0011U	0.0012U	0.0012U	0.0010U
Carbon tetrachloride	(mg/kg)	0.6	0.0026U	0.0023U	0.0025U	0.0027U	0.0022U
Chlorobenzene	(mg/kg)	1.7	0.0020U	0.0018U	0.0020U	0.0021U	0.0018U
Chloroethane	(mg/kg)	1.9	0.0018U	0.0015U	0.0017U	0.0018U	0.0015U
Chloroform	(mg/kg)	0.3	0.00088U	0.00078U	0.00086U	0.00091U	0.00077U

mg/kg - milligrams per kilogram

The following qualifier(s) exist: CLP Q: U, J

TABLE 6
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MEMBRANE INTERFACE PROBE RESULTS - SOIL
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/13/2003 thru 03/18/2003 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MIP-16 GWMIP-16 (34-36 03/13/2003 34.00	MIP-16 GWMIP-16 (48-50 03/13/2003 48.00	MIP-18 GWMIP-18 (35-37 03/18/2003 35.00	MIP-18 GWMIP-18 (43-45 03/18/2003 43.00	MIP-20 GWMIP-20 (58-60 03/17/2003 58.00
Chloromethane	(mg/kg)		0.0018U	0.0016U	0.0018U	0.0019U	0.0016U
Dibromochloromethane	(mg/kg)		0.00080U	0.00070U	0.00077U	0.00082U	0.00069U
Ethylbenzene	(mg/kg)	5.5	0.0025U	0.0022U	0.0024U	0.0026U	0.0022U
Methylene chloride	(mg/kg)	0.1	0.0090BJ	0.0090BJ	0.013B	0.014B	0.011BJ
Styrene	(mg/kg)		0.0022U	0.0019U	0.0021U	0.0023U	0.0019U
Tetrachloroethene	(mg/kg)	1.4	0.012J	0.0017U	0.0070J	0.015	0.0030J
Toluene	(mg/kg)	1.5	0.0024U	0.0021U	0.0023U	0.0025U	0.0021U
Trichloroethene	(mg/kg)	0.7	0.0018U	0.0016U	0.0018U	0.0019U	0.0016U
Vinyl chloride	(mg/kg)	0.2	0.0018U	0.0016U	0.0018U	0.0019U	0.0016U
cis-1,3-Dichloropropene	(mg/kg)		0.0010U	0.00089U	0.00099U	0.0011U	0.00088U
trans-1,3-Dichloropropene	(mg/kg)		0.00065U	0.00057U	0.00063U	0.00067U	0.00056U
Xylene (total)	(mg/kg)	1.2	0.0025U	0.0022U	0.0024U	0.0026U	0.0022U
Total Chlorinated Solvents	(mg/kg)		0.021	0.0090	0.020	0.029	0.014

mg/kg - milligrams per kilogram

The following qualifier(s) exist: CLP Q: U, B, J

TABLE 7
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MEMBRANE INTERFACE PROBE RESULTS - GROUNDWATER
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/17/2003 thru 03/19/2003 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MIP-01 GWMIP-01 (31-35 03/17/2003 31.00	MIP-01 GWMIP-01 (11-15 03/17/2003 11.00	MIP-02 GWMIP-2 (40-44' 03/17/2003 40.00	MIP-03 GWMIP-03 (54-58 03/18/2003 54.00	MIP-04 GWMIP-04 (42-46 03/18/2003 42.00
1,1,1-Trichloroethane	(ug/l)	5	2J	2J	1J	2J	0.12U
1,1,2,2-Tetrachloroethane	(ug/l)	0.2	0.35U	0.35U	0.35U	0.35U	0.35U
1,1,2-Trichloroethane	(ug/l)	1	0.24U	0.24U	0.24U	0.24U	0.24U
1,1-Dichloroethane	(ug/l)	5	2J	2J	2J	[6]J	3J
1,1-Dichloroethene	(ug/l)	0.7	0.14U	0.14U	0.14U	0.14U	0.14U
1,2-Dichloroethane	(ug/l)	0.6	0.26U	0.26U	0.26U	0.26U	0.26U
1,2-Dichloroethene (total)	(ug/l)		21	18	17	130	26
1,2-Dichloropropane	(ug/l)	1	0.33U	0.33U	0.33U	0.33U	0.33U
2-Butanone	(ug/l)	50	0.75U	0.75U	0.75U	0.75U	0.75U
2-Hexanone	(ug/l)	50	1.4U	1.4U	1.4U	1.4U	1.4U
4-Methyl-2-pentanone	(ug/l)		0.3U	0.3U	0.3U	0.3U	0.3U
Acetone	(ug/l)	50	3J	3J	2.8U	2.8U	2.8U
Benzene	(ug/l)	1	0.25U	0.25U	0.25U	0.25U	0.25U
Bromodichloromethane	(ug/l)	50	0.2U	0.2U	0.2U	0.2U	0.2U
Bromoform	(ug/l)	50	0.47U	0.47U	0.47U	0.47U	0.47U
Bromomethane	(ug/l)	5	0.46U	0.46U	0.46U	0.46U	0.46U
Carbon disulfide	(ug/l)	50	0.15U	0.15U	0.15U	0.15U	0.15U
Carbon tetrachloride	(ug/l)	5	0.18U	0.18U	0.18U	0.18U	0.18U
Chlorobenzene	(ug/l)	5	0.34U	0.34U	0.34U	0.34U	0.34U
Chloroethane	(ug/l)	5	0.48U	0.48U	0.48U	0.48U	0.48U
Chloroform	(ug/l)	7	0.27U	0.27U	0.27U	0.27U	0.27U

ug/l - micrograms per liter

The following qualifier(s) exist: CLP Q: J, U

TABLE 7
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MEMBRANE INTERFACE PROBE RESULTS - GROUNDWATER
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/17/2003 thru 03/19/2003 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MIP-01 GWMIP-01 (31-35 03/17/2003 31.00	MIP-01 GWMIP-01 (11-15 03/17/2003 11.00	MIP-02 GWMIP-2 (40-44' 03/17/2003 40.00	MIP-03 GWMIP-03 (54-58 03/18/2003 54.00	MIP-04 GWMIP-04 (42-46 03/18/2003 42.00
Chloromethane	(ug/l)		0.42U	0.42U	0.42U	0.42U	0.42U
Dibromochloromethane	(ug/l)	50	0.29U	0.29U	0.29U	0.29U	0.29U
Ethylbenzene	(ug/l)	5	0.3U	0.3U	0.3U	0.3U	0.3U
Methylene chloride	(ug/l)	5	0.2U	0.2U	0.2U	0.2U	0.2U
Styrene	(ug/l)	50	0.35U	0.35U	0.35U	0.35U	0.35U
Tetrachloroethene	(ug/l)	0.7	[200]D	[92]	[130]D	[1500]D	[340]D
Toluene	(ug/l)	5	0.23U	0.23U	0.23U	0.23U	0.23U
Trichloroethene	(ug/l)	5	[36]	[11]	[7]J	[73]	[14]
Vinyl chloride	(ug/l)	0.3	0.41U	0.41U	0.41U	0.41U	0.41U
cis-1,3-Dichloropropene	(ug/l)	0.4	0.19U	0.19U	0.19U	0.19U	0.19U
trans-1,3-Dichloropropene	(ug/l)	0.4	0.39U	0.39U	0.39U	0.39U	0.39U
Xylene (total)	(ug/l)	5	0.33U	0.33U	0.33U	0.33U	0.33U
Total Chlorinated Solvents	(ug/l)		261	125	157	1711	383

ug/l - micrograms per liter

The following qualifier(s) exist: CLP Q: U, D, J

TABLE 7
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MEMBRANE INTERFACE PROBE RESULTS - GROUNDWATER
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/17/2003 thru 03/19/2003 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MIP-04 GWMIP-04 (11-15 03/18/2003 11.00	MIP-05 GWMIP-05 (56-60 03/18/2003 56.00	MIP-06 GWMIP-06 (34-38 03/19/2003 34.00	MIP-06 GWMIP-06 (26-30 03/19/2003 26.00	MIP-07 GWMIP-07 (28-32 03/18/2003 28.00
1,1,1-Trichloroethane	(ug/l)	5	0.12U	1J	0.12U	2J	1J
1,1,2,2-Tetrachloroethane	(ug/l)	0.2	0.35U	0.35U	0.35U	0.35U	0.35U
1,1,2-Trichloroethane	(ug/l)	1	0.24U	0.24U	0.24U	0.24U	0.24U
1,1-Dichloroethane	(ug/l)	5	2J	[5]J	0.12U	3J	3J
1,1-Dichloroethene	(ug/l)	0.7	0.14U	0.14U	0.14U	0.14U	0.14U
1,2-Dichloroethane	(ug/l)	0.6	0.26U	0.26U	0.26U	0.26U	0.26U
1,2-Dichloroethene (total)	(ug/l)		2.9U	97	2.9U	7J	2.9U
1,2-Dichloropropane	(ug/l)	1	0.33U	0.33U	0.33U	0.33U	0.33U
2-Butanone	(ug/l)	50	0.75U	0.75U	0.75U	0.75U	0.75U
2-Hexanone	(ug/l)	50	1.4U	1.4U	1.4U	1.4U	1.4U
4-Methyl-2-pentanone	(ug/l)		0.3U	0.3U	0.3U	0.3U	0.3U
Acetone	(ug/l)	50	2.8U	2.8U	2.8U	2.8U	2.8U
Benzene	(ug/l)	1	0.25U	0.25U	0.25U	0.25U	0.25U
Bromodichloromethane	(ug/l)	50	0.2U	0.2U	0.2U	0.2U	0.2U
Bromoform	(ug/l)	50	0.47U	0.47U	0.47U	0.47U	0.47U
Bromomethane	(ug/l)	5	0.46U	0.46U	0.46U	0.46U	0.46U
Carbon disulfide	(ug/l)	50	0.15U	0.15U	0.15U	0.15U	0.15U
Carbon tetrachloride	(ug/l)	5	0.18U	0.18U	0.18U	0.18U	0.18U
Chlorobenzene	(ug/l)	5	0.34U	0.34U	0.34U	0.34U	0.34U
Chloroethane	(ug/l)	5	0.48U	0.48U	0.48U	0.48U	0.48U
Chloroform	(ug/l)	7	0.27U	0.27U	0.27U	0.27U	0.27U

ug/l - micrograms per liter

The following qualifier(s) exist: CLP Q: U, J

TABLE 7
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MEMBRANE INTERFACE PROBE RESULTS - GROUNDWATER
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/17/2003 thru 03/19/2003 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MIP-04 GWMIP-04 (11-15 03/18/2003 11.00	MIP-05 GWMIP-05 (56-60 03/18/2003 56.00	MIP-06 GWMIP-06 (34-38 03/19/2003 34.00	MIP-06 GWMIP-06 (26-30 03/19/2003 26.00	MIP-07 GWMIP-07 (28-32 03/18/2003 28.00
Chloromethane	(ug/l)		0.42U	0.42U	0.42U	0.42U	0.42U
Dibromochloromethane	(ug/l)	50	0.29U	0.29U	0.29U	0.29U	0.29U
Ethylbenzene	(ug/l)	5	0.3U	0.3U	0.3U	0.3U	0.3U
Methylene chloride	(ug/l)	5	0.2U	0.2U	0.2U	0.2U	0.2U
Styrene	(ug/l)	50	0.35U	0.35U	0.35U	0.35U	0.35U
Tetrachloroethene	(ug/l)	0.7	[23]	[810]D	[7]J	[61]	[10]
Toluene	(ug/l)	5	0.23U	0.23U	0.23U	0.23U	0.23U
Trichloroethene	(ug/l)	5	0.14U	[31]	2J	[14]	2J
Vinyl chloride	(ug/l)	0.3	0.41U	0.41U	0.41U	0.41U	0.41U
cis-1,3-Dichloropropene	(ug/l)	0.4	0.19U	0.19U	0.19U	0.19U	0.19U
trans-1,3-Dichloropropene	(ug/l)	0.4	0.39U	0.39U	0.39U	0.39U	0.39U
Xylene (total)	(ug/l)	5	0.33U	0.33U	0.33U	0.33U	0.33U
Total Chlorinated Solvents	(ug/l)		25	944	9	87	16

ug/l - micrograms per liter

The following qualifier(s) exist: CLP Q: U, D, J

TABLE 7
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MEMBRANE INTERFACE PROBE RESULTS - GROUNDWATER
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/17/2003 thru 03/19/2003 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MIP-07 GWMIP-07 (8-12' 03/18/2003 8.00	MIP-08 GWMIP-08 (36-40 03/19/2003 36.00	MIP-08 GWMIP-08 (27-31 03/19/2003 27.00	MIP-09 GWMIP-09 (28-32 03/19/2003 28.00	MIP-09 GWMIP-09 (21-25 03/19/2003 21.00
1,1,1-Trichloroethane	(ug/l)	5	0.12U	[5]J	[5]J	[7]J	[6]J
1,1,2,2-Tetrachloroethane	(ug/l)	0.2	0.35U	0.35U	0.35U	0.35U	0.35U
1,1,2-Trichloroethane	(ug/l)	1	0.24U	0.24U	0.24U	0.24U	0.24U
1,1-Dichloroethane	(ug/l)	5	0.12U	[6]J	[7]J	[8]J	[8]J
1,1-Dichloroethene	(ug/l)	0.7	0.14U	[1]J	0.14U	0.14U	0.14U
1,2-Dichloroethane	(ug/l)	0.6	0.26U	0.26U	0.26U	0.26U	0.26U
1,2-Dichloroethene (total)	(ug/l)		2.9U	23	25	36	34
1,2-Dichloropropane	(ug/l)	1	0.33U	0.33U	0.33U	0.33U	0.33U
2-Butanone	(ug/l)	50	0.75U	0.75U	0.75U	0.75U	0.75U
2-Hexanone	(ug/l)	50	1.4U	1.4U	1.4U	1.4U	1.4U
4-Methyl-2-pentanone	(ug/l)		0.3U	0.3U	0.3U	0.3U	0.3U
Acetone	(ug/l)	50	5BJ	2.8U	2.8U	2.8U	2.8U
Benzene	(ug/l)	1	0.25U	0.25U	0.25U	0.25U	0.25U
Bromodichloromethane	(ug/l)	50	0.2U	0.2U	0.2U	0.2U	0.2U
Bromoform	(ug/l)	50	0.47U	0.47U	0.47U	0.47U	0.47U
Bromomethane	(ug/l)	5	0.46U	0.46U	0.46U	0.46U	0.46U
Carbon disulfide	(ug/l)	50	0.15U	0.15U	0.15U	0.15U	0.15U
Carbon tetrachloride	(ug/l)	5	0.18U	0.18U	0.18U	0.18U	0.18U
Chlorobenzene	(ug/l)	5	0.34U	0.34U	0.34U	0.34U	0.34U
Chloroethane	(ug/l)	5	0.48U	0.48U	0.48U	0.48U	0.48U
Chloroform	(ug/l)	7	0.27U	0.27U	1J	0.27U	0.27U

ug/l - micrograms per liter

The following qualifier(s) exist: CLP Q: U, J, B

TABLE 7
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MEMBRANE INTERFACE PROBE RESULTS - GROUNDWATER
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/17/2003 thru 03/19/2003 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MIP-07 GWMIP-07 (8-12' 03/18/2003 8.00	MIP-08 GWMIP-08 (36-40 03/19/2003 36.00	MIP-08 GWMIP-08 (27-31 03/19/2003 27.00	MIP-09 GWMIP-09 (28-32 03/19/2003 28.00	MIP-09 GWMIP-09 (21-25 03/19/2003 21.00
Chloromethane	(ug/l)		0.42U	0.42U	0.42U	0.42U	0.42U
Dibromochloromethane	(ug/l)	50	0.29U	0.29U	0.29U	0.29U	0.29U
Ethylbenzene	(ug/l)	5	0.3U	0.3U	0.3U	0.3U	0.3U
Methylene chloride	(ug/l)	5	0.2U	0.2U	0.2U	0.2U	0.2U
Styrene	(ug/l)	50	0.35U	0.35U	0.35U	0.35U	0.35U
Tetrachloroethene	(ug/l)	0.7	0.42U	[410]D	[480]D	[690]D	[820]D
Toluene	(ug/l)	5	0.23U	0.23U	0.23U	0.23U	0.23U
Trichloroethene	(ug/l)	5	0.14U	[38]	[44]	[72]	[71]
Vinyl chloride	(ug/l)	0.3	0.41U	0.41U	0.41U	0.41U	0.41U
cis-1,3-Dichloropropene	(ug/l)	0.4	0.19U	0.19U	0.19U	0.19U	0.19U
trans-1,3-Dichloropropene	(ug/l)	0.4	0.39U	0.39U	0.39U	0.39U	0.39U
Xylene (total)	(ug/l)	5	0.33U	0.33U	0.33U	0.33U	0.33U
Total Chlorinated Solvents	(ug/l)		0	483	561	813	949

ug/l - micrograms per liter

The following qualifier(s) exist: CLP Q: U, D

TABLE 7
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MEMBRANE INTERFACE PROBE RESULTS - GROUNDWATER
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/17/2003 thru 03/19/2003 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MIP-10 GWMIP-10 (46-50 03/19/2003 46.00	MIP-10 GWMIP-10 (32-36 03/19/2003 32.00	MIP-11 GWMIP-11 (33-37 03/19/2003 33.00	MIP-11 GWMIP-11 (16-20 03/19/2003 16.00	MIP-12 GWMIP-12 (29-33 03/19/2003 29.00
1,1,1-Trichloroethane	(ug/l)	5	[6]J	[6]J	0.12U	3J	0.12U
1,1,2,2-Tetrachloroethane	(ug/l)	0.2	0.35U	0.35U	0.35U	[1]J	0.35U
1,1,2-Trichloroethane	(ug/l)	1	0.24U	0.24U	0.24U	0.24U	0.24U
1,1-Dichloroethane	(ug/l)	5	[6]J	[6]J	2J	3J	2J
1,1-Dichloroethene	(ug/l)	0.7	[1]J	[2]J	0.14U	0.14U	0.14U
1,2-Dichloroethane	(ug/l)	0.6	0.26U	0.26U	0.26U	0.26U	0.26U
1,2-Dichloroethene (total)	(ug/l)		140	100	5J	18	9.9J
1,2-Dichloropropane	(ug/l)	1	0.33U	0.33U	0.33U	0.33U	0.33U
2-Butanone	(ug/l)	50	0.75U	0.75U	0.75U	0.75U	0.75U
2-Hexanone	(ug/l)	50	1.4U	1.4U	1.4U	1.4U	1.4U
4-Methyl-2-pentanone	(ug/l)		0.3U	0.3U	0.3U	0.3U	0.3U
Acetone	(ug/l)	50	2.8U	2.8U	2.8U	4BJ	6BJ
Benzene	(ug/l)	1	0.25U	0.25U	0.25U	0.25U	0.25U
Bromodichloromethane	(ug/l)	50	0.2U	0.2U	0.2U	0.2U	0.2U
Bromoform	(ug/l)	50	0.47U	0.47U	0.47U	0.47U	0.47U
Bromomethane	(ug/l)	5	0.46U	0.46U	0.46U	0.46U	0.46U
Carbon disulfide	(ug/l)	50	0.15U	0.15U	0.15U	0.15U	0.15U
Carbon tetrachloride	(ug/l)	5	0.18U	0.18U	0.18U	0.18U	0.18U
Chlorobenzene	(ug/l)	5	0.34U	0.34U	0.34U	0.34U	0.34U
Chloroethane	(ug/l)	5	0.48U	0.48U	0.48U	0.48U	0.48U
Chloroform	(ug/l)	7	0.27U	0.27U	0.27U	0.27U	0.27U

ug/l - micrograms per liter

The following qualifier(s) exist: CLP Q: J, U, B

TABLE 7
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MEMBRANE INTERFACE PROBE RESULTS - GROUNDWATER
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/17/2003 thru 03/19/2003 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MIP-10 GWMIP-10 (46-50 03/19/2003 46.00	MIP-10 GWMIP-10 (32-36 03/19/2003 32.00	MIP-11 GWMIP-11 (33-37 03/19/2003 33.00	MIP-11 GWMIP-11 (16-20 03/19/2003 16.00	MIP-12 GWMIP-12 (29-33 03/19/2003 29.00
Chloromethane	(ug/l)		0.42U	0.42U	0.42U	0.42U	0.42U
Dibromochloromethane	(ug/l)	50	0.29U	0.29U	0.29U	0.29U	0.29U
Ethylbenzene	(ug/l)	5	0.3U	0.3U	0.3U	0.3U	0.3U
Methylene chloride	(ug/l)	5	0.2U	0.2U	0.2U	0.2U	0.2U
Styrene	(ug/l)	50	0.35U	0.35U	0.35U	0.35U	0.35U
Tetrachloroethene	(ug/l)	0.7	[1500]D	[1200]D	[35]	[250]D	[46]
Toluene	(ug/l)	5	0.23U	0.23U	0.23U	0.23U	0.23U
Trichloroethene	(ug/l)	5	[210]D	[190]D	[26]	[37]	[24]
Vinyl chloride	(ug/l)	0.3	0.41U	0.41U	0.41U	0.41U	0.41U
cis-1,3-Dichloropropene	(ug/l)	0.4	0.19U	0.19U	0.19U	0.19U	0.19U
trans-1,3-Dichloropropene	(ug/l)	0.4	0.39U	0.39U	0.39U	0.39U	0.39U
Xylene (total)	(ug/l)	5	0.33U	0.33U	0.33U	0.33U	0.33U
Total Chlorinated Solvents	(ug/l)		1863	1504	68	291	81.9

ug/l - micrograms per liter

The following qualifier(s) exist: CLP Q: U, D

TABLE 7
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MEMBRANE INTERFACE PROBE RESULTS - GROUNDWATER
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/17/2003 thru 03/19/2003 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MIP-13 GWMIP-13 (34-38 03/19/2003 34.00	MIP-13 GWMIP-13 (16-20 03/19/2003 16.00	MIP-14 GWMIP-14 (56-60 03/19/2003 56.00	MIP-14 GWMIP-14 (36-40 03/19/2003 36.00	MIP-14 GWMIP-14 (28-32 03/19/2003 28.00
1,1,1-Trichloroethane	(ug/l)	5	3J	2J	4J	3J	3J
1,1,2,2-Tetrachloroethane	(ug/l)	0.2	0.35U	0.35U	0.35U	0.35U	0.35U
1,1,2-Trichloroethane	(ug/l)	1	0.24U	0.24U	0.24U	0.24U	0.24U
1,1-Dichloroethane	(ug/l)	5	[5]J	3J	[6]J	[5]J	4J
1,1-Dichloroethene	(ug/l)	0.7	0.14U	0.14U	0.14U	0.14U	0.14U
1,2-Dichloroethane	(ug/l)	0.6	0.26U	0.26U	0.26U	0.26U	0.26U
1,2-Dichloroethene (total)	(ug/l)		9J	30	13	11	9.6J
1,2-Dichloropropane	(ug/l)	1	0.33U	0.33U	0.33U	0.33U	0.33U
2-Butanone	(ug/l)	50	0.75U	0.75U	0.75U	0.75U	0.75U
2-Hexanone	(ug/l)	50	1.4U	1.4U	1.4U	1.4U	1.4U
4-Methyl-2-pentanone	(ug/l)		0.3U	0.3U	0.3U	0.3U	0.3U
Acetone	(ug/l)	50	4BJ	2.8U	2.8U	2.8U	2.8U
Benzene	(ug/l)	1	0.25U	0.25U	0.25U	0.25U	0.25U
Bromodichloromethane	(ug/l)	50	0.2U	0.2U	0.2U	0.2U	0.2U
Bromoform	(ug/l)	50	0.47U	0.47U	0.47U	0.47U	0.47U
Bromomethane	(ug/l)	5	0.46U	0.46U	0.46U	0.46U	0.46U
Carbon disulfide	(ug/l)	50	0.15U	0.15U	0.15U	0.15U	0.15U
Carbon tetrachloride	(ug/l)	5	0.18U	0.18U	1J	0.18U	0.18U
Chlorobenzene	(ug/l)	5	0.34U	0.34U	0.34U	0.34U	0.34U
Chloroethane	(ug/l)	5	0.48U	0.48U	0.48U	0.48U	0.48U
Chloroform	(ug/l)	7	1J	0.27U	0.27U	0.27U	0.27U

ug/l - micrograms per liter

The following qualifier(s) exist: CLP Q: J, U, B

TABLE 7
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MEMBRANE INTERFACE PROBE RESULTS - GROUNDWATER
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/17/2003 thru 03/19/2003 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MIP-13 GWMIP-13 (34-38 03/19/2003 34.00	MIP-13 GWMIP-13 (16-20 03/19/2003 16.00	MIP-14 GWMIP-14 (56-60 03/19/2003 56.00	MIP-14 GWMIP-14 (36-40 03/19/2003 36.00	MIP-14 GWMIP-14 (28-32 03/19/2003 28.00
Chloromethane	(ug/l)		0.42U	0.42U	0.42U	0.42U	0.42U
Dibromochloromethane	(ug/l)	50	0.29U	0.29U	0.29U	0.29U	0.29U
Ethylbenzene	(ug/l)	5	0.3U	0.3U	0.3U	0.3U	0.3U
Methylene chloride	(ug/l)	5	0.2U	0.2U	0.2U	0.2U	0.2U
Styrene	(ug/l)	50	0.35U	0.35U	0.35U	0.35U	0.35U
Tetrachloroethene	(ug/l)	0.7	[150]	[440]D	[260]D	[180]	[110]
Toluene	(ug/l)	5	0.23U	0.23U	0.23U	0.23U	0.23U
Trichloroethene	(ug/l)	5	[16]	[39]	[21]	[15]	[12]
Vinyl chloride	(ug/l)	0.3	0.41U	0.41U	0.41U	0.41U	0.41U
cis-1,3-Dichloropropene	(ug/l)	0.4	0.19U	0.19U	0.19U	0.19U	0.19U
trans-1,3-Dichloropropene	(ug/l)	0.4	0.39U	0.39U	0.39U	0.39U	0.39U
Xylene (total)	(ug/l)	5	0.33U	0.33U	0.33U	0.33U	0.33U
Total Chlorinated Solvents	(ug/l)		183	514	305	214	138.6

ug/l - micrograms per liter

The following qualifier(s) exist: CLP Q: U, D

TABLE 7
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MEMBRANE INTERFACE PROBE RESULTS - GROUNDWATER
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/17/2003 thru 03/19/2003 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MIP-16 GWMIP-16 (46-50 03/19/2003 46.00	MIP-16 GWMIP-16 (32-36 03/19/2003 32.00	MIP-18 GWMIP-18 (41-45 03/18/2003 41.00	MIP-18 GWMIP-18 (33-37 03/18/2003 33.00	MIP-20 GWMIP-20 (56-60 03/18/2003 56.00
1,1,1-Trichloroethane	(ug/l)	5	[5]J	4J	2J	2J	[5]J
1,1,2,2-Tetrachloroethane	(ug/l)	0.2	0.35U	0.35U	0.35U	0.35U	0.35U
1,1,2-Trichloroethane	(ug/l)	1	0.24U	0.24U	0.24U	0.24U	0.24U
1,1-Dichloroethane	(ug/l)	5	[7]J	[6]J	[8]J	[8]J	[10]
1,1-Dichloroethene	(ug/l)	0.7	[1]J	[1]J	0.14U	0.14U	[2]J
1,2-Dichloroethane	(ug/l)	0.6	0.26U	0.26U	0.26U	0.26U	0.26U
1,2-Dichloroethene (total)	(ug/l)		20	23	8J	8J	180
1,2-Dichloropropane	(ug/l)	1	0.33U	0.33U	0.33U	0.33U	0.33U
2-Butanone	(ug/l)	50	0.75U	0.75U	0.75U	0.75U	0.75U
2-Hexanone	(ug/l)	50	1.4U	1.4U	1.4U	1.4U	1.4U
4-Methyl-2-pentanone	(ug/l)		0.3U	0.3U	0.3U	0.3U	0.3U
Acetone	(ug/l)	50	2.8U	2.8U	6J	2.8U	2.8U
Benzene	(ug/l)	1	0.25U	0.25U	0.25U	0.25U	0.25U
Bromodichloromethane	(ug/l)	50	0.2U	0.2U	0.2U	0.2U	0.2U
Bromoform	(ug/l)	50	0.47U	0.47U	0.47U	0.47U	0.47U
Bromomethane	(ug/l)	5	0.46U	0.46U	0.46U	0.46U	0.46U
Carbon disulfide	(ug/l)	50	0.15U	0.15U	0.15U	0.15U	0.15U
Carbon tetrachloride	(ug/l)	5	0.18U	0.18U	0.18U	0.18U	0.18U
Chlorobenzene	(ug/l)	5	0.34U	0.34U	0.34U	0.34U	0.34U
Chloroethane	(ug/l)	5	0.48U	0.48U	0.48U	0.48U	0.48U
Chloroform	(ug/l)	7	0.27U	0.27U	0.27U	0.27U	0.27U

ug/l - micrograms per liter

The following qualifier(s) exist: CLP Q: J, U

TABLE 7
FORMER GLENWOOD LANDING GAS PLANT SITE
ON-SITE FIELD INVESTIGATION
MEMBRANE INTERFACE PROBE RESULTS - GROUNDWATER
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 03/17/2003 thru 03/19/2003 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	MIP-16 GWMIP-16 (46-50 03/19/2003 46.00	MIP-16 GWMIP-16 (32-36 03/19/2003 32.00	MIP-18 GWMIP-18 (41-45 03/18/2003 41.00	MIP-18 GWMIP-18 (33-37 03/18/2003 33.00	MIP-20 GWMIP-20 (56-60 03/18/2003 56.00
Chloromethane	(ug/l)		0.42U	0.42U	0.42U	0.42U	0.42U
Dibromochloromethane	(ug/l)	50	0.29U	0.29U	0.29U	0.29U	0.29U
Ethylbenzene	(ug/l)	5	0.3U	0.3U	0.3U	0.3U	0.3U
Methylene chloride	(ug/l)	5	0.2U	0.2U	0.2U	0.2U	0.2U
Styrene	(ug/l)	50	0.35U	0.35U	0.35U	0.35U	0.35U
Tetrachloroethene	(ug/l)	0.7	[200]D	[240]D	[88]	[110]	[1700]D
Toluene	(ug/l)	5	0.23U	0.23U	0.23U	0.23U	0.23U
Trichloroethene	(ug/l)	5	[29]	[35]	[9]J	[13]	[270]D
Vinyl chloride	(ug/l)	0.3	0.41U	0.41U	0.41U	0.41U	0.41U
cis-1,3-Dichloropropene	(ug/l)	0.4	0.19U	0.19U	0.19U	0.19U	0.19U
trans-1,3-Dichloropropene	(ug/l)	0.4	0.39U	0.39U	0.39U	0.39U	0.39U
Xylene (total)	(ug/l)	5	0.33U	0.33U	0.33U	0.33U	0.33U
Total Chlorinated Solvents	(ug/l)		262	309	115	141	2167

ug/l - micrograms per liter

The following qualifier(s) exist: CLP Q: U, D, J

Attachment A

Boring/Geophysical Reports

Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

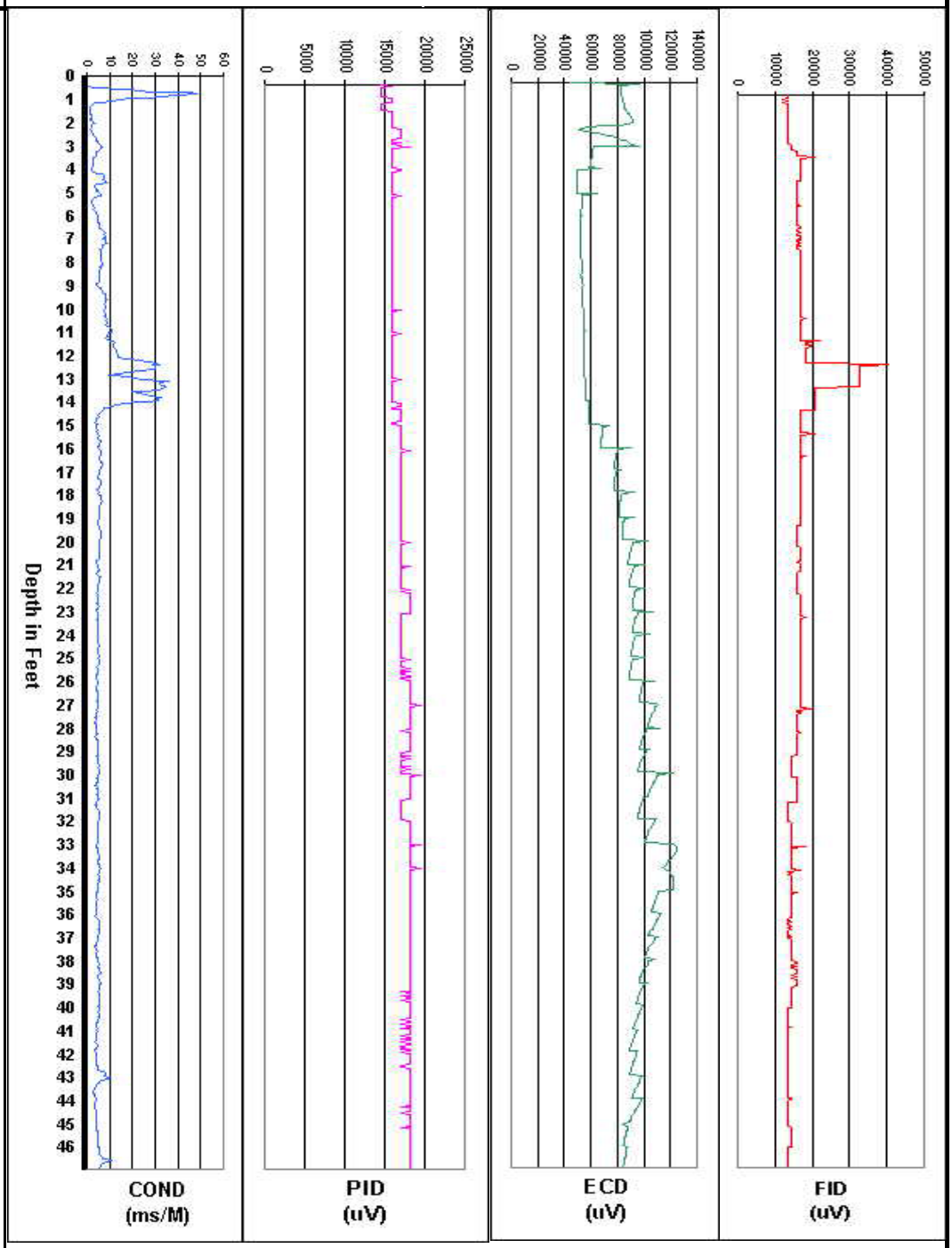
BORING/GEOPHYSICAL REPORT

DESIGNATION: GWMIP-01
TOTAL DEPTH: 47'
ELEVATION: 16.86'

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: Former Glenwood Landing Gas Plant Site	DRILLING CO.: Zebra Environmental — RIG TYPE: Geoprobe
JOB NO.: 06392.31	MIP OPERATOR: Joe S.
LOGGED BY: Chris P./Scott S.	DRILLER: Bob B.
DATE DRILLED: 3-14-03	METHOD OF DRILLING: Direct Push

DEPTH (SAMP. RECOV.)	SOIL DESCRIPTION	PID (ppm)
13 - 15' (50%)	medium dense, grey-black, silt with some clay, some white shells; over 2" grey-black, medium sand, trace fine gravel; over 5" brown medium to coarse sand and gravel, wet	0.0 0.0 0.0 0.0
33 - 35' (80%)	medium dense, light brown, medium sand with some fine sand, some coarse sand and gravel; over 3" medium dense, coarse sand with gravel	0.0 0.0 0.0 0.0

MEMBRANE INTERFACE/SOIL CONDUCTIVITY PROBE DETECTOR READING



NOTES: COND - Soil Conductivity; PID - Photoionization Detector; ECD - Electron Capture Detector; FID - Flameionization Detector; ms/M - milliSiemens/Meter; uV - Microvolts

Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

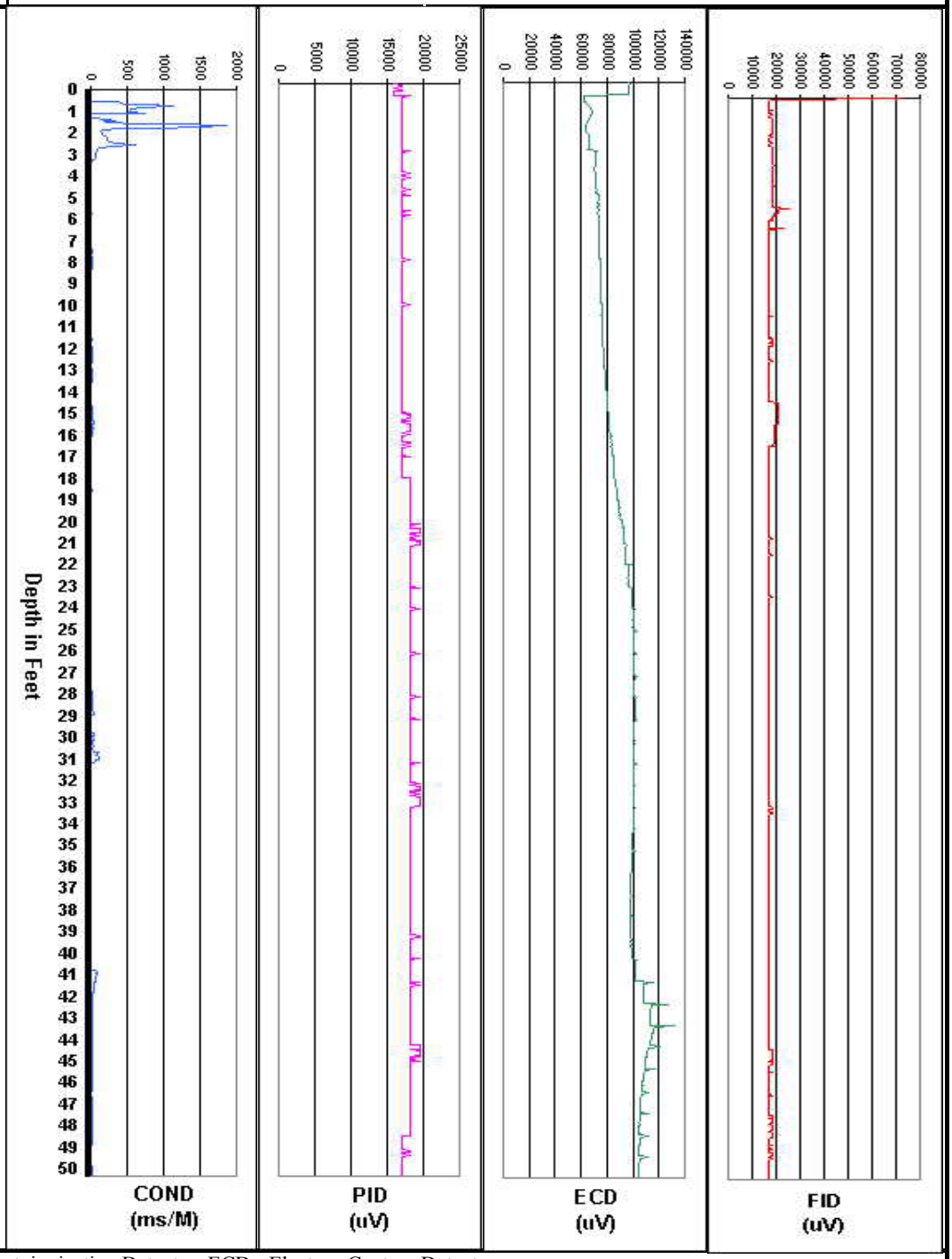
BORING/GEOPHYSICAL REPORT

DESIGNATION: GWMIP-02
TOTAL DEPTH: 50'
ELEVATION: 16.80'

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: Former Glenwood Landing Gas Plant Site	DRILLING CO.: Zebra Environmental — RIG TYPE: Geoprobe
JOB NO.: 06392.31	MIP OPERATOR: Joe S.
LOGGED BY: Chris P./Scott S.	DRILLER: Bob B.
DATE DRILLED: 3-14-03	METHOD OF DRILLING: Direct Push

DEPTH (SAMP. RECOV.)	SOIL DESCRIPTION	PID (ppm)
42 - 44' (75%)	medium dense, tan, medium sand with some coarse sand and gravel, wet	0.0 0.0 0.0 0.0

MEMBRANE INTERFACE/SOIL CONDUCTIVITY PROBE DETECTOR READING



NOTES: COND - Soil Conductivity; PID - Photoionization Detector; ECD - Electron Capture Detector; FID - Flameionization Detector; ms/M - milliSiemens/Meter; uV - Microvolts

Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

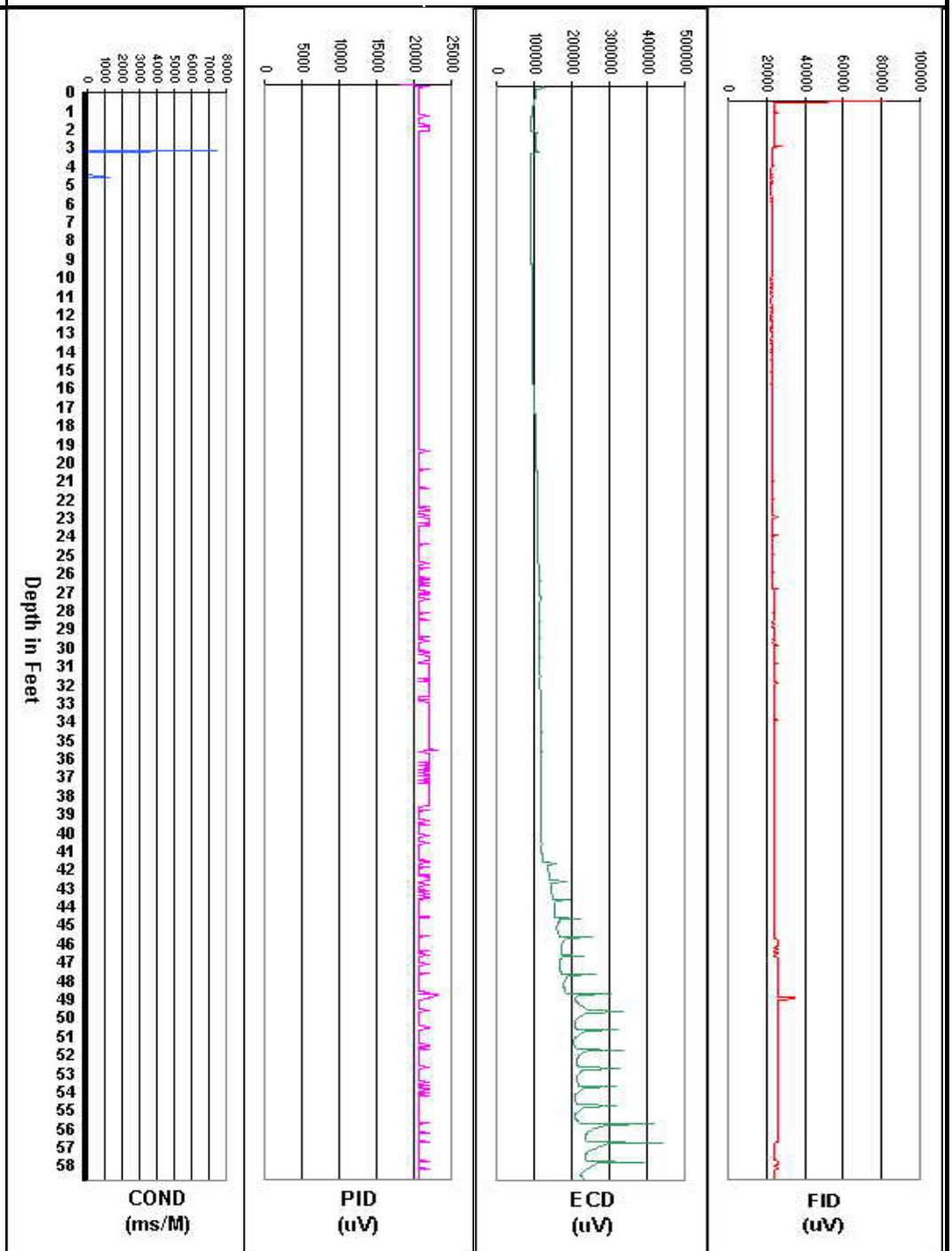
BORING/GEOPHYSICAL REPORT

DESIGNATION: GWMIP-03
TOTAL DEPTH: 59'
ELEVATION: 16.73'

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: Former Glenwood Landing Gas Plant Site	DRILLING CO.: Zebra Environmental — RIG TYPE: Geoprobe
JOB NO.: 06392.31	MIP OPERATOR: Joe S.
LOGGED BY: Chris P./Scott S.	DRILLER: Bob B.
DATE DRILLED: 3-17-03	METHOD OF DRILLING: Direct Push

DEPTH (SAMP. RECOV.)	SOIL DESCRIPTION	PID (ppm)
56 - 58' (75%)	loose, light brown, medium sand with some fine sand, trace coarse gravel, wet	0.0 0.0 0.0

MEMBRANE INTERFACE/SOIL CONDUCTIVITY PROBE DETECTOR READING



NOTES: COND - Soil Conductivity; PID - Photoionization Detector; ECD - Electron Capture Detector; FID - Flameionization Detector; ms/M - milliSiemens/Meter; uV - Microvolts

Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

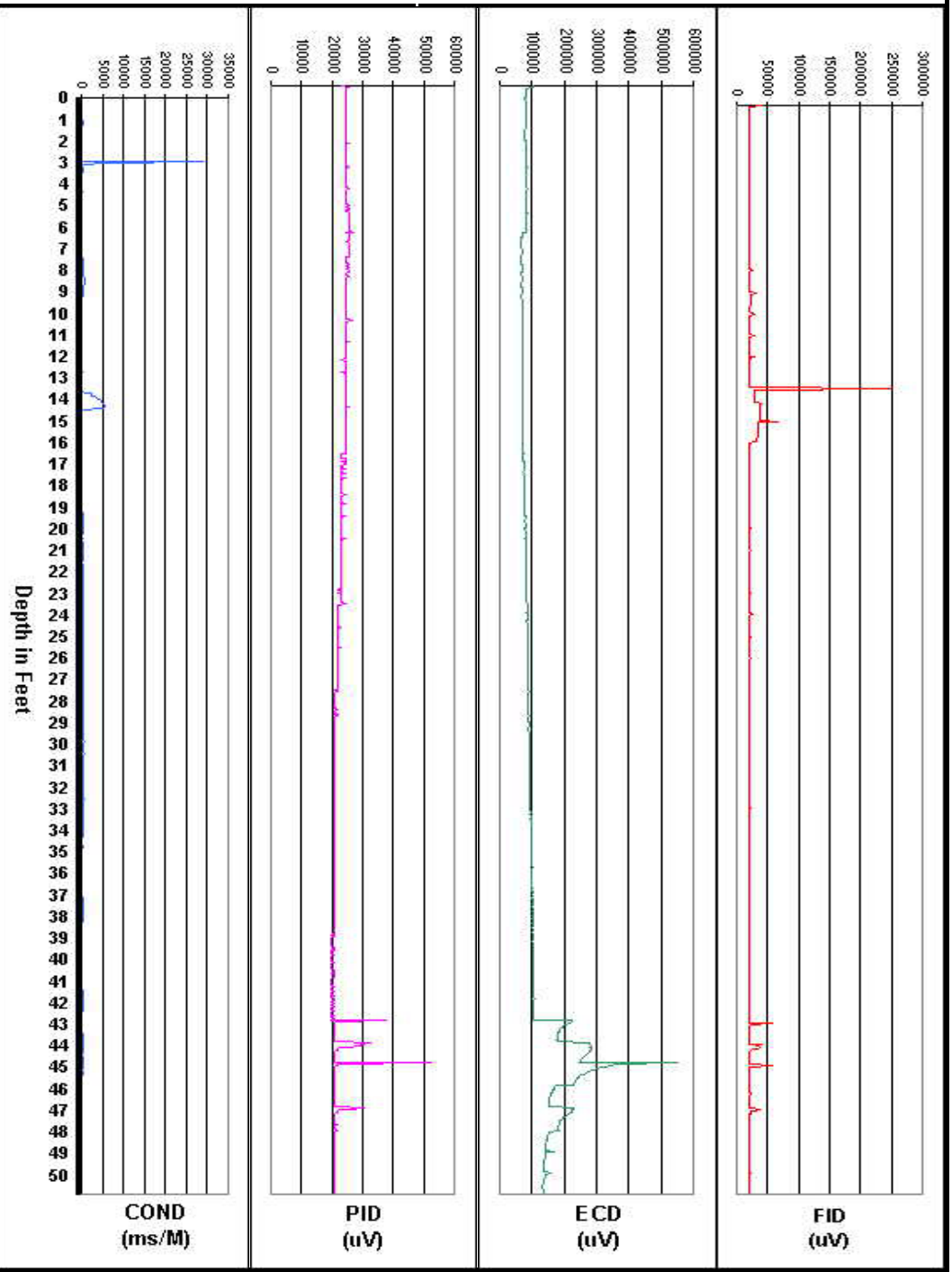
BORING/GEOPHYSICAL REPORT

DESIGNATION: GWMIP-04
TOTAL DEPTH: 51'
ELEVATION: 17.40'

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: Former Glenwood Landing Gas Plant Site	DRILLING CO.: Zebra Environmental — RIG TYPE: Geoprobe
JOB NO.: 06392.31	MIP OPERATOR: Joe S.
LOGGED BY: Chris P./Scott S.	DRILLER: Bob B.
DATE DRILLED: 3-14-03	METHOD OF DRILLING: Direct Push

DEPTH (SAMP. RECOV.)	SOIL DESCRIPTION	PID (ppm)
13 - 15' (75%)	medium dense, black, silt with some root fibers, wood, trace gravel and shell fragments; over 2" brown-grey medium sand with some coarse sand and gravel, wet, organic odor	0.0 0.0 0.0 0.0
44 - 46' (75%)	loose, brown, medium sand; over medium dense, tan, fine sand with some silt, wet	0.0 0.0 0.0 0.0

MEMBRANE INTERFACE/SOIL CONDUCTIVITY PROBE DETECTOR READING



NOTES: COND - Soil Conductivity; PID - Photoionization Detector; ECD - Electron Capture Detector; FID - Flameionization Detector; ms/M - milliSiemens/Meter; uV - Microvolts

Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

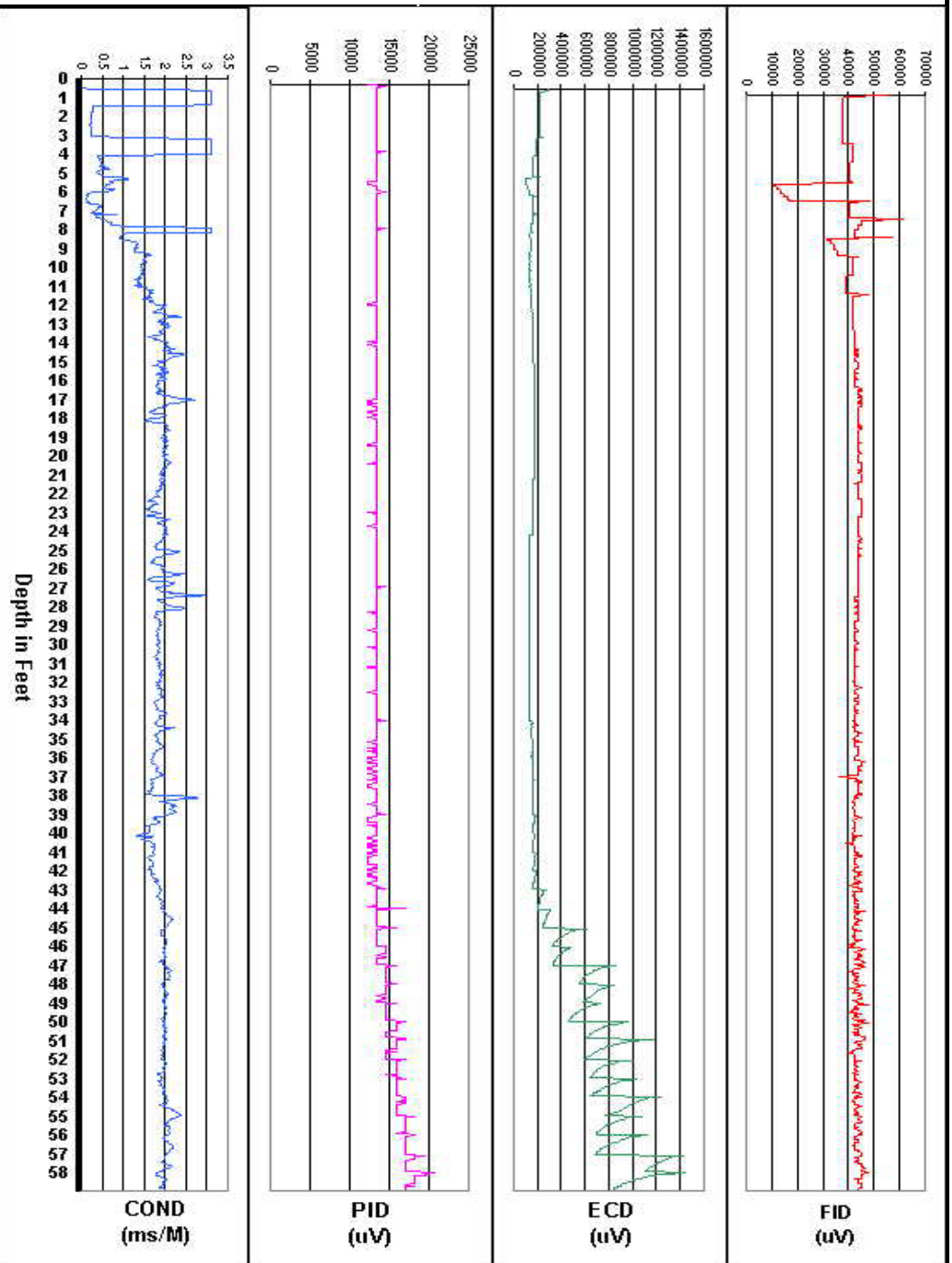
BORING/GEOPHYSICAL REPORT

DESIGNATION: GWMIP-05
TOTAL DEPTH: 60'
ELEVATION: 16.21'

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: Former Glenwood Landing Gas Plant Site	DRILLING CO.: Zebra Environmental — RIG TYPE: Geoprobe
JOB NO.: 06392.31	MIP OPERATOR: Joe S.
LOGGED BY: Chris P./Scott S.	DRILLER: Bob B.
DATE DRILLED: 3-17-03	METHOD OF DRILLING: Direct Push

DEPTH (SAMP. RECOV.)	SOIL DESCRIPTION	PID (ppm)
58 - 60' (75%)	loose, light brown/yellow-orange, medium sand with some fine sand, trace fine gravel and coarse sand, wet	0.0 0.0 0.0

MEMBRANE INTERFACE/SOIL CONDUCTIVITY PROBE DETECTOR READING



NOTES: COND - Soil Conductivity; PID - Photoionization Detector; ECD - Electron Capture Detector; FID - Flameionization Detector; ms/M - milliSiemens/Meter; uV - Microvolts

Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

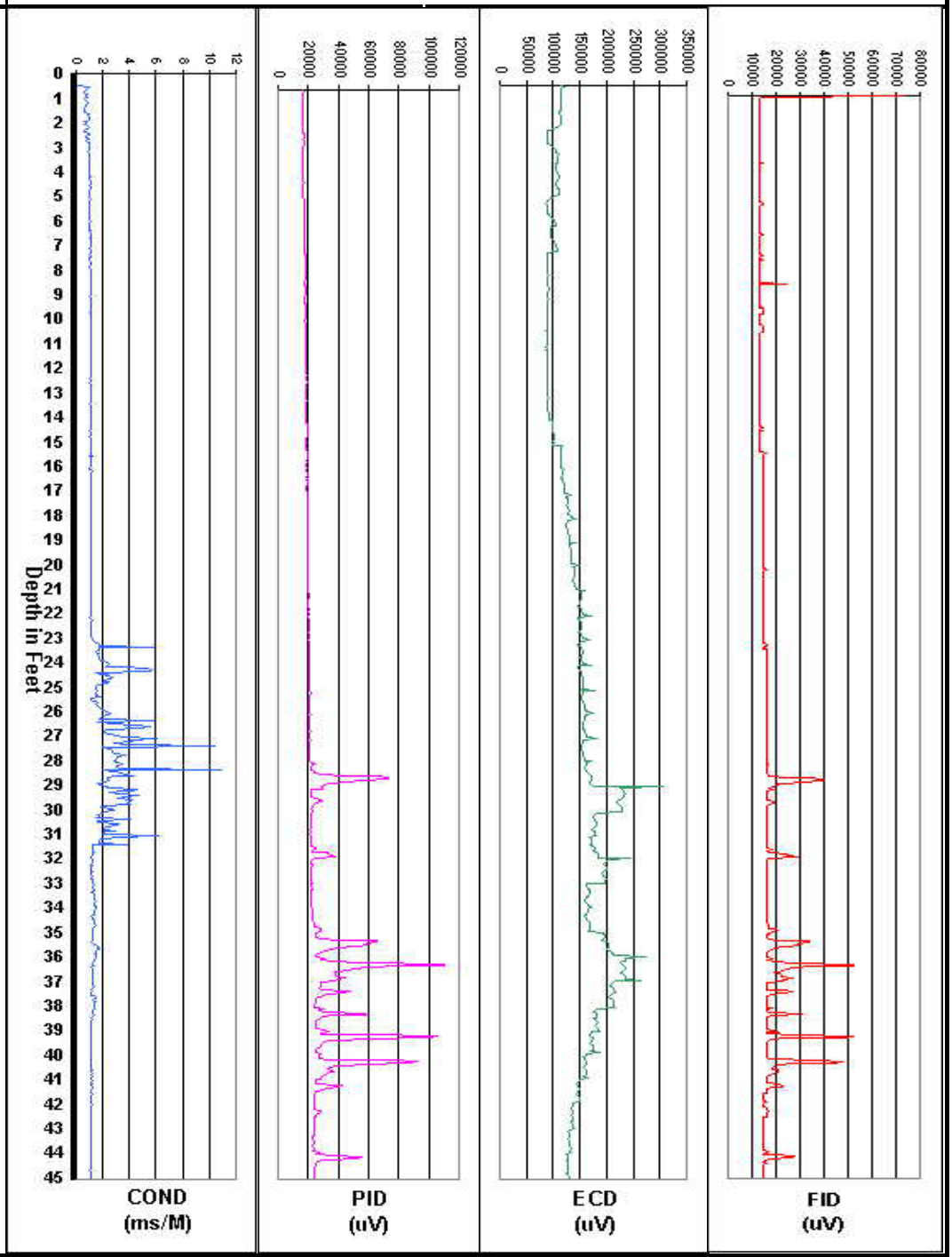
BORING/GEOPHYSICAL REPORT

DESIGNATION: GWMIP-06
TOTAL DEPTH: 45'
ELEVATION: 16.79'

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: Former Glenwood Landing Gas Plant Site	DRILLING CO.: Zebra Environmental — RIG TYPE: Geoprobe
JOB NO.: 06392.31	MIP OPERATOR: Joe S.
LOGGED BY: Chris P./Scott S.	DRILLER: Bob B.
DATE DRILLED: 3-14-03	METHOD OF DRILLING: Direct Push

DEPTH (SAMP. RECOV.)	SOIL DESCRIPTION	PID (ppm)
28 - 30' (80%)	loose, brown, coarse sand with gravel, wet; over 1" medium dense, brown fine sand, wet	0.0 0.0 0.0 0.0
36 - 38' (60%)	dense, brown, silt with fine sand, partings, moist; over 3" medium dense, black, medium sand with some coarse sand, moist; over 2" medium dense, brown, medium sand with trace gravel, moist	0.0 0.0 0.0 0.0

MEMBRANE INTERFACE/SOIL CONDUCTIVITY PROBE DETECTOR READING



NOTES: COND - Soil Conductivity; PID - Photoionization Detector; ECD - Electron Capture Detector; FID - Flameionization Detector; ms/M - milliSiemens/Meter; uV - Microvolts

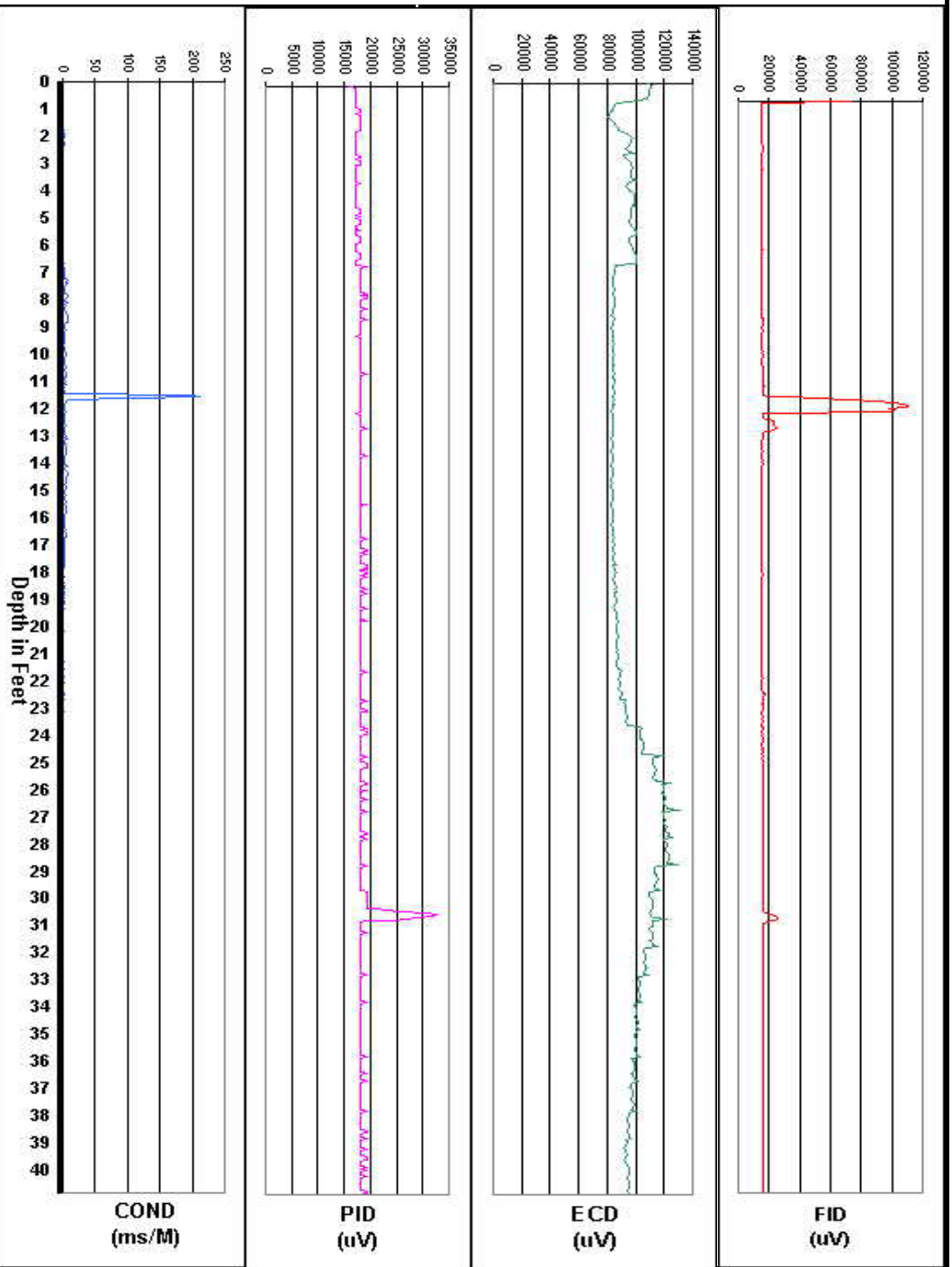
Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

BORING/GEOPHYSICAL REPORT

DESIGNATION: GWMIP-07
TOTAL DEPTH: 41'
ELEVATION: 16.27

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: Former Glenwood Landing Gas Plant Site	DRILLING CO.: Zebra Environmental RIG TYPE: Geoprobe
JOB NO.: 06392.31	MIP OPERATOR: Joe S.
LOGGED BY: Chris P./Scott S.	DRILLER: Bob B.
DATE DRILLED: 3-14-03	METHOD OF DRILLING: Direct Push

DEPTH (SAMP. RECOV.)	SOIL DESCRIPTION	PID (ppm)	MEMBRANE INTERFACE/SOIL CONDUCTIVITY PROBE DETECTOR READING
10 - 12' (60%)	medium dense, black, medium sand with some coarse sand, trace fine gravel, wet	0.0 0.0 0.0 0.0	
30 - 32' (75%)	medium dense, tan, fine to medium sand, trace gravel, wet; over medium dense, dark brown, medium sand with trace coarse sand and gravel, wet	0.0 0.0 0.0 0.0	



NOTES: COND - Soil Conductivity; PID - Photoionization Detector; ECD - Electron Capture Detector; FID - Flameionization Detector; ms/M - milliSiemens/Meter; uV - Microvolts

Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

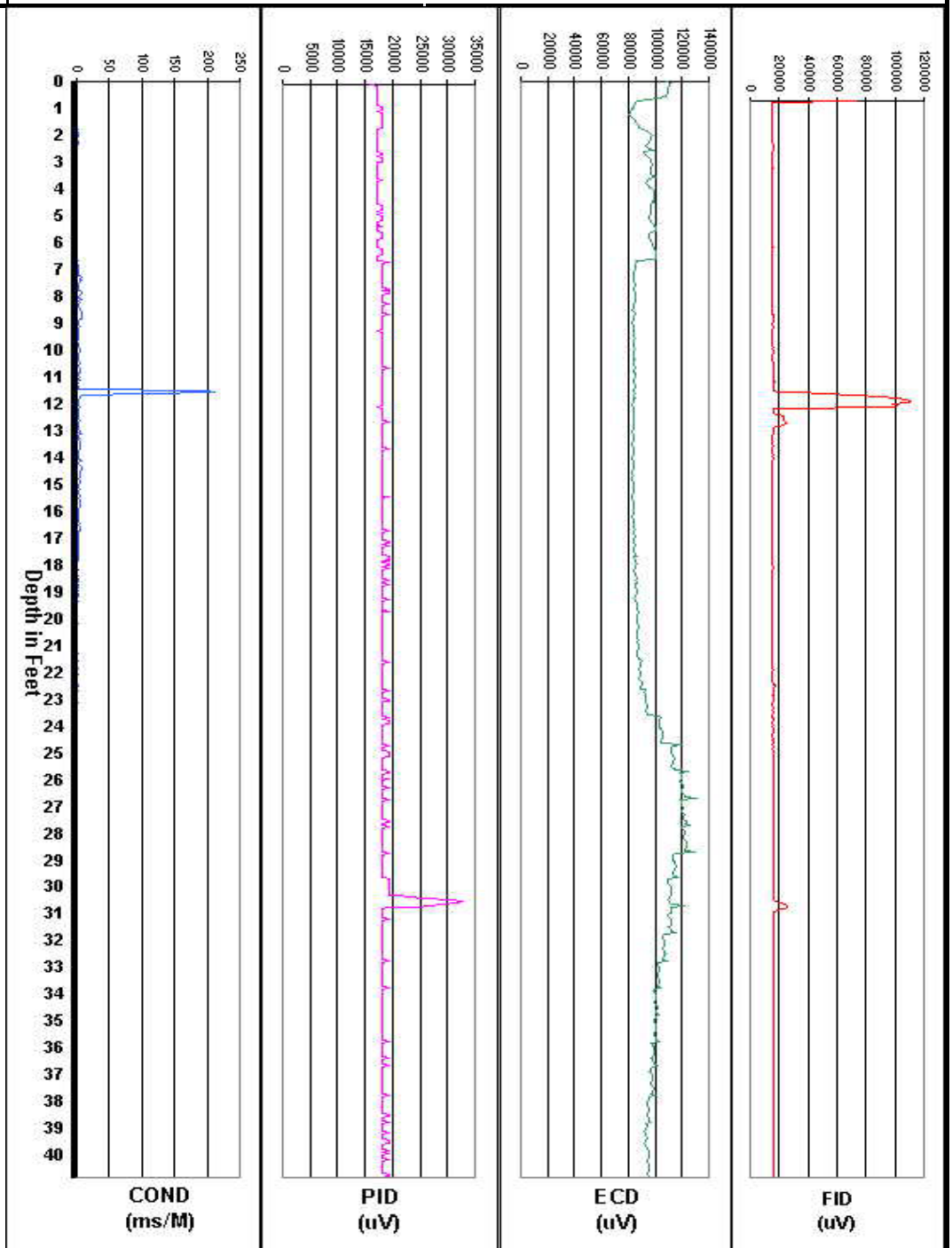
BORING/GEOPHYSICAL REPORT

DESIGNATION: GWMIP-08
TOTAL DEPTH: 41'
ELEVATION: 15.55'

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: Former Glenwood Landing Gas Plant Site	DRILLING CO.: Zebra Environmental — RIG TYPE: Geoprobe
JOB NO.: 06392.31	MIP OPERATOR: Joe S.
LOGGED BY: Chris P./Scott S.	DRILLER: Bob B.
DATE DRILLED: 3-14-03	METHOD OF DRILLING: Direct Push

DEPTH (SAMP. RECOV.)	SOIL DESCRIPTION	PID (ppm)
29 - 31' (90%)	medium dense, brownish grey, silt, moist; over loose, brown, fine sand with silt, wet	0.0 0.0 0.0 0.0
38 - 40' (100%)	loose to medium dense, brown, silt with fine sand, wet	0.0 0.0 0.0 0.0

MEMBRANE INTERFACE/SOIL CONDUCTIVITY PROBE DETECTOR READING



NOTES: COND - Soil Conductivity; PID - Photoionization Detector; ECD - Electron Capture Detector; FID - Flameionization Detector; ms/M - milliSiemens/Meter; uV - Microvolts

Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

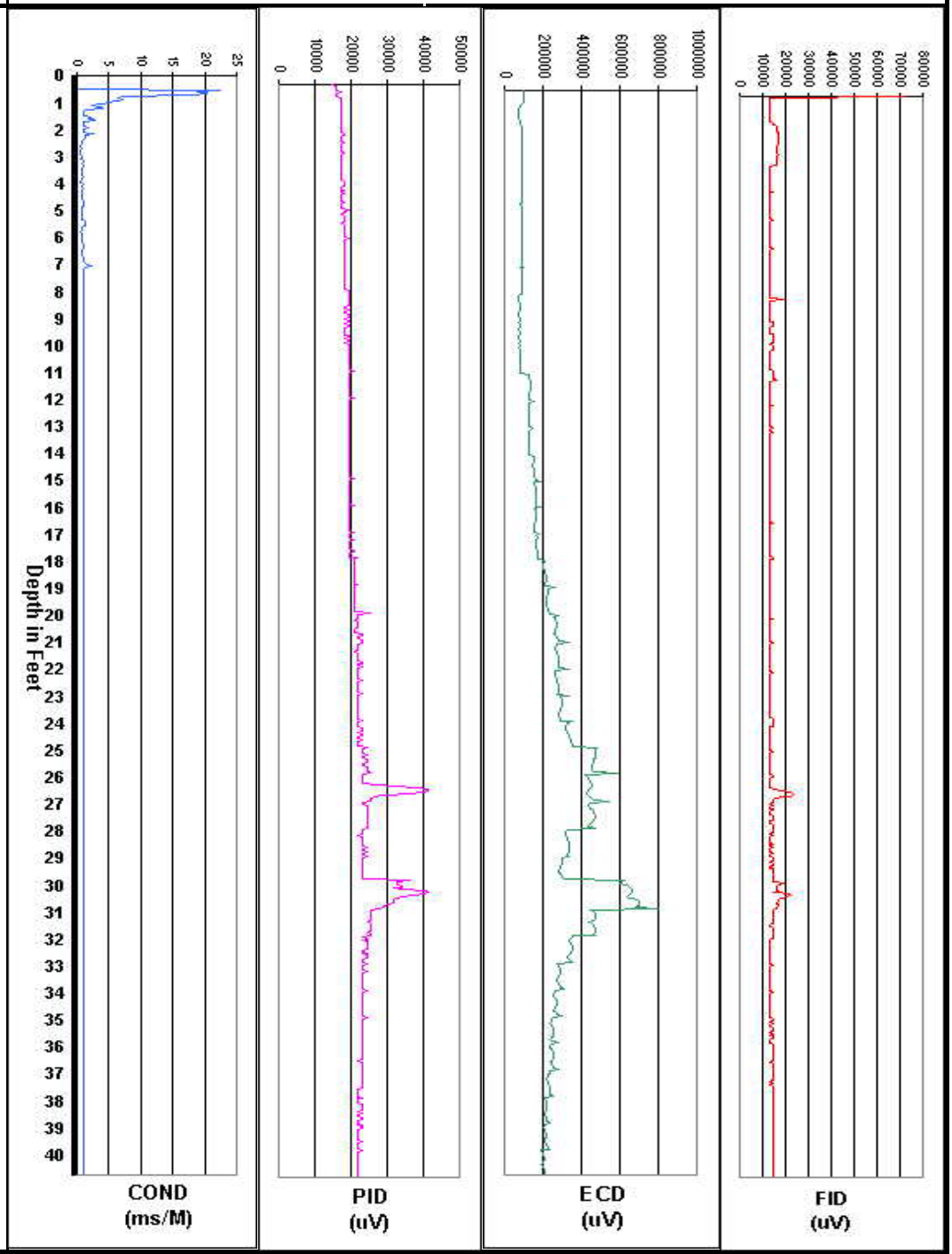
BORING/GEOPHYSICAL REPORT

DESIGNATION: GWMIP-09
TOTAL DEPTH: 41'
ELEVATION: 16.01'

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: Former Glenwood Landing Gas Plant Site	DRILLING CO.: Zebra Environmental — RIG TYPE: Geoprobe
JOB NO.: 06392.31	MIP OPERATOR: Joe S.
LOGGED BY: Chris P./Scott S.	DRILLER: Bob B.
DATE DRILLED: 3-14-03	METHOD OF DRILLING: Direct Push

DEPTH (SAMP. RECOV.)	SOIL DESCRIPTION	PID (ppm)
25 - 27' (90%)	2" soft, brown, silt; over medium dense, dark brown, medium sand with trace gravel, no odor, wet	0.0 0.0 0.0 0.0
30 - 32' (60%)	medium dense, dark brown, medium sand, some coarse sand and fine gravel, wet, no odor	0.0 0.0 0.0 0.0

MEMBRANE INTERFACE/SOIL CONDUCTIVITY PROBE DETECTOR READING



NOTES: COND - Soil Conductivity; PID - Photoionization Detector; ECD - Electron Capture Detector; FID - Flameionization Detector; ms/M - milliSiemens/Meter; uV - Microvolts

Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

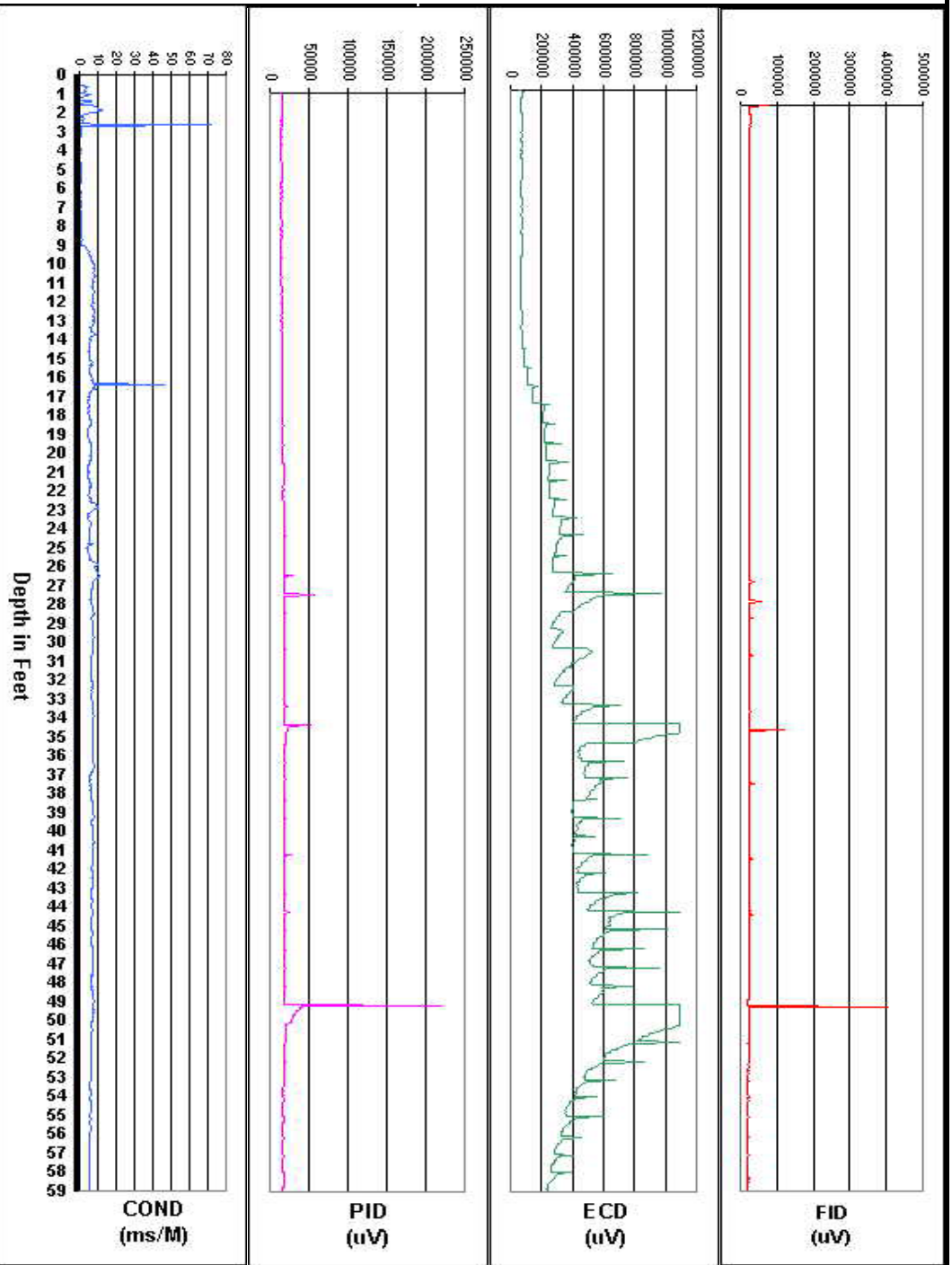
BORING/GEOPHYSICAL REPORT

DESIGNATION: GWMIP-10
TOTAL DEPTH: 59'
ELEVATION: 17.07'

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: Former Glenwood Landing Gas Plant Site	DRILLING CO.: Zebra Environmental — RIG TYPE: Geoprobe
JOB NO.: 06392.31	MIP OPERATOR: Joe S.
LOGGED BY: Chris P./Scott S.	DRILLER: Bob B.
DATE DRILLED: 3-13-03	METHOD OF DRILLING: Direct Push

DEPTH (SAMP. RECOV.)	SOIL DESCRIPTION	PID (ppm)
34 - 36' (95%)	1" medium dense, grey, fine sand with silt; over medium dense, orange medium sand	0.1 0.0 0.0 0.0
48 - 50' (90%)	1" grey fine sand with silt; over loose to medium dense, tannish pink, fine to medium sand, wet (coarser with depth)	0.0 0.0 0.0 0.0

MEMBRANE INTERFACE/SOIL CONDUCTIVITY PROBE DETECTOR READING



NOTES: COND - Soil Conductivity; PID - Photoionization Detector; ECD - Electron Capture Detector; FID - Flameionization Detector; ms/M - milliSiemens/Meter; uV - Microvolts

Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

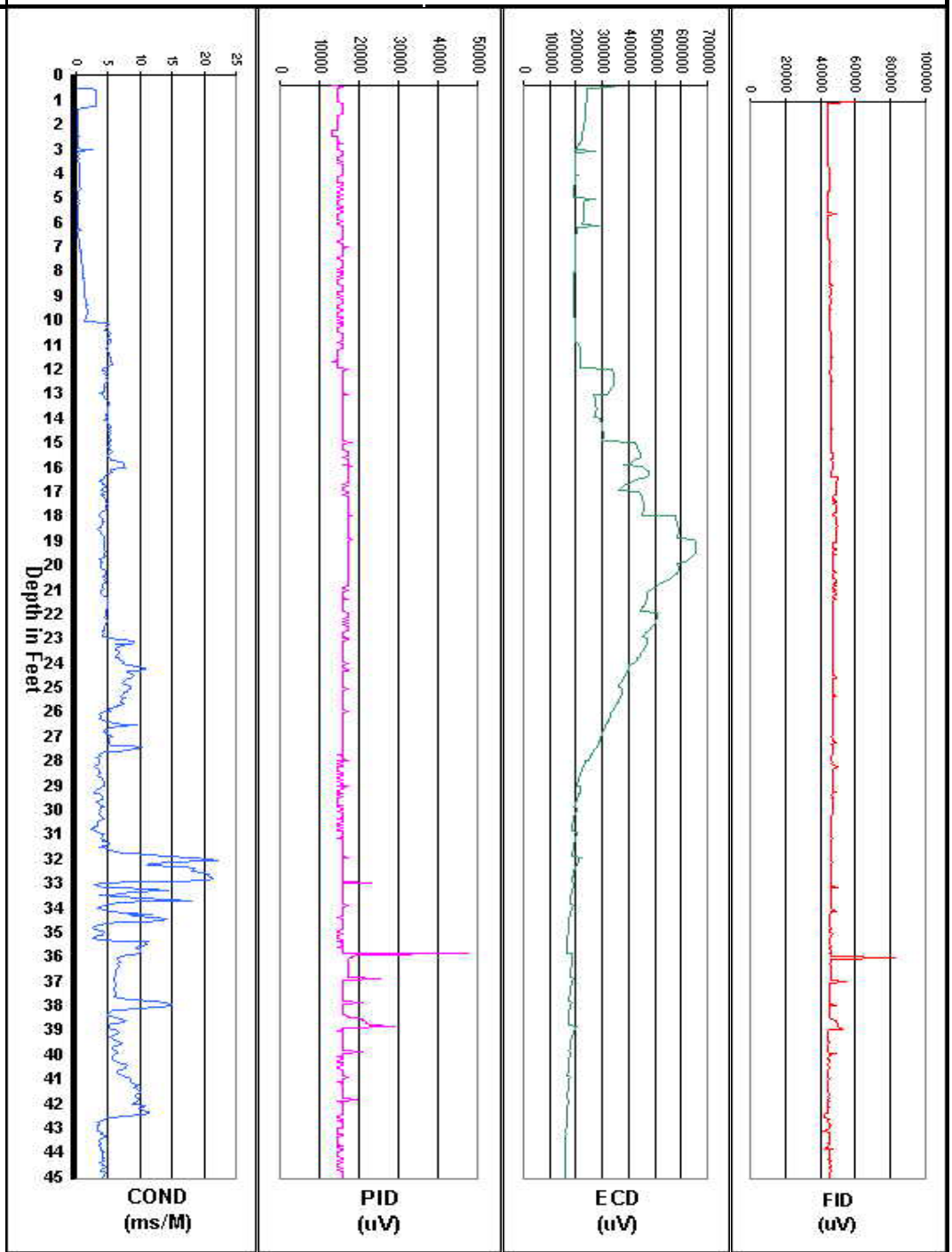
BORING/GEOPHYSICAL REPORT

DESIGNATION: GWMIP-11
TOTAL DEPTH: 45'
ELEVATION: 15.10'

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: Former Glenwood Landing Gas Plant Site	DRILLING CO.: Zebra Environmental — RIG TYPE: Geoprobe
JOB NO.: 06392.31	MIP OPERATOR: Joe S.
LOGGED BY: Chris P./Scott S.	DRILLER: Bob B.
DATE DRILLED: 3-13-03	METHOD OF DRILLING: Direct Push

DEPTH (SAMP. RECOV.)	SOIL DESCRIPTION	PID (ppm)
18 - 20' (75%)	medium dense, brown, fine to medium sand, some coarse sand, trace fine gravel, wet	0.0 0.0 0.0 0.0
35 - 37' (85%)	medium dense, silt with some fine sand, wet	0.0 0.0 0.0 0.0

MEMBRANE INTERFACE/SOIL CONDUCTIVITY PROBE DETECTOR READING



NOTES: COND - Soil Conductivity; PID - Photoionization Detector; ECD - Electron Capture Detector; FID - Flameionization Detector; ms/M - milliSiemens/Meter; uV - Microvolts

Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

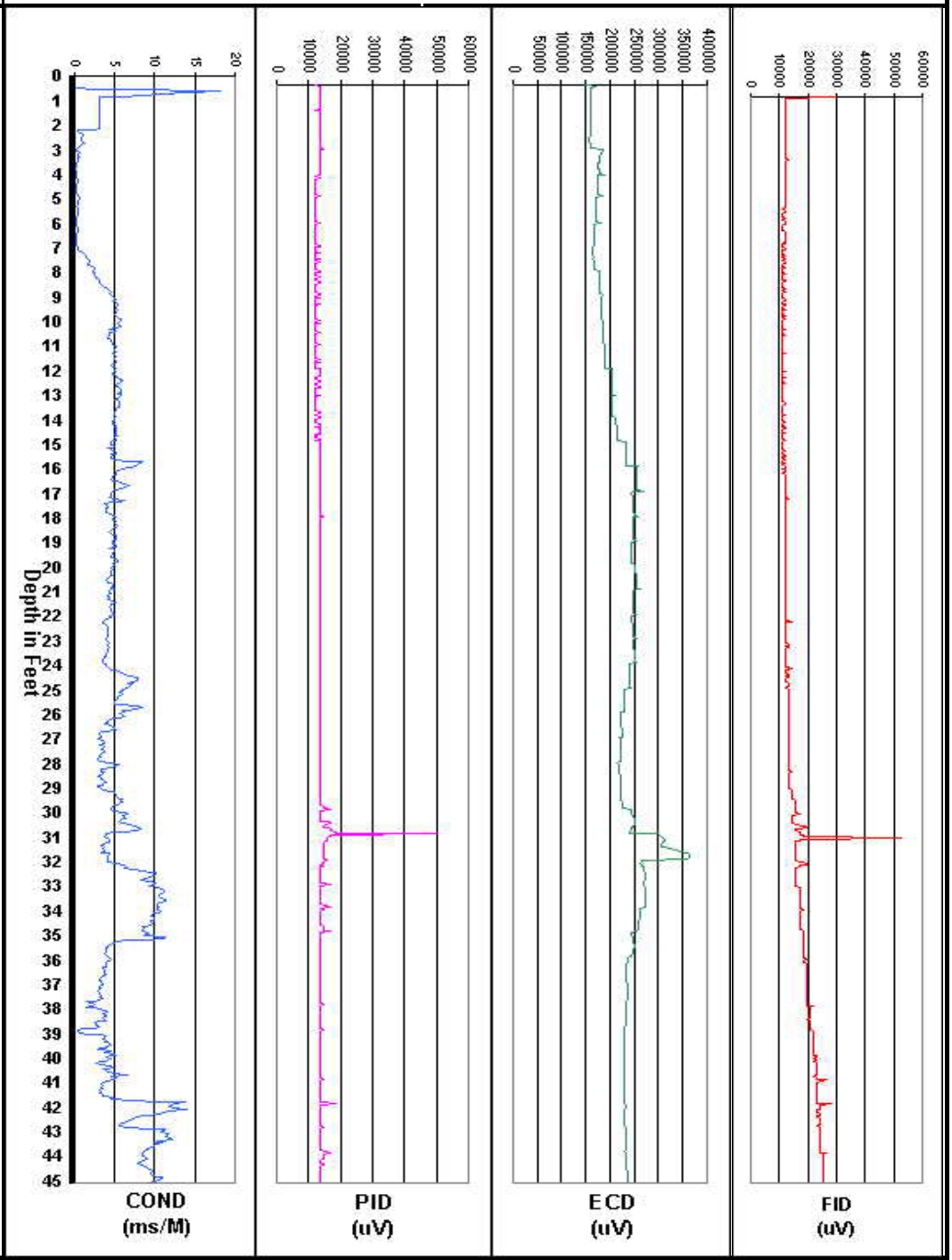
BORING/GEOPHYSICAL REPORT

DESIGNATION: GWMIP-12
TOTAL DEPTH: 45'
ELEVATION: 15.41'

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: Former Glenwood Landing Gas Plant Site	DRILLING CO.: Zebra Environmental — RIG TYPE: Geoprobe
JOB NO.: 06392.31	MIP OPERATOR: Joe S.
LOGGED BY: Chris P./Scott S.	DRILLER: Bob B.
DATE DRILLED: 3-13-03	METHOD OF DRILLING: Direct Push

DEPTH (SAMP. RECOV.)	SOIL DESCRIPTION	PID (ppm)
31 - 33' (80%)	dense, brown, silt with fine sand, trace coarse sand and gravel, moist, iron oxide staining	0.4 0.0 0.0 0.0
41 - 43' (90%)	dense, brown, silt to fine sand, with partings and iron oxide staining, moist	0.9 0.6 0.3 0.1

MEMBRANE INTERFACE/SOIL CONDUCTIVITY PROBE DETECTOR READING



NOTES: COND - Soil Conductivity; PID - Photoionization Detector; ECD - Electron Capture Detector; FID - Flameionization Detector; ms/M - milliSiemens/Meter; uV - Microvolts

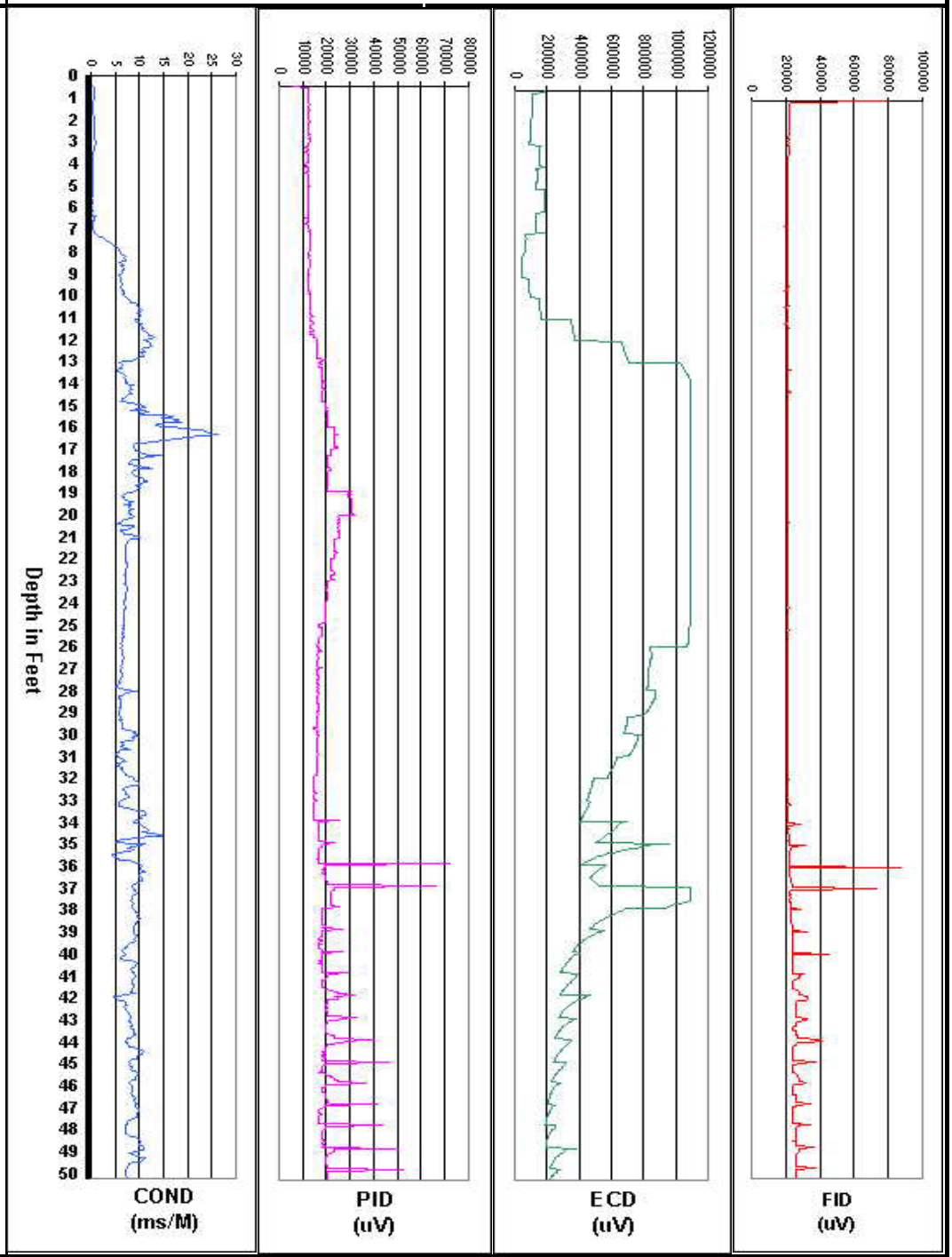
Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

BORING/GEOPHYSICAL REPORT

DESIGNATION: GWMIP-13
TOTAL DEPTH: 50'
ELEVATION: 15.53'

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: Former Glenwood Landing Gas Plant Site	DRILLING CO.: Zebra Environmental — RIG TYPE: Geoprobe
JOB NO.: 06392.31	MIP OPERATOR: Joe S.
LOGGED BY: Chris P./Scott S.	DRILLER: Bob B.
DATE DRILLED: 3-13-03	METHOD OF DRILLING: Direct Push

DEPTH (SAMP. RECOV.)	SOIL DESCRIPTION	PID (ppm)	MEMBRANE INTERFACE/SOIL CONDUCTIVITY PROBE DETECTOR READING
18-20' (75%)	medium dense, brown to light gray, coarse sand with some medium sand, fine sand, petroleum odor (creosote)	0.0 0.0 0.0 0.0	
36 - 38' (75%)	medium dense, brown, silt to fine sand, wet,	0.0 0.0 0.0 0.0	



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Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

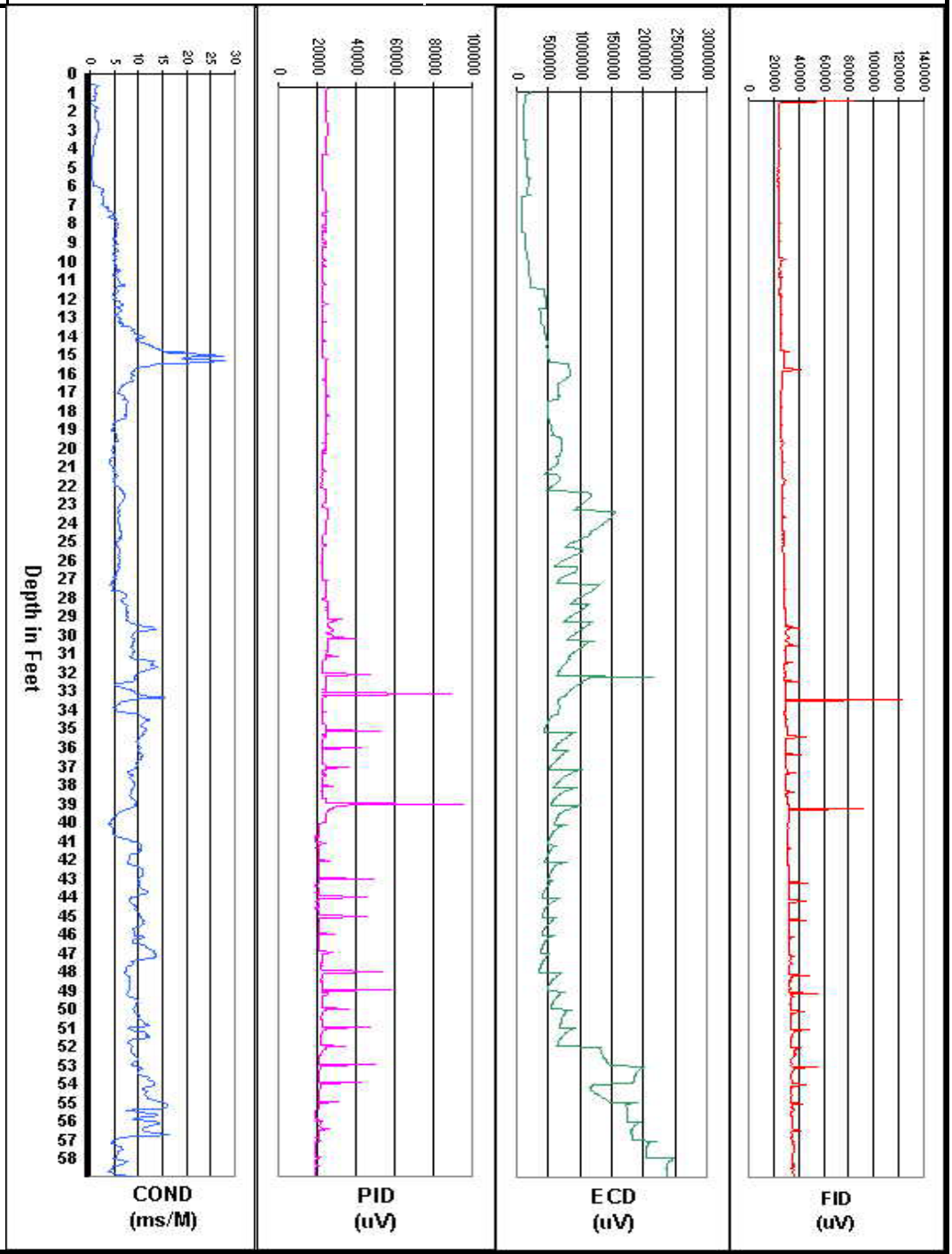
BORING/GEOPHYSICAL REPORT

DESIGNATION: GWMIP-14
TOTAL DEPTH: 59'
ELEVATION: 14.92'

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: Former Glenwood Landing Gas Plant Site	DRILLING CO.: Zebra Environmental — RIG TYPE: Geoprobe
JOB NO.: 06392.31	MIP OPERATOR: Joe S.
LOGGED BY: Chris P./Scott S.	DRILLER: Bob B.
DATE DRILLED: 3-13-03	METHOD OF DRILLING: Direct Push

DEPTH (SAMP. RECOV.)	SOIL DESCRIPTION	PID (ppm)
31 - 33' (90%)	medium dense, brown to grey, silt, trace gravel; red-brown fine sand in discrete bands; medium to coarse sand at 32.5'	0.0 0.0 0.0 0.0
38 - 40' (95%)	medium dense, brown, fine sand with silt (finer with depth), wet, odor?	0.0 0.0 0.0 0.0
59 - 61.5' (25%)	medium dense, brown, silt, wet; over loose, brown, medium sand with some coarse sand, trace gravel, wet	0.0

MEMBRANE INTERFACE/SOIL CONDUCTIVITY PROBE DETECTOR READING



NOTES: COND - Soil Conductivity; PID - Photoionization Detector; ECD - Electron Capture Detector; FID - Flameionization Detector; ms/M - milliSiemens/Meter; uV - Microvolts

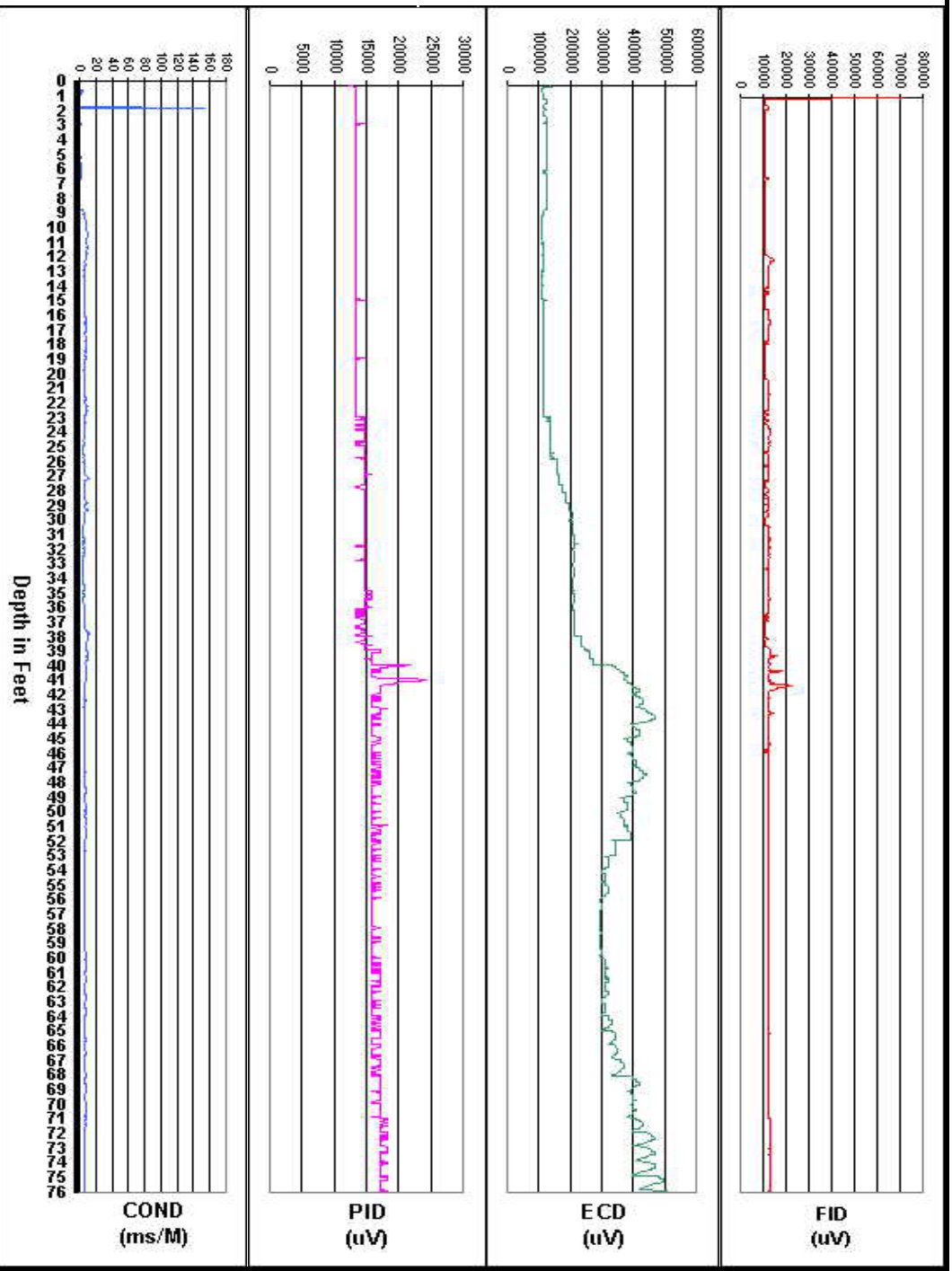
Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

BORING/GEOPHYSICAL REPORT

DESIGNATION: GWMIP-15
TOTAL DEPTH: 76'
ELEVATION: 16.98'

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: Former Glenwood Landing Gas Plant Site	DRILLING CO.: Zebra Environmental — RIG TYPE: Geoprobe
JOB NO.: 06392.31	MIP OPERATOR: Joe S.
LOGGED BY: Chris P./Scott S.	DRILLER: Bob B.
DATE DRILLED: 3-11-03	METHOD OF DRILLING: Direct Push

DEPTH (SAMP. RECOV.)	SOIL DESCRIPTION	PID (ppm)	MEMBRANE INTERFACE/SOIL CONDUCTIVITY PROBE DETECTOR READING
	No confirmatory samples collected.		



NOTES: COND - Soil Conductivity; PID - Photoionization Detector; ECD - Electron Capture Detector; FID - Flameionization Detector; ms/M - milliSiemens/Meter; uV - Microvolts

Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

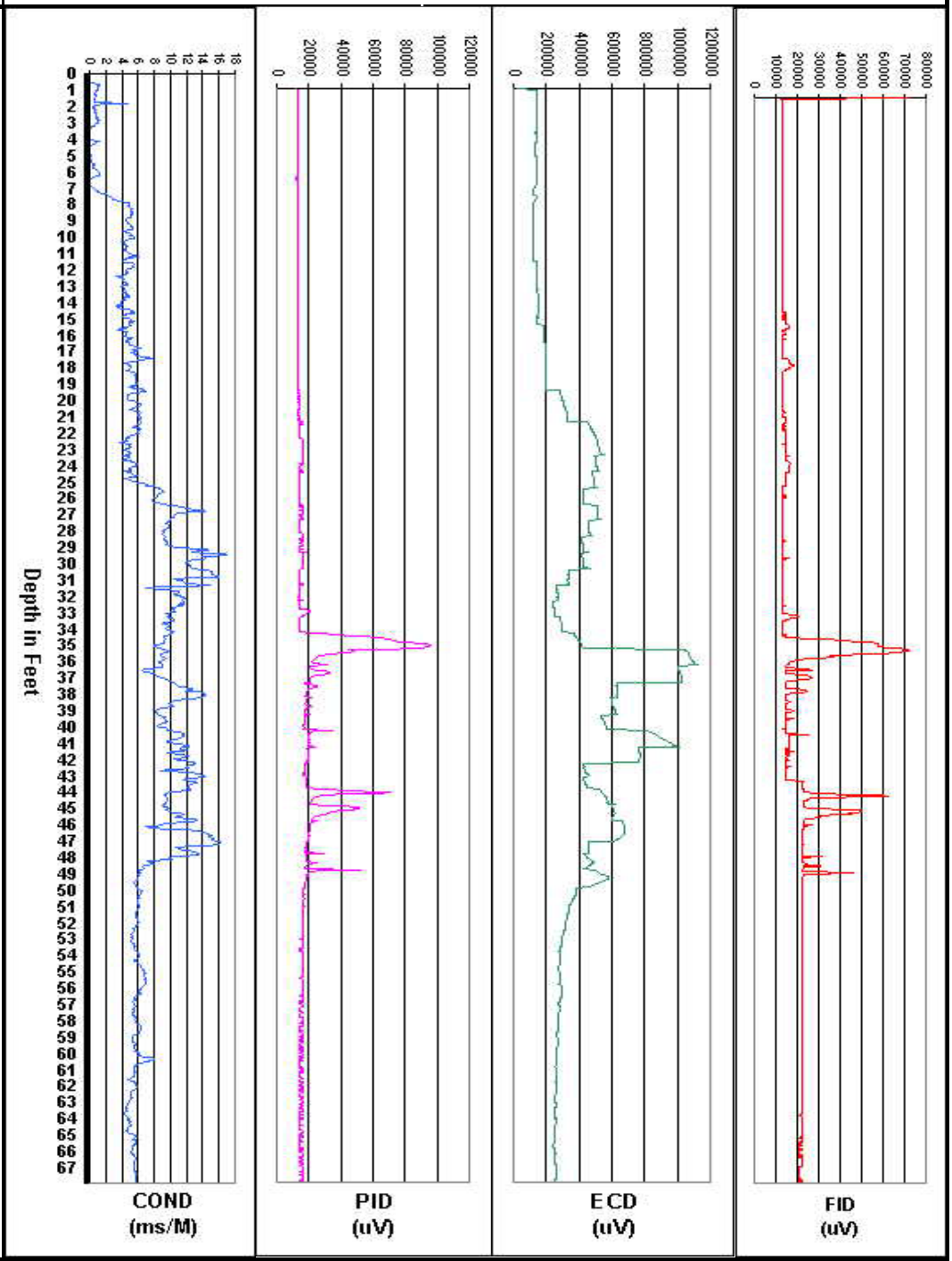
BORING/GEOPHYSICAL REPORT

DESIGNATION: GWMIP-16
TOTAL DEPTH: 68'
ELEVATION: 15.06'

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: Former Glenwood Landing Gas Plant Site	DRILLING CO.: Zebra Environmental — RIG TYPE: Geoprobe
JOB NO.: 06392.31	MIP OPERATOR: Joe S.
LOGGED BY: Chris P./Scott S.	DRILLER: Bob B.
DATE DRILLED: 3-13-03	METHOD OF DRILLING: Direct Push

DEPTH (SAMP. RECOV.)	SOIL DESCRIPTION	PID (ppm)
34 - 36' (60%)	medium dense, brown, fine sand, some silt, heavy iron oxide staining	0.0 0.0 0.0 0.0
48 - 50' (30%)	medium dense, tan, medium sand, some fine sand, moist	0.0 0.0

MEMBRANE INTERFACE/SOIL CONDUCTIVITY PROBE DETECTOR READING



NOTES: COND - Soil Conductivity; PID - Photoionization Detector; ECD - Electron Capture Detector; FID - Flameionization Detector; ms/M - milliSiemens/Meter; uV - Microvolts

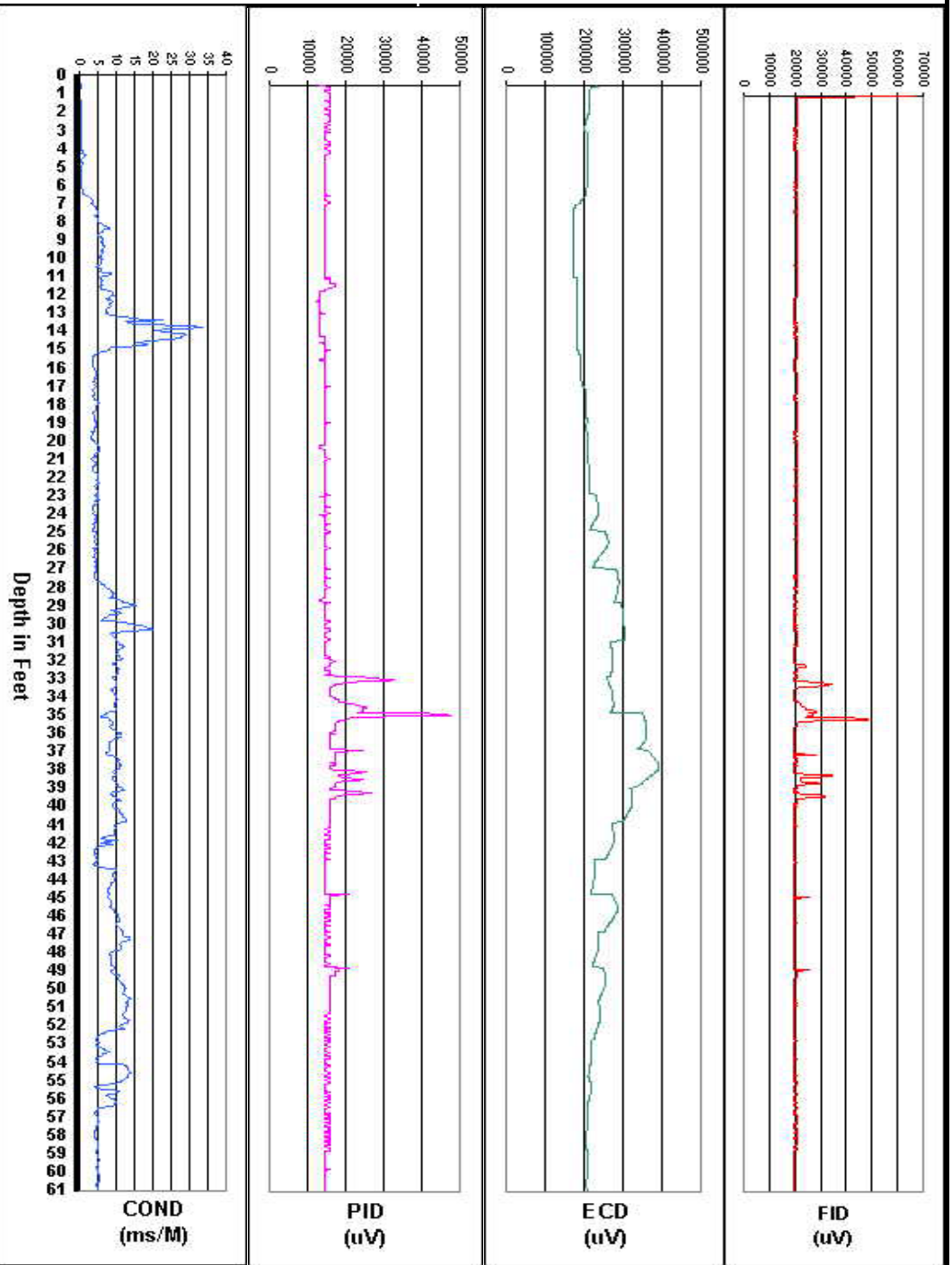
Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

BORING/GEOPHYSICAL REPORT

DESIGNATION: GWMIP-17
TOTAL DEPTH: 61'
ELEVATION: 15.06'

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: Former Glenwood Landing Gas Plant Site	DRILLING CO.: Zebra Environmental — RIG TYPE: Geoprobe
JOB NO.: 06392.31	MIP OPERATOR: Joe S.
LOGGED BY: Chris P./Scott S.	DRILLER: Bob B.
DATE DRILLED: 3-12-03	METHOD OF DRILLING: Direct Push

DEPTH (SAMP. RECOV.)	SOIL DESCRIPTION	PID (ppm)	MEMBRANE INTERFACE/SOIL CONDUCTIVITY PROBE DETECTOR READING
	No confirmatory samples collected.		



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Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

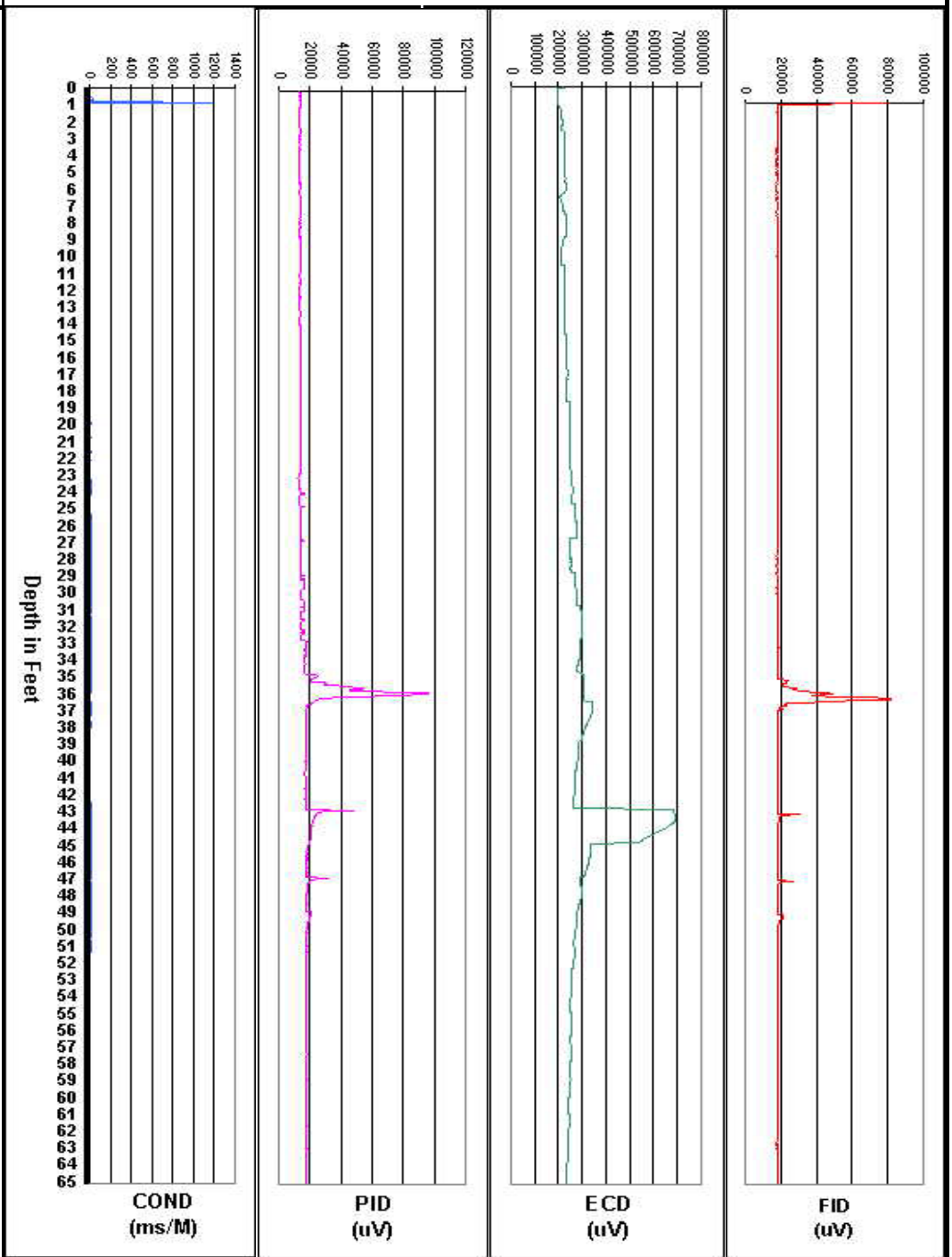
BORING/GEOPHYSICAL REPORT

DESIGNATION: GWMIP-18
TOTAL DEPTH: 65'
ELEVATION: 14.52'

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: Former Glenwood Landing Gas Plant Site	DRILLING CO.: Zebra Environmental — RIG TYPE: Geoprobe
JOB NO.: 06392.31	MIP OPERATOR: Joe S.
LOGGED BY: Chris P./Scott S.	DRILLER: Bob B.
DATE DRILLED: 3-17-03	METHOD OF DRILLING: Direct Push

DEPTH (SAMP. RECOV.)	SOIL DESCRIPTION	PID (ppm)
35 - 37' (58-60')	medium dense, yellowish orange, fine silty sand with little silt, trace gravel and coarse sand, wet	0.0 0.0 0.0 0.0

MEMBRANE INTERFACE/SOIL CONDUCTIVITY PROBE DETECTOR READING



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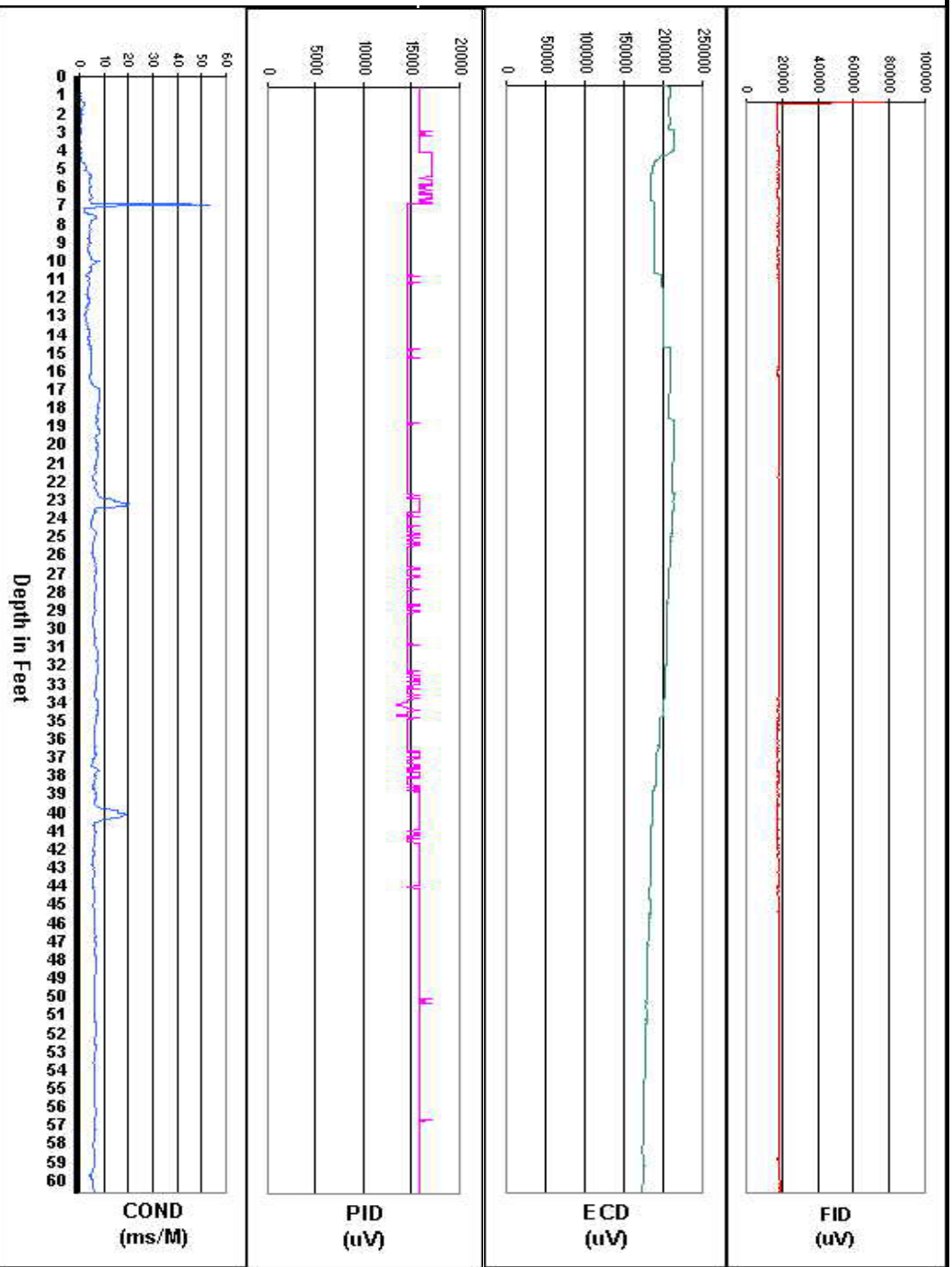
Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

BORING/GEOPHYSICAL REPORT

DESIGNATION: GWMIP-19
TOTAL DEPTH: 61'
ELEVATION: 17.68'

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: Former Glenwood Landing Gas Plant Site	DRILLING CO.: Zebra Environmental — RIG TYPE: Geoprobe
JOB NO.: 06392.31	MIP OPERATOR: Joe S.
LOGGED BY: Chris P./Scott S.	DRILLER: Bob B.
DATE DRILLED: 3-12-03	METHOD OF DRILLING: Direct Push

DEPTH (SAMP. RECOV.)	SOIL DESCRIPTION	PID (ppm)	MEMBRANE INTERFACE/SOIL CONDUCTIVITY PROBE DETECTOR READING
	No confirmatory samples collected.		



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Vanasse Hangen Brustlin, Inc.
Transportation Land Development Environmental Services

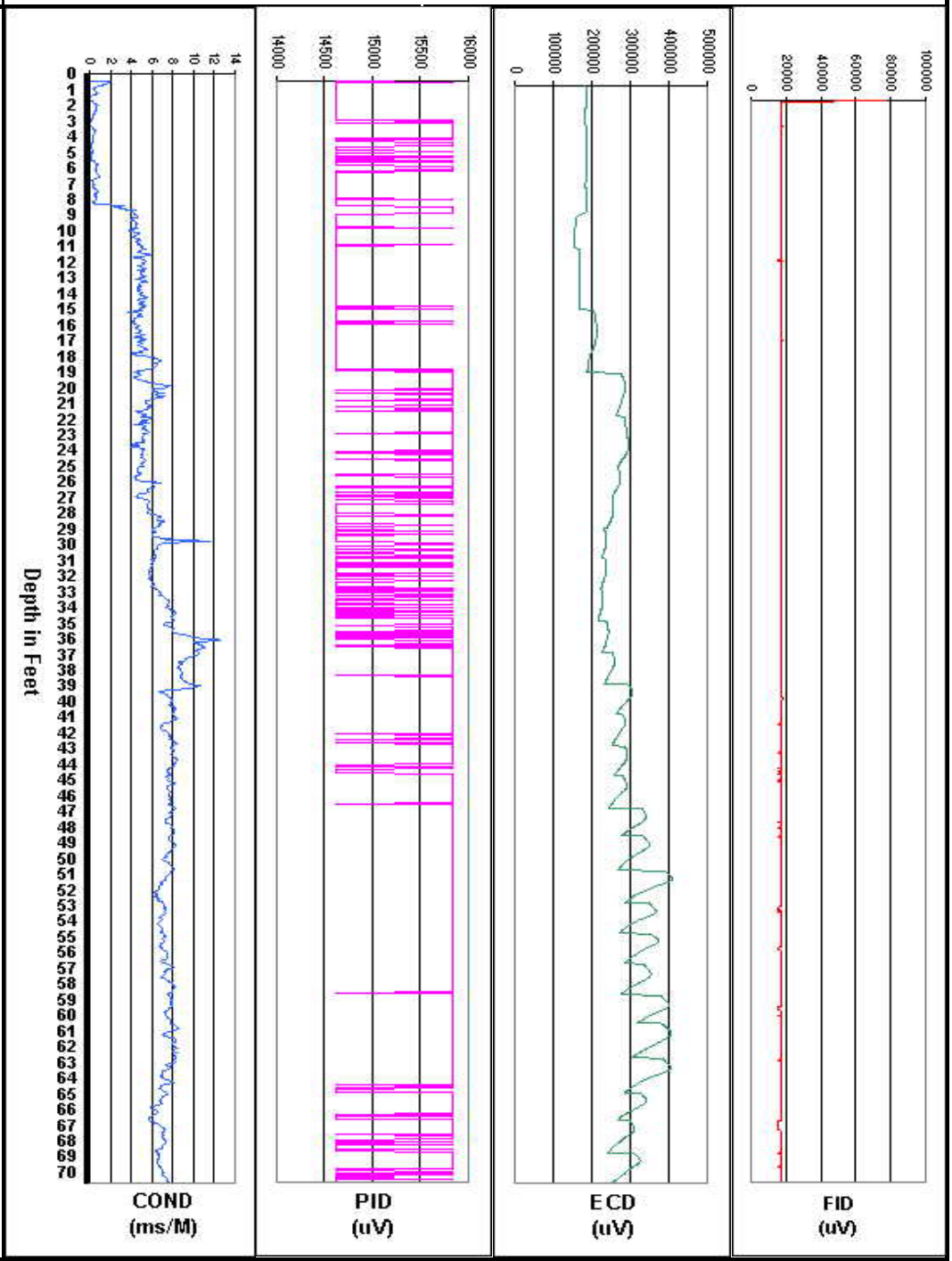
BORING/GEOPHYSICAL REPORT

DESIGNATION: GWMIP-20
TOTAL DEPTH: 70'
ELEVATION: 16.04'

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: Former Glenwood Landing Gas Plant Site	DRILLING CO.: Zebra Environmental — RIG TYPE: Geoprobe
JOB NO.: 06392.31	MIP OPERATOR: Joe S.
LOGGED BY: Chris P./Scott S.	DRILLER: Bob B.
DATE DRILLED: 3-17-03	METHOD OF DRILLING: Direct Push

DEPTH (SAMP. RECOV.)	SOIL DESCRIPTION	PID (ppm)
58 - 60' (75%)	loose, light brown, medium sand and fine sand with trace coarse sand and gravel, wet	0.0 0.0 0.0 0.0

MEMBRANE INTERFACE/SOIL CONDUCTIVITY PROBE DETECTOR READING



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