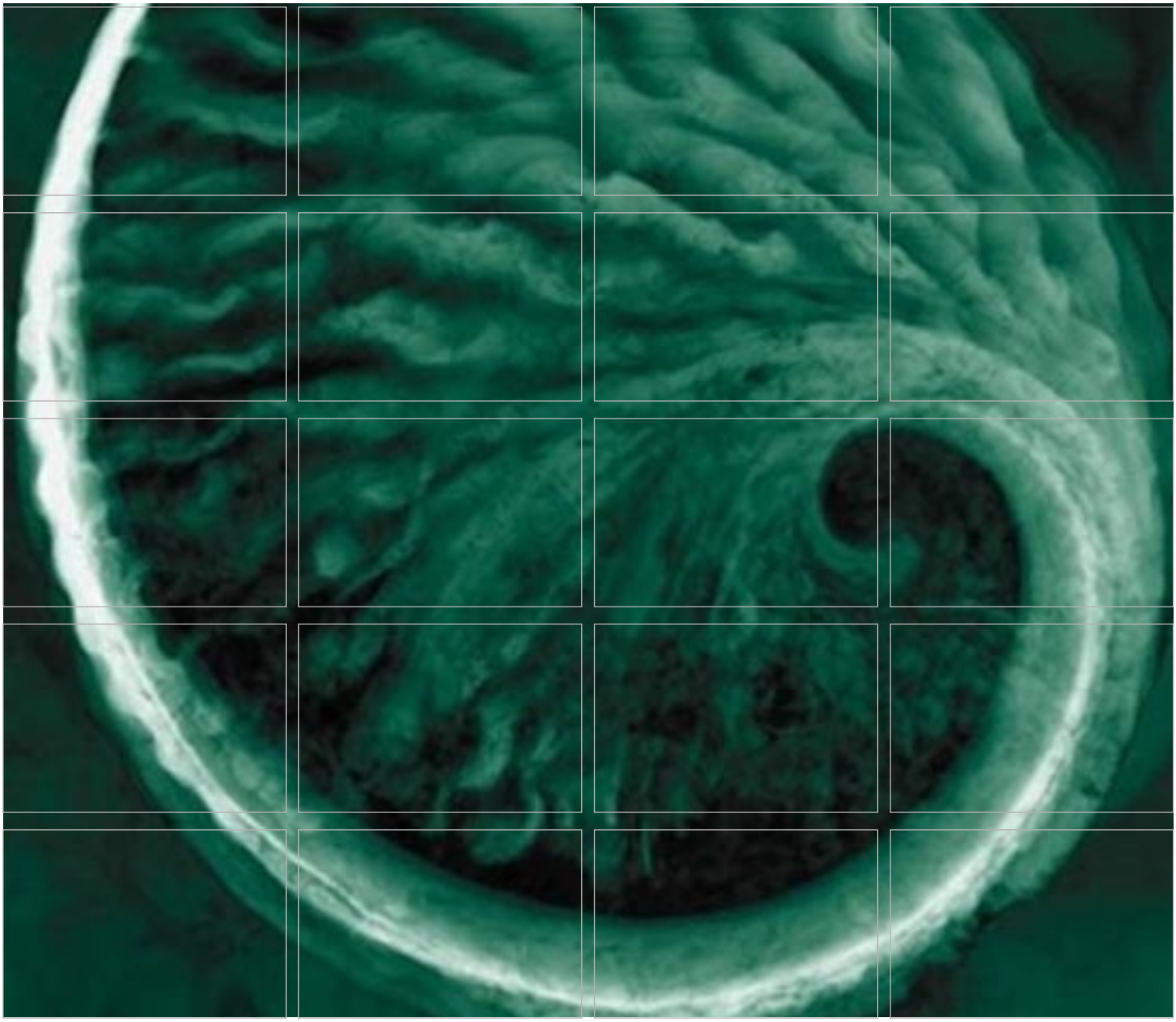

Delphi Corporation

Field Investigation Report
West Lockport Complex, Lockport, NY

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Delivering sustainable solutions in a more competitive world

ERM

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1.0 INTRODUCTION

1.1 INTRODUCTION

This report presents the findings of the Phase II Field Investigation (FI) conducted by Environmental Resources Management (ERM) at the Delphi Corporation (Delphi) West Lockport Complex located at 200 Upper Mountain Road located in the Town and City of Lockport, Niagara County, New York (the Site). Figure 1 presents a map showing the location of the Site. Figure 2 presents a map showing general site layout and the locations of selected features.

The purpose of this Field Investigation Report (FIR) is to describe the field investigation activities and present sampling results pertaining to the Areas of Interest (AOIs) previously identified in the Current Conditions Summary (CCS) report dated October 2006. The objective of the FI was to assess soil and ground water conditions in each AOI and to assess the presence of affected media. A summary of the AOIs and selected analytical parameters are presented in Table 1. ERM performed several site visits and a review of Delphi's environmental files in July, August, and September 2006. ERM prepared a CCS report based on the findings of the file review and site visit. The CCS identified AOIs where evidence of past treatment, storage or disposal (or release) of hazardous waste or hazardous constituents, hazardous substances or petroleum products is known or probable to have occurred.

The scope of the soil investigation included soil borings, sampling of the surface soil, ground water sampling, and sediment sampling of the Gulf creek. ERM completed a total of 144 soil borings (91 interior borings and 53 exterior borings), collected nine creek sediment samples and four surface soil samples (Figures 3 through 6). The scope of the ground water investigation included the installation, development, and sampling of five bedrock monitoring wells (Figure 7). One overburden monitoring well was installed in the vicinity of the waste water treatment plant (WWTP), but was not sampled due to lack of water. ERM also collected ground water samples from four of the existing monitoring wells at the Site.

1.2 HISTORIC INVESTIGATION ACTIVITIES

Prior to the FI performed by ERM, several previous investigations and studies have been conducted at the Site. Subsequent paragraphs of this

section summarize some of the previous investigation activities performed by others at the Site.

Former Tank Farm Ground Water Investigation (Malcolm Pirnie, 1998)

The scope of work performed by Malcolm Pirnie included the following main components:

- installation of four ground water monitoring wells and sampling of three in the area of the former tank farm between Buildings 7 and 10;
- installation of one observation well between two underground fuel oil storage tanks located adjacent to Building 9; and
- laboratory analyses of ground water samples for volatile organic compounds (VOCs) and selected metals.

VOCs and metals were detected in ground water at concentrations above Class "GA" Ground Water Quality Standards. Manganese was detected above the Class "GA" Standard in all three wells. Acetone was detected at 580 mg/l in one of the wells. There was no Class "GA" Standard for Acetone in 1988. Trans-1, 2-dichloroethene, vinyl chloride, tetrachloroethene, and trichloroethene were detected at concentrations above the Class "GA" Standards for these compounds.

Soil Vapor Study Building 7 (Empire Soils Investigations, Inc., 1992)

In 1992, Empire Soils Investigations, Inc. (Empire) performed a soil vapor study in the area of a former degreaser in Building 7 at the Site. The scope of work performed by Empire included the following components:

- installation of seven soil vapor measuring points through the existing concrete floor in an area of a former degreaser in Building 7; and
- soil vapor measurements were collected using a photoionization detector (PID) equipped with a 10.2 electron volt (eV) light source.

Soil vapor measurements ranged from 2 parts per million (ppm) to 500 ppm in the seven soil vapor measuring points.

Focused Remedial Investigation and Focused Feasibility Study Work Plan, Delphi Harrison Thermal Systems, West Lockport Complex, Lockport, New York, NYSDEC Registry Site #932113 and Supplemental Groundwater Sampling Data Report (GZA GeoEnvironmental of New York, April 2001 and October 2001)

Soil and groundwater sampling has been performed by GZA since 1995 to evaluate the extent of constituents resulting from a historic release of trichloroethene (TCE) in the area east of the southeast corner of Building 8. A 1,200-foot long area of affected ground water was investigated as a part of a focused remedial investigation feasibility study (RI/FS). In March of 2005, the NYSDEC issued a Record of Decision (ROD) presenting a selected remedy for the release of TCE from the former AST near Building 8 resulting in contamination of upper bedrock ground water. The ROD specifies monitored natural attenuation (MNA) as the selected remedy based on the RI/FS results (NYSDEC, 2005).

Affected soil was identified in 1994 adjacent to a decommissioned above-ground storage tank (AST) that was used to store TCE. Affected soil was removed in 1994, and subsequent investigations suggested that residual affected soil is not extensive.

The ratio of TCE to its breakdown products (cis-1, 2-DCE and vinyl chloride) decreases downgradient, suggesting that natural attenuation and biodegradation of the contaminants is occurring.

CBS Tank Closure (letter NYSDEC from Delphi, 9 May 2001)

Tin (up to 1,200mg/kg) and zinc (to 19,800 mg/kg) was detected in soil beneath the floor in and around the Acid Flux Room located in the south end of Building 7. The metals were identified as being associated with historic releases from eight former sumps located between building columns BB-3 and EE-3. The sumps were used for storage of liquid flux (a chemical material used for metal joining operations).

Affected soil was identified beneath the building floor in an area of approximately 40 to 60-feet surrounding the former sumps. The top of bedrock in the area of the release is approximately 12-feet below the floor. Affected soil was found to extend to the top of bedrock at locations adjacent to the former sumps. NYSDEC made a no further action (NFA) determination in a letter date November 2000.

Annual Groundwater Sampling, Petroleum Storage Tanks (letter from GZA GeoEnvironmental to Delphi)

GZA annually samples six sentinel wells (TK-1 through TK-6), wells that surround the two 1.25-million gallon ASTs for No. 2 fuel oil located west

of Building 16 (tanks 16-37 and 16 -38). Samples were analyzed for poly nuclear aromatic hydrocarbons (PAHs) by United States Environmental Protection Agency (USEPA) method 8270. PAHs have not been detected in sample rounds. Groundwater elevations ranged from 623 to 617-feet above mean sea level. Shallow ground water flow in the area was toward the southeast.

PCB Cleanup Activity Report (Delphi Harrison Thermal Systems, 12 November 1998)

During a 1998 construction project, PCB residual affected soil resulted during the short-term staging of PCB waste material in a debris staging area. The PCB affected material and debris was derived from the demolition of a former underground oil-handling-sewer manhole in the northeast part of Building 7. The manhole was associated with an abandoned underground oil-recovery sewer. The sewer led from a metal machining operation through the manhole to the waste-oil storage pad located north of the northeast corner of Building 7. Oil was present in this manhole, and demolition of the manhole resulted in the release of PCB oils to surrounding debris and soil.

Oil removed from the manhole was discharged to an oil-water separator located at the used oil storage pad and connected to the process wastewater sewer system. The matter was reported by Delphi to NYSDEC (Spill #9803091) and the National Response Center. Approximately 50-tons of PCB affected soil was excavated from the C&D staging area and was properly disposed of offsite at a licensed disposal facility. Confirmation sampling indicated that residual PCB levels were below applicable cleanup standards. The excavation at the manhole was completed as approved by NYSDEC. NYSDEC's spill file for this case was subsequently closed.

Closure Certification Report for Hazardous Waste Piles (Snyder Engineering, September, 1990)

Unlined drying beds used in the 1970s and 1980s for drying wastewater-treatment sludge were located in five areas on the west side of the facility. The sludge placed in these drying beds, which were also referred to as waste piles, contained metal hydroxides (primarily zinc, copper, lead and tin) and calcium fluoride. The waste piles were the subject of the site's previous listing as site #932017 on the state registry of inactive hazardous waste sites.

Closure was conducted under a consent order with NYSDEC. In 1990, residual liquid was removed followed by the removal of approximately 91,000-tons of waste sludge and 44,000-tons of contaminated soil. Soil sampling activities included analysis for a broad range of potential hazardous waste constituents, and results reportedly indicated that soil contaminants were limited to copper, lead and zinc. The closure report states that final rounds of confirmation sampling indicated that metals concentrations were below acceptable concentrations.

The closure certification report references a 9 April 1990 letter from NYSDEC confirming that the closure of the former waste piles had been completed in accordance with the approved closure plan and applicable regulations. The closure report acknowledged that additional ground water monitoring was needed to determine whether post-closure care was required.

The former waste piles were removed from the state registry in 1996. Official notification that the site had been deleted from the registry was provided to Delphi in a letter from NYSDEC dated 14 November 1996. Associated groundwater monitoring wells have been removed.

Building 7, Investigation of Loading Dock 7W4 (GZA, Inc.)

In January 2005, Delphi collected soil samples in the vicinity of the loading dock (7W4). Analytical results revealed an exceedance of a TAGM 4046 standard for PCE at three sample locations; Sample 2 (1.5 ppm), Sample 3 (25 ppm) and Sample 4 (450 ppm) and TCE at one location, Sample 4 (1.1 ppm). These samples were collected from a depth of approximately 16–inches bgs.

In June 2005, GZA was retained by Delphi, to assess for the presence and extent of solvents along the western side of Building 7 in the vicinity of Loading Dock 7W4. The work included the completion of soil sampling at 12 locations, headspace screening of soil samples taken from the macrocore sampler and analysis of twelve subsurface soil samples. The results of the sampling event include:

- PCE was detected in 5 of the 12 soil samples sent for analysis at a concentration above method detection limits. PCE was detected at 7W4-A 8 to 9-feet bgs (0.6 ppm), 7W4-B, 6 to 7.9-feet bgs (0.2 ppm), 7W4-C, 8 to 8.8 feet bgs (0.8 ppm), 7W4-D, 6 to 8-feet bgs (1.1 ppm) and

7W4-F, 8 to 8.5-feet bgs (0.5 ppm). These detections of PCE did not exceed its TAGM 4046 RSCO of 1.4 ppm. No other compounds of concerns were detected above method detection limits in samples sent for analysis.

Based on field observations, field screening and subsurface soil analytical data obtained, GZA concluded:

- PCE was detected at 5 of the 12 sampling locations along the western side of Building 7;
- The detections of PCE in the five samples did not exceed the TAGM 4046 RSCO for PCE of 1.4 ppm;
- The soil locations where PCE was identified 7W4-A, -B, -C, -D and –F as part of GZA's June 2005 work and the samples collected by Delphi in January 2005 have either a concrete or asphalt surface cover;
- The PCE identified in soils at the 7W4 loading dock appeared to be from a surface or near surface release and has impacted a relatively small area;
- No additional work was recommended for Spill No. 0485413.

In a letter dated July 27, 2005, from NYSDEC, the spill was assigned an "inactive status."

2.0 BACKGROUND

The following background information was adapted from previous environmental assessment due diligence and other documentation obtained by ERM during the CCS.

2.1 SITE LOCATION AND DESCRIPTION

Delphi Corporation's West Lockport Complex is located at 200 Upper Mountain Road in the City and Town of Lockport, Niagara County, New York (Figure 1). Most of the developed area of the Delphi property is located on an annex to the City of Lockport. A portion of Building 6 and the wastewater treatment plant (WWTP) are located within the Town of Lockport. Lockport is located in the northwest portion of New York State approximately 13 miles south of Lake Ontario.

The Site occupies approximately 511-acres with approximately 3.2 million square feet of building space. Elevations at the Site range from 630 to 575-feet above mean sea level. The Site includes three manufacturing buildings (Buildings 7, 8, and 9), one warehouse/distribution center (Building 10) that housed some manufacturing operations in the past, four office and engineering buildings (Buildings 6, 7A, 8A, and 9A), several support buildings, and a wastewater treatment plant (WWTP).

2.2 FACILITY HISTORY

The Site was initially developed in 1937 by Harrison Radiator of Lockport on vacant agricultural land and orchards. The Site was developed as part of an expansion of Harrison's radiator manufacturing operation then located in downtown Lockport. In 1939, manufacturing operations began at the Site. Today, similar operations are still being performed at the Site. Harrison Radiator was later acquired by General Motors (GM) and in January 1999, GM transferred ownership to Delphi.

The first manufacturing building at the Site was the southwest quarter of Building 7. Building 7 was expanded in 1945 and 1952 to increase manufacturing capacity. As part of the 1952 expansion of Building 7 to the north, a building identified as the "Die Rack & Truck Repair Building" was removed to accommodate the expansion. The Repair Building was constructed some time after 1940. During the 1960s, construction and expansion of other buildings occurred. The WWTP was constructed in 1969 and began operation in 1970. The cogeneration (Co-Gen) plant

located in the western portion of the Site was built by others on vacant land previously acquired by GM and began operation in 1992.

The Site currently operates as Delphi Thermal Division of Delphi Corporation. Currently, Site operations include the manufacture and assembly of components for automotive heating and cooling systems (engine cooling systems and HVAC systems).

The EPA Generator ID Number for the Site is NYD002126852. The Site currently operates as a "Large Quantity Generator" of hazardous waste, generating more than 2,200 pounds per month. Presently, the hazardous waste streams generated at the Site include: metals from brazing activities, ignitable solvents and paints from the painting process, and petroleum distillates from vehicle testing operations.

The Facility purchases water from the City of Lockport, with backup supply occasionally provided by Niagara County. Sanitary sewage and process water at the Facility is discharged to the City of Lockport sewer and Publicly Owned Treatment Works system. Storm water at the Site is discharged under a state SPDES permit to the Gulf, a tributary to 18 Mile Creek.

2.3 CLIMATE

The City of Lockport is located in western New York and experiences a climate influenced by the Great Lakes resulting in a wide range of weather conditions throughout the year. Average temperatures in the winter range from 20ºF to 30ºF and from 70ºF to 80ºF in the summer. Lockport experiences on average 2 to 4-inches of precipitation per month throughout the year. During the winter, the City averages 18 to 24-inches of snowfall per month. Wind speeds in the area range from 9 miles per hour (mph) to 14-mph throughout the year.

2.4 DEMOGRAPHICS

As of the last census conducted in 2000, approximately 22, 279 people (10,660 males and 11,619 females) lived in the City of Lockport. The median resident age was 35.9 years; the median household income was $35,222; and the median house value was $69,900. The total number of people who live and work in Lockport is 3,344. The following industries account for the majority of employment in the City of Lockport:

- manufacturing jobs (21.1-percent);
- educational, health, and social services (20.5-percent); and
- retail trade (13.3-percent).

All above demographic information was obtained from www.city-data.com.

2.5 SURROUNDING LAND USE

The property surrounding the Site includes agricultural fields and commercial properties to the southwest and west; an industrial park on the northwest; and private residences along Upper Mountain Road to the north and northeast. A rail line is located along the eastern section of the southern site boundary and Old Saunders Settlement Road is located on the south side of the rail line. A few small industrial properties and a small scrap yard are located on the south side of Old Saunders Settlement Road. An underground gas transmission pipeline transects the property adjacent to the southwest corner of the Site. Lockport Junction Road borders the westernmost portion of the Site. An industrial park is located adjacent to the west boundary west of Building 9.

2.6 SURFACE WATER HYDROLOGY

Surface water from the western side of the Site flows to an intermittent stream that begins as a ditch and flows east and then southeast to a storm water retention pond located at the south boundary (south of Building 10). This stream becomes a branch of the Gulf, a stream that drains most of the Site. After leaving the pond, the stream crosses under the railroad tracks along the south boundary and flows across the properties located south of Old Saunders Settlement Road. This stream converges with another stream branch and re-enters the site southeast of Building 7. The stream then flows northeast across the eastern end of the Site capturing runoff from the parking lots on the east side of Building 7. Upon crossing Upper Mountain Road, the stream descends down into the valley of the Gulf.

2.7 REGIONAL GEOLOGIC SETTING

The Site is located just south of the Lockport escarpment. The escarpment was formed by differential erosion of resistant dolostone bedrock and lithologic units.

The following regional surficial geologic information was obtained from the Soil Survey of Niagara County, New York (Higgins, et al; 1972). The Site is located in Niagara County which extends 18 miles from north to south and 30 miles from east to west and occupies a land area of 533 square miles. Niagara County is comprised of eleven soil associations "grouped according to the nature of the material in which the dominant soils formed" (Higgins, et al; 1972).

About 36-percent of Niagara County is dominated by soils formed in lake-laid clays and silts described as level to gently sloping, deep, somewhat poorly drained, and have moderately fine-textured or fine-textured subsoil. These soils are grouped into two associations: Rhinebeck-Ovid-Madalin association (15-percent) and the Odessa-Lakemont-Ovid association (21-percent).

Soils formed in glacial till are present in 33-percent of the county and are described as deep to moderately deep, well drained to very poorly drained, and have a medium-textured to fine-textured subsoil. These soils are grouped into three associations: Appleton-Hilton-Sun association (14-percent), Hilton-Ovid-Ontario association (15-percent), and Lockport-Ovid association (4-percent).

About 17-percent of the county contains soils formed in lake-laid silts and very fine sands described as nearly level to gently sloping, moderately well drained to very poorly drained, and have a medium-textured to fine-textured subsoil. These soils are grouped into two associations: Niagara-Collamer association (6-percent) and Canandaigua-Raynham-Rhinebeck association (11-percent).

Soils formed in lake-laid sands are present in 8-percent of the county and are described as deep, nearly level or gently sloping, moderately well drained and somewhat poorly drained, and have a medium-textured to coarse-textured subsoil. These soils are grouped into two associations: Minoa-Galen-Elnora association (4-percent) and Claverack-Cosad-Elnora association (4-percent).

About 6-percent of the county contains soils formed in gravelly glacial outwash or in beach and bar deposits. These soils are described as deep, excessively drained to poorly drained, and have a medium-textured to coarse-textured subsoil. These soils are grouped into two associations:

Howard-Arkport-Phelps association (2-percent) and Otisville-Altmar-Fredon-Stafford association (4-percent).

The bedrock geology in Niagara County consists primarily of Upper Ordovician Queenston Shale in the northern portion of the county. The southern portion of the county is dominated primarily by Upper Silurian Lockport Dolostone and Salina Group shale and dolostone (Rickard and Fisher, 1970).

2.8 FACILITY GEOLOGIC SETTING

Site geologic cross-sections based on soil boring information are presented in Figures 8a through 8h. The surficial geology at the site consists predominantly of brown to reddish brown silty clays and ranges in depth from 0 to 15-feet below grade surface (bgs). The silty-clays observed during the FI are typically consistent with soil mapped by others as Ovid Silt Loam (OvA) and were formed in calcareous glacial till that was modified by glacial lake sediment (Higgins, et al; 1972).

Lockport Dolostone bedrock underlies the Site and is exposed at locations on the property. The exposed dolostone contains irregular bedding and ranges in color from brownish gray (5YR 4/1) to light brownish gray (5YR 6/1). The thickness of this formation is approximately 40 to 45-feet and there is no sharp contact with the underlying Rochester Shale (NYSDEC, 2005).

2.9 HYDROGEOLOGIC SETTING

Based on ERM's FI and previous investigations, the primary water bearing zone is located within the upper Lockport Dolostone. Depth to ground water ranged from 2.1 to 10.0-feet bgs. Previous ground water investigations also indicate that ground water flow is generally to the east towards the Gulf.

The City of Lockport provides water supply service to the Site and potable water to the surrounding properties. Monitoring wells are present, but no water supply wells are located on the property. Several private domestic-water-supply wells are located on adjacent residential properties along Upper Mountain Road. H&A indicated in their Phase I Assessment dated 2001, that four of the water supply wells may be down gradient of the north end of the Site; however, these wells were identified by NYSDEC as

not being utilized. No public water supply wells were identified in the vicinity of the Site during H&A's Phase I Assessment.

2.10 CONCEPTUAL SITE MODEL FOR HUMAN AND ECOLOGICAL EXPOSURES

Preliminary conceptual site models (CSMs) for the Site were prepared to identify human and ecological receptors that could be exposed to constituents of potential concern (COPCs) released during historical operations. These receptor exposures could take place as a result of contact with environmental media on-site at the Site, or as a result of environmental transport of COPCs off-site across the Site boundaries. Based on a review of available information, the preliminary CSMs identify generic types of exposure pathways and receptors typically found at sites with contaminants and media of concern similar to those present at the Delphi Site. If a formal risk assessment were to be performed, all relevant site-specific potential exposure pathways and receptors would be verified prior to characterizing potential risks.
The CSMs consider current and hypothetical future land uses for the Facility, as described below:

- *Current Land Uses*: Currently, the Facility is used for on-going industrial operations by Delphi. Properties surrounding the Facility have been developed for mixed purposes, and include residential, commercial/industrial, and recreational land uses.

- *Future Land Uses*: Hypothetical development of the Facility could include residential or commercial/industrial properties. In addition, a portion of the property will continue to be used by Delphi for their industrial operations.

The following subsections describe human and ecological receptor populations and the exposure pathways by which these receptors may be exposed to COPCs under current and future uses.

2.10.1 Receptor Populations Exposed to COPCs

Human and ecological receptors are discussed separately below. A diagram of the human health conceptual site model is provided in Figure 9.

2.10.2 Human Health Receptors

The following human receptor populations have been identified for the Facility (Figure 9):

- Industrial workers (adult populations only);
- Construction workers (adult populations);
- Facility visitors (adult populations);
- Adolescent trespassers (teenage populations);
- Hypothetical on-site residents (adults and children); and
- Off-site residents (adults and children).

It should be noted that ground water is not currently used for potable purposes either on-site or off-site, and is not expected to be used for potable purposes in the future even under a hypothetical residential scenario. Therefore, direct contact with and ingestion of ground water are not considered complete exposure routes for any potential human receptor population. If off-site discharge of ground water to surface water is a potentially complete exposure pathway, the off-site residential scenario should evaluate incidental surface water and sediment exposures, as described below.

In addition, while the majority of the Facility is covered by buildings, pavement, or landscaped/ruderal grass, the potential for exposure to fugitive dust (particulates) from wind-blown soil is a standard exposure route typically evaluated in a risk assessment.

Exposure routes for each of the potential human receptor populations will be discussed individually below.

2.10.3 Human Health Exposure Pathways

A complete exposure pathway requires four elements as illustrated in Figure 9.

Typical exposure routes considered for adult **on-site industrial or construction workers** include:

- incidental ingestion of soil;
- incidental dermal contact with soil;
- inhalation of fugitive dust (particulates) from wind-blown soil; and
- inhalation of volatile organic chemicals (VOCs) released from soil or ground water into indoor and outdoor (ambient) air.

No direct contact with ground water, surface water, or sediment is expected to occur.

Typical exposure routes considered for **Facility visitors** are the same as for the on-site industrial or construction workers, and include:

- incidental ingestion of soil;
- incidental dermal contact with soil;
- inhalation of fugitive dust (particulates) from wind-blown soil; and
- inhalation of volatile organic chemicals (VOCs) released from soil or ground water into indoor and outdoor (ambient) air.

No direct contact with ground water, surface water, or sediment is expected to occur. However, because Facility visitors have limited access to the site, their exposure will likely be considerably less intense and less frequent than hypothetical on-site residential and commercial/industrial worker populations.

Similar to the Facility visitors, **adolescent trespassers** at the Facility may occasionally be exposed to COPCs, and their exposure will likely be considerably less intense and less frequent than hypothetical on-site residential and commercial/industrial worker populations. Adolescent trespassers are typically considered potential human receptors even at locations where security is present, unless the site boundaries are completely fenced and monitored. Typical exposure routes considered for adolescent trespassers include:

- incidental ingestion of soil;
- incidental dermal contact with soil;

- inhalation of fugitive dust (particulates) from wind-blown soil; and
- inhalation of VOCs released from soil or ground water into outdoor (ambient) air.

No direct contact with ground water is expected; however, potential contact with on-site surface water, or sediment may occur (incidental ingestion, dermal contact, and inhalation of vapors).

Typical exposure routes to COPCs by **hypothetical on-site residents** would include:

- incidental ingestion of soil, surface water and sediment;
- dermal contact with soil, surface water and sediment;
- inhalation of fugitive dust (particulates) from wind-blown soil; and
- inhalation of VOCs released from soil, surface water or ground water into indoor and outdoor (ambient) air.

Exposure to COPCs by **off-site residents** is limited to the potential for ground water migration, where impacted ground water may potentially discharge to a surface water feature such as a stream or wetland, or where ground water may be captured by a water well. In this case, potential human receptors are evaluated under a wading scenario for shallow water stream systems, or under a recreational swimming scenario for deeper water bodies.

Evaluation of receptor populations in a formal risk assessment will incorporate measures of potential exposure frequency and exposure duration in order to provide conservative estimates of the risks associated with COPCs at the Site.

2.10.4 Ecological Receptors

A diagram of the ecological conceptual site model is provided in Figure 10. Based upon a review of the Site ecological features, there is a lack of significant terrestrial habitat for wildlife and plant species at the Site. The majority of the Site is covered by buildings, pavement, or landscaped/ruderal grass. The principal habitat type for ecological receptors is a small tributary stream which flows across the Site and off-

site into the "Gulf", which is a naturally-occurring valley with tall, steep slopes. The tributary stream in the Gulf eventually discharges to the 18-Mile Creek. Habitats off-site in the area of the Gulf would include both aquatic and terrestrial ecosystems. For example, the onsite tributary stream discharges to an area of significant terrestrial and aquatic habitats downgradient of the site, in an area called the Guld Wilderness Park.

The discussion below focuses on those receptors that would serve as candidates for evaluation as assessment endpoints in an ecological risk assessment. For purposes of the ecological conceptual site model, species were grouped into broad taxonomic and trophic groupings, based on similar habitat, foraging and nesting preferences, as follows:

- Plants occurring in both wetland and terrestrial habitats, including shrubs, trees, annual grasses, and forbs;
- Invertebrates, including aquatic macroinvertebrates, soil invertebrates, and herbivorous insects;
- Avian wildlife, including raptors; waterbirds; songbirds; and quail and relatives (e.g., ring-necked pheasant, wild turkey);
- Mammalian wildlife, including large herbivores (e.g., deer); carnivores (e.g., skunk, fox); bats; terrestrial small mammals (e.g., squirrels, mice, rabbits); and aquatic mammals (e.g., muskrat, mink);
- Reptiles, including snakes and turtles;
- Amphibians, including frogs, toads and salamanders; and
- Fish.

2.10.5 Ecological Exposure Pathways

As shown in Figure 10, the conceptual site model illustrates potential exposure pathways for ecological receptors. Ecological receptors are potentially exposed to COPCs through inhalation, contact and absorption, ingestion of drinking water and dietary sources, and incidental ingestion of soil, surface water and sediment. It is important to note that not all potentially ecologically relevant exposure pathways are subject to quantification using predictive methods in an ecological risk assessment (ERA). This is because of the lack of toxicity reference values and/or exposure parameters needed to quantitatively address particular exposure

routes (e.g., dermal exposure, inhalation) and species (e.g., reptiles). However, certain of these exposure pathways can be evaluated qualitatively in a screening-level ERA, and if necessary, more detailed Site -specific investigations may be conducted to address uncertainties in a baseline ERA phase.

The primary exposure routes subject to predictive evaluation are ingestion of food items and drinking water by avian and mammalian wildlife, along with their associated incidental ingestion of soil or sediment. The extent of food chain exposure depends on the placement of each receptor within the food web, whether aquatic or terrestrial. Terrestrial habitat is limited at the Site, therefore, terrestrial species expected to be present on-site would be limited to species common in urbanized settings including small mammals (e.g., rodents), and transient birds. The on-site tributary stream provides habitat that would be expected to contain aquatic plant, invertebrate and small lower trophic level fish species.

Aquatic transport via ground water and surface water flow is expected to be the main migration pathway from source areas to adjacent areas with the potential to affect ecological receptors. Surface water could transport COPCs as a result of erosion and surface runoff, or transport of COPCs in the water column either bound to suspended sediments or in dissolved form.

3.0 INVESTIGATION OVERVIEW

3.1 SOIL INVESTIGATION PROCEDURES

ERM conducted soil investigation in the Fall of 2006. The scope of the soil investigation included installation of soil borings throughout the Site and the collection of surface soil and sediment of the Gulf creek. All soil sampling activities were conducted in conformance with ERMs Quality Assurance Project Plan (QAPP). A total of 144 soil borings (91 interior borings and 53 exterior borings) were completed in October 2006 to evaluate soil conditions at the previously identified 50 AOIs (Figures 3 through 6). The 144 soil borings consisted of:

- 11 borings at Building 6;
- 57 borings at Building 7;
- 41 borings at Building 8;
- 14 borings at Building 9;
- 8 borings at Building 10;
- 2 borings at Building 15;
- 3 borings at Building 18; and
- 8 borings at miscellaneous areas around the Site.

An example of the sampling and boring nomenclature used during the FI is "9-108-C". The "9" designates the Building Number, the "108" designates the AOI sample identification, and the "C" designates the boring identification.

All soil borings were advanced by ERM's drilling subcontractor, TREC Environmental Inc. (TREC), of Spencerport, New York, who utilized both track and truck mounted Geoprobes ® rigs. In addition, groundwater monitoring wells were installed by Nothnagle Inc., of Rochester, New York who utilized both hollow-stem auger and an air rotary rig.

TREC filed a request through Dig Safely New York for subsurface utility clearance of member companies. All boring locations were cleared by Delphi's senior facility engineer, Mr. Fred Bauer, prior to drilling at each location (in accordance with Delphi Corporate policy). For approximately 12 locations, ERM subcontracted New York Leak Detection, Inc. (NYLD), of Jamesville, New York, a private utility locator, to clear the boring locations prior to drilling. NYLD utilized Ground Penetrating Radar

(GPR) at 250 mhz for depths zero to 30-feet bgs, 500 mhz for zero to six feet bgs, and 1000 mhz for zero to 24-inches bgs.

Soil borings were advanced using direct push or hollow-stem auger drilling technologies. Soil samples were collected using a macro-core sampler or steel split spoons. All recovered soil samples were screened for headspace VOCs in with a calibrated Photo Ionization Detector (PID) with an 11.7 eV UV lamp. A Flame Ionization Detector (FID) was used to continuously monitor VOC concentrations in the breathing zone during boring activities. Soil samples were collected for analysis from the depth interval of highest PID readings at each soil boring location. Subsequent to field screening, soil samples were described by an ERM geologist for color, texture, structure, competence, odor, and moisture content. Soil borings were terminated at refusal. Copies of ERM soil boring logs are included in Appendix A.

3.2 SEDIMENT AND SURFACE SOIL INVESTIGATION PROCEDURES

ERM collected four surface soil samples and nine creek sediment samples from the Gulf (Figures 6). A hand auger was used to collect all creek sediment and surface soil samples. Recovered soil samples were screened for headspace VOCs with a calibrated PID with an 11.7 eV UV lamp. Subsequent to field screening, soil samples were described by an ERM geologist for color, texture, structure, competence, odor, and moisture content.

3.3 GROUND WATER INVESTIGATION PROCEDURES

Monitoring wells were installed at six boring locations (7-A-6, 7-C-2, 7-P-1, 8-003-B, 9-101-A, and 88-WWTP-115). Five monitoring wells were extended into shallow bedrock and one was completed in overburden at the WWTP. Ground water sampling activities were conducted in conformance with ERMs QAPP. The five bedrock wells were completed at depths ranging from 12 to 24-feet bgs. The overburden well at the WWTP was completed at 5.5-feet bgs (top of bedrock). Monitoring well locations are presented on Figure 7. Copies of the monitoring well construction logs are included in Appendix B.

Monitoring wells were constructed with 2-inch inside diameter, threaded flush joint, Schedule 40 PVC casing and 0.010-inch factory slotted screens. A washed-sand was used to install a sand filter pack around the screened

interval. The sand filter pack was installed to a height of 1 to 2-feet above the top of each well screen. During the installation of the sand pack, the sand was tamped down using a weighted tape measure to minimize the potential for bridging, and to ensure the proper placement and thickness of the sand. During this time, the augers were slowly removed. A 1-foot thick seal of pre-hydrated bentonite chips was used to install a seal above each sand filter pack. Once the bentonite seal is in place, the remaining annular space was backfilled with cement-bentonite grout. Grout was added as required so the top of the grout settled at an elevation approximately one foot below ground surface. Monitoring Well Construction Logs are presented in Appendix B.

Monitoring wells were developed using a disposable polyethylene bailer and peristaltic pump prior to sampling. Turbidity readings were recorded during developing activities using a Lamotte 2020e Turbidity Meter. Each of the monitoring wells were bailed utilizing a new bailers and bailer cord at each well during well development. Monitoring wells were allowed to equilibrate for approximately one week prior to purging and sampling.

ERM performed a round of ground water sampling including the sampling of four existing wells at the Site on 8 November 2006 and 14 November 2006. Three volumes of water were purged from each of the wells prior to sampling. ERM recorded field data including temperature, pH, conductivity, dissolved oxygen (DO), and oxygen reduction potential (ORP) using a YSI 556 with flow cell prior to collecting ground water samples from each monitoring well. The overburden well at the WWTP was not sampled due to lack of water. A summary of ground water development parameters are presented in Table 2. Copies of the ground water sampling records are included in Appendix C.

3.4 LABORATORY PROCEDURES

In conformance with ERMs QAPP, all samples were placed in a thermally insulated container and chilled. At the end of each field day, the samples were transported under proper chain of custody procedures via a laboratory currier to Severn Trent Laboratories (STL) in Amherst, New York for analysis. STL is a New York State Department Of Health (NYSDOH)-approved environmental laboratory. One blind duplicate sample was collected per every 20 samples. Copies of laboratory analytical reports and chain of custodies are included in Appendix D.

4.0 INVESTIGATION RESULTS AND EVALUATION

4.1 SOIL INVESTIGATION RESULTS

Due to the volume of soil samples collected during the FI, the data were organized in a Microsoft Access database and screened according to concentrations exceeding Part 375 Soil Cleanup Objectives (SCOs) for Unrestricted Use (USCOs), Restricted Commercial Use (RCSCOs), and Restricted Industrial Use (RISCOs) (NYSDEC, 2006).

Interferences in several samples resulted in many reporting limits higher than the USCOs. In these cases it cannot be determined if a contaminant exceeds the screening criteria. A conservative way to treat these non-detect results is to consider it an exceedance if a contaminant was not detected above the reporting limit but the reporting limit was above the USCO.

Table 3, Summary of Exceedances in Soil, presents all results above the USCOs regardless of laboratory flag. Sample results with a "U" flag were not detected but the detection limit was above the USCO. For a complete set of analytical results refer to the laboratory analytical reports included in Appendix D.

Soil results exceeding screening criteria are also presented on Figures 12 through 17. For most figures the screening criteria are RCSCOs and RISCOs. However, on Figures 12A and 17A, USCOs are used. On the figures, ERM applied a factor of 25-percent above the unrestricted standard as screening criteria for non-detect results that have a reporting limit above the applicable SCO. That is, results flagged with a "U" are not shown on the figures unless they are at least 25% above the SCOs. As an aid for the reader, actual detections above screening criteria (without a "U" flag) are highlighted in yellow on the figures.

In the remainder of Section 4.1, only concentrations exceeding the USCOs that are ***not*** noted with a "U" flag will be discussed. Compounds exceeding the USCOs will be provided in a bulleted list, parameters exceeding the RCSCOs will be indicated by *, and compounds detected above both the RCSCOs and RISCOs will be indicated by **.

4.1.1 Building 6

Building 6 consisted of four AOIs, two interior (3 and 4), one exterior (2), and one interior/exterior (1). AOI 1 evaluated the historic brine vault and associated drainage tile on the northwest corner of Building 6. AOI 2

evaluated the two former 20,000-gallon #2 fuel oil USTs removed in the mid-1980's from this area. The investigation at AOI 3 focused on the historical location of the former model shop PCE degreaser. AOI 4 evaluated the hydraulic lifts used without containment in Building 6. Boring 6-A-1 could not be completed in the brine vault due to the thickness of the concrete.

A total of 11 borings were completed at Building 6 (6 interior and 5 exterior). Building 6 interior and exterior boring locations and associated concentrations exceeding the Draft Part 375 RCSCOs and RISCOs are presented in Figure 12. Building 6 concentrations exceeding the Draft Part 375 USCOs are presented in Figure 12a.

At AOI 2, VOCs and SVOCs were detected at concentrations above USCOs in one boring (sample 6-B-1) for the following parameters:

- acetone;
- benzo(b)fluoranthene;
- benzo(a)pyrene**;
- indeno(1,23-cd)pyrene;
- total cadmium*; and
- total zinc.

At, AOI 3, VOCs were detected at concentrations above the USCOs in three borings (samples 6-C-1, 6-C-2, and 6-C-3) for the following parameters:

- 1,2-dichloroethane;
- acetone;
- methylene chloride;
- tetrachloroethene; and
- vinyl chloride (6-C-1 and 6-C-3).

4.1.2 Building 7

The results from Building 7 will be discussed in two sub-sections, the eastern and western areas. Building 7 interior and exterior boring locations and concentrations exceeding the Draft Part 375 RCSCOs and RISCOs are presented in Figure 13.

Eastern Portion of Building 7

The eastern portion of Building 7 consists of five AOIs, three interior (12, 15, and 16), one exterior (10), and one interior/exterior (14). AOI 12 evaluated the soil conditions at the former degreaser locations. AOI 15 evaluated the Acid Flux Room and associated process at the south side of Building 7. AOI 16 focused on the historical presence of PCBs and employee observations in the area. AOI 10 evaluated the area of a former coal pile historically located on the northeast side of Building 7. The primary focus of AOI 14 was to evaluate soil conditions in the Used Oil Containment Area near the northeast corner of Building 7.

A total of 22 borings were completed in the eastern portion of Building 7 (15 interior and 7 exterior).

Approximately one-half of the interior borings had concentrations above USCOs. At AOI 10, VOCs, SVOCs, and metals were detected at concentrations above the USCOs for the following parameters:

- acetone (7-C-3);
- acenapthene (7-C-3);
- benzo(a)antracene (7-C-2* and 7-C-3**);
- benzo(b)fluoranthene (7-C-2* and 7-C-3**);
- benzo(k)fluoranthene (7-C-2 and 7-C-3);
- benzo(a)pyrene (7-C-2** and 7-C-3**);
- chrysene (7-C-2 and 7-C-3);
- dibenzo(a,h)anthracene (7-C-2** and 7-C-3**);
- fluoranthene (7-C-3);
- fluorene (7-C-3);
- napathalene (7-C-3);
- phenanthrene (7-C-3);
- pyrene (7-C-3);
- total lead (7-C-3 and 7-C-2); and
- indeno(1,2,3-cd)pyrene (7-C-2 and 7-C-3*).

At AOI 12, VOCs and PCBs were detected above USCOs for the following parameters:

- 1,2-dichloroethane (7-G-7-A);
- total 1,2-dichloroethene (7-G-8-C);

- acetone (7-G-7-A);
- tetrachloroethene (7-G-7-A, 7-G-8-A, 7-G-8-B**, and 7-G-8-C**);
- trichloroethene (7-G-8-B and 7-G-8-C); and
- vinyl chloride (7-G-7-A and 7-G-8-C).

At AOI 14, Aroclor 1248 was detected in 7-M-3 above all three soil cleanup objectives. SVOCs were detected in sample 7-M-2 above the USCOs for the following parameters:

- benzo(a)anthracene;
- benzo(b)fluoranthene;
- benzo(a)pyrene**;
- chrysene; and
- indeno(1,2,3-cd)pyrene.

No concentrations exceeded USCOs in AOI 15.

At AOI 16, SVOCs and metals were detected above USCOs for the following parameters:

- benzo(a)anthracene (7-R-1 and 7-R-3);
- benzo(b)fluoranthene (7-R-1, 7-R-2, and 7-R-3**);
- benzo(k)fluoranthene (7-R-1 and 7-R-3);
- benzo(a)pyrene (7-R-1** and 7-R-3**);
- chrysene (7-R-1 and 7-R-3);
- dibenzo(a,h)anthracene (7-R-1* and 7-R-3**);
- indeno(1,2,3-cd)pyrene (7-R-1, 7-R-2, and 7-R-3);
- total copper (7-R-3*);
- total lead (7-R-3);
- total zinc (7-R-3); and
- PCBs (7-R-3).

Western Portion of Building 7

The western portion of Building 7 consists of five AOIs, four interior (9, 17, 12, and 13) and one exterior (8). AOI 9 evaluates the limited use of hex-chrome for aluminium radiator chromate conversion coating in the west central portion of Building 7. The purpose of AOI 17 was to evaluate the historical presence of oil from the D-466 Presses in the train and truck docks in the northwest portion of Building 7. AOI 12 evaluates soil conditions at the former PCE and Trichloroethene (TCE) degreasers,

specifically the PCE spill at the D-400 degreaser. AOI 13 focuses on a former UST discovered during an audit in 1995 that was closed prior to 1982. On the west side of Building 7, AOI 8 evaluates the former tank farm area and the historical presence of chlorinated volatile organic compounds (CVOCs). A total of 35 borings were completed in the western portion of Building 7 (27 interior and 8 exterior).

For the interior AOIs, 13 borings have concentrations exceeding the USCOs. At AOI 8, VOCs and metals were detected above USCOs for the following parameters:

- acetone (7-A-5, 7-A-6, and 7-A-9);
- methylene chloride (7-A-5, 7-A-6, and 7-A-9);
- tetrachloroethene (7-A-5, 7-A-6, and 7-A-9);
- trichloroethene (7-A-5);
- vinyl chloride (7-A-7); and
- total mercury (7-A-7).

At AOI 9, metals were detected above the USCOs for the following parameters:

- hex chrome (7-B-1 and 7-B-2) and
- total zinc (7-B-1).

At AOI 12, VOCs and PCBs were detected above USCOs for the following parameters:

- 1,2-dichloroethane (7-G-3-C and 7-G-4);
- Total 1,2-dichloroethene (7-G-1-A and 7-G-3);
- acetone (7-G-1-A, 7-G-2-A, 7-G-3-A, 7-G-3-B, 7-G-3-C, 7-G-4-C, 7-G-4-D, 7-G-10-B, 7-G-11-B, and 7-G-11-C);
- ethylbenzene (7-G-11-C);
- methylene chloride (7-G-3-A, 7-G-3-B, 7-G-4-C, 7-G-11-B, and 7-G-11-C);
- tetrachloroethene (7-G-1-A, 7-G-3-B**, 7-G-3-C, 7-G-4-C, , and 7-G-8-B);
- total xylenes (7-G-11-B and 7-G-11-C);
- trichloroethene (7-G-1-A, 7-G-3-A, 7-G-3-B, and 7-G-3-C);
- vinyl chloride (7-G-3-B); and
- Aroclor 1248 (7-G-4-C*).

No parameters were detected above USCOs within AOI 13 and 17.

4.1.3 Building 8

Building 8 will be discussed in two sections, the northern and southern areas. Building 8 interior and exterior boring locations and concentrations exceeding the Draft Part 375 RCSCOs and RISCOs are presented in Figure 14.

Northern Portion of Building 8

The northern portion of Building 8 consists of four AOIs, three interior (18 and a portion of 22 (8-005-5 and 8-005-1 borings), and 23) and one exterior (19). AOI 18 evaluates the eight former chromium sump locations and the associated processes and repairs in the central portion of Building 8. The purpose of AOI 22 was to evaluate soil conditions at the former solvent degreaser locations in Building 8. The focus of AOI 23 was to assess the impact of historic press operations in the northeast corner of Building 8. AOI 19 evaluates the three USTs and underground paint dump associated with painting operations on the north/northwest side of Building 8.

A total of 18 borings were completed in the northern portion of Building 8 (15 interior and 3 exterior).

At AOI 18, metals were detected at concentrations exceeding the USCOs for the following parameters:

- total arsenic (8-001-G**);
- hex chrome (8-001-D, 8-001-G, 8-001-J); and
- total lead (8-001-E and 8-001-J).

Concentrations were not detected above the USCOs in the exterior borings at AOI 19 of Building 10. At AOI 22, total zinc was detected at a concentration exceeding the USCOs in boring 8-005-1. In boring 8-005-5D of AOI 22, concentrations of VOCs were detected above the USCOs in for the following parameters:

- total 1,2-dichloroethene;
- acetone;
- methylene chloride; and
- trichloroethene.

At AOI 23, concentrations of VOCs and SVOCs were detected above the USCOs for the following parameters:

- acetone (8-006-E and 8-006-F);
- benzo(a)anthracene (8-006-C);
- benzo(b)fluoranthene (8-006-C and 8-006-F);
- benzo(k)fluoranthene (8-006-F);
- benzo(a)pyrene (8-006-F**);
- chrysene (8-006-C); and
- indeno(1,2,3-cd)pyrene (8-006-F).

Southern Portion of Building 8

The southern portion of Building 8 consists of five AOIs, two interior (a portion of 22) and three exterior (20, 21, and 24). The purpose of AOI 22 was to assess soil conditions at the former degreaser locations, more specifically the former D-868 and D-861 TCE degreasers. On the exterior southeast side of Building 8, AOI 20 evaluates the impact at the historical location of two former fuel oil USTs. Also on the southeast side of Building 8, AOI 21 evaluates the former 1,000-gallon gasoline UST location. The purpose of AOI 24 was to assess soil conditions near the southeast corner of Pump House #2.

A total of 23 borings were completed in the southern portion of Building 8 (17 interior and 6 exterior).

At AOI 21, concentrations of VOCs, SVOCs, and metals were detected above the USCOs for the following parameters:

- 1,2-dichloroethane (8-004-B);
- total 1,2-dichloroethene (8-004-C);
- acetone (8-004-C);
- benzene (8-004-C);
- methylene chloride (8-004-B and 8-004-C);
- toluene (8-004-C);
- total xylenes (8-004-C);
- trichloroethene (8-004-B and 8-004-C);
- vinyl chloride (8-004-B and 8-004-C);
- benzo(b)fluoranthene (8-004-B); and
- total mercury (8-004-B).

In AOI 22, concentrations of VOCs and SVOCs were detected above the USCOs for the following parameters:

- 1,2-dichloroethane (8-005-3A, 8-005-3B, 8-005-4A, and 8-005-4C);
- total 1,2-dichloroethene (8-005-2A, 8-005-2B, 8-005-3A, 8-005-3B, 8-005-3C, 8-005-4A, and 8-005-4C);
- acetone (8-005-2A, 8-005-2B, 8-005-3A, 8-005-3B, 8-005-3C, 8-005-4A, 8-005-4C, and 8-005-4E);
- methylene chloride (8-005-2A, 8-005-2B, 8-005-3A, 8-005-3B, 8-005-3C, 8-005-4A, 8-005-4C, and 8-005-4E);
- tetrachloroethene (8-005-2B);
- trichloroethene (8-005-2A, 8-005-2B, 8-005-3C**, 8-005-4C, and 8-005-4E);
- vinyl chloride (8-005-3A, 8-005-3B, and 8-005-4C);
- benzo(a)anthracene (8-005-3C);
- benzo(b)fluoranthene (8-005-3C);
- benzo(k)fluoranthene (8-005-3C); and
- chrysene (8-005-3C).

No concentrations were detected above the USCOs in the two borings completed in AOI 24.

4.1.4 Building 9

Building 9 consists of four AOIs, one interior (31), two exterior (29 and 30), and one interior/exterior (32). AOI 31 evaluates a historical spill at column 93 and the sump beneath the oil tanks at the loading docks along the southwest corner of Building 9. The purpose of AOI 29 is to evaluate the condition of the soil in the area of the former 2,000-gallon gasoline UST along the southeast exterior of Building 9. AOI 30 focuses on the former location of two 20,000-gallon #2 fuel oil USTs along the southwest exterior of Building 9. In the southern portion of Building 9, AOI 32 evaluates a historic oil leak from a non-treated sewer discovered in 1994.

A total of 14 borings were completed at Building 9 (seven interior and seven exterior). Building 9 interior and exterior boring locations and concentrations exceeding the Draft Part 375 RCSCOs and RISCOs are presented in Figure 15.

At AOI 29, VOCs were detected in boring 9-100-A at concentrations exceeding the USCOs for the following parameters:

- 1,2-dichloroethane;
- acetone;
- ethylbenzene;
- methylene chloride;
- total xylenes; and
- vinyl chloride.

Concentrations of VOCs, SVOCs, and metals at AOI 31 exceed the USCOs for the following parameters:

- acetone (9-102-D and 9-102-E);
- benzo(a)anthracene (9-102-C**);
- benzo(a)pyrene (9-102-C**);
- benzo(b)fluoranthene (9-102-C**);
- benzo(k)fluoranthene (9-102-C);
- chrysene (9-102-C);
- dibenzo(a,h)anthracene (9-102-C**);
- indeno(1,2,3-cd)pyrene (9-102-C*);
- lead (9-102-A); and
- zinc (9-102-A).

At AOI 32, SVOCs were detected in boring 9-108-C at concentrations exceeding the USCOs for the following parameters:

- benzo(a)anthracene;
- benzo(a)pyrene**;
- benzo(b)fluoranthene;
- chrysene; and
- indeno(1,2,3-cd)pyrene.

4.1.5 Building 10

Building 10 consists of five AOIs, two interior (36 and 37) and three exterior (33, 34, and 35). AOI 36 evaluates historic painting operations in the western portion of Building 10. The purpose of AOI 37 was to evaluate current soil conditions at the former excavation area of an indoor sump near column WK45 where napthalene and PCE were encountered. AOI 33 focuses on the former location of a 1,000-gallon gasoline UST (10-25) along the northwest exterior of Building 10. AOI 34 evaluates the historical location of a former 2,000-gallon gasoline UST (10-1) along the

southwest exterior of Building 10. AOI 35 was incorporated into the FI to evaluate soil conditions near the salvage equipment storage area near the west central portion of Building 10.

A total of eight soil borings were completed (5 exterior and 3 interior) and one surface soil sample was collected at AOI 35. Building 10 interior and exterior boring locations and concentrations exceeding the Draft Part 375 RCSCOs and RISCOs are presented in Figure 16.

The concentration of zinc in boring 10-106 of AOI 36 exceeds the USCOs. At AOI 37, concentrations of VOCs and SVOCs exceed the USCOs for the following parameters:

- acetone (10-107-A);
- methylene chloride (10-107-A and 10-107-B); and
- tetrachloroethene (10-107-A* and 10-107-B*).

Concentrations of VOCs and metals at AOI 33 exceed the USCOs for the following parameters:

- acetone (10-103-A and 10-103-B);
- benzene (10-103-B);
- methylene chloride (10-103-A and 10-103-B);
- total xylenes (10-103-A and 10-103-B); and
- zinc (10-103-B).

Due to shallow refusal, boring 10-104-A of AOI 34 was relocated and re-drilled to 9-feet bgs and renamed boring "10-104-AR."
The concentration of zinc in boring 10-104-AR exceeds the USCOs. At boring 10-105 of AOI 35, concentrations of the following metals and PCBs were detected above the USCOs:

- total cadmium*;
- total copper;
- total lead;
- total nickel;
- total zinc;
- Aroclor 1254; and
- Aroclor 1260.

4.1.6 Building 15

Building 15 consists of one exterior AOI (38). A total of two soil borings were completed during the FI. AOI 38 evaluates a former gasoline and kerosene UST location near the southwest corner of Building 15. Building 15 exterior boring locations are presented in Figure 13.

Boring 15-112-B had to be relocated and re-drilled due to shallow refusal. VOCs were detected at concentrations above the USCOs at the re-drilled location (15-112-BR) for the following parameters:

- 1,2-dichloroethane;
- methylene chloride;
- total xylenes; and
- vinyl chloride.

4.1.7 Building 18

Building 18 consists of one exterior AOI (39). A total of three soil borings were completed by ERM during the FI. AOI 39 evaluates the historical locations of both a 5,000 (18-39) and 2,000-gallon (18-40) diesel fuel UST removed in 1990. Building 18 exterior boring locations are presented in Figure 16. Concentrations were not detected above the RSCOs in Building 18.

4.1.8 Miscellaneous AOIs

Miscellaneous AOI are located throughout the Site. Since they were not associated with a building or unique area, they were compiled into one area entitled "Miscellaneous AOIs."

A total of five exterior AOIs (11, 44, 46, 47, 48, and 49) comprised the Miscellaneous AOIs. The Miscellaneous exterior AOI boring locations and concentrations exceeding the Draft Part 375 RCSCOs and RISCOs are presented in Figure 17. Miscellaneous AOI concentrations exceeding the Draft Part 375 USCOs are presented in Figure 17a.

AOI 11 evaluated the impact of historical lead concentrations from Building 7 lead air emissions to prevailing downwind locations. The focus of AOI 44 was to assess the condition of sediment in the central area of the Gulf Creek. AOI 46 assessed sediment conditions near Outfall 002.

AOI 47 evaluated the area in the immediate vicinity of Pump House #1. In the vicinity of Outfall 002, there has been a documented leak in an underground chromium pipe line and wooden block debris was encountered during an excavation in 1989. The focus of AOI 48 was to investigate the soil conditions in the vicinity of the Site's general sewers. AOI 49 evaluated the WWTP and the former acid and chromium tanks associated with the processes.

A total of 12 sediment samples and 4 soil borings were completed during the FI.

Soil samples were collected at depths of 0 to 1-foot bgs at the three locations of AOI 11. Metals were detected above USCOs in AOI 11 for the following parameters:

- total lead (7-E-1 and 7-E-2);
- total copper (7-E-2);
- total mercury (7-E-2); and
- total zinc (7-E-2).

At AOI 44, VOCs, SVOCs, metals, and PCBs were detected above USCOs in the following parameters:

- acetone (116-1 and 116-3);
- benzo(a)anthracene (116-1**, 116-3, and 116-4**);
- benzo(a)pyrene (116-1**, 116-3**, and 116-4**);
- benzo(b)fluoranthene (116-1**, 116-3, and 116-4**);
- benzo(k)fluoranthene (116-1 and 116-3);
- chrysene (116-1, 116-3, and 116-4);
- dibenzo(a,h)anthracene (116-1**, 116-3*, and 116-4**);
- indeno(1,2,3-cd)pyrene (116-1**, 116-3, and 116-4**);
- naphthalene (116-4);
- total barium (116-3*);
- total copper (116-1);
- total lead (116-1, 116-3, and 116-4);
- total zinc (116-1); and
- PCBs (116-1* and 116-4).

At AOI 46, metals were detected above USCOs in the following parameters:

- total manganese (114-1);
- total zinc (114-1); and
- total silver (114-4).

At AOI 47, VOCs, SVOCs, metals, and PCBs were detected above USCOs in the following parameters:

- acetone (113-3);
- benzo(a)anthracene (113-1** and 113-2);
- benzo(a)pyrene (113-1**);
- benzo(b)fluoranthene (113-1** and 113-2);
- benzo(k)fluoranthene (113-1);
- chrysene (113-1 and 113-2);
- dibenzo(a,h)anthracene (113-1**);
- indeno(1,2,3-cd)pyrene (113-1** and 113-2);
- total copper (113-1);
- total lead (113-1);
- total zinc (113-1); and
- PCBs (113-1).

At AOI 48, VOCs and SVOCs were detected above USCOs in the following parameters:

- acetone (GS-D and GS-F);
- acenaphthene (GS-D);
- benzo(a)pyrene (GS-D**);
- benzo(b)fluoranthene (GS-D);
- benzo(k)fluoranthene (GS-D);
- chrysene (GS-D); and
- indeno(1,2,3-cd)pyrene (GS-D).

No parameters were detected above USCOs at AOI 49.

4.2 GROUND WATER INVESTIGATION RESULTS

A summary of concentrations in ground water is presented in Table 4. Monitoring well locations and ground water results exceeding NYSDEC Ambient Water Quality Standards and Guidance Values listed in the Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS

1.1.1) are presented in Figure 7. Copies of laboratory analytical reports are included in Appendix D. The ground water investigation commenced with the sampling of four of the pre-existing "TK" and Building 6 monitoring wells at the site. Previous ground water sampling events of the TK wells were discussed in section 1.2.

Prior to sampling both sets of wells, ERM collected a round of ground water level measurements using an interface probe. ERM monitored for the initial presence of VOCs in each well casing using a calibrated PID upon removal of each well cap. The two wells from each location with the highest PID readings were sampled. If no PID reading was recorded, then the wells immediately down-gradient of the source area were sampled.

The locations of the Building 6 monitoring wells are shown on Figure 3. At building 6, MW-6-F-1 and MW-6-F-5 were inspected based on the PID readings and a sheen was observed on the surface of the water during purging of both wells. MW-6-F-6 also had a high PID reading, but was not sampled due to the presence of a 0.01-foot layer of product on the surface of the ground water. The bulleted list of results below may include results with the following notes: results noted with a "D" indicate that the compound was identified in the analysis at the second dilution factor; results noted with a "J" indicate an estimated value; and results noted with a "B" indicate the analyte was found in a sample and associated blank. Concentrations of the following VOCs exceed the TOGS 1.1.1 in MW-6-F-1:

- benzene (33 µg/L);
- ethylbenzene (1,500 D µg/L);
- isopropylbenzene (91 µg/L);
- toluene (23 µg/L); and
- total xylenes (7,400 D µg/L).

In monitoring well MW-6-F-5 at Building 6, concentrations of VOCs, SVOCs, and metals exceed the standards and guidance values listed in TOGS 1.1.1. The following VOCs in MW-6-F-5 exceed the standards and guidance values listed in TOGS 1.1.1:

- benzene (800 D µg/L);
- ethylbenzene (3,800 D µg/L);
- isopropylbenzene (130 D µg/L);
- toluene (1,200 D µg/L); and

- total xylenes (14,000 D µg/L).

The following SVOCs in MW-6-F-5 were detected above the standards and guidance values listed in TOGS 1.1.1:

- 2,4-dimethylphenol (210 D µg/L); and
- 4-methylphenol (1,300 D µg/L).

In MW-6-F-5, the following metals were detected at concentrations exceeding the standards and guidance values listed in TOGS 1.1.1:

- total arsenic (40 µg/L);
- total copper (650 µg/L);
- total iron (22,400 µg/L);
- total lead (58 µg/L);
- total manganese (570 µg/L);
- total sodium (512,000 µg/L); and
- total zinc (512,000 µg/L).

The locations of the TK monitoring wells are shown on Figure 5. In the two TK monitoring wells that were sampled (TK-4 and TK-6), total sodium at 436,000 µg/L was detected in TK-4 above the standards and guidance values listed in TOGS 1.1.1.

ERM installed five bedrock monitoring wells as part of the FI activities:

- MW-7-A-6;
- MW-7-C-2;
- MW-7-P-1;
- MW-8-03-B; and
- MW-9-101-A.

In MW-7-A-6, the following VOCs were detected at concentrations above the standards and guidance values listed in TOGS 1.1.1:

- 1,1-dichloroethene (270 J µg/L);
- cis-1,2-dichloroethene (2,600 µg/L);
- methylene chloride (300 BJ µg/L);
- tetrachloroethene (150,000 D µg/L);
- 1,1,2-trichloroethane (220 J µg/L);
- trichloroethene (38,000 D µg/L); and

- vinyl chloride (2,500 µg/L).

The SVOC analysis detected chrysene at 0.3 J µg/L in MW-7-A-6, which exceeds the standards and guidance values listed in TOGS 1.1.1.

In MW-7-C-2, total sulfate (972,000 µg/L) was detected above the standards and guidance values listed in TOGS 1.1.1. Concentrations of cis-1,2-dichloroethene (120 D µg/L), barium (14,400 µg/L), and vinyl chloride (22 µg/L) in MW-7-P-1 exceed the standards and guidance values listed in TOGS 1.1.1.

Concentrations of the following VOCs in MW-8-03-B exceed the standards and guidance values listed in TOGS 1.1.1:

- 1,1-dichloroethene (2.4 µg/L);
- cis-1,2-dichloroethene (630 D µg/L);
- tetrachloroethene (970 BD µg/L);
- trichloroethene (390 D µg/L); and
- vinyl chloride (91 µg/L).

SVOC and metal concentrations were not detected above the standards and guidance values listed in TOGS 1.1.1 in MW-8-03-B.

In MW-9-101-A, benzene (1.1 µg/L) and tetrachloroethene (1.7 µg/L) were detected at concentrations exceeding the standards and guidance values listed in TOGS 1.1.1. SVOC and metal concentrations were not detected above the standards and guidance values listed in TOGS 1.1.1 in MW-9-101-A.

5.0 SUMMARY

Fifty AOIs were investigated at the site by collecting soil sediment, and groundwater samples. Data collected were compared to screening criteria based on NYS Part 375 Soil Cleanup Objectives and NYS Water Quality Standards. Based on initial screening of the data collected during the field investigation activities, further evaluation of the following is warranted:

LNAPL

1. Building 6 current and historic USTs located along the eastern side (exterior) of the building (AOI 6);
2. Building 7 northeastern area, indoor former coal pile area (AOI 14);
3. Building 7 northwestern area, former train well and machine presses (AOI 17);
4. Building 8 historic press operations in the northeastern corner of building (AOI 23); and
5. Building 9 southwestern corner, former spill and sump location (AOIs 30, 31, 32).

Chlorinated solvents in groundwater

1. Building 7 south-central wall, acid flux room – former sumps used for liquid flux storage (AOI 15); and
2. Building 7 former tank farm area, outdoors area west of building 7, (AOI 8). Note: possible DNAPL in this area.

Chlorinated solvents in soil

1. Building 7 former tank farm area, outdoors area west of building 7 (AOI 8);
2. Building 7 former degreaser areas, northwestern area of building (AOI 12);
3. Building 8 former degreaser areas including a former degreaser with a separator pit, southeastern area of the building (AOI 22); and
4. Building 10 sump area excavation, north-central area of the building (AOI 37).

Metals in soil

1. Building 10 south dock, former underground storage areas (AOI 34);
2. Building 10 western-central wall, historic interior painting operations (AOI 36);
3. Building 6 brine vault, northwestern exterior area of the building (AOI 1);
4. Building 10 western-central exterior equipment storage area (AOI 35);
5. Building 9 southwestern (former USTs) and southeastern corners (former spill and existing sump of the building);
6. Building 7 northeastern area interior and exterior of the building, historical coal pile storage area (AOI 10);
7. Building 8 former degreaser areas including a former degreaser with a separator pit, southeastern area of the building (AOI 22);
8. Building 8 northwest corner, former chrome sump (AOI 18);
9. Sediment along the Gulf, between Roads 2 and 3, former spills and recent observations of stains and oil sheens (AOI 44, 46); and
10. Eastern lawn area, northeast of Building 7 and south of Road 2, former lead air emissions from Building 7 (AOI 11).

PAHs in soil

1. Building 10 south dock, former underground storage areas (AOI 34);
2. Building 6 brine vault, northwestern exterior area of the building (AOI 1);
3. Sediment along the Gulf, between Roads 2 and 3, former spills and recent observations of stains and oil sheens (AOI 44, 46);
4. Building 7 northeastern area interior and exterior of the building, historical coal pile storage area (AOI 10); and
5. Building 8 former degreaser areas including a former degreaser with a separator pit, southeastern area of the building (AOI 22).

6.0 REFERENCES CITED

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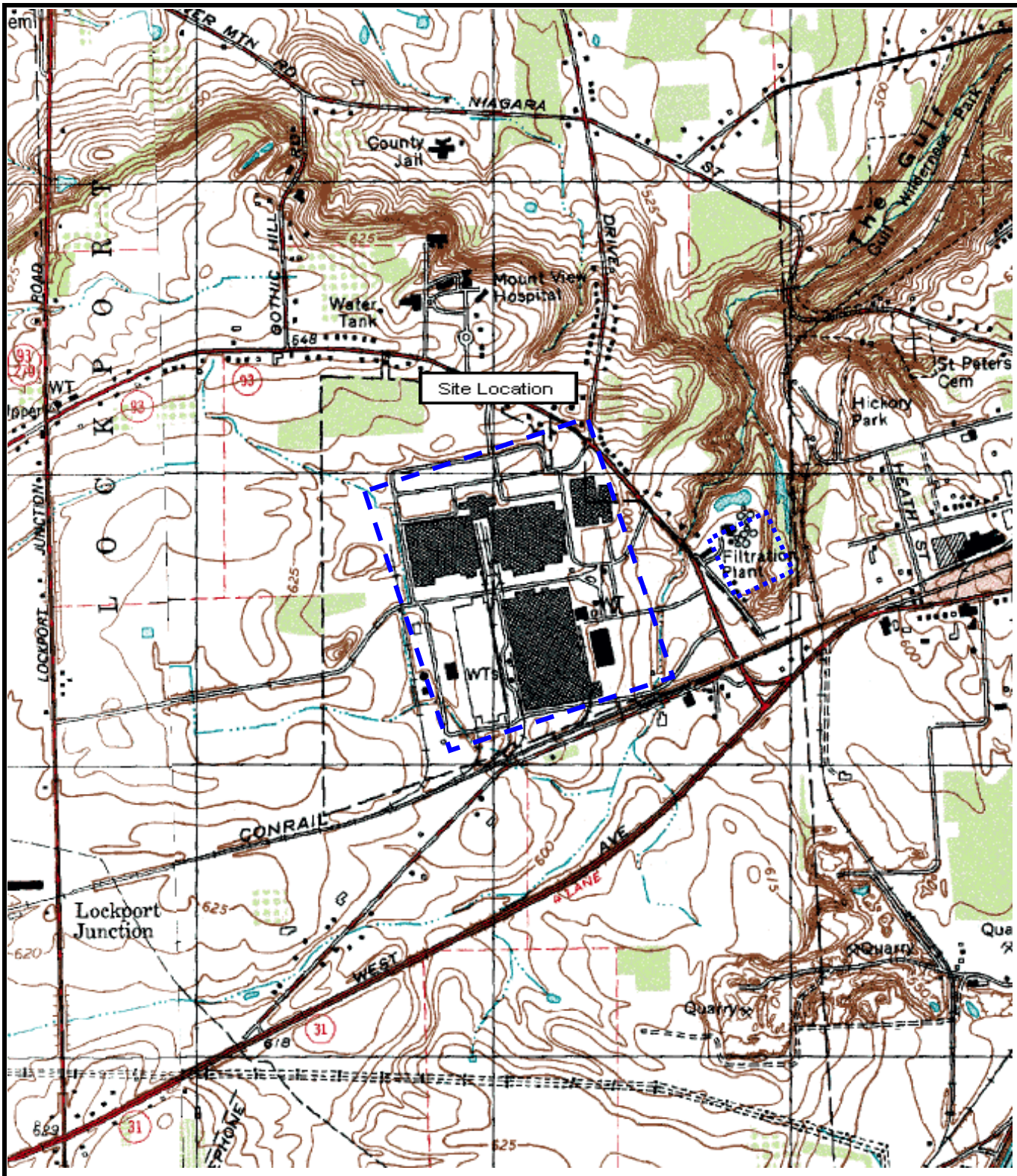
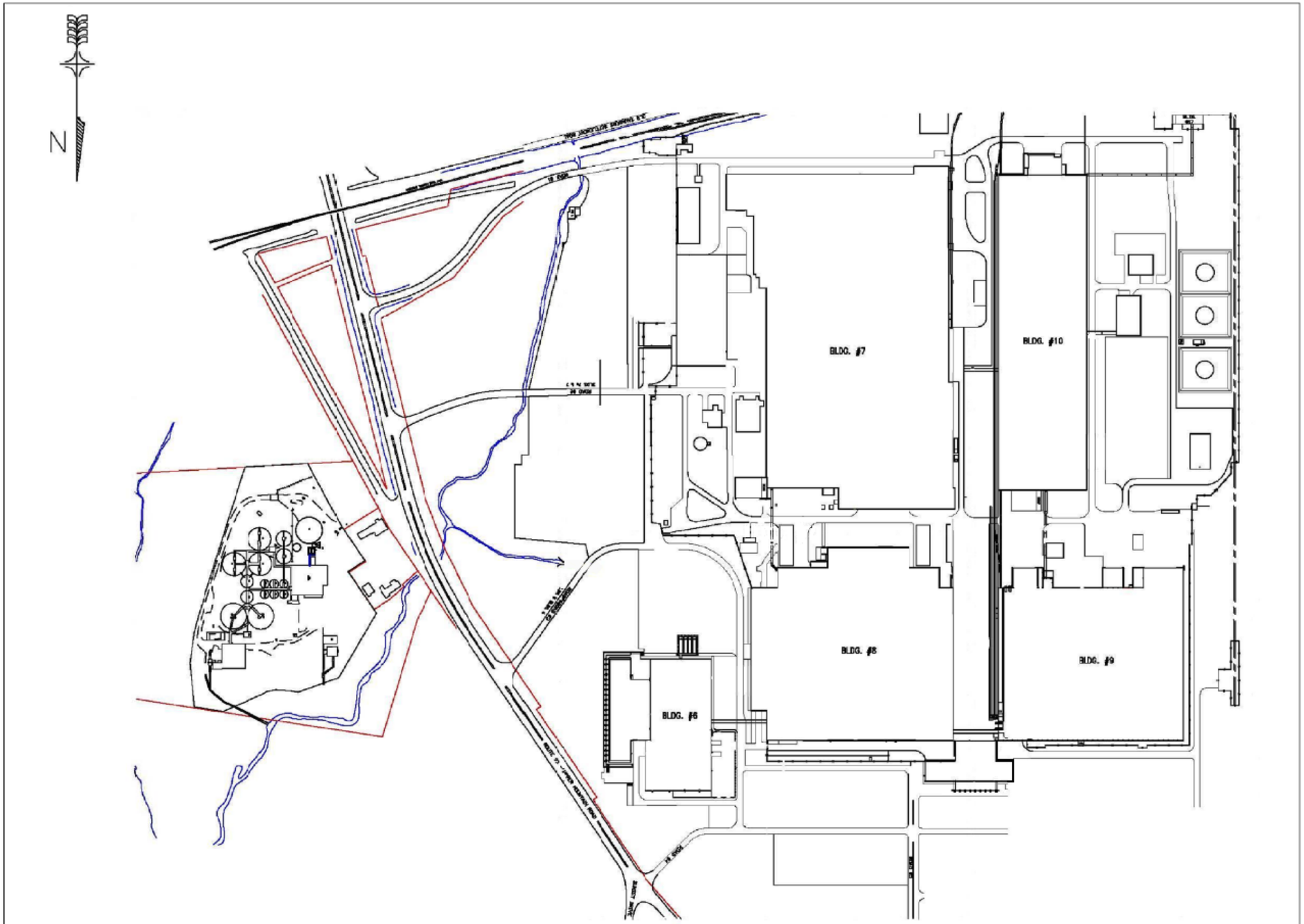
Figures



ERM 5788 Widewaters Parkway,Dewitt, NY 13214	**Site Location Map** **200 Upper Mountain Road** **Lockport, New York**	**Figure** **1**



NOTES:
FIGURE MODIFIED WITH PERMISSION FROM BASE MAP PROVIDED BY DELPHI THERMAL

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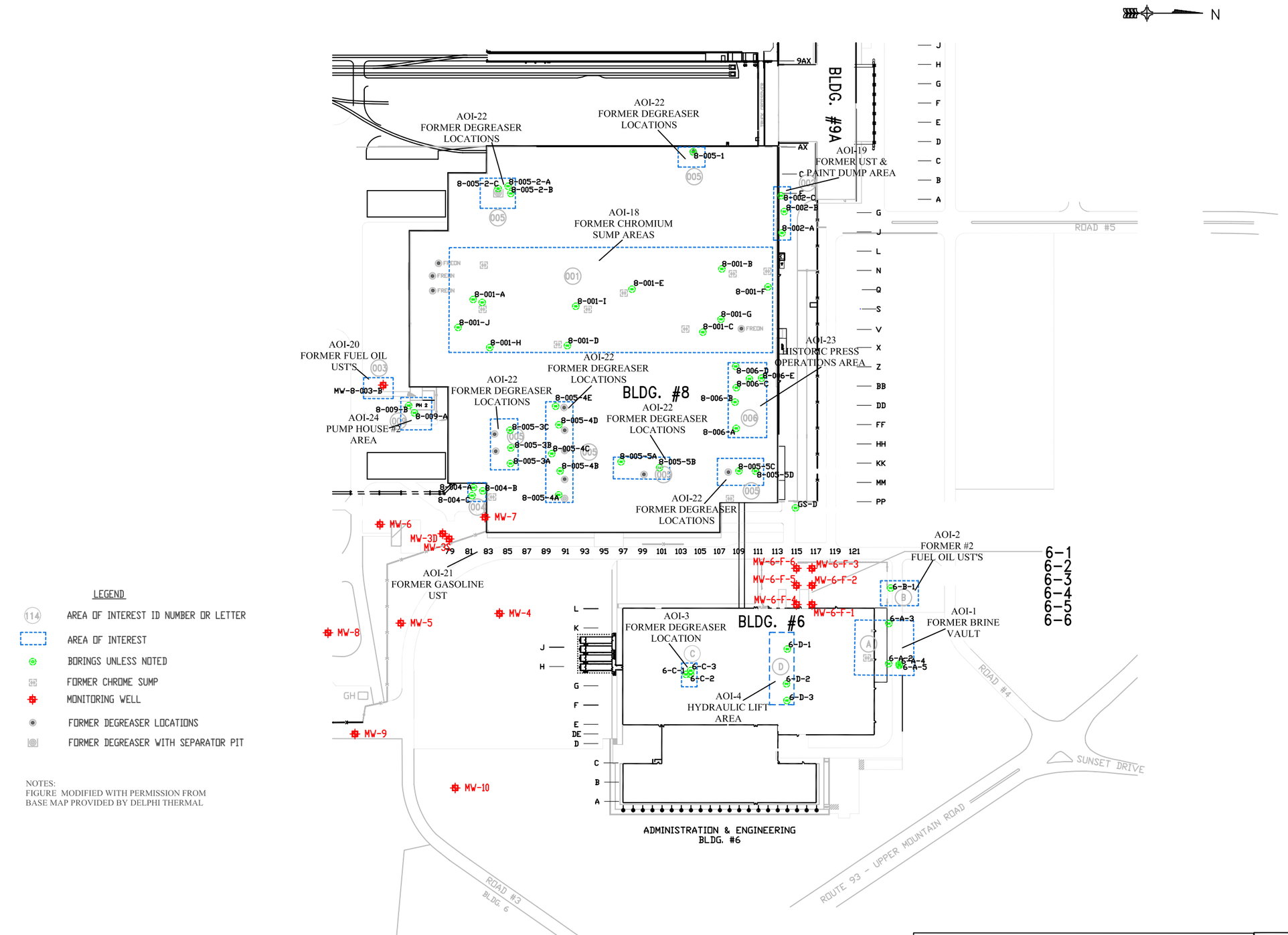
THERMAL AND INTERIOR SYSTEMS

FIGURE 2 - 2006 FIELD INVESTIGATION
LOCKPORT, NY
GENERAL SITE LAYOUT
DELPHI FACILITY

ERM



LEGEND

- (114) AREA OF INTEREST ID NUMBER OR LETTER
- AREA OF INTEREST
- BORINGS UNLESS NOTED
- FORMER CHROME SUMP
- MONITORING WELL
- FORMER DEGREASER LOCATIONS
- FORMER DEGREASER WITH SEPARATOR PIT

NOTES:
FIGURE MODIFIED WITH PERMISSION FROM
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THERMAL AND INTERIOR SYSTEMS

FIGURE 3 - 2006 FIELD INVESTIGATION
LOCKPORT, NY
BORING LOCATIONS
BUILDINGS 6 & 8

ERM

N

AOI-8
FORMER TANK
FARM AREA

AOI-12
FORMER DEGREASER
LOCATIONS

AOI-17
HISTORICAL TRAIN AND
TRUCK DOCK

AOI-15
ACID FLUX ROOM

AOI-9
FORMER HEX CHROME
OPERATIONS

BLDG. #7

AOI-14
USED OIL
CONTAINMENT AREA

AOI-16
HISTORICAL
PCB AREA

AOI-38
FORMER GASOLINE
& KEROSENE UST'S

AOI-10
HISTORICAL
COAL PILE
AREAS

BLDG. #12

GARAGE
BLDG.
#15

NEW YORK CENTRAL RAILROAD

OLD SAUNDERS SETTLEMENT ROAD

ROAD #1
EXIT ONLY

NO PEDESTRIANS

PEDESTRIAN TUNNEL

EXECUTIVE PARKING GARAGE

FIRE HOUSE

DOCK

PH 1

LEGEND

(114) AREA OF INTEREST ID NUMBER OR LETTER

AREA OF INTEREST

BORINGS UNLESS NOTED

FORMER DEGREASER LOCATIONS

FORMER DEGREASER WITH SEPARATOR PIT

MONITORING WELL

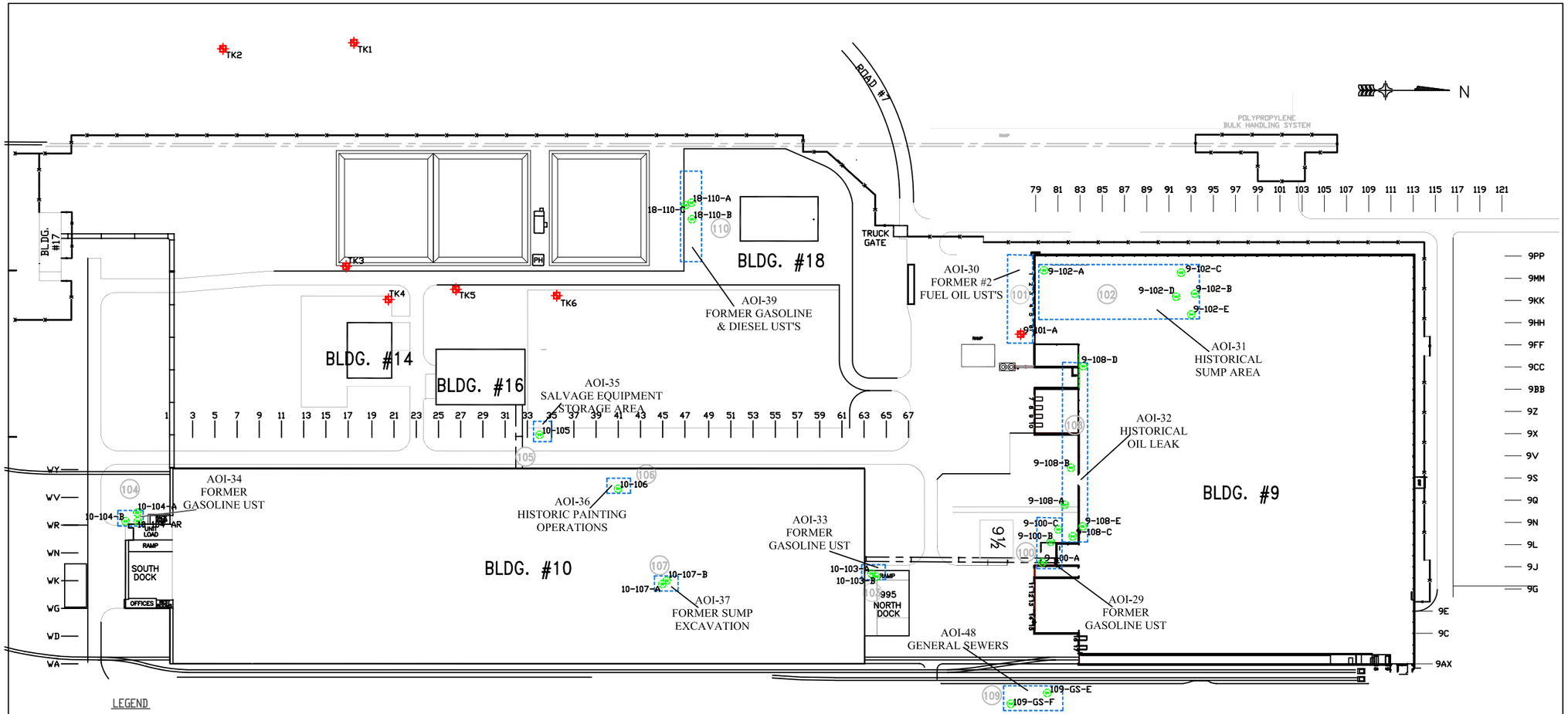
0 100 200 300
APPROXIMATE SCALE IN FEET

DELPHI
THERMAL AND INTERIOR SYSTEMS

NOTES:
FIGURE MODIFIED WITH PERMISSION FROM
BASE MAP PROVIDED BY DELPHI THERMAL

FIGURE 4 - 2006 FIELD INVESTIGATION
LOCKPORT, NY
BORING LOCATIONS
BUILDING 7 & WEST COURTYARD

ERM®



LEGEND

(114) AREA OF INTEREST ID NUMBER OR LETTER

AREA OF INTEREST

BORINGS UNLESS NOTED

MONITORING WELL

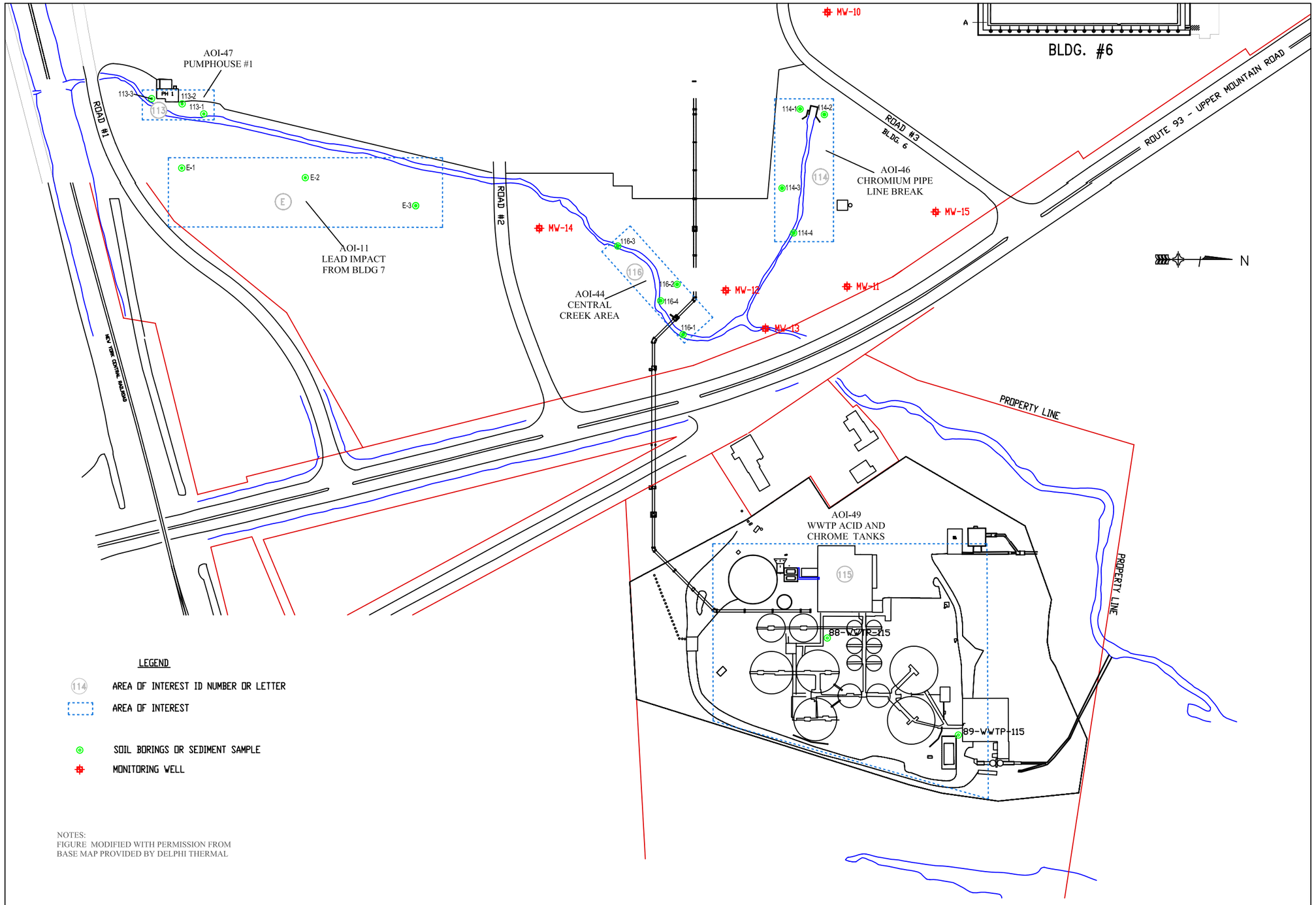
NOTES:
-TK WELLS ARE AT APPROXIMATED LOCATIONS
-FIGURE MODIFIED WITH PERMISSION FROM BASE MAP PROVIDED BY DELPHI THERMAL

DELPHI
THERMAL AND INTERIOR SYSTEMS

0 100 200 300
APPROXIMATE SCALE IN FEET

FIGURE 5 - 2006 FIELD INVESTIGATION LOCKPORT, NY BORING LOCATIONS BUILDINGS 9 & 10

ERM®


MW-10
BLDG. #6
AOI-47
PUMPHOUSE #1
PH 1
113-3
113-2
113-1
113
ROAD #1
NEW YORK CENTRAL RAILROAD
E-1
E-2
E-3
E
AOI-11
LEAD IMPACT
FROM BLDG 7
ROAD #2
MW-14
116-3
116
116-2
116-4
116-1
AOI-44
CENTRAL
CREEK AREA
MW-12
MW-13
MW-11
114-1
114-2
114
114-3
114-4
ROAD #3
BLDG. 6
AOI-46
CHROMIUM PIPE
LINE BREAK
MW-15
ROUTE 93 - UPPER MOUNTAIN ROAD
N
PROPERTY LINE
AOI-49
WWTP ACID AND
CHROME TANKS
115
88-WWTP-115
89-WWTP-115
PROPERTY LINE
LEGEND
114
AREA OF INTEREST ID NUMBER OR LETTER
AREA OF INTEREST
SOIL BORINGS OR SEDIMENT SAMPLE
MONITORING WELL
NOTES:
FIGURE MODIFIED WITH PERMISSION FROM
BASE MAP PROVIDED BY DELPHI THERMAL
DELPHI
THERMAL AND INTERIOR SYSTEMS
0
100
200
300
APPROXIMATE SCALE IN FEET
FIGURE 6 - 2006 FIELD INVESTIGATION
LOCKPORT, NY
BORING LOCATIONS
CREEK AND WWTP AREAS
ERM

Sample ID	MW-6-F-1
VOCs (µg/L)	
Benzene	33
Ethylbenzene	1500 D
Isopropylbenzene	91
Toluene	23
Total Xylenes	7400 D

Sample ID	MW-6-F-5
VOCs (µg/L)	
Benzene	800 D
Ethylbenzene	3800 D
Isopropylbenzene	130 D
Toluene	1200 D
Total Xylenes	14000 D
SVOCs (µg/L)	
2,4-Dimethylphenol	210 D
Napthalene	1300 D
Metals (µg/L)	
Total Arsenic	40
Total Copper	650
Total Iron	22,400
Total Lead	58
Total Manganese	570
Total Sodium	512,000

Sample ID	MW-9-101-A
VOCs (µg/L)	
Benzene	1.1
Tetrachloroethene	1.7

Sample ID	MW-8-03-B
VOCs (µg/L)	
1,1-Dichloroethene	2.4
Cis-1,2-Dichloroethene	630 D
Tetrachloroethene	970 BD
Trichloroethene	390 D
Vinyl Chloride	91

Sample ID	MW-7-C-2
Other Analyses (µg/L)	
Sulfate	972,000

Sample ID	MW-7-A-6
VOCs (µg/L)	
1,1-Dichloroethene	270 J
Cis-1,2-Dichloroethene	2,600
Methylene Chloride	300 BJ
Tetrachloroethene	150000 D
1,1,2-Trichloroethane	220 J
Trichloroethene	38000 D
Vinyl Chloride	2,500
SVOCs (µg/L)	
Chrysene	0.3 J

Sample ID	TK-4
Metals (µg/L)	
Total Sodium	436,000

Sample ID	MW-7-P-1
VOCs (µg/L)	
Cis-1,2-Dichloroethene	120 D
Barium	14400
Vinyl Chloride	22

BLDG. 9
BLDG. 8
BLDG. 7
BLDG. 10
9A
6
18
16
14
12
15
7A
13
N

LEGEND
7-G-1-C SOIL BORINGS
MW-7-C-2 MONITORING WELLS

NOTES:
CONCENTRATIONS EXCEEDING NYSDEC AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES - TOGS 1.1.1 ARE SHOWN.
VOCS -VOLATILE ORGANIC COMPOUNDS DETERMINED BY USEPA METHOD 8260
SVOCS- SEMIVOLATILE ORGANIC COMPOUNDS DETERMINED BY USEPA METHOD 8270
NA - NOT ANALYZED
NS - NO STANDARD OR GUIDANCE VALUE GIVEN IN TOGS 1.1.1
ND - NOT DETECTED
B - ANALYTE FOUND IN SAMPLE AND ASSOCIATED BLANK
D - COMPOUND IDENTIFIED IN AN ANALYSIS AT THE SECONDARY DILUTION FACTOR.
J - ESTIMATED VALUE.
---- - BELOW THE REPORTABLE LIMIT
----* - REPORTABLE LIMIT IS ABOVE THE TOGS 1.1.1 STANDARD
µG/L - MICROGRAMS PER LITER

FIGURE MODIFIED WITH PERMISSION FROM BASE MAP PROVIDED BY DELPHI THERMAL

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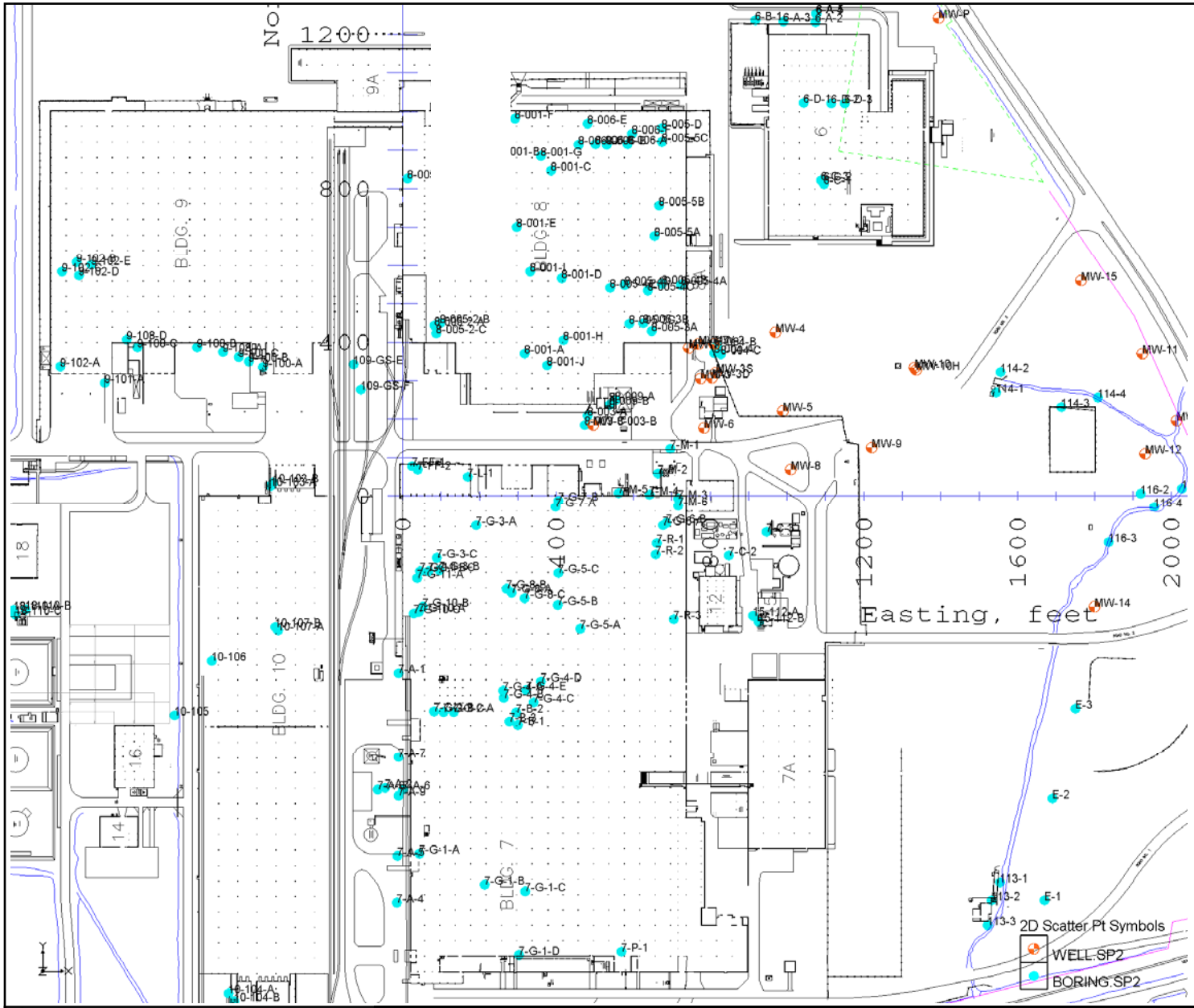
FIGURE 7 - 2006 FIELD INVESTIGATION
LOCKPORT, NY
GW ANALYTICALS
ENTIRE DELPHI PROPERTY

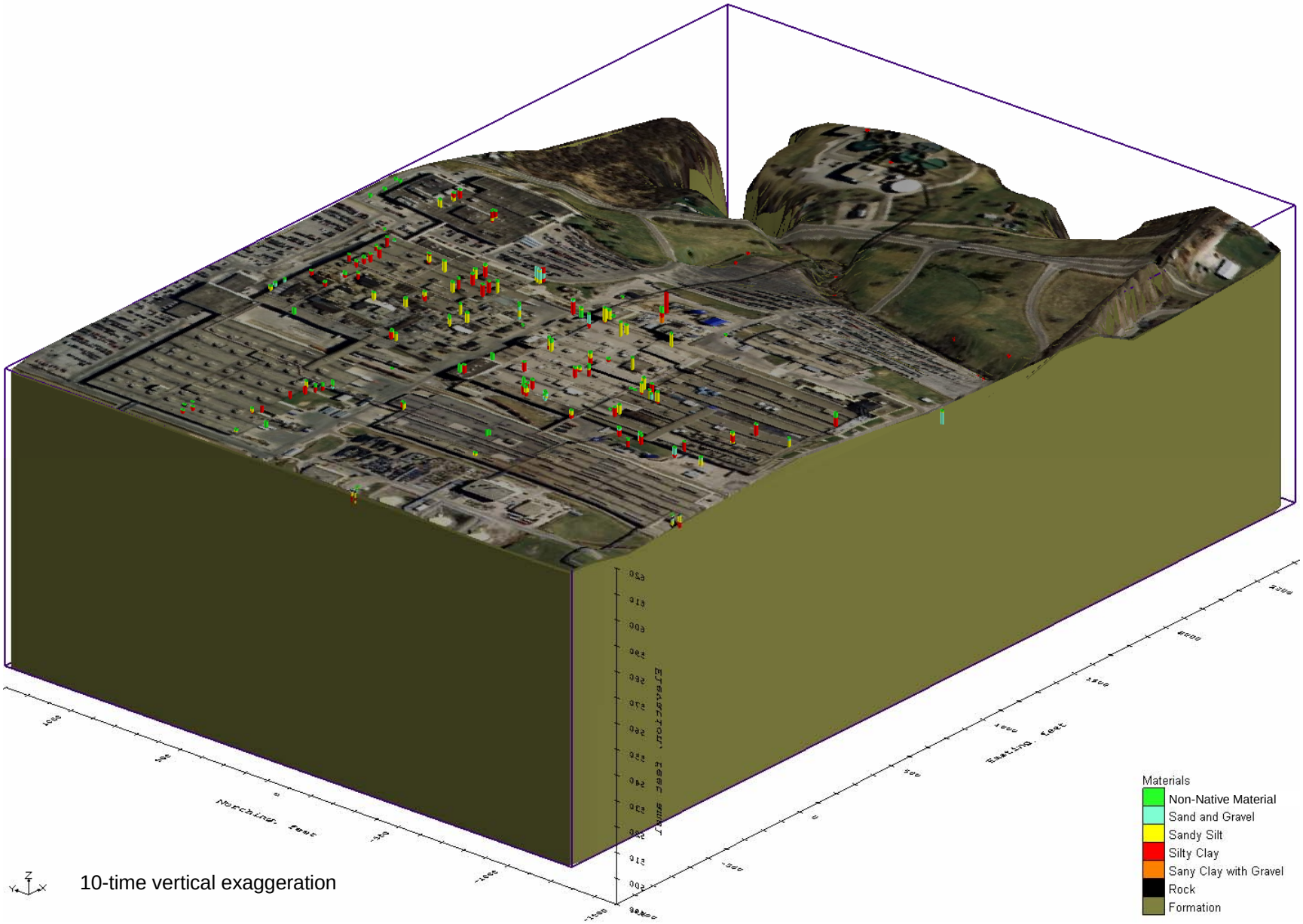
ERM



ERM, Inc.
5788 Widewaters Parkway
Dewitt, NY 13214
(315) 445-2554

Site Map, Soil Boring, and Well Locations
Delphi Thermal and Interior System, Inc.
Lockport, New York

Figure 8a



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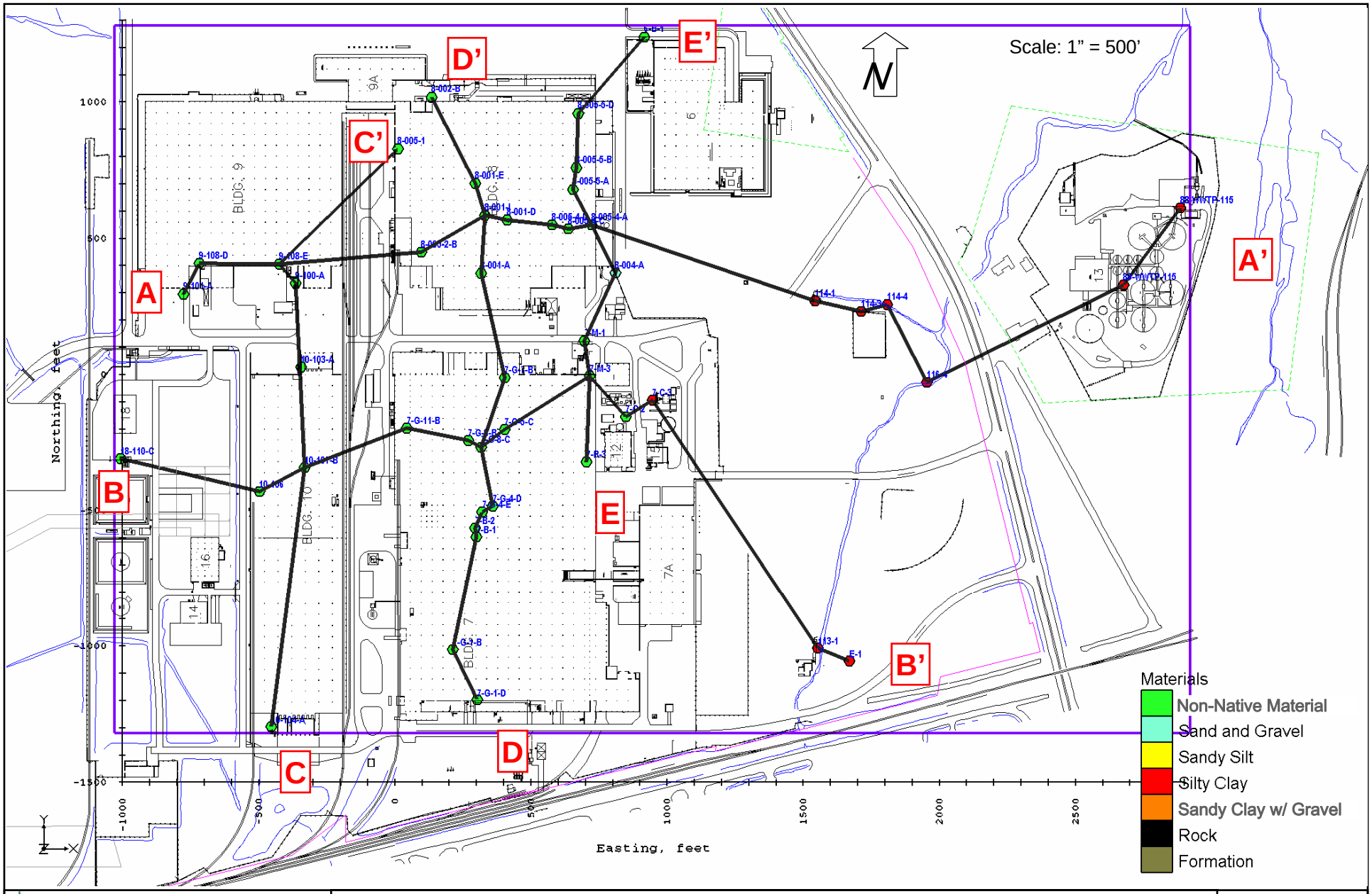
Dewitt, NY 13214
(315) 445-2554

3-D Display of Site Topography and Soil Boring Locations
Delphi Thermal and Interior System, Inc.
Lockport, New York

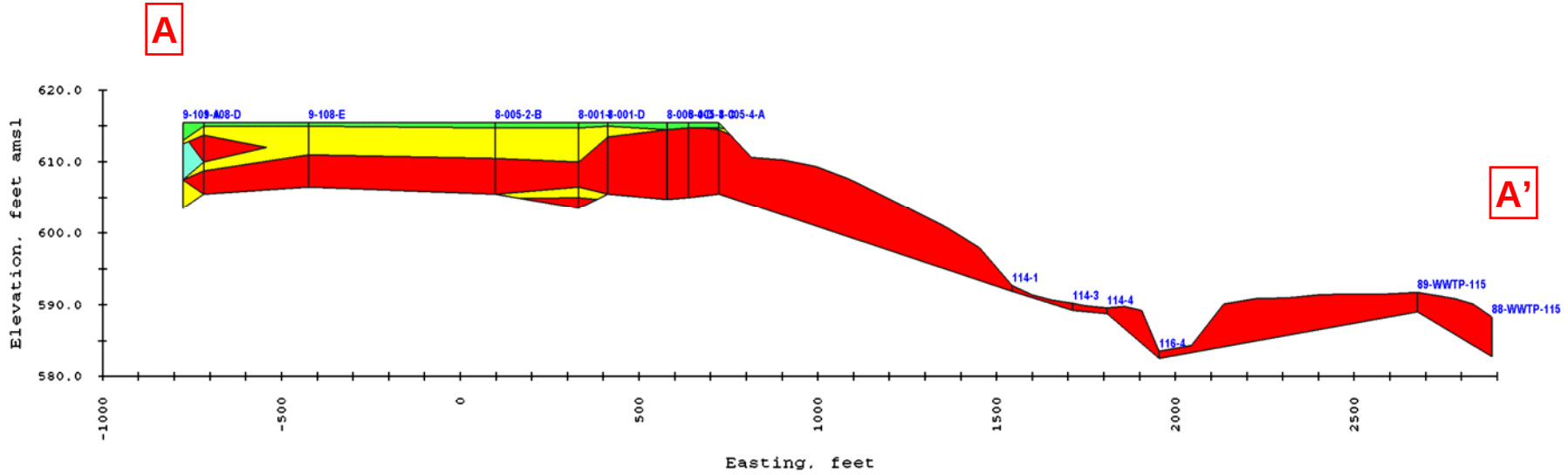
Figure 8b



ERM, Inc.
5788 Widewaters Parkway
Dewitt, NY 13214
(315) 445-2554

Geologic Cross-Section Locations
Delphi Thermal and Interior System, Inc.
Lockport, New York

Figure 8c



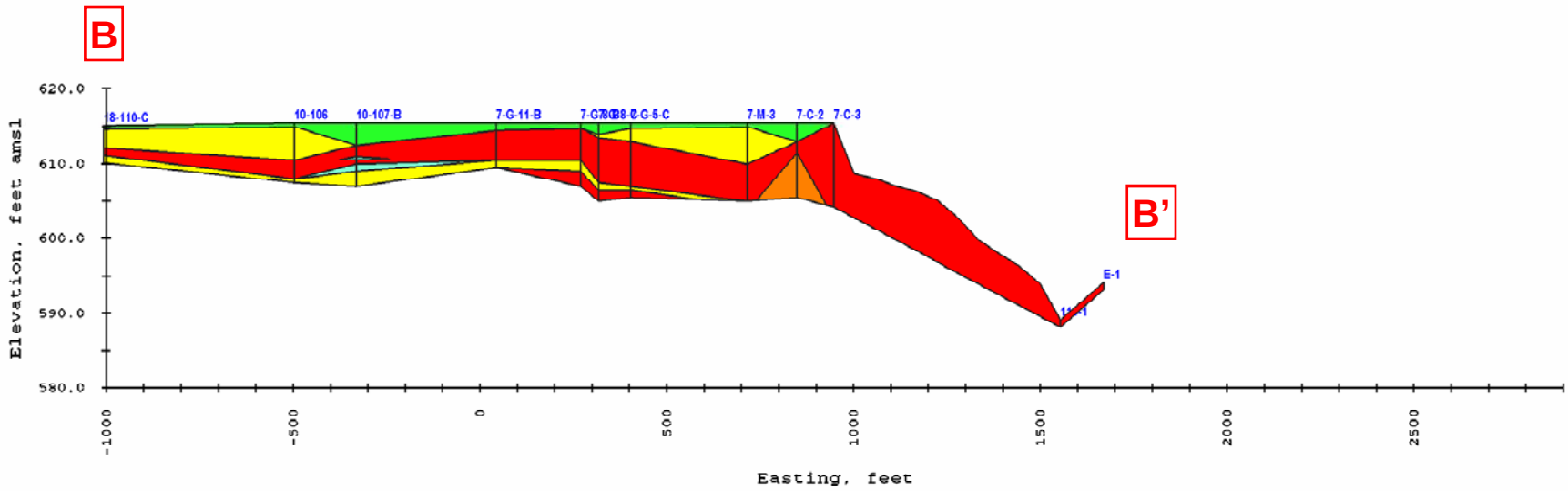
Materials
- Non-Native Material
- Sand and Gravel
- Sandy Silt
- Silty Clay
- Sandy Clay with Gravel
- Rock
- Formation

20-time vertical exaggeration

ERM, Inc.
5788 Widewaters Parkway
Dewitt, NY 13214
(315) 445-2554

Cross-Section A-A'
Delphi Thermal and Interior System, Inc.
Lockport, New York

Figure 8d



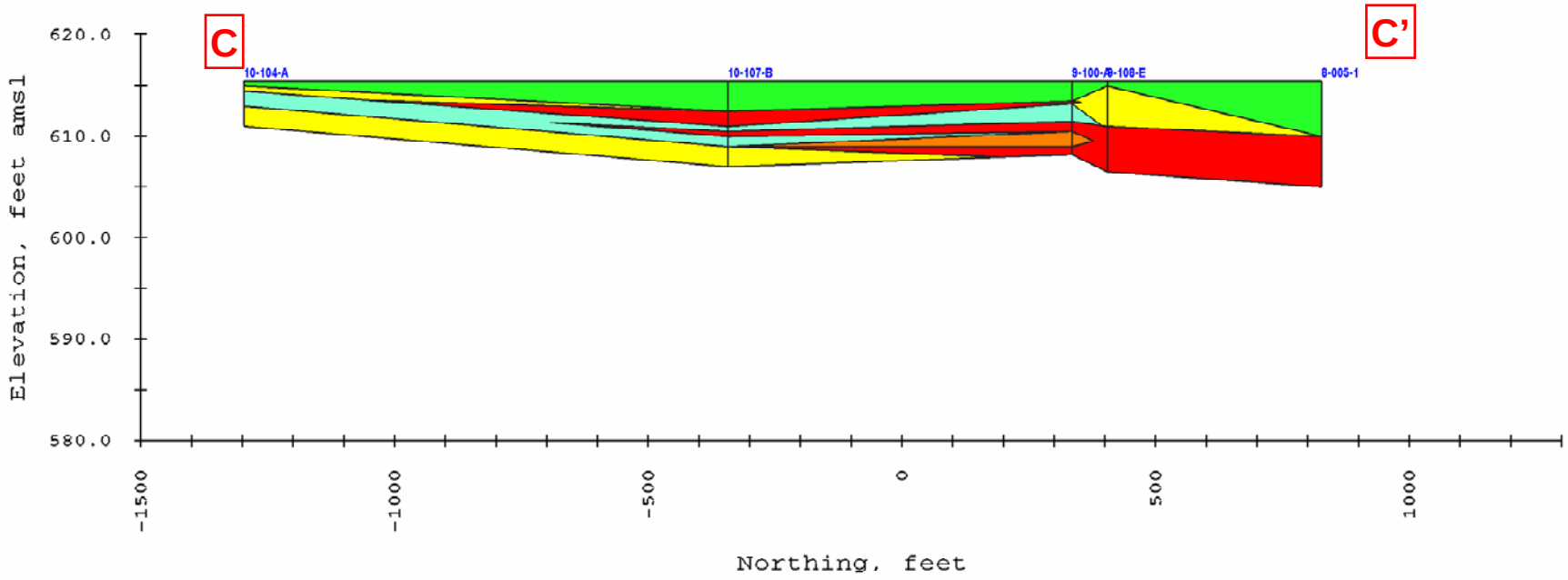
Materials
- Non-Native Material
- Sand and Gravel
- Sandy Silt
- Silty Clay
- Sany Clay with Gravel
- Rock
- Formation

20-time vertical exaggeration

ERM, Inc.
5788 Widewaters Parkway
Dewitt, NY 13214
(315) 445-2554

Cross-Section B-B'
Delphi Thermal and Interior System, Inc.
Lockport, New York

Figure 8e



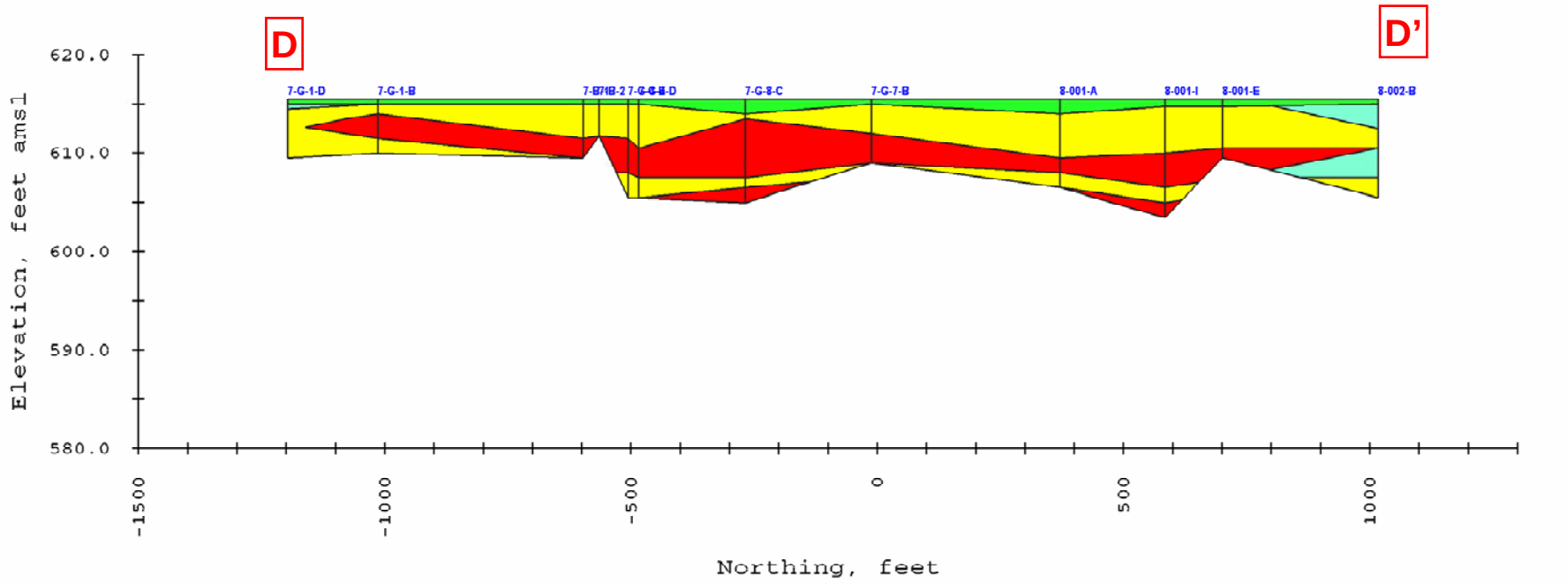
Materials
- Non-Native Material
- Sand and Gravel
- Sandy Silt
- Silty Clay
- Sany Clay with Gravel
- Rock
- Formation

20-time vertical exaggeration

ERM, Inc.
5788 Widewaters Parkway
Dewitt, NY 13214
(315) 445-2554

Cross-Section C-C'
Delphi Thermal and Interior System, Inc.
Lockport, New York

Figure 8f



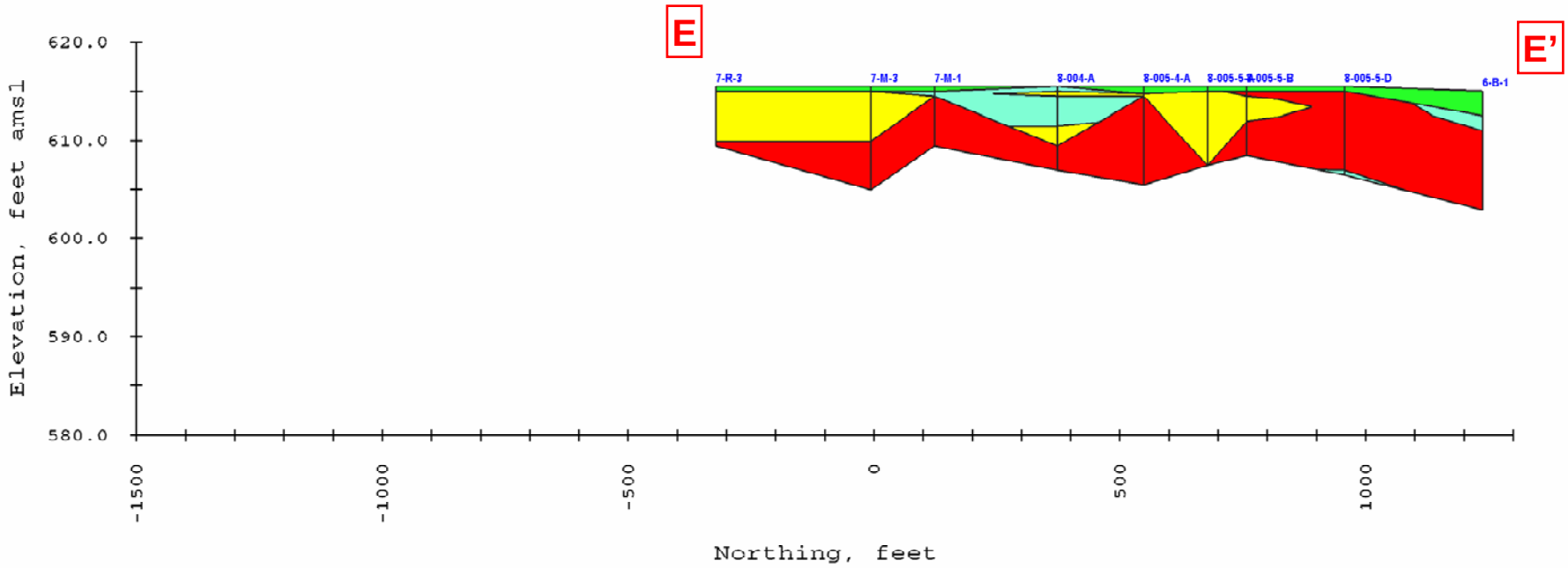
Materials
- Non-Native Material
- Sand and Gravel
- Sandy Silt
- Silty Clay
- Sany Clay with Gravel
- Rock
- Formation

20-time vertical exaggeration

ERM, Inc.
5788 Widewaters Parkway
Dewitt, NY 13214
(315) 445-2554

Cross-Section D-D'
Delphi Thermal and Interior System, Inc.
Lockport, New York

Figure 8g



Materials
- Non-Native Material
- Sand and Gravel
- Sandy Silt
- Silty Clay
- Sany Clay with Gravel
- Rock
- Formation

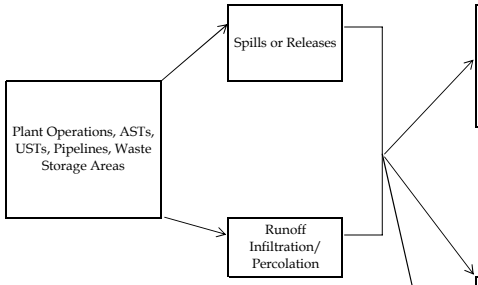
20-time vertical exaggeration

ERM, Inc.
5788 Widewaters Parkway
Dewitt, NY 13214
(315) 445-2554

Cross-Section E-E'
Delphi Thermal and Interior System, Inc.
Lockport, New York

Figure 8h

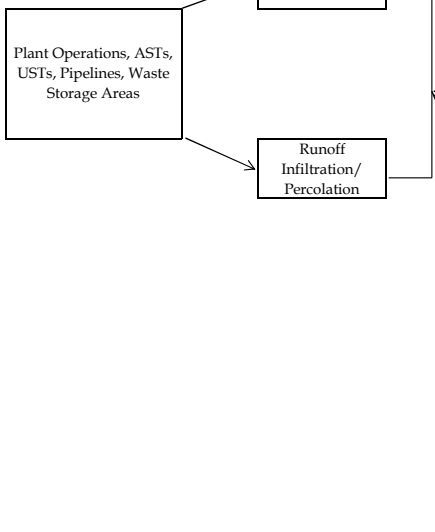
Figure 9: Human Health Conceptual Site Model



Primary Sources	Release Mechanism	Exposure Medium	Exposure Route	Potential Human Receptors					
				Onsite Industrial Worker	Onsite Construction Worker	Facility Visitor	Adolescent Trespasser	Hypothetical Onsite Resident	Hypothetical Offsite Resident
Plant Operations, ASTs, USTs, Pipelines, Waste Storage Areas	Spills or Releases, Runoff Infiltration/ Percolation	Soil (Surface and Subsurface)	Inhalation - Vapor Intrusion into Indoor or Outdoor Air and/or Wind-Blown Particulates	X	X	--	--	X	
			Dermal Contact & Absorption	X	X	X	X	X	
			Incidental Ingestion	X	X	X	X	X	
			Terrestrial Food Chain - Consumption of Game						
		Surface Water/ Sediment	Inhalation - Volatiles in Surface Water or Particulates in Dry Sediment				--	--	--
			Dermal Contact & Absorption - Wading				--	--	--
			Incidental Ingestion - Wading				--	--	--
			Aquatic Food Chain - Fish Consumption						--
		Ground Water	Inhalation - Volatiles in Shower/Bath						
			Inhalation - Vapor Intrusion into Indoor or Outdoor Air	X	X	--	--	X	
			Dermal Contact & Absorption						
			Ingestion - Drinking Water						

X	Denotes Potentially Complete Exposure Pathway
--	Denotes Potentially Complete, But Expected to be a Less Significant Exposure Pathway
	Denotes Incomplete Exposure Pathway

Figure 10: Ecological Conceptual Site Model



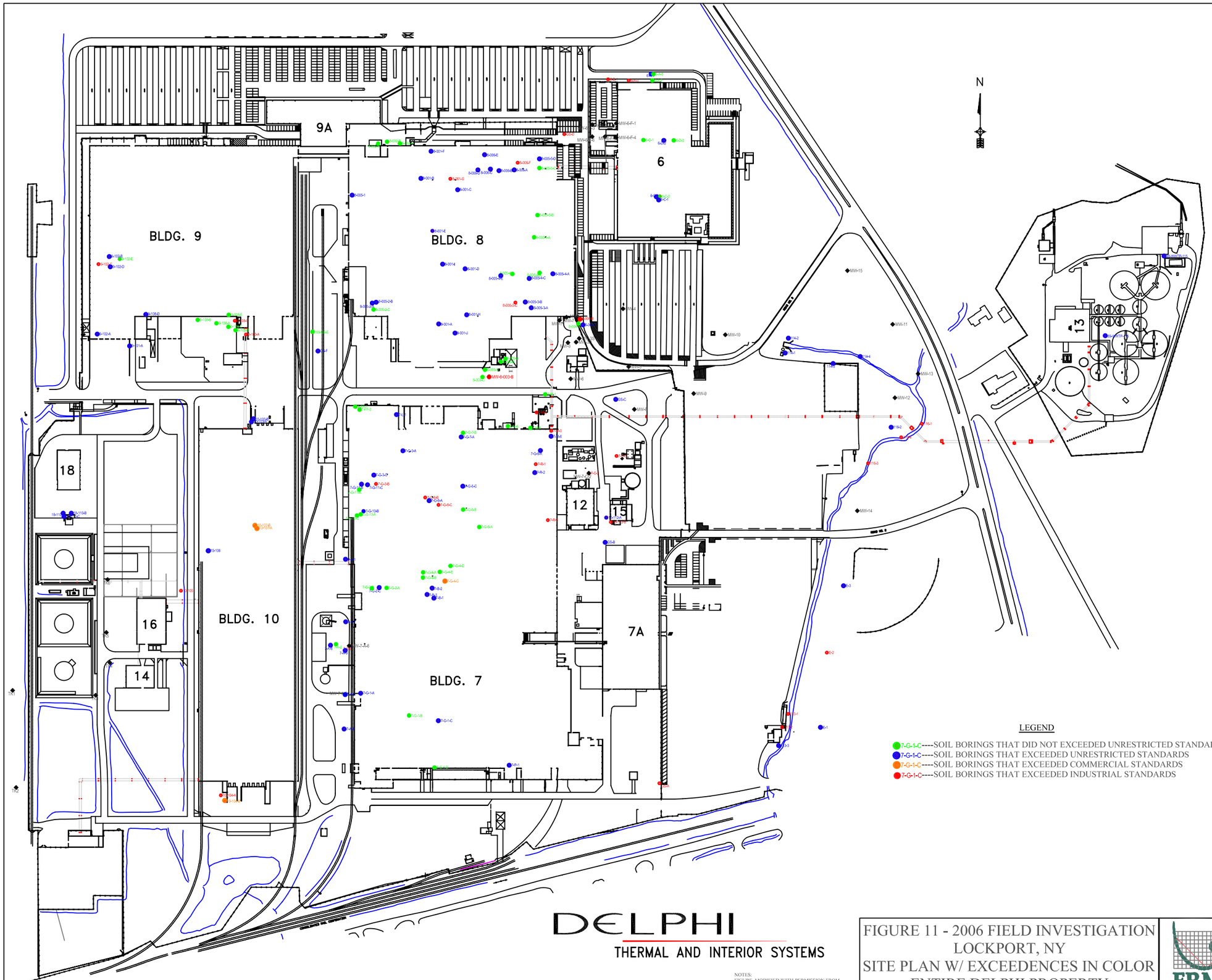
Exposure Medium	Exposure Route	Plants	Invertebrates	Birds	Mammals	Amphibians & Reptiles
Terrestrial	Inhalation (vapors within burrows)		--	--	X**	--
	Direct Contact & Absorption	X	X	--	X	X
	Incidental Ingestion		--	X	X	X
	Terrestrial Food Chain			X	X	X

Exposure Medium	Exposure Route	Plants	Invertebrates	Birds	Mammals	Amphibians, Reptiles & Fish
Aquatic	Direct Contact & Absorption	X	X	--	--	X
	Ingestion of Drinking Water / Incidental Ingestion of Sediment		--	X	X	X
	Aquatic Food Chain		--	X	X	X

X	Denotes Potentially Complete Exposure Pathway
--	Denotes Potentially Complete, But Expected to be a Less Significant Exposure Pathway
	Denotes Incomplete Exposure Pathway

* Ground Water is an Exposure Medium of Concern to Ecological Receptors Only If Discharge to a Surface Water Feature (Wetland or Open Water) May Occur

** Source of vapors within burrows attributable to soil or ground water



DELPHI

THERMAL AND INTERIOR SYSTEMS

NOTES:
FIGURE MODIFIED WITH PERMISSION FROM BASE MAP PROVIDED BY DELPHI THERMAL

FIGURE 11 - 2006 FIELD INVESTIGATION
LOCKPORT, NY
SITE PLAN W/ EXCEEDENCES IN COLOR
ENTIRE DELPHI PROPERTY

ERM®

N

Sample ID	Parameter	Result	Unrestricted Standard
VOCs			
6-C-1 (0-2)	1,2-Dichloroethane	0.027 U	0.02
6-C-1(0-2)	Acetone	0.059 J	0.05
6-C-1 (0-2)	Benzene	0.14 U	0.06
6-C-1 (0-2)	Methylene chloride	0.15 D	0.05
6-C-1 (0-2)	Tetrachloroethene	2.1 D	1.3
6-C-1 (0-2)	Vinyl chloride	0.054 U	0.02
6-C-1 (2-3.5)	1,2-Dichloroethane	0.027 U	0.02
6-C-1 (2-3.5)	Vinyl chloride	0.055 U	0.02
6-C-1 (2-3.5)	Methylene chloride	0.056 D	0.05
Metals			
6-C-1 (0-2)	Hexavalent Chromium - Total	1.8 U	1
6-C-1 (2-3.5)	Hexavalent Chromium - Total	1.6 U	1

Sample ID	Parameter	Result	Unrestricted Standard
VOCs			
6-A-3 (4-6)	1,2-Dichlorobenzene	3.6 U	1.1
6-A-3 (4-6)	1,3-Dichlorobenzene	3.6 U	2.4
6-A-3 (4-6)	1,4-Dichlorobenzene	3.6 U	1.8
6-A-3 (4-6)	Acetone	0.056 J	0.05
6-A-3 (4-6)	Hexachlorobenzene	3.6 U	0.33
6-A-3 (4-6)	Methylene chloride	0.053	0.05
SVOCs			
6-A-3 (4-6)	Benzo(k)fluoranthene	3.6 U	0.8
6-A-3 (4-6)	Dibenzo(a,h)anthracene	3.6 U	0.33
6-A-3 (4-6)	Pentachlorophenol	17 U	0.8
6-A-3 (4-6)	Phenol	3.6 U	0.33
6-A-3 (4-6)	Manganese	1680	1600

Sample ID	Parameter	Result	Unrestricted Standard
VOCs			
6-B-1 (4-6)	Acetone	0.11	0.05
6-B-1 (8-10)	1,2-Dichlorobenzene	7 U	1.1
6-B-1 (8-10)	1,3-Dichlorobenzene	7 U	2.4
6-B-1 (8-10)	1,4-Dichlorobenzene	7 U	1.8
6-B-1 (8-10)	Acetone	0.07	0.05
6-B-1 (8-10)	Hexachlorobenzene	7 U	0.33
SVOCs			
6-B-1 (4-6)	Benzo(a)anthracene	1.9 U	1
6-B-1 (4-6)	Benzo(a)pyrene	1.9 U	1
6-B-1 (4-6)	Benzo(b)fluoranthene	1.9 U	1
6-B-1 (4-6)	Benzo(k)fluoranthene	1.9 U	0.8
6-B-1 (4-6)	Chrysene	1.9 U	1
6-B-1 (4-6)	Dibenzo(a,h)anthracene	1.9 U	0.33
6-B-1 (4-6)	Indeno(1,2,3-cd)pyrene	1.9 U	0.5
6-B-1 (8-10)	Benzo(b)fluoranthene	1.4 J	1
6-B-1 (8-10)	Dibenzo(a,h)anthracene	7 U	0.33
6-B-1 (8-10)	Indeno(1,2,3-cd)pyrene	0.92 J	0.5
6-B-1 (8-10)	Pentachlorophenol	34 U	0.8
6-B-1 (8-10)	Phenol	7 U	0.33
Metals			
6-B-1 (8-10)	Cadmium - Total	39.1	2.5
6-B-1 (8-10)	Zinc - Total	9240	109

Sample ID	Parameter	Result	Unrestricted Standard
Metals			
6-A-4 (4-6)	Selenium - Total	5 U	3.9
6-A-4 (6-8)	Selenium - Total	5.5 U	3.9

Sample ID	Parameter	Result	Unrestricted Standard
VOCs			
6-C-2 (0-2.5)	1,2-Dichloroethane	0.028 U	0.02
6-C-2 (0-2.5)	Acetone	1.7 D	0.05
6-C-2 (0-2.5)	Benzene	0.14 U	0.06
6-C-2 (0-2.5)	Methylene chloride	0.14 D	0.05
6-C-2 (0-2.5)	Tetrachloroethene	8.1 D	1.3
6-C-2 (0-2.5)	Vinyl chloride	0.28 U	0.02
SVOCs			
6-C-2 (0-2.5)	Pentachlorophenol	1.8 U	0.8
Metals			
6-C-2 (0-2.5)	Hexavalent Chromium - Total	1.8 U	1

Sample ID	Parameter	Result	Unrestricted Standard
VOCs			
6-C-3 (0-2)	1,2-Dichloroethane	0.025 U	0.02
6-C-3 (0-2)	Benzene	0.15 U	0.06
6-C-3 (0-2)	Tetrachloroethene	1.9 D	1.3
6-C-3 (0-2)	Vinyl chloride	0.051 U	0.02
Metals			
6-C-3 (0-2)	Hexavalent Chromium - Total	1.8 U	1
6-C-3 (2-4)	Hexavalent Chromium - Total	1.6 U	1

Sample ID	Parameter	Result	Unrestricted Standard
Metals			
6-D-2 (4-6)	Hexavalent Chromium - Total	1.6 U	1
SVOCs			
6-D-2 (4-6)	Pentachlorophenol	1.7 U	0.8

MW-5
MW-4
MW-10
MW-6-F-6
MW-6-F-3
MW-6-F-5
MW-6-F-2
MW-6-F-4
MW-6-F-1
97 99 101 119 121
L K J H G F B A
BLDG. #6
ADMINISTRATION & ENGINEERING BLDG. #6
AOI-1 FORMER BRINE VAULT
AOI-2 FORMER #2 FUEL OIL UST'S
AOI-3 FORMER DEGREASER LOCATION
AOI-4 HYDRAULIC LIFT AREA
6-A-2 6-A-3 6-A-4 6-A-5
6-B-1
6-C-1 6-C-2 6-C-3
6-D-1 6-D-2 6-D-3
A B C D

LEGEND

(114) AREA OF INTEREST ID NUMBER OR LETTER
AREA OF INTEREST
BORINGS UNLESS NOTED
FORMER DEGREASER LOCATIONS
FORMER DEGREASER WITH SEPARATOR PIT
MONITORING WELL
1.1 RESULT EXCEEDED SCREENING CRITERIA

NOTES:
RESULTS ARE IN MG/KG
U - INDICATES COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED AT OR ABOVE REPORTING LIMIT. HOWEVER ONLY RESULTS REPORTED AS A "NONDETECT" THAT HAVE A REPORTING LIMIT 25% ABOVE THE UNRESTRICTED CRITERIA ARE SHOWN.
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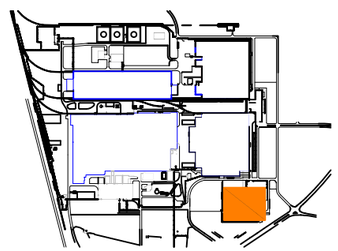
D - INDICATES COMPOUNDS IDENTIFIED IN AN ANALYSIS AT A SECONDARY DILUTION FACTOR.

FIGURE MODIFIED WITH PERMISSION FROM BASE MAP PROVIDED BY DELPHI THERMAL



0 100 200 300
APPROXIMATE SCALE IN FEET

DELPHI
THERMAL AND INTERIOR SYSTEMS

FIGURE 12A - 2006 FIELD INVESTIGATION LOCKPORT, NY ANALYTICAL RESULTS BUILDING 6

ERM

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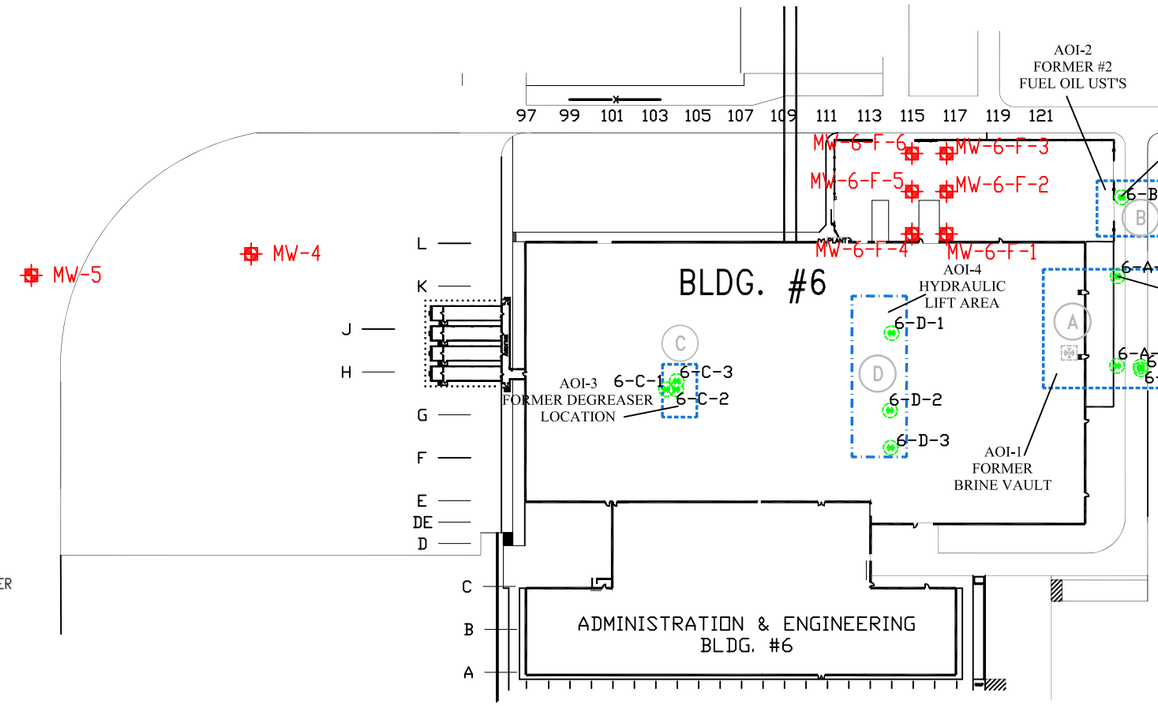

Sample ID	Parameter	Result	Restricted Commercial	Restricted Industrial
SVOCs				
6-B-1 (4-6)	Benzo(a)pyrene	1.9 U	1	1.1
6-B-1 (4-6)	Dibenzo(a,h)anthracene	1.9 U	0.56	1.1
6-B-1 (8-10)	Benzo(a)pyrene	1.1 J	1	1.1
6-B-1 (8-10)	Dibenzo(a,h)anthracene	7 U	0.56	1.1
6-B-1 (8-10)	Pentachlorophenol	34 U	6.7	55
Metals				
6-B-1 (8-10)	Cadmium - Total	39.1	9.3	60
VOCs				
6-B-1 (8-10)	Hexachlorobenzene	7 U	6	12

Sample ID	Parameter	Result	Restricted Commercial	Restricted Industrial
SVOCs				
6-A-3 (4-6)	Dibenzo(a,h)anthracene	3.6 U	0.56	1.1
6-A-3 (4-6)	Pentachlorophenol	17 U	6.7	55

LEGEND

- (114) AREA OF INTEREST ID NUMBER OR LETTER
- AREA OF INTEREST
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- FORMER DEGREASER LOCATIONS
- FORMER DEGREASER WITH SEPARATOR PIT
- MONITORING WELL
- 1.1 RESULT EXCEEDED SCREENING CRITERIA

NOTES:
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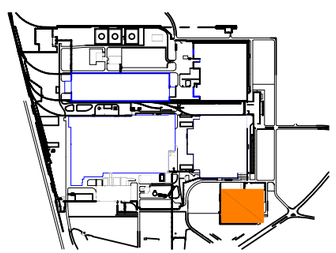
FIGURE MODIFIED WITH PERMISSION FROM BASE MAP PROVIDED BY DELPHI THERMAL



0 100 200 300
APPROXIMATE SCALE IN FEET

DELPHI
THERMAL AND INTERIOR SYSTEMS

FIGURE 12 - 2006 FIELD INVESTIGATION LOCKPORT, NY ANALYTICAL RESULTS BUILDING 6

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AOI-8
FORMER TANK
FARM AREA

AOI-12
FORMER DEGREASER
LOCATIONS

AOI-17
HISTORICAL TRAIN
WELL AND TRUCK DOCK

AOI-9
FORMER HEX CHROME
OPERATIONS

AOI-15
ACID FLUX ROOM

BLDG. #7

AOI-14
WASTE OIL
STORAGE AREA

AOI-16
HISTORICAL
PCB AREA

BLDG. #12

AOI-10
HISTORICAL
COAL PILE
AREAS

AOI-38
FORMER GASOLINE
& KEROSENE UST'S

GARAGE
BLDG.
#15

NO PEDESTRIANS

NEW YORK CENTRAL RAILROAD

OLD SAUNDERS SETTLEMENT ROAD

ROAD #1
EXIT ONLY

DOCK

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
SVOCs				
7-A-6 (4-6)	Dibenzo(a,h)anthracene	3.6 U	0.56	1.1

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
VOCs				
7-G-3-B (6-8)	Carbon Tetrachloride	34 U	22	44
7-G-3-B (6-8)	Tetrachloroethene	340 D	150	300

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
VOCs				
7-G-8-B (8-10)	Tetrachloroethene	1000 D	150	300

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
VOCs				
7-G-8-C (8-10.75)	Tetrachloroethene	510 D	150	300

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
PCBs				
7-G-4-C (8-10.7)	Aroclor 1016	2 U	1	25
7-G-4-C (8-10.7)	Aroclor 1221	2 U	1	25
7-G-4-C (8-10.7)	Aroclor 1232	2 U	1	25
7-G-4-C (8-10.7)	Aroclor 1242	2 U	1	25
7-G-4-C (8-10.7)	Aroclor 1248	11	1	25
7-G-4-C (8-10.7)	Aroclor 1254	2 U	1	25
7-G-4-C (8-10.7)	Aroclor 1260	2 U	1	25

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
SVOCs				
7-R-1 (6-8)	Benzo(a)pyrene	2.4	1	1.1
7-R-1 (6-8)	Dibenzo(a,h)anthracene	0.69 J	0.56	1.1

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
SVOCs				
7-M-2 (0-2)	Benzo(a)pyrene	1.2 J	1	1.1
7-M-2 (0-2)	Dibenzo(a,h)anthracene	7.2 U	0.56	1.1
7-M-2 (6-7.8)	Benzo(a)pyrene	3.6 U	1	1.1
7-M-2 (6-7.8)	Dibenzo(a,h)anthracene	3.6 U	0.56	1.1

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
SVOCs				
7-R-3 (6-7.5)	Benzo(a)pyrene	5.5	1	1.1
7-R-3 (6-7.5)	Dibenzo(a,h)anthracene	1.2	0.56	1.1
7-R-3 (6-7.5) DL	Benzo(b)fluoranthene	12 D	5.6	11
7-R-3 (6-7.5)	Copper - Total	307	270	10000

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
PCBs				
7-M-3 (6-8)	Aroclor 1248	1.6	1	25
SVOCs				
7-M-3 (6-8)	Benzo(a)pyrene	3.5 U	1	1.1
7-M-3 (6-8)	Dibenzo(a,h)anthracene	3.5 U	0.56	1.1

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
SVOCs				
GS-A (0-2)	Dibenzo(a,h)anthracene	3.4 U	0.56	1.1
GS-A (0-2)	Pentachlorophenol	16 U	6.7	55

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
SVOCs				
15-112-BR (4-6)	Benzo(a)pyrene	3.6 U	1	1.1
15-112-BR (4-6)	Dibenzo(a,h)anthracene	3.6 U	0.56	1.1
15-112-BR (6-6.8)	Dibenzo(a,h)anthracene	1.8 U	0.56	1.1

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
SVOCs				
7-C-3 (2-4)	Benzo(a)anthracene	46	5.6	11
7-C-3 (2-4)	Benzo(a)pyrene	25	1	1.1
7-C-3 (2-4)	Benzo(b)fluoranthene	35	5.6	11
7-C-3 (2-4)	Dibenzo(a,h)anthracene	3 J	0.56	1.1
7-C-3 (2-4)	Indeno(1,2,3-cd)pyrene	9.4	5.6	11

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
SVOCs				
7-C-2 (0-2)	Benzo(a)anthracene	8.8	5.6	11
7-C-2 (0-2)	Benzo(a)pyrene	7.2 J	1	1.1
7-C-2 (0-2)	Benzo(b)fluoranthene	9.7	5.6	11
7-C-2 (0-2)	Dibenzo(a,h)anthracene	1.8 J	0.56	1.1
7-C-2 (9-10)	Dibenzo(a,h)anthracene	4.2 U	0.56	1.1

LEGEND

(114) AREA OF INTEREST ID NUMBER OR LETTER

AREA OF INTEREST

BORINGS UNLESS NOTED

FORMER DEGREASER LOCATIONS

FORMER DEGREASER WITH SEPARATOR PIT

MONITORING WELL

1.1 RESULT EXCEEDED SCREENING CRITERIA

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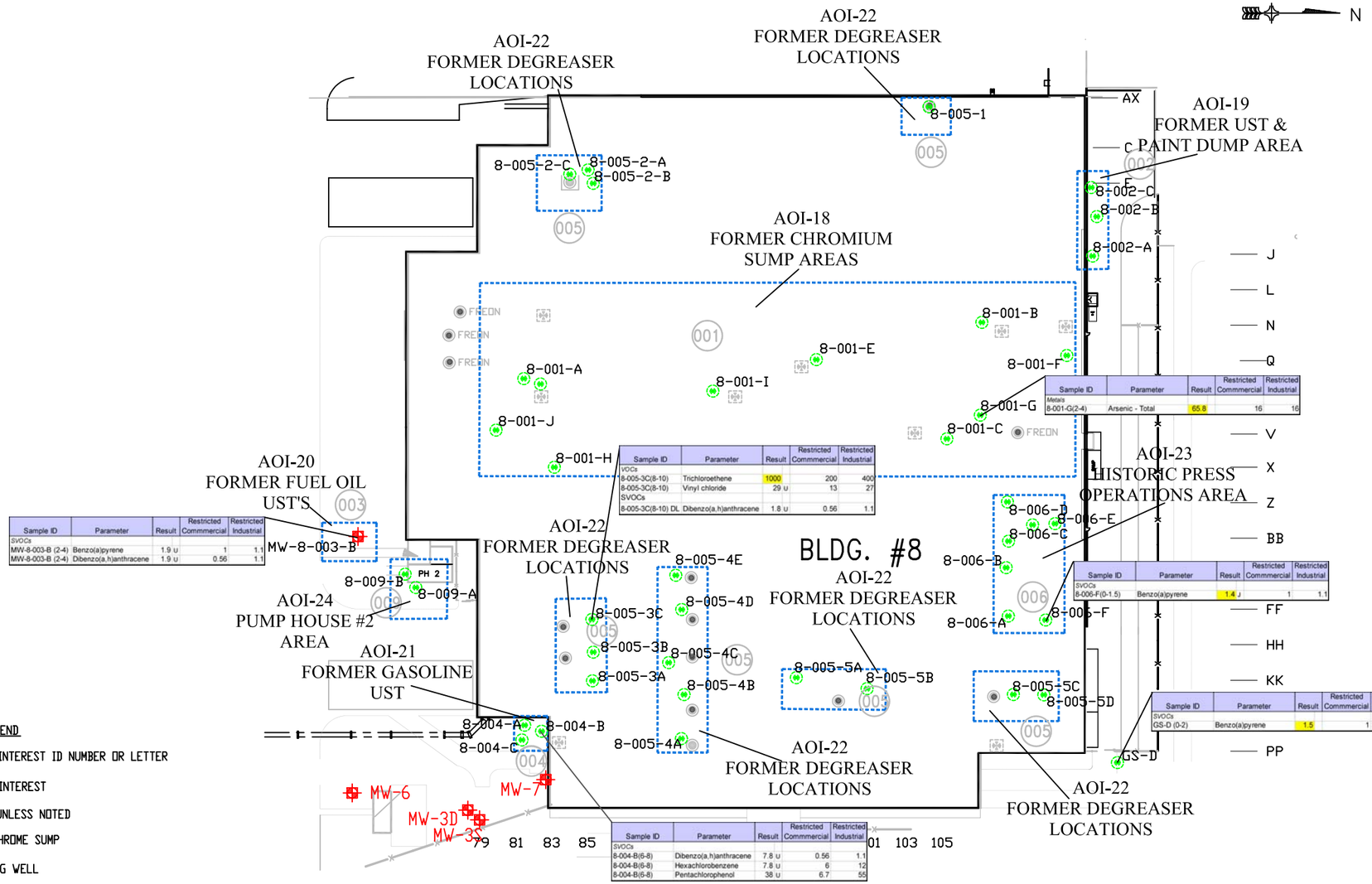
FIGURE MODIFIED WITH PERMISSION FROM BASE MAP PROVIDED BY DELPHI THERMAL

0 100 200 300
APPROXIMATE SCALE IN FEET

DELPHI
THERMAL AND INTERIOR SYSTEMS

FIGURE 13 - 2006 FIELD INVESTIGATION LOCKPORT, NY ANALYTICAL RESULTS BUILDING 7 & WEST COURTYARD

ERM



Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
SVOCs				
MW-8-003-B (2-4)	Benzo(a)pyrene	1.9 u	1	1.1
MW-8-003-B (2-4)	Dibenzo(a,h)anthracene	1.9 u	0.56	1.1

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
VOCs				
8-005-3C(8-10)	Trichloroethene	1000	200	400
8-005-3C(8-10)	Vinyl chloride	29 u	13	27
SVOCs				
8-005-3C(8-10) DL	Dibenzo(a,h)anthracene	1.8 u	0.56	1.1

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
Metals				
8-001-G(2-4)	Arsenic - Total	65.8	16	16

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
SVOCs				
8-006-F(0-1.5)	Benzo(a)pyrene	1.4 J	1	1.1

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
SVOCs				
GS-D (0-2)	Benzo(a)pyrene	1.5	1	1.1

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
SVOCs				
8-004-B(6-8)	Dibenzo(a,h)anthracene	7.8 u	0.56	1.1
8-004-B(6-8)	Hexachlorobenzene	7.8 u	6	12
8-004-B(6-8)	Pentachlorophenol	38 u	6.7	55

LEGEND

- (114) AREA OF INTEREST ID NUMBER OR LETTER
- AREA OF INTEREST
- BORINGS UNLESS NOTED
- FORMER CHROME SUMP
- MONITORING WELL
- FORMER DEGREASER LOCATIONS
- FORMER DEGREASER WITH SEPARATOR PIT
- 1.1 RESULTS EXCEEDED SCREENING CRITERIA

NOTES:
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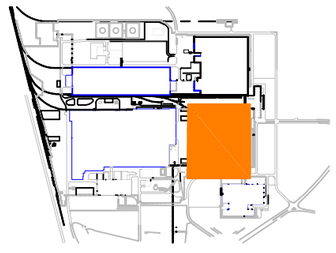
FIGURE MODIFIED WITH PERMISSION FROM BASE MAP PROVIDED BY DELPHI THERMAL

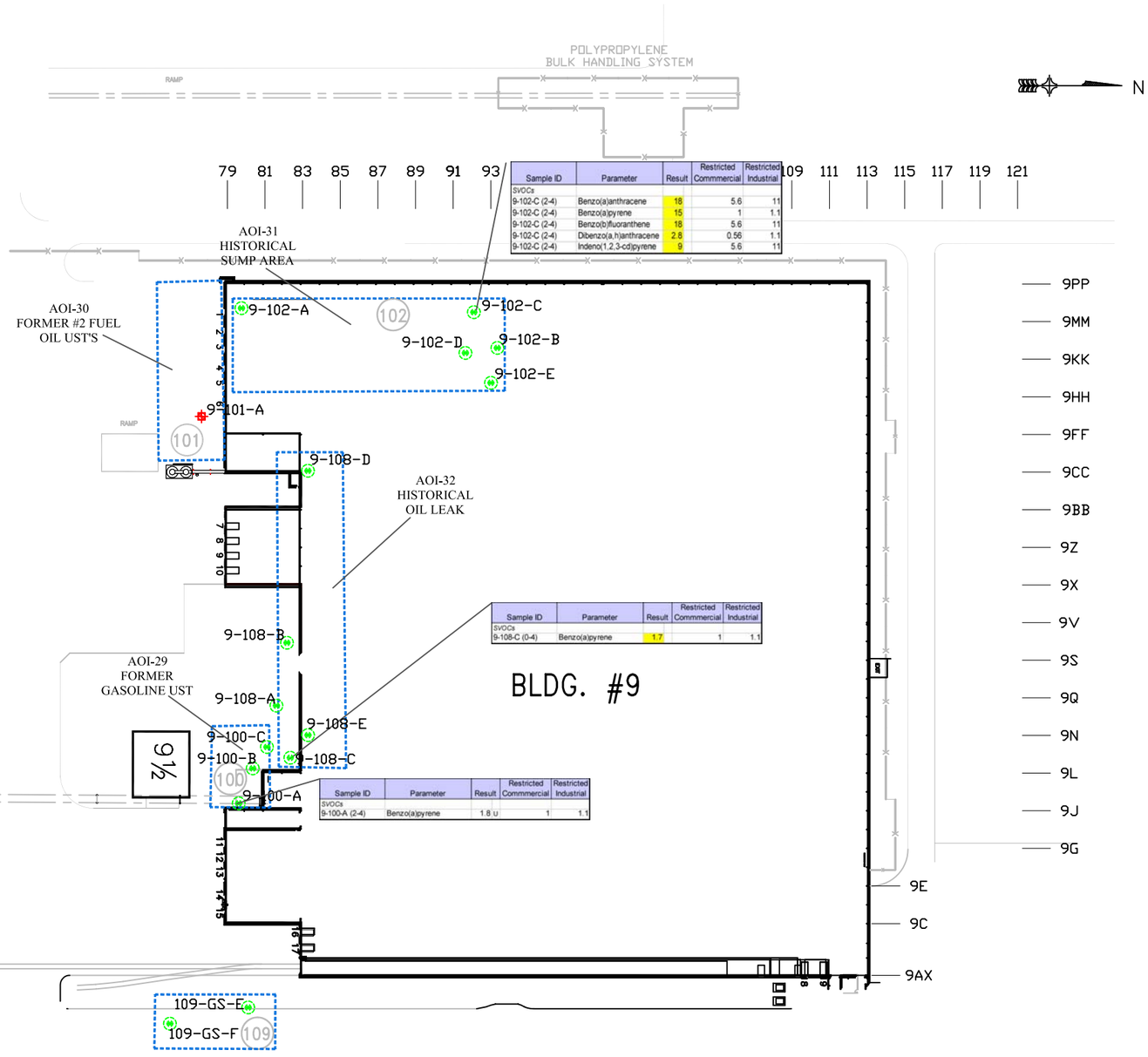
DELPHI
THERMAL AND INTERIOR SYSTEMS



0 100 200 300
APPROXIMATE SCALE IN FEET

FIGURE 14 - 2006 FIELD INVESTIGATION
LOCKPORT, NY
ANALYTICAL RESULTS
BUILDING 8

ERM



Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
SVOCs				
9-102-C (2-4)	Benzo(a)anthracene	18	5.6	11
9-102-C (2-4)	Benzo(a)pyrene	15	1	1.1
9-102-C (2-4)	Benzo(b)fluoranthene	18	5.6	11
9-102-C (2-4)	Dibenzo(a,h)anthracene	2.8	0.56	1.1
9-102-C (2-4)	Indeno(1,2,3-cd)pyrene	9	5.6	11

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
SVOCs				
9-108-C (0-4)	Benzo(a)pyrene	1.7	1	1.1

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
SVOCs				
9-100-A (2-4)	Benzo(a)pyrene	1.8 u	1	1.1

LEGEND

- (114) AREA OF INTEREST ID NUMBER OR LETTER
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- MONITORING WELL
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- FORMER DEGREASER WITH SEPARATOR PIT
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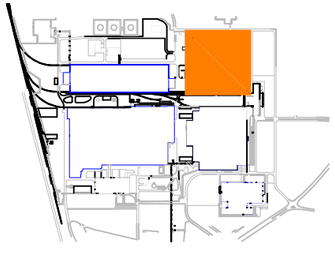
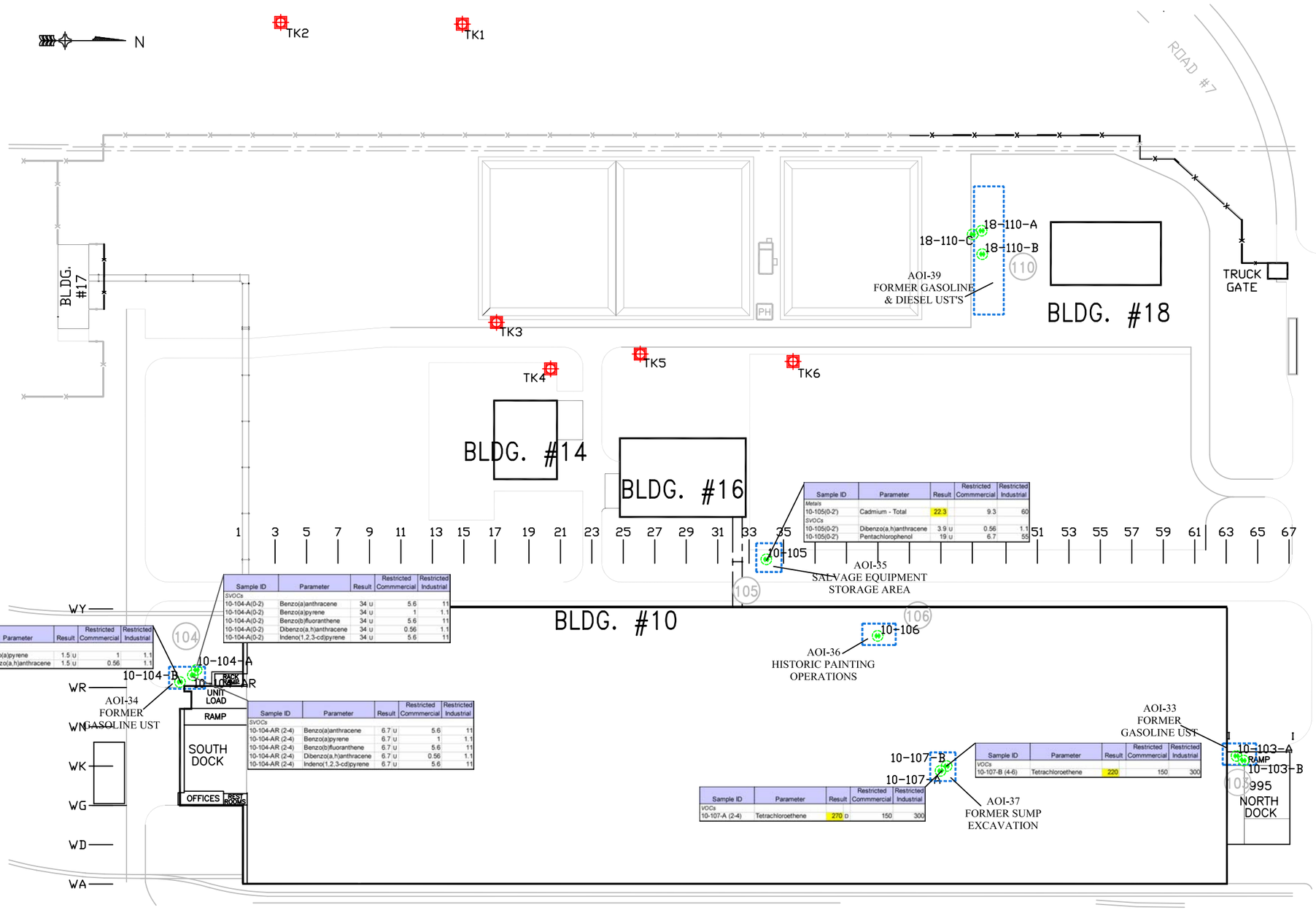


0 100 200 300
APPROXIMATE SCALE IN FEET

DELPHI
THERMAL AND INTERIOR SYSTEMS

FIGURE 15 - 2006 FIELD INVESTIGATION LOCKPORT, NY ANALYTICAL RESULTS BUILDING 9

ERM



Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
Metals				
10-105(0-2')	Cadmium - Total	22.3	9.3	60
SVOCs				
10-105(0-2')	Dibenzo(a,h)anthracene	3.9 u	0.56	1.1
10-105(0-2')	Pentachlorophenol	19 u	6.7	55

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
SVOCs				
10-104-A(0-2)	Benzo(a)anthracene	34 u	5.6	11
10-104-A(0-2)	Benzo(a)pyrene	34 u	1	1.1
10-104-A(0-2)	Benzo(b)fluoranthene	34 u	5.6	11
10-104-A(0-2)	Dibenzo(a,h)anthracene	34 u	0.56	1.1
10-104-A(0-2)	Indeno(1,2,3-cd)pyrene	34 u	5.6	11

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
SVOCs				
10-104-B(4-5.8)	Benzo(a)pyrene	1.5 u	1	1.1
10-104-B(4-5.8)	Dibenzo(a,h)anthracene	1.5 u	0.56	1.1

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
SVOCs				
10-104-AR (2-4)	Benzo(a)anthracene	6.7 u	5.6	11
10-104-AR (2-4)	Benzo(a)pyrene	6.7 u	1	1.1
10-104-AR (2-4)	Benzo(b)fluoranthene	6.7 u	5.6	11
10-104-AR (2-4)	Dibenzo(a,h)anthracene	6.7 u	0.56	1.1
10-104-AR (2-4)	Indeno(1,2,3-cd)pyrene	6.7 u	5.6	11

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
VOCs				
10-107-B (4-6)	Tetrachloroethene	220	150	300

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
VOCs				
10-107-A (2-4)	Tetrachloroethene	270 D	150	300

NOTES:
RESULTS ARE IN MG/KG
U - INDICATES COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED AT OR ABOVE REPORTING LIMIT. HOWEVER ONLY RESULTS REPORTED AS A "NONDETECT" THAT HAVE A REPORTING LIMIT 25% ABOVE THE UNRESTRICTED CRITERIA ARE SHOWN.
B - INDICATES THAT THE ANALYTE WAS FOUND IN THE ASSOCIATED BLANK, AS WELL AS IN THE SAMPLE
J - INDICATES AN ESTIMATED VALUE.
D - INDICATES COMPOUNDS IDENTIFIED IN AN ANALYSIS AT A SECONDARY DILUTION FACTOR.

FIGURE MODIFIED WITH PERMISSION FROM BASE MAP PROVIDED BY DELPHI THERMAL

LEGEND

(114) AREA OF INTEREST ID NUMBER OR LETTER

AREA OF INTEREST

BORINGS UNLESS NOTED

MONITORING WELL

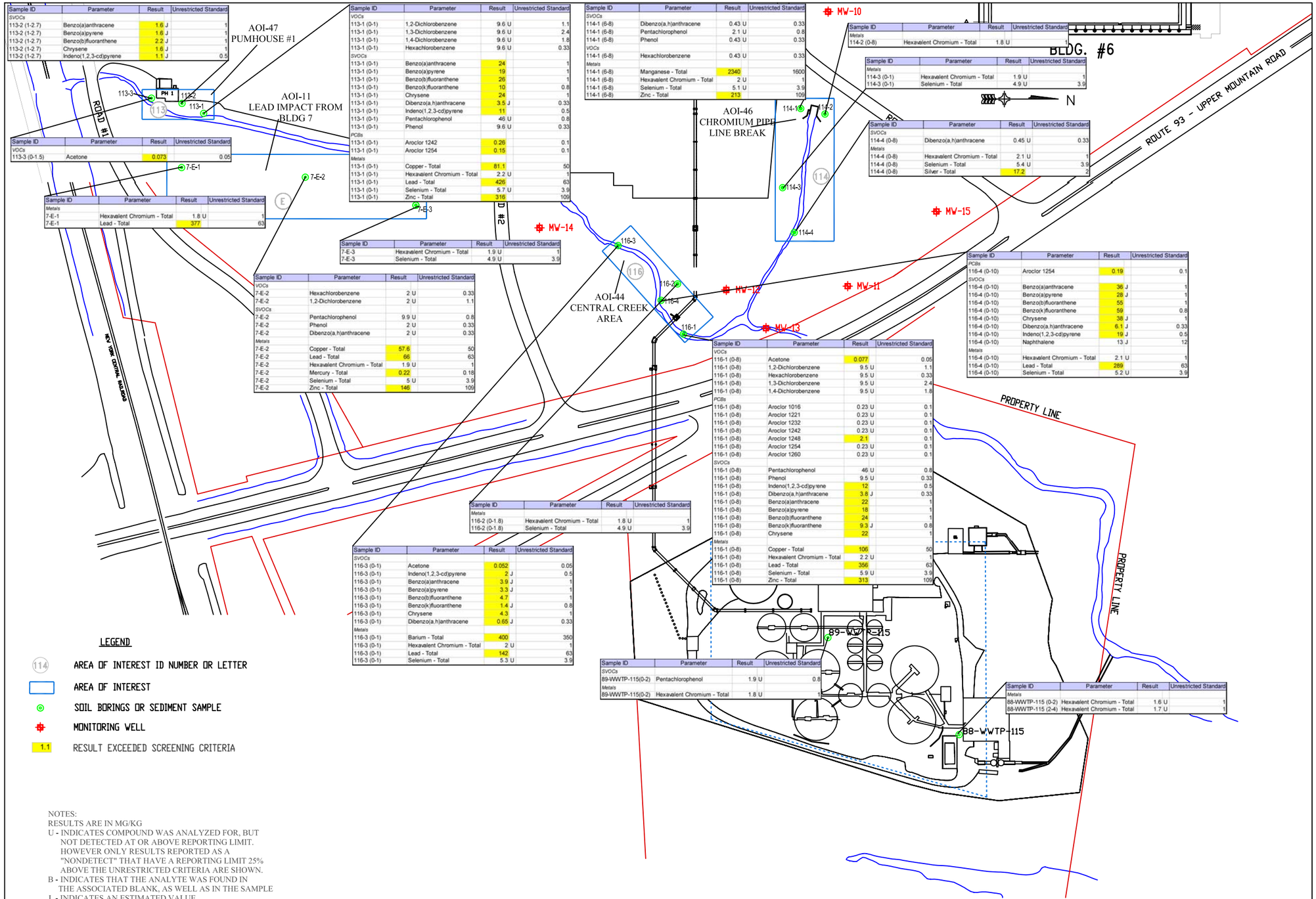
1.1 RESULT EXCEEDED SCREENING CRITERIA

0 100 200 300
APPROXIMATE SCALE IN FEET

DELPHI
THERMAL AND INTERIOR SYSTEMS

FIGURE 16 - 2006 FIELD INVESTIGATION LOCKPORT, NY ANALYTICAL RESULTS BUILDING 10

ERM



Sample ID	Parameter	Result	Unrestricted Standard
SVOCs			
113-2 (1-2.7)	Benzo(a)anthracene	1.6 J	1
113-2 (1-2.7)	Benzo(a)pyrene	1.6 J	1
113-2 (1-2.7)	Benzo(b)fluoranthene	2.2 J	1
113-2 (1-2.7)	Chrysene	1.6 J	1
113-2 (1-2.7)	Indeno(1,2,3-cd)pyrene	1.1 J	0.5

Sample ID	Parameter	Result	Unrestricted Standard
VOCs			
113-3 (0-1.5)	Acetone	0.073	0.05

Sample ID	Parameter	Result	Unrestricted Standard
Metals			
7-E-1	Hexavalent Chromium - Total	1.8 U	1
7-E-1	Lead - Total	377	63

Sample ID	Parameter	Result	Unrestricted Standard
SVOCs			
113-1 (0-1)	1,2-Dichlorobenzene	9.6 U	1.1
113-1 (0-1)	1,3-Dichlorobenzene	9.6 U	2.4
113-1 (0-1)	1,4-Dichlorobenzene	9.6 U	1.8
113-1 (0-1)	Hexachlorobenzene	9.6 U	0.33
SVOCs			
113-1 (0-1)	Benzo(a)anthracene	24	1
113-1 (0-1)	Benzo(a)pyrene	19	1
113-1 (0-1)	Benzo(b)fluoranthene	26	1
113-1 (0-1)	Benzo(k)fluoranthene	10	0.8
113-1 (0-1)	Chrysene	24	1
113-1 (0-1)	Dibenzo(a,h)anthracene	3.5 J	0.33
113-1 (0-1)	Indeno(1,2,3-cd)pyrene	11	0.5
113-1 (0-1)	Pentachlorophenol	46 U	0.8
113-1 (0-1)	Phenol	9.6 U	0.33
PCBs			
113-1 (0-1)	Aroclor 1242	0.26	0.1
113-1 (0-1)	Aroclor 1254	0.15	0.1
Metals			
113-1 (0-1)	Copper - Total	81.1	50
113-1 (0-1)	Hexavalent Chromium - Total	2.2 U	1
113-1 (0-1)	Lead - Total	426	63
113-1 (0-1)	Selenium - Total	5.7 U	3.9
113-1 (0-1)	Zinc - Total	316	109

Sample ID	Parameter	Result	Unrestricted Standard
7-E-3	Hexavalent Chromium - Total	1.9 U	1
7-E-3	Selenium - Total	4.9 U	3.9

Sample ID	Parameter	Result	Unrestricted Standard
VOCs			
7-E-2	Hexachlorobenzene	2 U	0.33
7-E-2	1,2-Dichlorobenzene	2 U	1.1
SVOCs			
7-E-2	Pentachlorophenol	9.9 U	0.8
7-E-2	Phenol	2 U	0.33
7-E-2	Dibenzo(a,h)anthracene	2 U	0.33
Metals			
7-E-2	Copper - Total	57.6	50
7-E-2	Lead - Total	66	63
7-E-2	Hexavalent Chromium - Total	1.9 U	1
7-E-2	Mercury - Total	0.22	0.18
7-E-2	Selenium - Total	5 U	3.9
7-E-2	Zinc - Total	146	109

Sample ID	Parameter	Result	Unrestricted Standard
Metals			
116-2 (0-1.8)	Hexavalent Chromium - Total	1.8 U	1
116-2 (0-1.8)	Selenium - Total	4.9 U	3.9

Sample ID	Parameter	Result	Unrestricted Standard
SVOCs			
116-3 (0-1)	Acetone	0.052	0.05
116-3 (0-1)	Indeno(1,2,3-cd)pyrene	2 J	0.5
116-3 (0-1)	Benzo(a)anthracene	3.9 J	1
116-3 (0-1)	Benzo(a)pyrene	3.3 J	1
116-3 (0-1)	Benzo(b)fluoranthene	4.7	1
116-3 (0-1)	Benzo(k)fluoranthene	1.4 J	0.8
116-3 (0-1)	Chrysene	4.3	1
116-3 (0-1)	Dibenzo(a,h)anthracene	0.65 J	0.33
Metals			
116-3 (0-1)	Barium - Total	400	350
116-3 (0-1)	Hexavalent Chromium - Total	2 U	1
116-3 (0-1)	Lead - Total	142	63
116-3 (0-1)	Selenium - Total	5.3 U	3.9

Sample ID	Parameter	Result	Unrestricted Standard
SVOCs			
114-1 (6-8)	Dibenzo(a,h)anthracene	0.43 U	0.33
114-1 (6-8)	Pentachlorophenol	2.1 U	0.8
114-1 (6-8)	Phenol	0.43 U	0.33
VOCs			
114-1 (6-8)	Hexachlorobenzene	0.43 U	0.33
Metals			
114-1 (6-8)	Manganese - Total	2340	1600
114-1 (6-8)	Hexavalent Chromium - Total	2 U	1
114-1 (6-8)	Selenium - Total	5.1 U	3.9
114-1 (6-8)	Zinc - Total	213	109

Sample ID	Parameter	Result	Unrestricted Standard
Metals			
114-2 (0-8)	Hexavalent Chromium - Total	1.8 U	1

Sample ID	Parameter	Result	Unrestricted Standard
Metals			
114-3 (0-1)	Hexavalent Chromium - Total	1.9 U	1
114-3 (0-1)	Selenium - Total	4.9 U	3.9

Sample ID	Parameter	Result	Unrestricted Standard
SVOCs			
114-4 (0-8)	Dibenzo(a,h)anthracene	0.45 U	0.33
Metals			
114-4 (0-8)	Hexavalent Chromium - Total	2.1 U	1
114-4 (0-8)	Selenium - Total	5.4 U	3.9
114-4 (0-8)	Silver - Total	17.2	2

Sample ID	Parameter	Result	Unrestricted Standard
PCBs			
116-4 (0-10)	Aroclor 1254	0.19	0.1
SVOCs			
116-4 (0-10)	Benzo(a)anthracene	36 J	1
116-4 (0-10)	Benzo(a)pyrene	28 J	1
116-4 (0-10)	Benzo(b)fluoranthene	55	1
116-4 (0-10)	Benzo(k)fluoranthene	59	0.8
116-4 (0-10)	Chrysene	38 J	1
116-4 (0-10)	Dibenzo(a,h)anthracene	6.1 J	0.33
116-4 (0-10)	Indeno(1,2,3-cd)pyrene	19 J	0.5
116-4 (0-10)	Naphthalene	13 J	12
Metals			
116-4 (0-10)	Hexavalent Chromium - Total	2.1 U	1
116-4 (0-10)	Lead - Total	289	63
116-4 (0-10)	Selenium - Total	5.2 U	3.9

Sample ID	Parameter	Result	Unrestricted Standard
VOCs			
116-1 (0-8)	Acetone	0.077	0.05
116-1 (0-8)	1,2-Dichlorobenzene	9.5 U	1.1
116-1 (0-8)	Hexachlorobenzene	9.5 U	0.33
116-1 (0-8)	1,3-Dichlorobenzene	9.5 U	2.4
116-1 (0-8)	1,4-Dichlorobenzene	9.5 U	1.8
PCBs			
116-1 (0-8)	Aroclor 1016	0.23 U	0.1
116-1 (0-8)	Aroclor 1221	0.23 U	0.1
116-1 (0-8)	Aroclor 1232	0.23 U	0.1
116-1 (0-8)	Aroclor 1242	0.23 U	0.1
116-1 (0-8)	Aroclor 1248	2.1	0.1
116-1 (0-8)	Aroclor 1254	0.23 U	0.1
116-1 (0-8)	Aroclor 1260	0.23 U	0.1
SVOCs			
116-1 (0-8)	Pentachlorophenol	46 U	0.8
116-1 (0-8)	Phenol	9.5 U	0.33
116-1 (0-8)	Indeno(1,2,3-cd)pyrene	12	0.5
116-1 (0-8)	Dibenzo(a,h)anthracene	3.8 J	0.33
116-1 (0-8)	Benzo(a)anthracene	22	1
116-1 (0-8)	Benzo(a)pyrene	18	1
116-1 (0-8)	Benzo(b)fluoranthene	24	1
116-1 (0-8)	Benzo(k)fluoranthene	9.3 J	0.8
116-1 (0-8)	Chrysene	22	1
Metals			
116-1 (0-8)	Copper - Total	106	50
116-1 (0-8)	Hexavalent Chromium - Total	2.2 U	1
116-1 (0-8)	Lead - Total	356	63
116-1 (0-8)	Selenium - Total	5.9 U	3.9
116-1 (0-8)	Zinc - Total	313	109

Sample ID	Parameter	Result	Unrestricted Standard
SVOCs			
89-WWTP-115(0-2)	Pentachlorophenol	1.9 U	0.8
Metals			
89-WWTP-115(0-2)	Hexavalent Chromium - Total	1.8 U	1

Sample ID	Parameter	Result	Unrestricted Standard
Metals			
88-WWTP-115 (0-2)	Hexavalent Chromium - Total	1.6 U	1
88-WWTP-115 (2-4)	Hexavalent Chromium - Total	1.7 U	1

LEGEND

- (114) AREA OF INTEREST ID NUMBER OR LETTER
- AREA OF INTEREST
- SOIL BORINGS OR SEDIMENT SAMPLE
- MONITORING WELL
- 1.1 RESULT EXCEEDED SCREENING CRITERIA

NOTES:
RESULTS ARE IN MG/KG
U - INDICATES COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED AT OR ABOVE REPORTING LIMIT. HOWEVER ONLY RESULTS REPORTED AS A "NONDETECT" THAT HAVE A REPORTING LIMIT 25% ABOVE THE UNRESTRICTED CRITERIA ARE SHOWN.
B - INDICATES THAT THE ANALYTE WAS FOUND IN THE ASSOCIATED BLANK, AS WELL AS IN THE SAMPLE
J - INDICATES AN ESTIMATED VALUE.
D - INDICATES COMPOUNDS IDENTIFIED IN AN ANALYSIS AT A SECONDARY DILUTION FACTOR.

FIGURE MODIFIED WITH PERMISSION FROM BASE MAP PROVIDED BY DELPHI THERMAL

0 100 200 300
APPROXIMATE SCALE IN FEET

DELPHI
THERMAL AND INTERIOR SYSTEMS

FIGURE 17A - 2006 FIELD INVESTIGATION LOCKPORT, NY ANALYTICAL RESULTS CREEK & WWTP

ERM

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
SVOCs				
113-2 (1-2.7)	Benzo(a)pyrene	1.6 J	1	1.1

AOI-47
PUMHOUSE #1

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
SVOCs				
113-1 (0-1)	Benzo(a)anthracene	24	5.6	11
113-1 (0-1)	Benzo(a)pyrene	19	1	1.1
113-1 (0-1)	Benzo(b)fluoranthene	26	5.6	11
113-1 (0-1)	Dibenzo(a,h)anthracene	3.5 J	0.56	1.1
113-1 (0-1)	Indeno(1,2,3-cd)pyrene	11	5.6	11
113-1 (0-1)	Pentachlorophenol	46 U	6.7	55
VOCs				
113-1 (0-1)	Hexachlorobenzene	9.6 U	6	12

AOI-11
LEAD IMPACT FROM
BLDG 7

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
Metals				
116-3 (0-1)	Barium - Total	400	400	10000
SVOCs				
116-3 (0-1)	Benzo(a)pyrene	3.3 J	1	1.1
116-3 (0-1)	Dibenzo(a,h)anthracene	0.65 J	0.56	1.1

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
SVOCs				
7-E-2	Dibenzo(a,h)anthracene	2 U	0.56	1.1
7-E-2	Pentachlorophenol	9.9 U	6.7	55

AOI-44
CENTRAL CREEK
AREA

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
SVOCs				
116-4 (0-10)	Benzo(a)anthracene	36 J	5.6	11
116-4 (0-10)	Benzo(a)pyrene	28 J	1	1.1
116-4 (0-10)	Benzo(b)fluoranthene	55	5.6	11
116-4 (0-10)	Benzo(k)fluoranthene	59	56	110
116-4 (0-10)	Dibenzo(a,h)anthracene	6.1 J	0.56	1.1
116-4 (0-10)	Indeno(1,2,3-cd)pyrene	19 J	5.6	11

Sample ID	Parameter	Result	Restricted Commmercial	Restricted Industrial
PCBs				
116-1 (0-8)	Aroclor 1248	2.1	1	25
SVOCs				
116-1 (0-8)	Benzo(a)anthracene	22	5.6	11
116-1 (0-8)	Benzo(a)pyrene	18	1	1.1
116-1 (0-8)	Benzo(b)fluoranthene	24	5.6	11
116-1 (0-8)	Dibenzo(a,h)anthracene	3.8 J	0.56	1.1
116-1 (0-8)	Indeno(1,2,3-cd)pyrene	12	5.6	11
116-1 (0-8)	Pentachlorophenol	46 U	6.7	55
116-1 (0-8)	Hexachlorobenzene	9.5 U	6	12

AOI-46
CHROMIUM PIPE
LINE BREAK

AOI-49
WWTP ACID &
CHROME TANKS

MW-10
MW-11
MW-12
MW-13
MW-14
MW-15

ROAD #1
ROAD #2
ROAD #3
BLDG. 6
BLDG. #6
ROUTE 93 - UPPER MOUNTAIN ROAD
NEW YORK CENTRAL RAILROAD
PROPERTY LINE

E-1
E-2
E-3
113-1
113-2
113-3
114-1
114-2
114-3
114-4
116-1
116-2
116-3
116-4
89-WWTP-115
88-WWTP-115

LEGEND

- (114) AREA OF INTEREST ID NUMBER OR LETTER
- AREA OF INTEREST
- SOIL BORINGS OR SEDIMENT SAMPLE
- MONITORING WELL
- 1.1 RESULT EXCEEDED SCREENING CRITERIA

NOTES:
RESULTS ARE IN MG/KG
U - INDICATES COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED AT OR ABOVE REPORTING LIMIT. HOWEVER ONLY RESULTS REPORTED AS A "NONDETECT" THAT HAVE A REPORTING LIMIT 25% ABOVE THE UNRESTRICTED CRITERIA ARE SHOWN.
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FIGURE MODIFIED WITH PERMISSION FROM BASE MAP PROVIDED BY DELPHI THERMAL

0 100 200 300
APPROXIMATE SCALE IN FEET

DELPHI
THERMAL AND INTERIOR SYSTEMS

FIGURE 17 - 2006 FIELD INVESTIGATION LOCKPORT, NY ANALYTICAL RESULTS CREEK & WWTP

ERM

Tables

TABLE 1
SUMMARY OF SAMPLE LOCATIONS AND ANALYTICAL TESTS
DELPHI THERMAL, LOCKPORT, NEW YORK

AOI #	Well \ Boring #	AOI Location	AOI Description	Column Ref.	Col. No.	Location	Matrix	TCL VOCs/ TCL SVOCs/TAL Metals/Cr6/PCBs	TCL VOCs	SVOCS (PAHs)	RCRA Metals & Cr6	PCBs	Cyranide	Sulfate	Iron	pH
1	6-A-1**	o Outdoors, along northwestern corner. o Outdoors, northwestern corner. o Indoors, north central area. o Chrome sump, outdoors along northeastern area.	o Temporary tank for brine storage tank overflowed into ground. o Drainage tile around basement brine vault connected to sump inside. Potential for brine with hex chrome to be forced outside when sump pump failed. o Prior to drainage in tunnel, area permitted discharge of hex chrome/brine to stormwater Outfall 002. o Potential historic contamination, chrome sump outdoors along northeastern area.	JK	-	18'N	Soil									
	6-A-2			JK	-	38' W of NE corner of brine vault, 2' from wall	Soil									
	6-A-2 (2-4)			JK	-	38' W of NE corner of brine vault, 2' from wall	Soil				X					
	6-A-2 (12-14)			JK	-	38' W of NE corner of brine vault, 2' from wall	Soil				X					
	6-A-3			JK	-	32' E of NW corner of brine vault, 2' from wall	Soil									
	6-A-3 (4-6)			JK	-	32' E of NW corner of brine vault, 2' from wall	Soil	X								
	6-A-3 (12-14)			JK	-	32' E of NW corner of brine vault, 2' from wall	Soil				X					
	6-A-4			JK	-	23'N of 6-A-2	Soil									
	6-A-4 (4-6)			JK	-	23'N of 6-A-2	Soil				X					
	6-A-4 (6-8)			JK	-	23'N of 6-A-2	Soil				X					
2	6-B-1	o Outdoors, along northwestern corner.	o Two 20,000-gallon underground storage tanks, No. 2 fuel oil were removed in the mid-1980s. The USTs were shown on a 1966 map.	-	-	7'N and 41'W of NW corner of the brine vault; ~ 4' off edge of road	Soil									
	6-B-1			-	-	7'N and 41'W of NW corner of the brine vault; ~ 4' off edge of road	Soil	X								
	6-B-1 (4-6)			-	-	7'N and 41'W of NW corner of the brine vault; ~ 4' off edge of road	Soil		X	X						
3	6-C-1	o Indoors, south central area.	o Historical location of model shop PCE degreaser, spill to sanitary sewer- contaminated city STP 9/24/1992.	G	11	9.5'N, 24'W	Soil									
	6-C-1 (0-2)			G	11	9.5'N, 24'W	Soil		X	X	X					
	6-C-1 (2-3.5)			G	11	9.5'N, 24'W	Soil		X	X	X					
	6-C-2			G	11	19'N, 24'W	Soil									
	6-C-2 (0-2.5)			G	11	19'N, 24'W	Soil	X								
	6-C-3			G	11	19'N, 32'W	Soil									
	6-C-3 (0-2)			G	11	19'N, 32'W	Soil		X	X	X					
	6-C-3 (2-4)			G	11	19'N, 32'W	Soil		X	X	X					
4	6-D-1	o Indoors, Hydraulic Lifts	o Hydraulic lifts without containment.	J	5	20'S, 4'E	Soil									
	6-D-1 (2-4)			J	5	20'S, 4'E	Soil			X		X				
	6-D-1 (6-7)			J	5	20'S, 4'E	Soil			X		X				
	6-D-2			G	5	22'S, 4'W	Soil									
	6-D-2 (0-2)			G	5	22'S, 4'W	Soil			X		X				
	6-D-2 (4-6)			G	5	22'S, 4'W	Soil	X								
	6-D-3			F	5	21'S, 9.5'W	Soil									
	6-D-3 (0-4.3)			F	5	21'S, 9.5'W	Soil			X		X				
5*	6E	o Dyno sumps, indoor central area	o Staining on floors, potential historic contamiination. Visual Inspection Only.													
6	MW-6-F-1	o West of Building 6	o Historic and current USTs	-	-	Outside Northwest of Buidling 6	GW									
	MW-6-F-1 (110806)			-	-	Outside Northwest of Buidling 6	GW		X	X	X					
	MW-6-F-5			-	-	Outside Northwest of Buidling 6	GW									
	MW-6-F-5 (110806)			-	-	Outside Northwest of Buidling 6	GW	X								
7*	6Z	o Southern area of Bldg. 6.	o Vapor Intrusion study at Bldg. 6. No further investigation necessary per NYSDEC NFA.													
8	7-A-1	o Central (Btwn bldg. 7 & 10) outside area - former Tank Farm o Outdoors, western central area in former tank farm area. o Outdoors, western central area near former tanks farm area. o Outdoors, along southwestern area. o Contaminated soil near truck docks near column A-33 on w. side of bldg.	o Former Tank Farm Area with 8 horizontal tanks, removed by Harrison Personnel. No confirmation closure samples. In area of grassy knoll. o Approximately 4,300-gallons of PCE pumped into tank farm pumphouse through abandoned fill line. Majority entered treated sewer and contaminated sewers and WWTP 2/10/1983. o PCE & breakdown products identified in monitoring well. o PCE identified when underground abandoned pipe was broken during 1/3/2005 excavation o Perc detected at .2 ppm in soils removed during construction of truck docks on west side of bldg. Source not identified and no previous investigation was completed. Perc was historically stored in AST and UST (previous to AST) north and south of truck dock.	A	39	27'W and 20'N of A39	Soil, GW									
	7-A-2			A	25	60'W of A25	Soil, GW									
	7-A-4			A	9	20'N and 30'W of A9	Soil, GW									
	7-A-4 (0-2)			A	9	20'N and 30'W of A9	Soil, GW		X	X	X					
	7-A-4 (6-8)			A	9	20'N and 30'W of A9	Soil, GW		X	X	X					
	7-A-5			A	16	30'W and 1.5'N of A16	Soil, GW									
	7-A-5 (0-2)			A	16	30'W and 1.5'N of A16	Soil, GW		X	X	X					
	7-A-5 (4-6)			A	16	30'W and 1.5'N of A16	Soil, GW	X								
	7-A-6			A	25	5'S and 15'W of A25	Soil, GW									
	7-A-6 (4-6)			A	25	5'S and 15'W of A25	Soil, GW		X	X	X					
	7-A-6 (6-8)			A	25	5'S and 15'W of A25	Soil, GW		X	X	X					
	MW-7-A-6			A	25	5'S and 15'W of A25	Soil, GW									
	MW-7-A-6 (111006)			A	25	5'S and 15'W of A25	Soil, GW		X	X	X					

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DELPHI THERMAL, LOCKPORT, NEW YORK

AOI #	Well \ Boring #	AOI Location	AOI Description	Column Ref.	Col. No.	Location	Matrix	TCL VOCs/ TCL SVOCs/TAL Metals/Cr6/PCBs	TCL VOCs	SVOCS (PAHs)	RCRA Metals & Cr6	PCBs	Cyranide	Sulfate	Iron	pH
	7-A-7			A	29	28'W of A29	Soil, GW									
	7-A-7 (4-6)			A	29	28'W of A29	Soil, GW		X	X	X					
	7-A-7 (6-8)			A	29	28'W of A29	Soil, GW		X	X	X					
	7-A-8			A	25	5'S and 82'W of A25	Soil, GW									
	7-A-8 (0-2)			A	25	5'S and 82'W of A25	Soil, GW		X	X	X					
	7-A-8 (2-4)			A	25	5'S and 82'W of A25	Soil, GW		X	X	X					
	7-A-9			A	24	28' W of A24	Soil, GW									
	7-A-9 (8-10)			A	24	28' W of A24	Soil, GW		X							
9	7-B-1	o Indoors, western central area of building.	o Limited hex chrome use, alum vacuum brazing operations, military heat exchangers.	Q	33	5'N, 2'E	Soil									
	7-B-1 (6-8)			Q	33	5'N, 2'E	Soil				X					
	7-B-1 (8-9.4)			Q	33	5'N, 2'E	Soil	X								
	7-B-2			Q	35	2.75'S, 3'W	Soil									
	7-B-2 (0-3.8)			Q	35	2.75'S, 3'W	Soil				X					
	7-B-3			Q	35	25'S, 21'W	Soil									
	7-B-3 (0-3)			Q	35	25'S, 21'W	Soil				X					
10	7-C-2	o Indoors, northeastern area of building o Outdoors, northeastern area of building	o Historical Coal Pile Areas	-	-	32' S of SE corner of N2 plant	Soil									
	7-C-2 (0-2)			-	-	32' S of SE corner of N2 plant	Soil			X	X		X	X	X	
	7-C-2 (9-10)			-	-	32' S of SE corner of N2 plant	Soil			X	X		X	X	X	
	7-C-2 111006)			-	-	32' S of SE corner of N2 plant	Soil			X	X					
	7-C-3			-	-	59'W and 25'N of NW Corner of Cooling Tower #2	Soil									
	7-C-3 (2-4)			-	-	59'W and 25'N of NW Corner of Cooling Tower #2	Soil			X	X		X	X	X	
	7-C-3 (8-10)			-	-	59'W and 25'N of NW Corner of Cooling Tower #2	Soil			X	X					
11	7-E-1	o Outdoors, southern area of building	o Extensive use of lead solder for decades.	-	-	Located by GPS & Staked - See Figure	Soil									
	7-E-1			-	-	Located by GPS & Staked - See Figure	Soil				X					X
	7-E-2			-	-	Located by GPS & Staked - See Figure	Soil									
	7-E-2			-	-	Located by GPS & Staked - See Figure	Soil	X								X
	7-E-3			-	-	Located by GPS & Staked - See Figure	Soil									
	7-E-3			-	-	Located by GPS & Staked - See Figure	Soil				X					X
	7-G-1-A	o Degreasers located indoors along southwestern to south-central area of building.	o Historical PCE & TCE degreasers located in the building, with a history of leaks and spills. o Historical PCE & TCE degreasers with separator pits. o Historical concerns with spills/releases. o Former degreaser. o Former degreaser with separator pit. o D-400 PCE Spill from Degreaser	C	17	12'S, 13'W	Soil									
	7-G-1-A (0-2)			C	17	12'S, 13'W	Soil		X							
	7-G-1-A (2-4)			C	17	12'S, 13'W	Soil		X							
	7-G-1-B			L	13	12'S, 3'W	Soil									
	7-G-1-B (2-4)	o Degreasers located indoors along western-central area.		L	13	12'S, 3'W	Soil		X							
	7-G-1-B (4-6)			L	13	12'S, 3'W	Soil		X							
	7-G-1-C			Q	13	20'E, 30'S	Soil									
	7-G-1-C (6-8)	o Degreasers located indoors along northwestern area of building.		Q	13	20'E, 30'S	Soil		X							
	7-G-1-C (8-9.6)			Q	13	20'E, 30'S	Soil	X								
	7-G-1-D			Q	3	5'N, 5'E	Soil									
	7-G-1-D (0-2)			Q	3	5'N, 5'E	Soil		X							
	7-G-1-D (2-4)	o Degreasers located indoors along central to central eastern area of building.		Q	3	5'N, 5'E	Soil		X							
	7-G-2-A			G	35	4'W	Soil									
	7-G-2-A (2-4)			G	35	4'W	Soil		X							
	7-G-2-A (4-6.8)			G	35	4'W	Soil		X							
	7-G-2-B	o Chrome sump, center of bldg. Q-35		E	35	15'W	Soil									
	7-G-2-B (0-1.5)			E	35	15'W	Soil		X							
	7-G-2-C	o Degreasers located indoors along north central area of building.		E	35	10'E	Soil									
	7-G-2-C (6-8)			E	35	10'E	Soil	X								
	7-G-2-C (8-9.5)			E	35	10'E	Soil		X							
	7-G-3-A			J	59	15'E, 5'N	Soil									
	7-G-3-A (2-4)	o Indoors, south-central area.		J	59	15'E, 5'N	Soil		X							
	7-G-3-A (4-6.5)			J	59	15'E, 5'N	Soil	X								
	7-G-3-B	o Former degreaser with separator pit.		E	53	8'N	Soil									
	7-G-3-B (2-4)			E	53	8'N	Soil		X							
	7-G-3-B (6-8)			E	53	8'N	Soil		X							
	7-G-3-C			E	55	8'W	Soil									
	7-G-3-C (0-2)			E	55	8'W	Soil		X							
	7-G-3-C (4-6)			E	55	8'W	Soil		X							

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DELPHI THERMAL, LOCKPORT, NEW YORK

AOI #	Well \ Boring #	AOI Location	AOI Description	Column Ref.	Col. No.	Location	Matrix	TCL VOCs/ TCL SVOCs/TAL Metals/Cr6/PCBs	TCL VOCs	SVOCS (PAHs)	RCRA Metals & Cr6	PCBs	Cyranide	Sulfate	Iron	pH
12	7-G-4-A			N	37	15'N, 4'E	Soil									
	7-G-4-A (0-2)			N	37	15'N, 4'E	Soil		X							
	7-G-4-A (2-3.5)			N	37	15'N, 4'E	Soil		X							
	7-G-4-B			N	37	4'S, 4'E	Soil									
	7-G-4-B (0-2)			N	37	4'S, 4'E	Soil		X							
	7-G-4-B (2-4.2)			N	37	4'S, 4'E	Soil		X							
	7-G-4-C			S	37	16'S, 2'E	Soil									
	7-G-4-C (0-2)			S	37	16'S, 2'E	Soil		X							
	7-G-4-C (8-10.7)			S	37	16'S, 2'E	Soil	X								
	7-G-4-D			V	39	18'W, 2'S	Soil									
	7-G-4-D (4-6)			V	39	18'W, 2'S	Soil		X							
	7-G-4-D (6-8)			V	39	18'W, 2'S	Soil		X							
	7-G-4-E			S	37	17'W, 16'N	Soil									
	7-G-4-E (4-6)			S	37	17'W, 16'N	Soil		X							
	7-G-4-E (6-8)			S	37	17'W, 16'N	Soil		X							
	7-G-5-A			Z	45	16'N, 5'E	Soil									
	7-G-5-A (8-10)			Z	45	16'N, 5'E	Soil		X							
	7-G-5-A (10-12)			Z	45	16'N, 5'E	Soil		X							
	7-G-5-B			X	49	14'W, 3'S	Soil									
	7-G-5-B (0-1.9)			X	49	14'W, 3'S	Soil		X							
	7-G-5-C			X	53	14'W	Soil									
	7-G-5-C (6-8)			X	53	14'W	Soil		X							
	7-G-5-C (10-11.7)			X	53	14'W	Soil	X								
	7-G-6-A			MM	59	5'N, 20W	Soil									
	7-G-6-A (0-2)			MM	59	5'N, 20W	Soil		X							
	7-G-6-A (2-3.75)			MM	59	5'N, 20W	Soil	X								
	7-G-6-B			MM	59	10'N, 10'W	Soil									
	7-G-6-B (0-2)			MM	59	10'N, 10'W	Soil		X							
	7-G-6-B (2-3.75)			MM	59	10'N, 10'W	Soil		X							
	7-G-6-DUP (102606)			MM	59	10'N, 10'W	Soil		X							
	7-G-7-A			X	61	21'W, 14'N	Soil									
	7-G-7-A (6-8)			X	61	21'W, 14'N	Soil		X							
	7-G-7-B (8-10.7)			X	61	30'N, 14'W	Soil	X								
	7-G-7-B			X	61	30'N, 14'W	Soil									
	7-G-7-B (4-6)			X	61	30'N, 14'W	Soil		X							
	7-G-7-B (6-7.8)			X	61	30'N, 14'W	Soil		X							
	7-G-8-A			Q	51	11'S, 14'W	Soil									
	7-G-8-A (0-2.5)			Q	51	11'S, 14'W	Soil		X							
	7-G-8-B			N	51	12'E	Soil									
	7-G-8-B (6-8)			N	51	12'E	Soil		X							
	7-G-8-B (8-10)			N	51	12'E	Soil	X								
	7-G-8-C			Q	49	14'N, 20'E	Soil									
	7-G-8-C (6-8)			Q	49	14'N, 20'E	Soil		X							
	7-G-8-C (8-10.75)			Q	49	14'N, 20'E	Soil		X							
	7-G-10-A			Ax	48	26'E	Soil									
	7-G-10-A (0-2)			Ax	48	26'E	Soil		X							
	7-G-10-A (4-7.9)			Ax	48	26'E	Soil		X							
	7-G-10-B			C	49	8'S, 4'W	Soil									
	7-G-10-B (2-4)			C	49	8'S, 4'W	Soil		X							
	7-G-10-B (4-6)			C	49	8'S, 4'W	Soil	X								
	7-G-10-C			Ax	48	12'E, 4'S	Soil									
	7-G-10-C (0-1.5)			Ax	48	12'E, 4'S	Soil		X							
	7-G-11-A			C	53	12'S, 20'W	Soil									
	7-G-11-A (2-4)			C	53	12'S, 20'W	Soil		X							
	7-G-11-A (4-6)			C	53	12'S, 20'W	Soil		X							
	7-G-11-B			C	53	5'N, 12'W	Soil									
	7-G-11-B (2-4)			C	53	5'N, 12'W	Soil		X							
	7-G-11-B (4-6.5)			C	53	5'N, 12'W	Soil		X							

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	7-G-11-C			C	53	5'N, 10'E	Soil									
	7-G-11-C (2-4)			C	53	5'N, 10'E	Soil	X								
	7-G-11-C (4-5.5)			C	53	5'N, 10'E	Soil		X							
13	7-L-1	o Outdoors, in northeastern corner of building - April 19, 1996	o UST found during audit in mid-1995, tank closed prior to 1982, not registered, no odors, no visual staining, materials pumped out and backfilled. See PLT-1480 Sheet, Task 2.	~~J~~	~~66~~	12'S, 4'W	Soil									
	7-L-1 (0-3.5)			~~J~~	~~66~~	12'S, 4'W	Soil	X								
14	7-M-1	o Used Oil Containment Area- outdoors along northeastern corner of bldg north of tanks 7-11 and 7-12 o Outdoors, northeastern corner of bldg. Evidence of leakage from oil collection sewer o Outdoors, northeastern area Mg brazing shed. o Central area, indoors.	o Low concentrations of PCBs and VOCs was found in waste oil storage area during 1995 reconstruction of the drain system and containment pad of 2 waste oil ASTs. o Outdoors, northeastern corner of bldg. Evidence of leakage from oil collection sewer discovered when installing oil tank containment. o Outdoors, northeastern area Mg brazing shed and former use of oils. o Rolling Mill Reclaiming Tanks & Pump House	PP	63	40'W and 125'N of PP63	Soil									
	7-M-1(2-4)			PP	63	40'W and 125'N of PP63	Soil	X								
	7-M-1 (5-7)			PP	63	40'W and 125'N of PP63	Soil	X								
	7-M-2			PP	63	72'W and 60'N of PP63 column	Soil									
	7-M-2 (0-2)			PP	63	72'W and 60'N of PP63 column	Soil	X								
	7-M-2 (6-7.8)			PP	63	72'W and 60'N of PP63 column	Soil	X								
	7-M-3			PP	63	20'W, 4'S	Soil									
	7-M-3 (6-8)			PP	63	20'W, 4'S	Soil	X								
	7-M-3 (10-11.7)			PP	63	20'W, 4'S	Soil	X								
	7-M-4			PP	63	95'W and 5'N of PP63	Soil									
	7-M-4 (4-6)			PP	63	95'W and 5'N of PP63	Soil	X								
	7-M-4 (6-8.4)			PP	63	95'W and 5'N of PP63	Soil	X								
	7-M-5			PP	63	10'N and 15'W of FF63	Soil									
	7-M-5 (0-2.6)			PP	63	10'N and 15'W of FF63	Soil	X								
	7-M-5 (4-7)			PP	63	10'N and 15'W of FF63	Soil	X								
	7-M-6			PP	63	20'W, 24'S	Soil									
	7-M-6 (2-4)			PP	63	20'W, 24'S	Soil	X								
	7-M-6 (4-4.75)			PP	63	20'W, 24'S	Soil	X								
15	7-P-1	o Acid flux room, south end of Bldg. 7	o Tin and zinc contamination detected in soil beneath the floor of the bldg., identified as being associated with releases from former sumps used for liquid flux storage. Extent of soil contamination has been identified. No groundwater investigation completed.	FF	3	14'N,9'W	GW									
	MW-7-P-1			FF	3	14'N,9'W	GW									
	MW-7-P-1 (111406)			FF	3	14'N,9'W	GW		X		X					
16	7-R-1	o Bldg. 7 summer of 1998 Delphi installed 2 press machines, excavated around manhole for an inactive sealed oil collection sewer o Die storage rack, 10' east of Column KK55 in Bldg. 7, cracks and seams that run north to south o On 6/5/1998 Delphi found through analytical testing of liquids in a manhole near column MM53, from an inactive oil collection system that PCBs were present.	o Testing of liquids found PCBs. o Employee complained that when use of forklift over area, oil "oozes" out from floor beneath. o PCBs found in liquid in manhole of inactive oil collection system	KK	57	5'E, 2'S	Soil									
	7-R-1 (0-2)			KK	57	5'E, 2'S	Soil			X		X				
	7-R-1 (6-8)			KK	57	5'E, 2'S	Soil			X		X				
	7-R-2			KK	55	9'N, 2'E	Soil									
	7-R-2 (2-4)			KK	55	9'N, 2'E	Soil			X		X				
	7-R-2 (4-4.8)			KK	55	9'N, 2'E	Soil			X		X				
	7-R-3			MM	47	8'E	Soil									
	7-R-3 (2-4)			MM	47	8'E	Soil			X		X				
	7-R-3 (6-7.5)			MM	47	8'E	Soil	X								
17	7-FF-1	o Northwestern corner of bldg. (indoors). Well - oil leaked through (train well) oil seep. o Along northeastern corner of building (indoors) - D-466 Presses	o Northwestern corner of bldg. Train well - oil leaked through. o Oil from D-466 presses entered from storm sewer via buried drains in old train and truck docks, oil recovery system was installed.	Ax	67	7'E	Soil									
	7-FF-1 (0-3.3)			Ax	67	7'E	Soil	X								
	7-FF-2			C	67	8'S, 18'W	Soil									
	7-FF-2 (0-4)			C	67	8'S, 18'W	Soil			X	X					
	7-FF-2 (4-5.6)			C	67	8'S, 18'W	Soil			X	X					
	7-FF-3			E	63	16'N, 1'E	Soil									
	8-001-A	o Chromate system trench repair -columns L-81 to S-83 o Former condenser lines 1 & 2 (columns N-103 - 113) o 8 former chrome sumps	o A breached spill containment trench was repaired in 2000. Soil samples were collected before repairs in areas where the concrete had been degraded and results indicated chromium concentrations up to 2,600 ppm. 16 tons of chromium contaminated debris (primarily concrete) was disposed off-site. o Degraded sewers were found when the condenser lines were decommissioned in 1999, contaminated soil was found and removed during demolition of containment features, sumps, sewers in 2000.	S	81	20'W, 7'N	Soil									
	8-001-A (6-8)			S	81	20'W, 7'N	Soil				X					
	8-001-A (8-10.2)			S	81	20'W, 7'N	Soil	X								
	8-001-B			N	107	4.5'N, 2.5'W	Soil									
	8-001-B (6-8)			N	107	4.5'N, 2.5'W	Soil				X					
	8-001-B (8-10)			N	107	4.5'N, 2.5'W	Soil				X					
	8-001-C			V	105	5'N, 5'E	Soil									
	8-001-C (2-4)			V	105	5'N, 5'E	Soil				X					

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18	8-001-C (4-6)		Approx. 60 tons of chromium contaminated debris was disposed off-site. o 8 former chrome sumps -7 locations found on maps; however, 6 boring locations were determined to be representative areas of former sumps.	V	105	5'N, 5'E	Soil				X					
	8-001-D			X	91	4'N, 4'W	Soil									
	8-001-D (0-2)			X	91	4'N, 4'W	Soil				X					
	8-001-D (2-4)			X	91	4'N, 4'W	Soil				X					
	8-001-E			Q	99	23'S, 2'W	Soil									
	8-001-E (0-2)			Q	99	23'S, 2'W	Soil				X					
	8-001-E (2-4)			Q	99	23'S, 2'W	Soil				X					
	8-001-F			Q	113	20'S, 6'W	Soil									
	8-001-F (0-2)			Q	113	20'S, 6'W	Soil				X					
	8-001-F (2-4)			Q	113	20'S, 6'W	Soil				X					
	8-001-G			S	103	21'E, 4'N	Soil									
	8-001-G (10-11)			S	103	21'E, 4'N	Soil				X					
	8-001-G (2-4)			S	103	21'E, 4'N	Soil				X					
	8-001-H			X	83	4'N	Soil									
	8-001-H (0-2)			X	83	4'N	Soil				X					
	8-001-H (8-9.6)			X	83	4'N	Soil				X					
	8-001-I			S	93	20'S, 3'W	Soil									
	8-001-I (4-6)			S	93	20'S, 3'W	Soil				X					
	8-001-I (6-8)			S	93	20'S, 3'W	Soil				X					
	8-001-J			V	81	23'S, 3'W	Soil									
	8-001-J (0-2)			V	81	23'S, 3'W	Soil				X					
	8-001-J (2-4)			V	81	23'S, 3'W	Soil				X					
19	8-002-A	o Outdoors, along north western corner. o North central area, outdoors, emergency dump tank with floor drains in paint booth.	o Three underground tanks (8,000-gal, naptha 8,000-gal, paint surge, 4,000-gal paint dump) removed in the area of columns C/E-(exterior to) 11/113 o Underground Paint Dump (or solvent) tank discovered during HTC installation. UST removed.	-	-	From east side of stairwell outside building just west of G113; 42E along wall and 5' out from wall	Soil									
	8-002-A (0-8)			-	-	From east side of stairwell outside building just west of G113; 42E along wall and 5' out from wall	Soil		X	X	X					
	8-002-A (8-8.5)			-	-	From east side of stairwell outside building just west of G113; 42E along wall and 5' out from wall	Soil		X	X	X					
	8-002-B			-	-	From lowest step of stairs (same as for 8-002-A); 2 feet west along wall and then 10' out from wall.	Soil									
	8-002-B (2-8)			-	-	From lowest step of stairs (same as for 8-002-A); 2 feet west along wall and then 10' out from wall.	Soil	X								
	8-002-B (8-10)			-	-	From lowest step of stairs (same as for 8-002-A); 2 feet west along wall and then 10' out from wall.	Soil		X	X	X					
	8-002-C			-	-	Stairwell near E113; 6'W of west side of stairwell, and 3'N from the building wall.	Soil									
	8-002-C (1.5-4)			-	-	Stairwell near E113; 6'W of west side of stairwell, and 3'N from the building wall.	Soil		X		X					
	8-002-C (4-6)			-	-	Stairwell near E113; 6'W of west side of stairwell, and 3'N from the building wall.	Soil		X		X					
20	8-003-A	o Outdoors, south - southeastern area (due southwest of pumphouse #2).	o Two 20,000-gallon underground fuel oil tanks removed.	-	-	28'S and 20'W of reference point RP to top of rock	Soil, GW									
	8-003-B			-	-	53'S and 5'W of RP	Soil, GW									
	MW-8-003-B			-	-	53'S and 5'W of RP	Soil, GW									
	MW-8-003-B (111006)			-	-	53'S and 5'W of RP	Soil, GW		X	X	X					
	8-003-C			-	-	53'S and 27'W of RP (must go below concrete anchor pad)	Soil, GW									
21	8-004-A	o Outdoors, southeastern corner	o Underground storage tank -1,000-gal gasoline removed	-	-	From outside corner closest to MM83; 25'S and 8'E	Soil									
	8-004-A (6-8)			-	-	From outside corner closest to MM83; 25'S and 8'E	Soil		X							
	8-004-A (8-10)			-	-	From outside corner closest to MM83; 25'S and 8'E	Soil		X							
	8-004-B			-	-	From outside corner closest to MM83; 6'S and 15'E	Soil									
	8-004-B (4-6)			-	-	From outside corner closest to MM83; 6'S and 15'E	Soil		X							
	8-004-B (6-8)			-	-	From outside corner closest to MM83; 6'S and 15'E	Soil	X								
	8-004-C			-	-	From outside corner closest to MM83; 28'S and 25'E	Soil									
	8-004-C (6-8)			-	-	From outside corner closest to MM83; 28'S and 25'E	Soil		X							

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	8-004-C (8-9.7)			-	-	From outside corner closest to MM83; 28'S and 25'E	Soil		X							
22	8-005-1	o Indoors throughout building. o Indoors, southwestern corner of building. o Indoors, eastern - central area. o Indoors. Northeastern area.	o Historical solvent degreasers located in this building. o Approximate historical location of D-868 TCE degreaser. Solvent odors present during floor replacement. o Approximate historical location of D-861 TCE degreaser#6, release to sewer 10/16/1987. o Historical solvent degreasers located in this building.	AX	105	15'S, 10'E	Soil									
	8-005-1 (10-11.6)			AX	105	15'S, 10'E	Soil	X								
	8-005-1 (6-8)			AX	105	15'S, 10'E	Soil		X	X	X	X				
	8-005-2-A			E	85	15'W	Soil									
	8-005-2-A (4-6)			E	85	15'W	Soil		X							
	8-005-2-A (6-8)			E	85	15'W	Soil	X								
	8-005-2-B			E	85	6'N	Soil									
	8-005-2-B (0-2)			E	85	6'N	Soil		X							
	8-005-2-B (2-4)			E	85	6'N	Soil		X							
	8-005-2-C			E	85	10'W, 20'S	Soil									
	8-005-2-C (2-4)			E	85	10'W, 20'S	Soil		X							
	8-005-2-C (4-6)			E	85	10'W, 20'S	Soil		X							
	8-005-3A			KK	85	5'N	Soil									
	8-005-3A (6-8)			KK	85	5'N	Soil		X							
	8-005-3A (8-10)			KK	85	5'N	Soil		X							
	8-005-3B			HH	85	2'N, 8.5'E	Soil									
	8-005-3B (6-8)			HH	85	2'N, 8.5'E	Soil		X							
	8-005-3B (8-9)			HH	85	2'N, 8.5'E	Soil		X							
	8-005-3C			FF	85	3'N, 11E	Soil									
	8-005-3C (4-6)			FF	85	3'N, 11E	Soil		X							
	8-005-3C (8-10)			FF	85	3'N, 11E	Soil	X								
	8-005-4A			PP	91	15'W, 15'S	Soil									
	8-005-4A (10-12)			PP	91	15'W, 15'S	Soil		X							
	8-005-4A (6-8)			PP	91	15'W, 15'S	Soil		X							
	8-005-4B			MM	91	24'W, 12'S	Soil									
	8-005-4B (2-4)			MM	91	24'W, 12'S	Soil		X							
	8-005-4B (4-4.5)			MM	91	24'W, 12'S	Soil		X							
	8-005-4C			KK	91	20'W, 30'S	Soil									
	8-005-4C (6-8)			KK	91	20'W, 30'S	Soil		X							
	8-005-4C (8-10)			KK	91	20'W, 30'S	Soil		X							
	8-005-4D			FF	91	15'S	Soil									
	8-005-4D (2-4)			FF	91	15'S	Soil		X							
	8-005-4D (8-10)			FF	91	15'S	Soil		X							
	8-005-4E			DD	91	20'S, 2'E	Soil									
	8-005-4E (2-4)			DD	91	20'S, 2'E	Soil		X							
	8-005-4E (4-6)			DD	91	20'S, 2'E	Soil		X							
	8-005-4E (2-4)			DD	91	20'S, 2'E	Soil	X								
	8-005-5A			KK	97	5'S, 3'W	Soil									
	8-005-5A (2-4)			KK	97	5'S, 3'W	Soil		X							
	8-005-5A (4-6)			KK	97	5'S, 3'W	Soil		X							
	8-005-5B			KK	101	5'S, 9'E	Soil									
	8-005-5B (2-4)			KK	101	5'S, 9'E	Soil		X							
	8-005-5B (4-6)			KK	101	5'S, 9'E	Soil		X							
	8-005-5C			KK	109	16'E	Soil									
	8-005-5C (0-2)			KK	109	16'E	Soil		X							
	8-005-5D			KK	109	16'E, 35'N	Soil									
	8-005-5D (4-6)			KK	109	16'E, 35'N	Soil		X							
	8-005-5D (6-8)			KK	109	16'E, 35'N	Soil		X							
	8-005-5D (6-8)			KK	109	16'E, 35'N	Soil	X								
	8-006-A	o Northeast corner- indoors - historic press operations	o Northeast corner- indoors - historic press operations	FF	109	7.5'S, 7.5'E	Soil									
	8-006-A (4-6)			FF	109	7.5'S, 7.5'E	Soil				X					
	8-006-A (8-10.5)			FF	109	7.5'S, 7.5'E	Soil				X					
	8-006-B			DD	109	8'S,7'W	Soil									
	8-006-B (6-8)			DD	109	8'S,7'W	Soil				X					
	8-006-B (8-8.8)			DD	109	8'S,7'W	Soil	X								
	8-006-C			BB	109	7'S,3'E	Soil									
	8-006-C (2-4)			BB	109	7'S,3'E	Soil		X	X	X	X				

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23	8-006-C (4-6)			BB	109	7'S,3'E	Soil		X	X	X	X				
	8-006-D			Z	109	7'S,1'W	Soil									
	8-006-D (2-4)			Z	109	7'S,1'W	Soil		X	X	X	X				
	8-006-D (6-8)			Z	109	7'S,1'W	Soil		X	X	X	X				
	8-006-E			BB	111	7'N,17'W	Soil									
	8-006-E (2-4)			BB	111	7'N,17'W	Soil		X	X	X	X				
	8-006-E (8-10)			BB	111	7'N,17'W	Soil		X	X	X	X				
	8-006-F			HH	111	20'S,20'W	Soil									
	8-006-F (0-1.5)			HH	111	20'S,20'W	Soil		X	X	X	X				
	8-006-F (1.5-2.7)			HH	111	20'S,20'W	Soil		X	X	X	X				
24	8-009-A	o Southeastern corner - outdoors - OWS	o Southeastern corner in pumphouse #2- indoors - has OWS - may be historic issues	-	-	10'N and 5'E of SE corner of Pumphouse # 2	Soil									
	8-009-A (0-2)			-	-	10'N and 5'E of SE corner of Pumphouse # 2	Soil		X	X	X	X				
	8-009-A (2-3.6)			-	-	10'N and 5'E of SE corner of Pumphouse # 2	Soil		X	X	X	X				
	8-009-B			-	-	10'W and 2'S of SE corner of Pumphouse # 2	Soil									
	8-009-B (0-2)			-	-	10'W and 2'S of SE corner of Pumphouse # 2	Soil		X	X	X	X				
	8-009-B (4-6.7)			-	-	10'W and 2'S of SE corner of Pumphouse # 2	Soil	X								
25*	8-010	o Southwest corner, indoors- oil contamination at scrap dock	o Southwest corner, indoors- oil contamination at scrap dock													
26*	8-011	o Southeastern corner- catch basin, outdoors	o Southeastern corner- catch basin, outdoors													
27*	--	o Outdoors, southeastern corner of building	o TCE detected in soil 11/16/94 during an excavation to repair sprinkler lines. Site of historical aboveground TCE storage tanks													
28*	--	o Outdoors, southeastern corner	o Removal of tank -10,000-gallon TCE aboveground tank (8-18) disturbed and moved due to line break 11/1994													
29	9-100-A	o Outdoors along southeastern area of building, near column 9J-81.	o Underground gasoline tank closed in place 2,000-gal. gasoline.	-	-	10'W and 12'N of SW corner loading dock, interior column 9J79	Soil									
	9-100-A (2-4)			-	-	10'W and 12'N of SW corner loading dock, interior column 9J79	Soil	X								
	9-100-A (6-7.3)			-	-	10'W and 12'N of SW corner loading dock, interior column 9J79	Soil		X		X					
	9-100-B			-	-	2'W and 10'S of SW corner of SW loading dock	Soil									
	9-100-B (2-4)			-	-	2'W and 10'S of SW corner of SW loading dock	Soil		X		X					
	9-100-B (6-6.9)			-	-	2'W and 10'S of SW corner of SW loading dock	Soil		X		X					
	9-100-C			-	-	23'W and 1.5'N of SW corner of SE loading dock	Soil									
	9-100-C (0-2)			-	-	23'W and 1.5'N of SW corner of SE loading dock	Soil		X		X					
	9-100-C (4-6)			-	-	23'W and 1.5'N of SW corner of SE loading dock	Soil		X		X					
30	9-101-A	o Outdoors along southwestern area of building.	o Two 20,000-gallon underground fuel 9-21 & 9-22. Removed on 12/1990.	-	-	19'W and 24'S of SW corner of Bldg. 9, exterior adjacent to column 9DD79	Soil, GW									
	MW-9-101-A			-	-	19'W and 24'S of SW corner of Bldg. 9, exterior adjacent to column 9DD79	Soil, GW									
	MW-9-101-A (10-12')			-	-	19'W and 24'S of SW corner of Bldg. 9, exterior adjacent to column 9DD79	Soil, GW		X	X	X					
	MW-9-101-A (8-10)			-	-	19'W and 24'S of SW corner of Bldg. 9, exterior adjacent to column 9DD79	Soil, GW	X								
31	9-102-A	o Historic oil spill at 9KK - 9MM o Sump beneath oil tanks at loading dock along southwestern corner	o Historic oil spill at column 93. o Sump beneath oil tanks at loading dock along southwestern corner	MM	79	15.5'W,12'N	Soil									
	9-102-A (0-4)			MM	79	15.5'W,12'N	Soil	X								
	9-102-B			KK	93	7'N,12'W	Soil									
	9-102-B (0-2)			KK	93	7'N,12'W	Soil		X	X		X				
	9-102-B (2-3.6)			KK	93	7'N,12'W	Soil		X	X		X				
	9-102-C			MM	93	18'S,10'W	Soil									
	9-102-C (0-2)			MM	93	18'S,10'W	Soil		X	X		X				
	9-102-C (2-4)			MM	93	18'S,10'W	Soil		X	X		X				
	9-102-D			KK	91	13'N, 6.5'W	Soil									
	9-102-D (0-2)			KK	91	13'N, 6.5'W	Soil		X	X		X				

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	9-102-D (2-4)			KK	91	13'N, 6.5'W	Soil		X	X		X				
	9-102-E			HH	93	15'E	Soil									
	9-102-E (0-4)			HH	93	15'E	Soil		X	X		X				
32	9-108-A	o Southern Portion of Bldg.	o Oil leaked from non-treated sewer in 1994, southern portion of bldg. partially outside and in dock.	RP	108	70'W and 12.5'S of RP108	Soil									
	9-108-A (0-4)			RP	108	70'W and 12.5'S of RP108	Soil		X	X	X	X				
	9-108-A (4-8)			RP	108	70'W and 12.5'S of RP108	Soil		X	X	X	X				
	9-108-B			RP	108	135'W and 12.5'S of RP108	Soil									
	9-108-B (0-4)			RP	108	135'W and 12.5'S of RP108	Soil		X	X	X	X				
	9-108-B (4-8)			RP	108	135'W and 12.5'S of RP108	Soil		X	X	X	X				
	9-108-C			RP	108	12.5S and 9'W of RP108-A	Soil									
	9-108-C (0-4)			RP	108	12.5S and 9'W of RP108-A	Soil		X	X	X	X				
	9-108-C (4-8)			RP	108	12.5S and 9'W of RP108-A	Soil		X	X	X	X				
	9-108-D			9DD	83	5'N, 12'E	Soil									
	9-108-D (6-8)			9DD	83	5'N, 12'E	Soil	X								
	9-108-D (8-10)			9DD	83	5'N, 12'E	Soil		X	X	X	X				
	9-108-E			9N	83	5'N, 12'E	Soil									
	9-108-E (0-2)			9N	83	5'N, 12'E	Soil		X	X	X	X				
	9-108-E (8-10.7)			9N	83	5'N, 12'E	Soil		X	X	X	X				
33	10-103-A	o Outdoors along northwestern corner of building.	o 1000-gallon underground gasoline tank, 10-25, filled in place with concrete on 12/1986	-	-	11'N and 12'W of inside corner closest to WL63	Soil									
	10-103-A (0-2)			-	-	11'N and 12'W of inside corner closest to WL63	Soil		X	X	X					
	10-103-A (4-4.3)			-	-	11'N and 12'W of inside corner closest to WL63	Soil		X	X	X					
	10-103-B			-	-	20'N and 6'W of inside corner closest to WL63	Soil									
	10-103-B (2-4)			-	-	20'N and 6'W of inside corner closest to WL63	Soil	X					X			
	10-103-B (4-5.1)			-	-	20'N and 6'W of inside corner closest to WL63	Soil		X	X	X					
34	10-104-A	o Outdoors along southwestern corner of building.	o Underground gas tank 10-1 2,000-gal gasoline.	-	-	17'N and 20'W of outside corner closest to WR45	Soil									
	10-104-A (0-2)			-	-	17'N and 20'W of outside corner closest to WR45	Soil		X	X	X		X			
	10-104-B			-	-	4'S and 4'W of outside corner closest to WR45	Soil									
35	10-105	o Outdoors, west central area.	o Evidence of soil staining - salvage equipment storage --- runoff.	WY	34	45'W of building wall at location of column WY34/ 10'E of treated industrial- center of manhole	Soil									
	10-105 (0-2')			WY	34	45'W of building wall at location of column WY34/ 10'E of treated industrial- center of manhole	Soil	X								
36	10-106	o Painting operations w/hex chromate	o Historic painting operations.	WV	41	16'W	Soil									
	10-106 (4-6)			WV	41	16'W	Soil	X								
	10-106 (8-9.3)			WV	41	16'W	Soil		X		X					
37	10-107-A	o Soil excavation for sump-indoors near WK45	o Soil excavation for sump- indoors near WK45 revealed PCE and naphthalene in soils.	WK	45	6'E	Soil									
	10-107-A (2-4)			WK	45	6'E	Soil	X								
	10-107-A (6-8)			WK	45	6'E	Soil				X					
	10-107B			WK	45	7.5', 0.5'W	Soil									
	10-107B (2-4)			WK	45	7.5', 0.5'W	Soil				X					
	10-107B (4-6)			WK	45	7.5', 0.5'W	Soil				X					
38	15-112-A	o Outdoors southwestern corner of building.	o Underground gasoline (15-49) and kerosene tanks closed in place.	-	-	4'S of western SW corner of Bldg. 15	Soil									
	15-112-B			-	-	20'S and 10'E of west, SW corner of Bldg. 15	Soil									
	18-110-A	o Tanks 18-39 and 18-40-	o Gasoline and Diesel USTs removed.	-	-	88'S and 12'E of SW corner of Bldg. 18	Soil									

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39	18-110-A (4-6)	5,000-gal and 2,000-gal diesel USTs removed in 8/1990.		-	-	88'S and 12'E of SW corner of Bldg. 18	Soil		X	X	X					
	18-110-A (6-7.4)			-	-	88'S and 12'E of SW corner of Bldg. 18	Soil		X	X	X					
	18-110-B			-	-	40'E and 85'S of SW corner of Bldg. 18	Soil									
	18-110-B (2-4)			-	-	40'E and 85'S of SW corner of Bldg. 18	Soil		X	X	X					
	18-110-B (4-6)			-	-	40'E and 85'S of SW corner of Bldg. 18	Soil		X	X	X					
	18-110-C			-	-	98'S and 16'E of SE corner of Bldg. 18	Soil									
	18-110-C (6-8)			-	-	98'S and 16'E of SE corner of Bldg. 18	Soil		X	X	X					
	18-110-C 8-10.2)			-	-	98'S and 16'E of SE corner of Bldg. 18	Soil	X								
40*	18	o North central area	o Vehicle steam cleaning booth													
41*	18	o Oil spill to storm ditch north of bldg.	o Hydraulic oil (vol. not recorded) was spilled from scrap equipment to the pavement north of bldg. then flowed to drainage ditch. Oil was found in absorbent booms.													
42*	All Bldgs.	o All Bldgs. All contiguous area of wood block.														
43*	10,14,16,17	Western side of property.	o Miscellaneous drain pipes go out to creek.													
44	116-1	o Central Creek Area		-	-	Located by GPS & Staked - See Figure	Soil									
	116-1 (0-8)			-	-	Located by GPS & Staked - See Figure	Soil	X								
	116-2			-	-	85'E and 49'N of Surveyed BM	Soil									
	116-2 (0-1.8)			-	-	85'E and 49'N of Surveyed BM	Soil		X	X	X	X				
	116-3			-	-	Located by GPS & Staked - See Figure	Soil									
	116-3 (0-1)			-	-	Located by GPS & Staked - See Figure	Soil		X	X	X	X				
	116-4			-	-	Located by GPS & Staked - See Figure	Soil									
	116-4 (0-10)			-	-	Located by GPS & Staked - See Figure	Soil		X	X	X	X				
45*	TK-6	o Existing GW conditions site wide o Area associated with western bulk storage petroleum tanks	o Area associated with western bulk storage petroleum tanks	-	-	Near bulk storage petroleum tanks along western area property	GW									
	TK-6 (110806)			-	-	Near bulk storage petroleum tanks along western area property	GW		X	X	X					
	TK-4			-	-	Near bulk storage petroleum tanks along western area property	GW									
	TK-4 (110806)			-	-	Near bulk storage petroleum tanks along western area property	GW	X								
46	114-1	o Near Outfall 002 o Outfall 002 o Underground pipe leak from the chrome collection system btwn. Pumphouse #2 and Road #3 stormwater outfall	o Sheen and staining in areas. o Underground chrome line - to stream bank. May be historical issues. o Wooden floor blocks uncovered during excavation of stormwater outfall 002 on 10/13/1989. o Chrome was detected at the WWTP equalization tank, positive results for chrome @ SW outfall at Road 3, yellow water was discovered coming from ground at several locations w/I 60 foot area east of cooling towers #7-1.	-	-	Located by GPS & Staked - See Figure	Soil									
	114-1 (6-8)			-	-	Located by GPS & Staked - See Figure	Soil	X								
	114-2			-	-	Located by GPS & Staked - See Figure	Soil									
	114-2 (0-8)			-	-	Located by GPS & Staked - See Figure	Soil		X	X	X	X				
	114-3			-	-	Located by GPS & Staked - See Figure	Soil									
	114-3 (0-1)			-	-	Located by GPS & Staked - See Figure	Soil				X					
	114-4			-	-	Located by GPS & Staked - See Figure	Soil									
	114-4 (0-8)			-	-	Located by GPS & Staked - See Figure	Soil		X	X	X	X				
47	113-1	o Pumphouse #1	o Pumphouse I analytical results	-	-	Located by GPS & Staked - See Figure	Soil									
	113-1 (0-1)			-	-	Located by GPS & Staked - See Figure	Soil	X								
	113-2			-	-	9'E and 47'N of NE Corner of Pump House #1	Soil									
	113-2 (1-2.7)			-	-	9'E and 47'N of NE Corner of Pump House #1	Soil		X	X		X				
	113-3			-	-	Located by GPS & Staked - See Figure	Soil									
	113-3 (0-1.5)			-	-	Located by GPS & Staked - See Figure	Soil		X	X		X				
48	GS-A	o General Sewers. Identified in CCS as AOI 109.	o General Sewers.	-	-	123'S of SE corner of Bldg. #7A	Soil									
	GS-A (0-2)			-	-	123'S of SE corner of Bldg. #7A	Soil	X								
	GS-A (4-6)			-	-	123'S of SE corner of Bldg. #7A	Soil		X	X	X	X				
	GS-B			-	-	60'S and 40'E of SE corner of Bldg. 12	Soil									
	GS-B (2-4)			-	-	60'S and 40'E of SE corner of Bldg. 12	Soil		X	X	X	X				
	GS-B (4-5.1)			-	-	60'S and 40'E of SE corner of Bldg. 12	Soil		X	X	X	X				
	GS-C			-	-	249'S and 145'E of SE corner of Bldg. 8	Soil									
	GS-C (0-2)			-	-	249'S and 145'E of SE corner of Bldg. 8	Soil		X	X	X	X				
	GS-C (2-4)			-	-	249'S and 145'E of SE corner of Bldg. 8	Soil		X	X	X	X				
	GS-D			-	-	40'N and 25'E of NE corner of Bldg. 8	Soil									

TABLE 1
SUMMARY OF SAMPLE LOCATIONS AND ANALYTICAL TESTS
DELPHI THERMAL, LOCKPORT, NEW YORK

AOI #	Well \ Boring #	AOI Location	AOI Description	Column Ref.	Col. No.	Location	Matrix	TCL VOCs/ TCL SVOCs/TAL Metals/Cr6/PCBs	TCL VOCs	SVOCS (PAHs)	RCRA Metals & Cr6	PCBs	Cyranide	Sulfate	Iron	pH
	GS-D (0-2)			-	-	40'N and 25'E of NE corner of Bldg. 8	Soil		X	X	X	X				
	GS-D (2-4)			-	-	40'N and 25'E of NE corner of Bldg. 8	Soil		X	X	X	X				
	GS-F			-	-	49'N and 3'W of D 3-7 Fire Line PIV	Soil									
	GS-F (0-2)			-	-	49'N and 3'W of D 3-7 Fire Line PIV	Soil		X	X	X	X				
	GS-F (2-3.8)			-	-	49'N and 3'W of D 3-7 Fire Line PIV	Soil		X	X	X	X				
49	WWTP-115	o Northern area of WWTP	o Acid Tank	-	-	TBD	Soil									
	88-WWTP-115 (0-2)	o Eastern-central area of WWTP	o Acid tank and fuel oil tank	-	-	TBD	Soil		X	X	X					X
	88-WWTP-115 (2-4)		o Chrome tank had a pinhole leak.	-	-	TBD	Soil		X	X	X					
	89-WWTP-115 (0-2)	o Chrome tank had a pinhole leak.	o Northern area of WWTP- historical wastewater lagoon	-	-	TBD	Soil	X								
50*	--	o Area associated with former sludge drying beds along west side of facility	o Unlined drying beds for drying WWTP sludge. Closure conducted under consent order w/NYSDEC. Removed off state registry in 1996.	-	-											
				-	-											
				-	-											
				-	-											

Notes: * Indicates that no sampling was conducted with this specific AOI due to either existing data, NYSDEC closure, and/or a visual inspection was conducted .
** No sample taken due to boring refusal
-- Indicates no associated sampling ID
- Indicates not applicable
The first sample I.D. i.e 6-B-1 does not have associated analysis marked with an "X" because the specific depth intervals indicate which parameters were selected for analysis.

TABLE 2
SUMMARY OF GROUNDWATER DEVELOPMENT PARAMETERS
FIELD DATA
DELPHI CORPORATION - WEST LOCKPORT COMPLEX, LOCKPORT, NY
ERM PROJECT NUMBER 0056607

	SAMPLE DESIGNATION								
sample designation	**MW-6-F-1**	**MW-6-F-5**	**TK-4**	**TK-6**	**MW-7-A-6**	**MW-7-C-2**	**MW-7-P-1**	**MW-8-03-B**	**MW-9-101-A**
date	**11/8/2006**	**11/8/2006**	**11/8/2006**	**11/8/2006**	**11/10/2006**	**11/10/2006**	**11/14/2006**	**11/11/2006**	**11/10/2006**
Field Data									
Temperature (Degrees Celcius)	15.13	15.55	13.81	14.86	15.27	14.05	21.52	13.90	13.42
pH (standard units)	6.83	7.66	8.28	7.88	9.32	7.73	6.46	7.69	10.79
Conductivity (mS/cm)	2.103	0.012	1.104	0.540	1.521	1.300	8.710	1.772	1.273
Dissolved Oxygen (mg/L)	6.39	4.26	7.70	7.70	6.70	8.28	6.33	7.56	10.10
Oxygen Reduction Potential (mV)	-157.8	-126.6	9.5	30.6	-2.8	22.1	67.5	4.7	-137.6
Turbidity (NTU)	6.29	6.72	0.80	6.35	48.5	13.9	36.0	5.45	44.1
Total Volume Purged (Gallons)	24	20	17	7	9	8.5	1	6.5	6.5

NOTES:

mS/cm - MilliSiemens per Centimeter
mg/L - Milligrams per Liter
mV - Millivolt
NTU - Nephelometric Turbidity Units

TABLE 3

SUMMARY OF EXCEEDANCES IN SOIL -DELPHI THERMAL- LOCKPORT, NY

Sample_ID	1.1.1-Trichloroethane	1.1-Dichloroethane	1.1-Dichloroethene	1.2-Dichlorobenzene	1.2-Dichloroethane	1.2-Dichloroethene (Total)	1.3-Dichlorobenzene	1.4-Dichlorobenzene	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroform	Ethylbenzene	Hexachlorobenzene	Methylene chloride	Tetrachloroethene	Toluene	Total Xylenes	Trichloroethene	Vinyl chloride	Acenaphthene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Arsenic - Total	Barium - Total	Cadmium - Total	Copper - Total	Hexavalent Chromium - Total	Lead - Total	Manganese - Total	Mercury - Total	Nickel - Total	Selenium - Total	Silver - Total	Zinc - Total	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
Unrestricted	0.68	0.27	0.33	1.1	0.02	0.44	2.4	1.8	0.05	0.06	0.76	1.1	0.37	1	0.33	0.05	1.3	0.7	.26	0.47	0.02	20	1	1	1	0.8	1	0.33	100	30	0.5	12	0.8	100	0.33	100	13	350	2.5	50	1	63	1600	0.2	30	3.9	2	109	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Commercial	500	240	500	500	30	1000	280	130	500	44	22	500	350	390	6	500	150	500	500	200	13	500	5.6	1	5.6	56	56	0.56	500	500	5.6	500	6.7	500	500	500	16	400	9.3	270	400	1000	10000	2.8	310	1500	1500	10000	1	1	1	1	1	1	1
Industrial	1000	480	1000	1000	60	2000	560	250	1000	89	44	1000	700	780	12	1000	300	1000	1000	400	27	1000	11	1.1	11	110	110	1.1	1000	1000	11	1000	55	1000	1000	1000	16	10000	60	10000	800	3900	10000	5.7	10000	6800	6800	10000	25	25	25	25	25	25	25
All units in Mg/Kg																																																									
10-103-A(0-2) 10/9/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-103-A(4-4.3) 10/9/2006	-	-	-	-	.14U	-	-	-	.089	.14U	-	-	-	-	-	.29D	-	-	6.7D	-	.29U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-103-B(2-4) 10/9/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	363	-	-	-	-	-	-	-
10-103-B(4-5.1) 10/9/2006	-	-	-	-	.13U	-	-	-	.073	.083	-	-	-	-	-	.23B	-	-	3.2D	-	.26U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-104-A(0-2) 10/9/2006	-	-	-	-	-	-	-	-	.06	-	-	-	-	-	-	-	-	-	-	-	-	34U	34U	34U	34U	34U	34U	34U	-	-	34U	34U	-	-	-	-	-	-	-	-	1.5U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-104-AR (2-4) 10/10/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.7U	6.7U	6.7U	6.7U	6.7U	6.7U	-	-	6.7U	-	-	-	-	-	-	-	-	-	1.5U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-104-AR (4-4.9) 10/10/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	1.6U	-	-	-	-	-	211	-	-	-	-	-	-	-
10-104-B(4-5.8) 10/9/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U	-	-	1.5U	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-105(0-2) 11/14/2006	-	-	-	3.9U	-	-	3.9U	3.9U	-	-	-	-	-	-	3.9U	-	-	-	-	-	-	-	-	-	-	-	-	3.9U	-	-	-	-	19U	-	3.9U	-	-	-	22.3	226	-	343	-	-	80.8	-	-	2020	-	-	-	.18	.14
10-106 (4-6) 10/10/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	255	-	-	-	-	-	-	-
10-106 (8-9.3) 10/10/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-107-A (2-4) 10/10/2006	3U	3U	3U	-	3U	6U	-	-	15U	3U	3U	3U	3U	3U	-	2.3D	270D	3U	-	3U	6U	-	-	-	-	-	-	-	-	-	-	-	1.9U	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-107-A (6-8) 10/10/2006	-	.55U	.55U	-	.55U	1.1U	-	-	2.4D	.55U	-	-	.55U	-	-	.97D	25D	-	-	-	1.1U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-107-B (2-4) 10/10/2006	1.4U	1.4U	1.4U	-	1.4U	2.9U	-	-	7.2U	1.4U	1.4U	1.4U	1.4U	1.4U	-	2.1D	59D	1.4U	-	1.4U	2.9U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-107-B (4-6) 10/10/2006	3U	3U	3U	-	3U	6U	-	-	15U	3U	3U	3U	3U	3U	-	3.2	220	3U	9U	3U	6U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
113-1 (0-1) 10/27/2006	-	-	-	9.6U	-	-	9.6U	9.6U	-	-	-	-	-	-	9.6U	-	-	-	-	-	-	-	24	19	26	10	24	3.5J	-	-	11	-	46U	-	9.6U	-	-	-	-	81.1	2.2U	426	-	-	-	5.7U	-	316	-	-	-	.26	-	.15	-
113-2 (1-2.7) 10/18/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6J	1.6J	2.2J	-	1.6J	-	-	-	1.1J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
113-3 (0-1.5) 10/27/2006	-	-	-	-	-	-	-	-	.073	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
114-1 (6-8) 10/27/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.43U	-	-	-	-	-	-	-	-	-	-	-	-	.43U	-	-	-	2.1U	-	.43U	-	-	-	-	-	2U	-	2340	-	-	5.1U	-	213	-	-	-	-	-	-	-
114-2 (0-0.675) 10/27/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
114-3 (0-1) 10/27/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9U	-	-	-	-	4.9U	-	-	-	-	-	-	-	-	-
114-4 (0-0.675) 10/27/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.45U	-	-	-	-	-	-	-	-	-	-	-	-	2.1U	-	-	-	-	5.4U	17.2	-	-	-	-	-	-	-
116-1 (0-0.675) 10/27/2006	-	-	-	9.5U	-	-	9.5U	9.5U	.077	-	-	-	-	-	9.5U	-	-	-	-	-	-	-	22	18	24	9.3J	22	3.8J	-	-	12	-	46U	-	9.5U	-	-	-	-	106	2.2U	356	-	-	-	5.9U	-	313	.23	.23	.23	.23	2.1	.23	.23
116-2 (0-1.8) 10/18/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	4.9U	-	-	-	-	-	-	-	-	-
116-3 (0-1) 10/27/2006	-	-	-	-	-	-	-	-	.052	-	-	-	-	-	-	-	-	-	-	-	-	-	3.9J	3.3J	4.7	1.4J	4.3	.65J	-	-	2J	-	-	-	-	-	-	400	-	-	2U	142	-	-	-	5.3U	-	-	-	-	-	-	-	-	-
116-4 (0-0.85) 10/27/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36J	28J	55	59	38J	6.1J	-	-	19J	13J	-	-	-	-	-	-	-	-	2.1U	289	-	-	-	5.2U	-	-	-	-	-	-	.19	-
15-112-A(4-6) 10/11/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9U	-	-	-	-	-	-	-	1.8U	-	-	-	-	4.9U	-	-	-	-	-	-	-	-	-
15-112-A(6-6.8) 10/11/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.49U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-112-BR (4-6) 10/12/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.6U	3.6U	3.6U	3.6U	-	3.6U	-	-	3.6U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-112-BR (6-6.8) 10/12/2006	-	-	-	-	.027	-	-	-	-	-	-	-	-	-	-	.06B	-	-	.95	-	.054	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18-110-A(4-6) 10/11/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18-110-A(6-7.4) 10/11/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	4.9U	-	-	-	-	-	-	-	-	-
18-110-B(2-4) 10/11/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18-110-B(4-6) 10/11/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 3

SUMMARY OF EXCEEDANCES IN SOIL -DELPHI THERMAL- LOCKPORT, NY

Sample_ID	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloroethene (Total)	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroform	Ethylbenzene	Hexachlorobenzene	Methylene chloride	Tetrachloroethene	Toluene	Total Xylenes	Trichloroethene	Vinyl chloride	Acenaphthene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Arsenic - Total	Barium - Total	Cadmium - Total	Copper - Total	Hexavalent Chromium - Total	Lead - Total	Manganese - Total	Mercury - Total	Nickel - Total	Selenium - Total	Silver - Total	Zinc - Total	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
Unrestricted	0.68	0.27	0.33	1.1	0.02	0.44	2.4	1.8	0.05	0.06	0.76	1.1	0.37	1	0.33	0.05	1.3	0.7	.26	0.47	0.02	20	1	1	1	0.8	1	0.33	100	30	0.5	12	0.8	100	0.33	100	13	350	2.5	50	1	63	1600	0.2	30	3.9	2	109	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Commercial	500	240	500	500	30	1000	280	130	500	44	22	500	350	390	6	500	150	500	500	200	13	500	5.6	1	5.6	56	56	0.56	500	500	5.6	500	6.7	500	500	500	16	400	9.3	270	400	1000	10000	2.8	310	1500	1500	10000	1	1	1	1	1	1	1
Industrial	1000	480	1000	1000	60	2000	560	250	1000	89	44	1000	700	780	12	1000	300	1000	1000	400	27	1000	11	1.1	11	110	110	1.1	1000	1000	11	1000	55	1000	1000	1000	16	10000	60	10000	800	3900	10000	5.7	10000	6800	6800	10000	25	25	25	25	25	25	25
All units in Mg/Kg																																																									
18-110-C(6-8) 10/11/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-
18-110-C(8-10.2) 10/11/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	1.6U	-	-	-	-	-	-	-	-	-	-	-	-
6-A-3 (4-6) 10/24/2006	-	-	-	3.6U	-	-	3.6U	3.6U	-	-	-	-	-	-	3.6U	-	-	-	-	-	-	-	-	-	-	3.6U	-	3.6U	-	-	-	-	17U	-	3.6U	-	-	-	-	-	-	-	1680	-	-	-	-	-	-	-	-	-	-	-
6-A-4 (4-6) 10/18/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5U	-	-	-	-	-	-	-	-
6-A-4 (6-8) 10/18/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.5U	-	-	-	-	-	-	-	-
6-B-1 (4-6) 10/24/2006	-	-	-	-	-	-	-	-	.11	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U	-	-	1.9U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6-B-1 (8-10) 10/24/2006	-	-	-	7U	-	-	7U	7U	.07	-	-	-	-	-	7U	-	-	-	-	-	-	-	-	1.1J	1.4J	-	-	7U	-	-	.92J	-	34U	-	7U	-	-	-	-	39.1	-	-	-	-	-	9240	-	-	-	-	-	-	-	-
6-C-1 (0-2) 10/27/2006	-	-	-	-	.027	-	-	-	.059J	.14U	-	-	-	-	-	.15D	2.1D	-	-	-	.054	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6-C-1 (2-3.5) 10/27/2006	-	-	-	-	.027	-	-	-	-	-	-	-	-	-	-	.056	-	-	-	-	.055	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6-C-2 (0-2.5) 10/27/2006	-	-	-	-	.028	-	-	-	1.7D	.14U	-	-	-	-	-	.14D	8.1D	-	-	-	.28U	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6-C-3 (0-2) 10/27/2006	-	-	-	-	.025	-	-	-	.056J	.15U	-	-	-	-	-	.053	1.9D	-	-	-	.051	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6-C-3 (2-4) 10/27/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6-D-2 (4-6) 10/27/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	1.6U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-A-4 (0-2) 10/16/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-A-4 (6-8) 10/16/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-A-5 (0-2) 10/16/2006	-	.59U	.59U	-	.59U	-	-	-	2.3D	.59U	-	-	.59U	-	-	.37D	38D	-	-	1.3D	1.2U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-A-5 (4-6) 10/16/2006	-	.68U	.68U	-	.68U	1.4U	-	-	3.4U	.68U	-	-	.68U	-	-	.36J	61	-	2U	.68U	1.4U	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	1.6U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-A-6 (4-6) 10/16/2006	5.6U	5.6U	5.6U	-	5.6U	11U	-	-	73D	5.6U	5.6U	5.6U	5.6U	5.6U	-	4.4D	120D	5.6U	-	5.6U	11U	-	-	-	-	3.6U	-	3.6U	-	-	3.6U	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-A-6 (6-8) 10/16/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-A-7 (4-6) 10/16/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	2.6	-	-	-	-	-	-	-	-	-	-	-
7-A-7 (6-8) 10/16/2006	-	-	-	-	.026	-	-	-	.13U	-	-	-	-	-	-	-	-	-	-	-	.051	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-A-8 (0-2) 10/16/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-A-8 (2-4) 10/16/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-A-9 (8-10) 10/16/2006	-	-	-	-	.14U	-	-	-	1.8	.14U	-	-	-	-	-	.18B	1.5	-	-	-	.28U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-A-DUP 10/16/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-B-1 (6-8) 10/31/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-B-1 (8-9.4) 10/31/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	3.8	-	-	-	-	-	329	-	-	-	-	-	-	-
7-B-2 (0-3.8) 10/31/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-B-3 (0-3) 10/26/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-C-2 (0-2) 10/17/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.8	7.2J	9.7	3.6J	9.6	1.8J	-	-	5J	-	-	-	-	-	-	-	-	-	-	297	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-C-2 (9-10) 10/17/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.2U	-	4.2U	-	-	4.2U	-	-	-	-	-	-	-	-	-	-	1.9U	109	-	-	-	5U	-	-	-	-	-	-	-	-	-
7-C-3 (2-4) 10/25/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	46	25	35	11	30	3J	-	60	9.4	20	-	-	-	-	-	-	-	-	-	1.8U	163	-	-	-	4.9U	-	-	-	-	-	-	-	-	-
7-C-3 (2-4) DL 10/25/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	170D	-	-	-	-	220D	-	110D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-C-3 (8-10) 10/25/2006	-	-	-	-	-	-	-	-	.14	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	-	1.2	-	1.1	-	-	-	-	-	1.9U	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 3
SUMMARY OF EXCEEDANCES IN SOIL -DELPHI THERMAL- LOCKPORT, NY

Sample_ID	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloroethene (Total)	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroform	Ethylbenzene	Hexachlorobenzene	Methylene chloride	Tetrachloroethene	Toluene	Total Xylenes	Trichloroethene	Vinyl chloride	Acenaphthene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Arsenic - Total	Barium - Total	Cadmium - Total	Copper - Total	Hexavalent Chromium - Total	Lead - Total	Manganese - Total	Mercury - Total	Nickel - Total	Selenium - Total	Silver - Total	Zinc - Total	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
Unrestricted	0.68	0.27	0.33	1.1	0.02	0.44	2.4	1.8	0.05	0.06	0.76	1.1	0.37	1	0.33	0.05	1.3	0.7	.26	0.47	0.02	20	1	1	1	0.8	1	0.33	100	30	0.5	12	0.8	100	0.33	100	13	350	2.5	50	1	63	1600	0.2	30	3.9	2	109	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Commercial	500	240	500	500	30	1000	280	130	500	44	22	500	350	390	6	500	150	500	500	200	13	500	5.6	1	5.6	56	56	0.56	500	500	5.6	500	6.7	500	500	500	16	400	9.3	270	400	1000	10000	2.8	310	1500	1500	10000	1	1	1	1	1	1	1
Industrial	1000	480	1000	1000	60	2000	560	250	1000	89	44	1000	700	780	12	1000	300	1000	1000	400	27	1000	11	1.1	11	110	110	1.1	1000	1000	11	1000	55	1000	1000	1000	16	10000	60	10000	800	3900	10000	5.7	10000	6800	6800	10000	25	25	25	25	25	25	25
All units in Mg/Kg																																																								
7-E-1 (0-1) 10/27/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	377	-	-	-	-	-	-	-	-	-	-	-	-	-
7-E-2 (0-1) 10/27/2006	-	-	-	2U	-	-	-	-	-	-	-	-	-	-	2U	-	-	-	-	-	-	-	-	-	-	-	-	2U	-	-	-	-	9.9U	-	2U	-	-	-	-	57.6	1.9U	66	-	.22	-	5U	-	146	-	-	-	-	-	-	-
7-E-3 (0-1) 10/27/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9U	-	-	-	-	4.9U	-	-	-	-	-	-	-	-	-	-
7-E-DUP (102706) 10/27/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-10-B (2-4) 10/26/2006	-	-	-	-	-	-	-	-	.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-10-B (4-6) 10/26/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9U	-	-	-	-	-	-	1.8U	-	-	-	-	5U	-	-	-	-	-	-	-	-	-	-
7-G-11-B (2-4) 10/25/2006	-	-	-	-	.14U	-	-	-	2.8	.14U	-	-	-	-	-	.12J	-	-	2.5	-	.27U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-11-C (2-4) 10/25/2006	-	-	-	-	-	-	-	-	.052	-	-	-	-	-	-	-	-	-	.47	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-11-C (4-5.5) 10/25/2006	-	.57U	.57U	-	.57U	1.1U	-	-	2.7J	.57U	-	-	.57U	11	-	.5J	-	-	75	-	1.1U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-1-A (0-2) 10/19/2006	-			-			-	-	.26	.76U	-	-	.76U	-	-		73D	-	-	8.9D	1.5U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-1-A (2-4) 10/19/2006	-	-	-	-	.14U	.98D	-	-	.24	.14U	-	-	-	-	-		11D	-	-	.9D	.29U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-1-C (8-9.6) 10/23/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-2-A (2-4) 10/19/2006	-	-	-	-	-	-	-	-	.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-2-C (6-8) 10/26/2006	-	-	-	-	.14U	-	-	-			-	-	-	-	-		-	-	-	-	.28U	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-2-C (8-9.5) 10/26/2006	-	-	-	-		-	-	-		.14U	-	-	-	-	-		-	-	-	-	.28U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-3-A (2-4) 10/19/2006	-	-	-	-	.14U	-	-	-	.028	.14U	-	-	-	-	-		-	-	-	7.2D	.29U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-3-A (4-6.5) 10/19/2006	1.4U	1.4U	1.4U	-	1.4U	2.7U	-	-	6.8U	1.4U	1.4U	1.4U	1.4U	1.4U	-	.89J	-	1.4U	4.1U	95	2.7U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-3-A (4-6.5) 10/23/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-3-B (2-4) 10/26/2006	-	-	-	-	.14U	-	-	-	1.7D	.14U	-	-	-	-	-	.12D	-	-	-	-	.28U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-3-B (6-8) 10/26/2006	34U	34U	34U	-	-	67U	-	-	.12U	-	34U	34U	34U	34U	-	.056	340D	34U	-	6.9D	.048	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-3-C (0-2) 10/19/2006	-	-	-	-	.025	.45	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-3-C (4-6) 10/19/2006				-		2.3U	-	-	4.6D			-		-	-		68D		-	3.2D		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-4-C (8-10.7) 10/26/2006	-	-	-	-		-	-	-	1.7D		-	-	-	-	-	.12D	8.6D	-	-	-		-	-	-	-	-	-	-	-	-	-	-	1.9U	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	2U	2U	2U	2U	11	2U	2U
7-G-4-D (6-8) 10/23/2006	-	-	-	-	-	-	-	-	.053	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-4-DUP (102306) 10/23/2006	-	-	-	-	.027 U	-	-	-	.051 DJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-5-C (10-11.7) 10/24/2006	-	-	-	-		-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-6-A (2-3.75) 10/26/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-7-A (6-8) 10/23/2006	-	-	-	-		-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-7-A (8-10.7) 10/23/2006	-	-	-	-	.026	-	-	-	.13		-	-	-	-	-		4D	-	-	-	.052	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-8-A (0-2.5) 10/24/2006	-			-			-	-			-	-		-	-		34D	-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-8-B (6-8) 10/24/2006	-	-	-	-		-	-	-			-	-	-	-	-		10D	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-8-B (8-10) 10/24/2006				-	.14U		-	-	.72U	.14U					-	.11J	1000		-	1.6	.29U	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-8-C (6-8) 10/24/2006	-	-	-	-		2.1D	-	-			-	-	-	-	-		-	-	-	-	.24D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-G-8-C (8-10.75) 10/24/2006				-	.14U	14	-	-	35U	.14U					-	.12J	510D		.42U	3.4	.28U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ERM PROJECT NUMBER 0056607

TABLE 3

SUMMARY OF EXCEEDANCES IN SOIL -DELPHI THERMAL- LOCKPORT, NY

Sample_ID	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloroethene (Total)	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroform	Ethylbenzene	Hexachlorobenzene	Methylene chloride	Tetrachloroethene	Toluene	Total Xylenes	Trichloroethene	Vinyl chloride	Acenaphthene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Arsenic - Total	Barium - Total	Cadmium - Total	Copper - Total	Hexavalent Chromium - Total	Lead - Total	Manganese - Total	Mercury - Total	Nickel - Total	Selenium - Total	Silver - Total	Zinc - Total	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
Unrestricted	0.68	0.27	0.33	1.1	0.02	0.44	2.4	1.8	0.05	0.06	0.76	1.1	0.37	1	0.33	0.05	1.3	0.7	.26	0.47	0.02	20	1	1	1	0.8	1	0.33	100	30	0.5	12	0.8	100	0.33	100	13	350	2.5	50	1	63	1600	0.2	30	3.9	2	109	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Commercial	500	240	500	500	30	1000	280	130	500	44	22	500	350	390	6	500	150	500	500	200	13	500	5.6	1	5.6	56	56	0.56	500	500	5.6	500	6.7	500	500	500	16	400	9.3	270	400	1000	10000	2.8	310	1500	1500	10000	1	1	1	1	1	1	1
Industrial	1000	480	1000	1000	60	2000	560	250	1000	89	44	1000	700	780	12	1000	300	1000	1000	400	27	1000	11	1.1	11	110	110	1.1	1000	1000	11	1000	55	1000	1000	1000	16	10000	60	10000	800	3900	10000	5.7	10000	6800	6800	10000	25	25	25	25	25	25	25
All units in Mg/Kg																																																									
7-L-1 (0-3.5) 10/26/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	1.6U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-M-2 (0-2) 10/17/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.3J	1.2J	1.5J	-	1.3J	7.2U	-	-	.8J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-M-2 (6-7.8) 10/17/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.6U	3.6U	3.6U	3.6U	3.6U	3.6U	-	-	3.6U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-M-3 (10-11.7) 10/25/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-M-3 (6-8) 10/25/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.5U	3.5U	3.5U	3.5U	3.5U	3.5U	-	-	3.5U	-	-	-	-	-	-	-	-	-	-	1.6U	-	-	-	-	-	-	.18	.18	.18	.18	1.6	.18	.18
7-M-6 (2-4) 10/25/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-M-6 (4-4.75) 10/25/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-R-1 (6-8) 10/25/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4J	2.4	5.1	5	1.8	.69J	-	-	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-R-2 (4-4.8) 10/24/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	-	-	-	-	-	.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-R-3 (6-7.5) 10/24/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.5	5.5	-	-	4.2	1.2	-	-	3.3	-	1.8U	-	-	-	-	-	-	307	1.8U	133	-	-	-	-	695	-	-	-	.12	-	-	-
7-R-3 (6-7.5) DL 10/24/2006	-	-	-	1.9U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12D	11D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-001-A(6-8) 10/13/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-001-A(8-10.2) 10/13/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	1.6U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-001-B(6-8) 10/11/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-001-B(8-10) 10/11/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-001-C(2-4) 10/11/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-001-C(4-6) 10/11/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	5U	-	-	-	-	-	-	-	-	-
8-001-D(0-2) 10/12/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-001-D(2-4) 10/12/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-001-DUP 10/12/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	5U	-	-	-	-	-	-	-	-	-
8-001-E(0-2) 10/12/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6U	113	-	-	-	-	-	-	-	-	-	-	-	-	-
8-001-E(2-4) 10/12/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-001-F(0-2) 10/11/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-001-F(2-4) 10/11/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-001-G(10-11) 10/11/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-001-G(2-4) 10/11/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65.8	-	-	-	2.2U	-	-	-	-	5.7U	-	-	-	-	-	-	-	-	-
8-001-H(0-2) 10/12/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-001-H(8-9.6) 10/12/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-001-I(4-6) 10/12/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-001-I(6-8) 10/12/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-001-J(0-2) 10/12/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6U	317	-	-	-	-	-	-	-	-	-	-	-	-	-
8-001-J(2-4) 10/12/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-004-B(4-6) 10/11/2006	-	-	-	-	.027	-	-	-	.14U	.15U	-	-	-	-	-	.054	-	-	-	4.4D	.054	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-004-B(6-8) 10/11/2006	1.4U	1.4U	1.4U	7.8U	1.4U	1.3D	7.8U	7.8U	7U	1.4U	1.4U	1.4U	1.4U	1.4U	7.8U	1.1D	-	1.4U	-	77D	.068	-	-	-	1.1J	7.8U	-	7.8U	-	-	-	-	38U	-	7.8U	-	-	-	-	-	-	-	1.8U	-	-	1.3	-	-	-	-	-	-	-	-	-	-

TABLE 3

SUMMARY OF EXCEEDANCES IN SOIL -DELPHI THERMAL- LOCKPORT, NY

Sample_ID	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloroethene (Total)	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroform	Ethylbenzene	Hexachlorobenzene	Methylene chloride	Tetrachloroethene	Toluene	Total Xylenes	Trichloroethene	Vinyl chloride	Acenaphthene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Arsenic - Total	Barium - Total	Cadmium - Total	Copper - Total	Hexavalent Chromium - Total	Lead - Total	Manganese - Total	Mercury - Total	Nickel - Total	Selenium - Total	Silver - Total	Zinc - Total	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
Unrestricted	0.68	0.27	0.33	1.1	0.02	0.44	2.4	1.8	0.05	0.06	0.76	1.1	0.37	1	0.33	0.05	1.3	0.7	.26	0.47	0.02	20	1	1	1	0.8	1	0.33	100	30	0.5	12	0.8	100	0.33	100	13	350	2.5	50	1	63	1600	0.2	30	3.9	2	109	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Commercial	500	240	500	500	30	1000	280	130	500	44	22	500	350	390	6	500	150	500	500	200	13	500	5.6	1	5.6	56	56	0.56	500	500	5.6	500	6.7	500	500	500	16	400	9.3	270	400	1000	10000	2.8	310	1500	1500	10000	1	1	1	1	1	1	1
Industrial	1000	480	1000	1000	60	2000	560	250	1000	89	44	1000	700	780	12	1000	300	1000	1000	400	27	1000	11	1.1	11	110	110	1.1	1000	1000	11	1000	55	1000	1000	1000	16	10000	60	10000	800	3900	10000	5.7	10000	6800	6800	10000	25	25	25	25	25	25	25
All units in Mg/Kg																																																									
8-004-C (6-8) 10/25/2006	-	.57U	.57U	-	.57U	17D	-	-	3.6D	.53D	-	-	.57U	-	-	.32D	-	2D	.64	-	2.6D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-004-C (8-9.7) 10/25/2006	1.5U	1.5U	1.5U	-	1.5U	2.5D	-	-	1	.15	1.5U	1.5U	1.5U	1.5U	-	.81B	-	1.5U	.41	81D	3U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-005-1(10-11.6) 10/16/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9U	-	-	-	-	-	-	-	2.4U	-	-	-	-	6.5U	-	127	-	-	-	-	-	-
8-005-1(6-8) 10/16/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	4.9U	-	-	-	-	-	-	-	-
8-005-2-A(4-6) 10/16/2006	-	-	-	-	.14U	.88D	-	-	2.1D	.14U	-	-	-	-	-	.2BD	-	-	-	-	.29U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-005-2-A(6-8) 10/16/2006	1.6U	1.6U	1.6U	-	1.6U	32	-	-	8.1U	1.6U	1.6U	1.6U	1.6U	1.6U	.43U	1.6B	-	1.6U	4.8U	150	3.2U	-	-	-	-	-	-	.43U	-	-	-	-	2.1U	-	.43U	-	-	-	-	-	-	1.8U	-	1990	-	-	4.9U	-	-	-	-	-	-	-	-
8-005-2-B(0-2) 10/16/2006	1.3U	1.3U	1.3U	-	1.3U	3D	-	-	6.7U	1.3U	1.3U	-	1.3U	1.3U	-	.88D	1.4D	1.3U	-	85D	2.7U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-005-2-B(2-4) 10/16/2006	-	-	-	-	-	-	-	-	.055	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-005-3A(6-8) 10/12/2006	-	-	-	-	.028	-	-	-	.11	-	-	-	-	-	-	.06B	-	-	-	-	.057	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-005-3A(8-10) 10/12/2006	-	-	-	-	.028	1.5	-	-	.14U	.14U	-	-	-	-	-	.24	-	-	-	-	.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-005-3B(6-8) 10/12/2006	-	-	-	-	.026	.63	-	-	.18	-	-	-	-	-	-	.062	-	-	-	-	.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-005-3B(8-9) 10/12/2006	-	-	-	-	-	-	-	-	.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-005-3C(4-6) 10/11/2006	-	-	-	-	.15U	-	-	-	.053	.15U	-	-	-	-	-	.28D	-	-	-	.87D	.3U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-005-3C(8-10) 10/11/2006	15U	15U	15U	-	15U	8.6J	-	-	.06	15U	15U	15U	15U	15U	-	20	15U	15U	-	1000	29U	-	1.6	-	1.4	1.3	1.4	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-005-3C(8-10) DL 10/11/2006	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-005-4A(10-12) 10/12/2006	-	-	-	-	-	1.9	-	-	-	-	-	-	-	-	-	.062B	-	-	-	-	.31U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-005-4C(6-8) 10/11/2006	-	-	-	-	.029	.92	-	-	.16	.14U	-	-	-	-	-	.06B	-	-	-	12D	.058	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-005-4C(8-10) 10/11/2006	-	-	-	-	.026	-	-	-	.11J	.14U	-	-	-	-	-	.16D	-	-	-	1.7D	.053	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-005-4E (2-4) 10/10/2006	-	-	-	-	.14U	-	-	-	.065	.14U	-	-	-	-	-	.17D	-	-	-	8.2D	.27U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-005-4E (4-6) 10/10/2006	-	-	-	-	.14U	-	-	-	.073	.14U	-	-	-	-	-	.18D	-	-	-	6.3D	.27U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-005-4E(2-4) 10/10/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.44U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1U	-	.44U	-	-	-	-	-	2U	-	-	-	-	5.3U	-	-	-	-	-	-	-	-
8-005-5D (4-6) 10/10/2006	-	-	-	-	.14U	-	-	-	1.7D	.14U	-	-	-	-	-	.16D	-	-	-	1.4D	.27U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-005-5D (6-8) 10/10/2006	-	-	-	-	.15U	2.6D	-	-	1.8D	.15U	-	-	-	-	-	.18D	-	-	-	1.9D	.29U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-005-5D(6-8) 10/10/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-
8-005-DUP 10/10/2006	-	-	-	-	.15U	4.9D	-	-	1.8D	.15U	-	-	-	-	-	.19D	-	-	-	12D	.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-005-DUP 10/11/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-
8-006-A(4-6) 10/11/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9U	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-
8-006-A(8-10.5) 10/11/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-
8-006-B(6-8) 10/11/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-
8-006-B(8-8.8) 10/10/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.51U	-	-	-	-	-	-	-	-	-	-	-	-	.51U	-	-	-	-	2.5U	-	.51U	-	-	-	-	-	2.3U	-	-	-	-	5.7U	-	-	-	-	-	-	-	-
8-006-C(2-4) 10/16/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-
8-006-C(4-6) 10/16/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	-	1.3	-	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-
8-006-D(2-4) 10/16/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-
8-006-D(6-8) 10/16/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 3
SUMMARY OF EXCEEDANCES IN SOIL -DELPHI THERMAL- LOCKPORT, NY

Sample_ID	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloroethene (Total)	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroform	Ethylbenzene	Hexachlorobenzene	Methylene chloride	Tetrachloroethene	Toluene	Total Xylenes	Trichloroethene	Vinyl chloride	Acenaphthene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Arsenic - Total	Barium - Total	Cadmium - Total	Copper - Total	Hexavalent Chromium - Total	Lead - Total	Manganese - Total	Mercury - Total	Nickel - Total	Selenium - Total	Silver - Total	Zinc - Total	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
Unrestricted	0.68	0.27	0.33	1.1	0.02	0.44	2.4	1.8	0.05	0.06	0.76	1.1	0.37	1	0.33	0.05	1.3	0.7	.26	0.47	0.02	20	1	1	1	0.8	1	0.33	100	30	0.5	12	0.8	100	0.33	100	13	350	2.5	50	1	63	1600	0.2	30	3.9	2	109	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Commercial	500	240	500	500	30	1000	280	130	500	44	22	500	350	390	6	500	150	500	500	200	13	500	5.6	1	5.6	56	56	0.56	500	500	5.6	500	6.7	500	500	500	16	400	9.3	270	400	1000	10000	2.8	310	1500	1500	10000	1	1	1	1	1	1	1
Industrial	1000	480	1000	1000	60	2000	560	250	1000	89	44	1000	700	780	12	1000	300	1000	1000	400	27	1000	11	1.1	11	110	110	1.1	1000	1000	11	1000	55	1000	1000	1000	16	10000	60	10000	800	3900	10000	5.7	10000	6800	6800	10000	25	25	25	25	25	25	25
All units in Mg/Kg																																																									
8-006-E(2-4) 10/16/2006	-	-	-	-	-	-	-	-	.075	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6U	-	-	-	-	-	-	-	-	-	-	-	-	-
8-006-E(8-10) 10/16/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-
8-006-F(0-1.5) 10/16/2006	-	-	-	-	-	-	-	-	.072	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4J	1.3J	1.5J	-	-	-	-	.9J	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-
8-006-F(1.5-2.7) 10/16/2006	-	-	-	-	-	-	-	-	.085	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-
89-WWTP-115 (0-2) 10/31/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6U	-	-	-	-	-	-	-	-	-	-	-	-	-
89-WWTP-115 (2-4) 10/31/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-
89-WWTP-115(0-2) 10/31/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9U	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-
9-100-A (2-4) 10/24/2006	-	-	-	1.8U	.028	-	-	-	.18	.14U	-	-	-	1.7D	-	.14D	-	-	13D	-	.055	-	-	1.8U	-	1.8U	-	-	-	-	-	1.8U	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9-102-A (0-4) 10/17/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6U	-	-	-	-	-	-	-	72.4	-	-	-	-	197	-	-	-	-	-	-	-
9-102-B (0-2) 10/17/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.46U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9-102-C (2-4) 10/17/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	15	18	6.3	15	2.8	-	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9-102-D (2-4) 10/17/2006	-	-	-	-	-	-	-	-	.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.42U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9-102-E (0-4) 10/17/2006	-	-	-	-	-	-	-	-	.058	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9-108-C (0-4) 10/23/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1.7	2.3	-	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	5.1U	-	-	-	-	-	-	-	-
9-108-D (6-8) 10/17/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GS-A (0-2) 10/12/2006	-	-	-	3.4U	-	-	3.4U	3.4U	-	-	-	-	-	-	3.4U	-	-	-	-	-	-	-	-	-	-	-	-	3.4U	-	-	-	-	16U	-	3.4U	-	-	-	-	-	-	1.6U	-	-	-	-	-	-	-	-	-	-	-
GS-A (4-6) 10/12/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	5.2U	-	-	-	-	-	-	-	-
GS-B (2-4) 10/12/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6U	-	-	-	-	-	-	-	-	-	-	-	-	-
GS-B (4-5.1) 10/12/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-
GS-C (0-2) 10/12/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	5.1U	-	-	-	-	-	-	-	-
GS-C (2-4) 10/12/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-
GS-D (0-2) 10/12/2006	-	-	-	-	-	-	-	-	.068	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	1.5	2.5	2.8	1.7	-	-	-	.85	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	5.2U	-	-	-	-	-	-	-	-
GS-D (2-4) 10/12/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	4.9U	-	-	-	-	-	-	-	-
GS-F (0-2) 10/12/2006	-	-	-	-	-	-	-	-	.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	4.9U	-	-	-	-	-	-	-	-
GS-F (2-3.8) 10/12/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6U	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7-A-1 (4-6) 10/25/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7-A-1 (6-8) 10/25/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7-P-1 (2-4) 11/6/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9U	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7-P-1 (6-8) 11/6/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6U	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8-003-B (2-4) 10/30/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U	-	-	1.9U	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9-101-A(10-12') 10/26/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8U	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9-101-A(8-10') 10/26/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	1.7U	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 3

SUMMARY OF EXCEEDANCES IN SOIL -DELPHI THERMAL- LOCKPORT, NY

Sample_ID	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloroethene (Total)	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroform	Ethylbenzene	Hexachlorobenzene	Methylene chloride	Tetrachloroethene	Toluene	Total Xylenes	Trichloroethene	Vinyl chloride	Acenaphthene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Arsenic - Total	Barium - Total	Cadmium - Total	Copper - Total	Hexavalent Chromium - Total	Lead - Total	Manganese - Total	Mercury - Total	Nickel - Total	Selenium - Total	Silver - Total	Zinc - Total	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
Unrestricted	0.68	0.27	0.33	1.1	0.02	0.44	2.4	1.8	0.05	0.06	0.76	1.1	0.37	1	0.33	0.05	1.3	0.7	.26	0.47	0.02	20	1	1	1	0.8	1	0.33	100	30	0.5	12	0.8	100	0.33	100	13	350	2.5	50	1	63	1600	0.2	30	3.9	2	109	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Commercial	500	240	500	500	30	1000	280	130	500	44	22	500	350	390	6	500	150	500	500	200	13	500	5.6	1	5.6	56	56	0.56	500	500	5.6	500	6.7	500	500	500	16	400	9.3	270	400	1000	10000	2.8	310	1500	1500	10000	1	1	1	1	1	1	1
Industrial	1000	480	1000	1000	60	2000	560	250	1000	89	44	1000	700	780	12	1000	300	1000	1000	400	27	1000	11	1.1	11	110	110	1.1	1000	1000	11	1000	55	1000	1000	1000	16	10000	60	10000	800	3900	10000	5.7	10000	6800	6800	10000	25	25	25	25	25	25	25
All units in Mg/Kg																																																								

Notes:

Results reported in this table exceeded New York State Part 375-6.8 (b) Unrestricted Soil Cleanup Objectives

\- Indicates result did not exceed Unrestricted Cleanup Standard or parameter was not analyed for this particular sample. See Table 6, Summary of AOIs and selected Analytical Parameter

Results above New York State Part 375-6.8 (b) Restricted Industrial Soil Cleanup Objective

Results above New York State Part 375-6.8 (b) Restricted Commercial Soil Cleanup Objective

ND or U Indicates compuond was analyzed for, but not detected at or above the reporting limi

J Indicates an estimated value. This flag is used when estimating a concentration for tentatively ideneified compounds where a 1:1 response is assumed or when the data indicates the presence ofa compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zerc

B This flag is used when the analyte is found in the associated blank, as well as in the sample

E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis

D This flag identifies all compounds identified in an analysis at the secondary dilution factor

TABLE 4
SUMMARY OF GROUND WATER INVESTIGATION ANALYTICAL RESULTS
ALL GROUND WATER DATA
DELPHI CORPORATION - WEST LOCKPORT COMPLEX, LOCKPORT, NY
ERM PROJECT NUMBER 0056607

	SAMPLE DESIGNATION									NYSDEC Ambient Water Quality
sample designation	**MW-6-F-1**	**MW-6-F-5**	**TK-4**	**TK-6**	**MW-7-A-6**	**MW-7-C-2**	**MW-7-P-1**	**MW-8-03-B**	**MW-9-101-A**	**Standards and Guidance**
date	**11/8/2006**	**11/8/2006**	**11/8/2006**	**11/8/2006**	**11/10/2006**	**11/10/2006**	**11/14/2006**	**11/11/2006**	**11/10/2006**	**Values TOGS 1.1.1 (µg/L)**
VOCs (µg/L)										
Acetone	39	20	----	----	----	NA	11	----	16	50.0
Benzene	**33**	**800 D**	----	----	----	NA	----	----	**1.1**	1.0
2-Butanone	5.5	11	----	----	----	NA	8.5	----	----	NS
Carbon Disulfide	----	----	----	----	----	NA	0.62 J	----	----	NS
Chloroform	----	----	----	----	----	NA	----	----	0.53 J	7.0
Cyclohexane	----	31	----	----	----	NA	----	----	1.8	NS
1,1-Dichloroethane	----	----	----	----	----	NA	0.85 J	----	----	5.0
1,1-Dichloroethene	----	----	----	----	**270 J**	NA	----	**2.4**	----	0.7
Cis-1,2-Dichloroethene	----	----	----	----	**2,600**	NA	**120 D**	**630 D**	1.3	5.0
Trans-1,2-Dichloroethene	----	----	----	----	----	NA	4.9	4.8	----	5.0
Ethylbenzene	**1500 D**	**3800 D**	----	----	----	NA	----	----	1.8	5.0
Isopropylbenzene	**91**	**130 D**	----	----	----	NA	----	----	1.3	5.0
Methylcyclohexane	33	12	----	----	----	NA	----	----	1.0	NS
Methylene Chloride	----	----	----	----	**300 BJ**	NA	----	----	0.78 BJ	5.0
Methyl tert-butyl ether	16.0	6000 D	----	----	----	NA	----	----	----	NS
Tetrachloroethene	----	----	----	----	**150000 D**	NA	----	**970 BD**	**1.7**	0.7
Toluene	**23**	**1200 D**	----	----	----	NA	----	----	1.6	5.0
1,1,2-Trichloroethane	----	----	----	----	**220 J**	NA	----	----	----	1.0
1,1,2-Trichloro-1,2,2-trifluoreth	----	----	----	2.2	----	NA	----	----	----	5.0
Trichloroethene	----	----	----	----	**38000 D**	NA	2.1	**390 D**	0.74 J	5.0
Vinyl Chloride	----	----	----	----	**2,500**	NA	**22**	**91**	----	2.0
Total Xylenes	**7400 D**	**14000 D**	----	----	----	NA	----	----	1.8 J	5.0
SVOCs (µg/L)										
Acenapthene	----	4 J	----	----	0.4 J	----	NA	0.3 J	2 J	20.0
Acenapthylene	----	----	----	----	----	----	NA	----	0.4 J	NS
Anthracene	----	----	----	----	0.3 J	----	NA	----	0.4 J	50.0
Benzo (a) anthracene	----	----	----	----	0.4 J	----	NA	----	----	0.002
Benzo (a) pyrene	----	----	----	----	0.2 J	----	NA	----	----	ND
Chrysene	----	----	----	----	**0.3 J**	----	NA	----	----	0.002
2,4-Dimethylphenol	----	**210 D**	----	----	----	----	NA	----	----	50.0
Di-n-octyl phthalate	----	0.6 BJ	0.5 BJ	----	----	----	NA	----	----	50.0
Fluoranthene	----	0.5 J	----	----	0.5 J	----	NA	----	0.5 J	50.0
Fluorene	----	----	----	----	----	----	NA	----	2 J	50.0
2-Methylnapthalene	----	320 D	----	----	2 J	----	NA	----	4 J	NS
2-Methylphenol	----	8 J	----	----	----	----	NA	----	----	NS
4-Methylphenol	----	59	----	----	----	----	NA	----	----	NS
Napthalene	----	**1300 D**	----	----	4 J	----	NA	----	6 J	10.0
Phenanthrene	----	2 J	----	----	0.9 J	----	NA	----	2 J	50.0
Pyrene	----	----	----	----	0.4 J	----	NA	----	0.4 J	50.0
Metals (µg/L)										
Total Arsenic	12	**40**	----	----	----	----	----	----	----	25
Total Barium	180	510	51	30	840	13	**14,400**	100	81	1,000
Total Calcium	----	115,000	93,100	NA	NA	NA	NA	NA	NA	NS
Total Chromium	----	----	----	----	----	----	7.9	----	----	50
Total Copper	----	**650**	----	NA	NA	NA	NA	NA	NA	200
Total Hexavalent Chromium	----	----	----	----	----	----	----	----	----	50
Total Iron	----	**22,400**	----	NA	NA	220	NA	NA	NA	300
Total Lead	----	**58**	----	----	----	----	----	----	5.1	25
Total Magnesium	----	14,200	27,300	NA	NA	NA	NA	NA	NA	35,000
Total Manganese	----	**570**	27	NA	NA	NA	NA	NA	NA	300
Total Nickel	----	37	----	NA	NA	NA	NA	NA	NA	100
Total Potassium	----	7,900	----	NA	NA	NA	NA	NA	NA	NS
Total Sodium	----	**512,000**	**436,000**	NA	NA	NA	NA	NA	NA	20,000
Total Zinc	----	420	----	NA	NA	NA	NA	NA	NA	2,000
Other Analyses (µg/L)										
Sulfate	NA	NA	NA	NA	NA	**972,000**	NA	NA	NA	250,000
PCBs	NA	---- *	---- *	NA	NA	NA	NA	NA	NA	0.09

NOTES:

NYSDEC Ambient Water Quality Standards and Guidance Values - TOGS 1.1.1
VOCs - Volatile organic compounds determined by USEPA Method 8260
SVOCs - Semivolatile organic compounds determined by USEPA Method 8270
NA - Not Analyzed
NS - No Standard or Guidance Value given in TOGS 1.1.1
ND - Not Detected
BJ - Estimated value and analyte found in sample and associated blank.
D - Compound identified in an analysis at the secondary dilution factor.
J - Estimated value.
---- - Below the Reportable Limit
----* - Reportable Limit is Above the TOGS 1.1.1 Standard
µg/L - Micrograms per Liter
BOLD - Concentrations above the NYDEC Ambient Water Quality Standards and Guidance Values.

Appendix A
Soil Boring Logs

Appendix B
Monitoring Well Construction Logs

ERM

WELL : 7-A-5

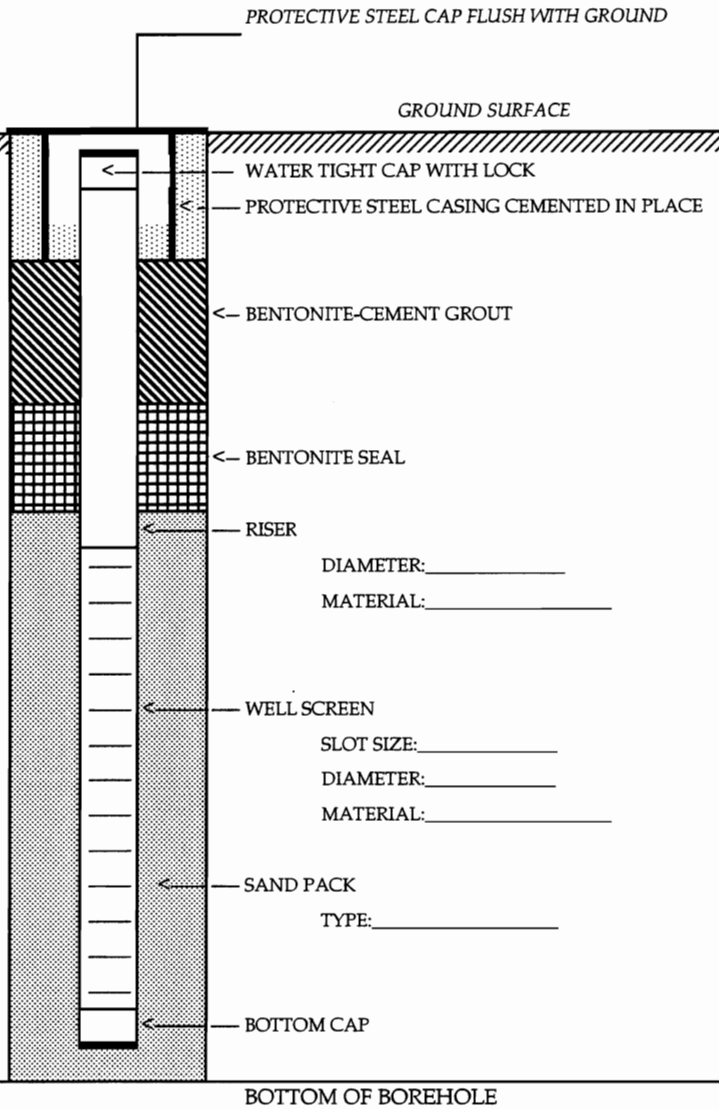
5788 Widewaters Parkway, Dewitt, NY 13214 (315) 445-2554

MONITORING WELL CONSTRUCTION LOG

Project Name & Location	Project No.	Water Level(s) (ft below top of PVC casing)			Site Elevation Datum (feet)
Lockport Phase II	56607				
Drilling Company	Foreman	Date	Time	Level (feet)	Ground Elevation (feet)
Nothnagle					
Surveyor					Top of Protective Steel Cap Elevation (feet)
Date and Time of Completion	Geologist				Top of Riser Pipe Elevation (feet)
27 Oct 2006 1130	Jeremy Wolf				

Generalized Soil Description	*Elevation	**Depth
	0.00	0.0

CONSTRUCTION DETAILS



BOTTOM OF BOREHOLE

REMARKS Abandoned Boring

* Elevation (feet) above mean sea level unless noted

** Depth in feet below ground surface

ERM

WELL : MW-7-A-6

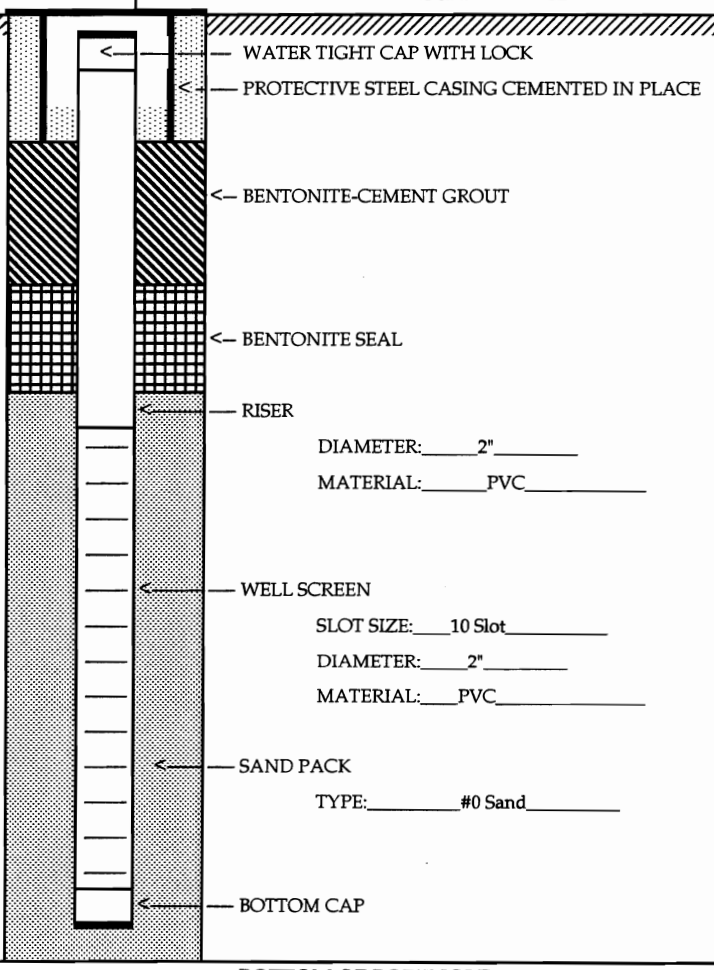
5788 Widewaters Parkway, Dewitt, NY 13214 (315) 445-2554

MONITORING WELL CONSTRUCTION LOG

Project Name & Location	Project No.	Water Level(s) (ft below top of PVC casing)			Site Elevation Datum (feet)
Lockport Phase II	56607				
Drilling Company	Foreman	Date	Time	Level (feet)	Ground Elevation (feet)
Nothnagle					
Surveyor					Top of Protective Steel Cap Elevation (feet)
Date and Time of Completion	Geologist				Top of Riser Pipe Elevation (feet)
30 Oct 2006 1300	Jeremy Wolf				

Generalized Soil Description	*Elevation	**Depth
		0.0
	612.11	0.0
		2.0
		3.0
		5.0
		15.0

CONSTRUCTION DETAILS



BOTTOM OF BOREHOLE

REMARKS Well Sandpacked from -3 to -15 bgs.

* Elevation (feet) above mean sea level unless noted ** Depth in feet below ground surface

ERM

WELL : 7-C-2

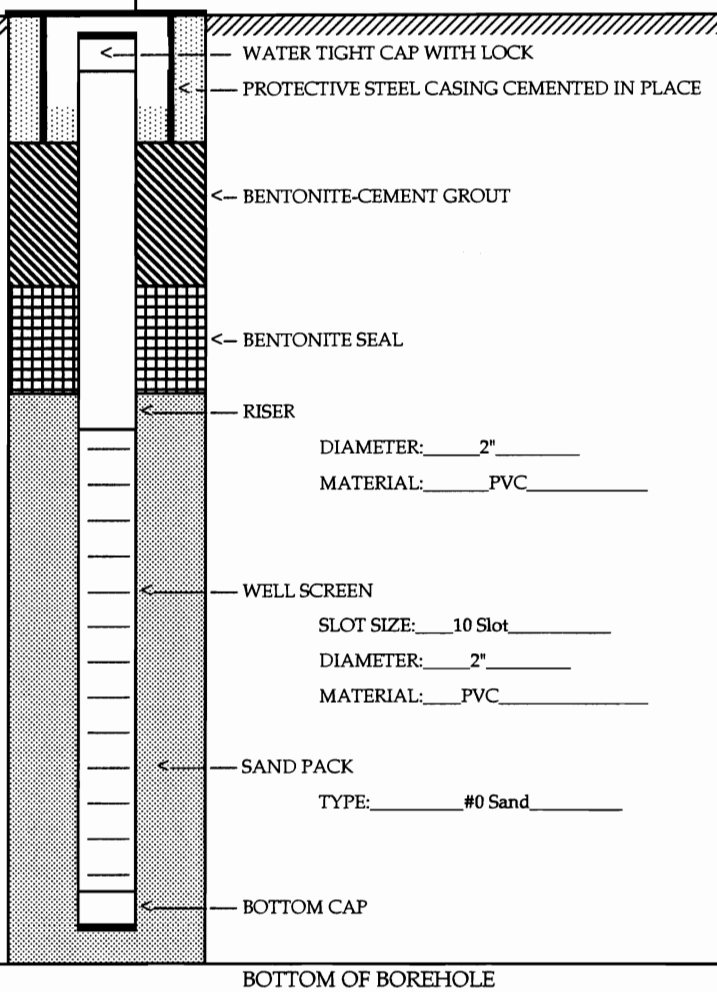
5788 Widewaters Parkway, Dewitt, NY 13214 (315) 445-2554

MONITORING WELL CONSTRUCTION LOG

Project Name & Location	Project No.	Water Level(s) (ft below top of PVC casing)			Site Elevation Datum (feet)
Lockport Phase II	**56607**				
Drilling Company	*Foreman*	Date	Time	Level (feet)	*Ground Elevation (feet)*
Nothnagle					
Surveyor					*Top of Protective Steel Cap Elevation (feet)*
Date and Time of Completion	*Geologist*				*Top of Riser Pipe Elevation (feet)*
27 Oct 2006 1450	Jeremy Wolf				

Generalized Soil Description	*Elevation	**Depth
		0.0
	610.34	0.0
		11.0
		12.0
		14.0
		24.0

CONSTRUCTION DETAILS



REMARKS _____

* Elevation (feet) above mean sea level unless noted

** Depth in feet below ground surface

ERM

WELL : MW-8-003-B

5788 Widewaters Parkway, Dewitt, NY 13214 (315) 445-2554

MONITORING WELL CONSTRUCTION LOG

Project Name & Location	Project No.	Water Level(s) (ft below top of PVC casing)			Site Elevation Datum (feet)
Lockport Phase II	**56607**				
Drilling Company	*Foreman*	Date	Time	Level (feet)	*Ground Elevation (feet)*
Nothnagle					
Surveyor					*Top of Protective Steel Cap Elevation (feet)*
Date and Time of Completion	*Geologist*				*Top of Riser Pipe Elevation (feet)*
30 Oct 2006 0930	Jeremy Wolf				

Generalized Soil Description	*Elevation	**Depth	CONSTRUCTION DETAILS
			PROTECTIVE STEEL CAP FLUSH WITH GROUND
		0.0	GROUND SURFACE
	610.94	0.0	WATER TIGHT CAP WITH LOCK
			PROTECTIVE STEEL CASING CEMENTED IN PLACE
			BENTONITE-CEMENT GROUT
		2.0	
			BENTONITE SEAL
		3.0	
		5.0	RISER
			DIAMETER:_____2"_____
			MATERIAL:_____PVC_____
			WELL SCREEN
			SLOT SIZE:____10 Slot_____
			DIAMETER:_____2"_____
			MATERIAL:____PVC_____
			SAND PACK
			TYPE:_____#0 Sand_____
		15.0	BOTTOM CAP
			BOTTOM OF BOREHOLE

REMARKS Well Sandpacked from -3 to -15 bgs.

* Elevation (feet) above mean sea level unless noted

** Depth in feet below ground surface

ERM

WELL : MW-9-101-A

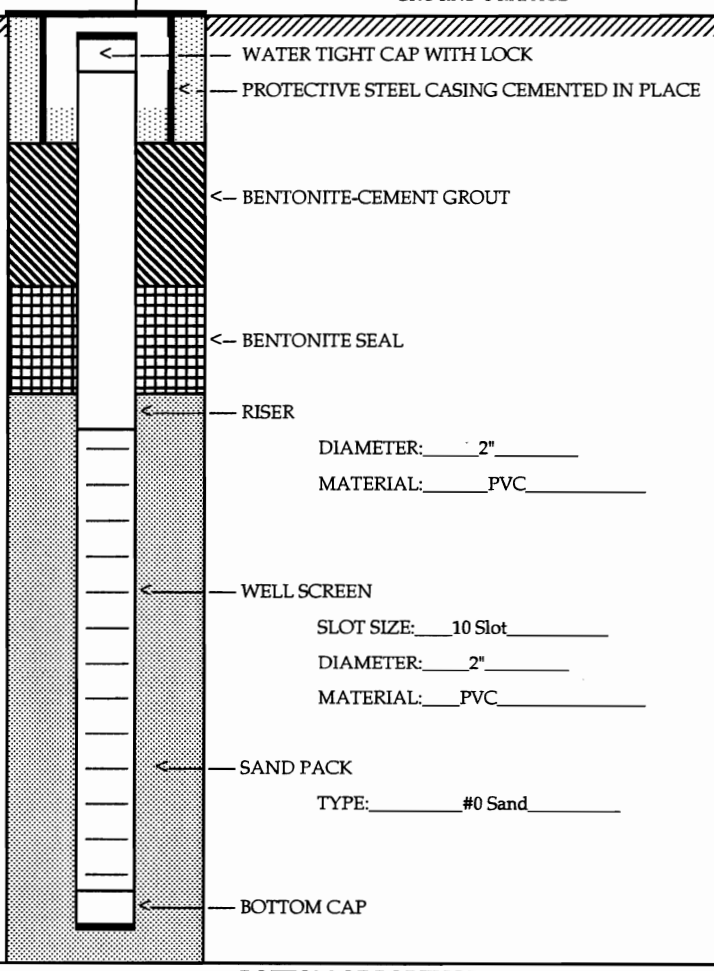
5788 Widewaters Parkway, Dewitt, NY 13214 (315) 445-2554

MONITORING WELL CONSTRUCTION LOG

Project Name & Location	Project No.	Water Level(s) (ft below top of PVC casing)			Site Elevation Datum (feet)
Lockport Phase II	**56607**				
Drilling Company	*Foreman*	Date	Time	Level (feet)	*Ground Elevation (feet)*
Nothnagle					
Surveyor					*Top of Protective Steel Cap Elevation (feet)*
Date and Time of Completion	*Geologist*				*Top of Riser Pipe Elevation (feet)*
26 Oct 2006 1440	Jeremy Wolf				

Generalized Soil Description	*Elevation	**Depth
		0.0
	615.00	0.0
		1.0
		2.0
		2.0
		12.0

CONSTRUCTION DETAILS



BOTTOM OF BOREHOLE

REMARKS Well Sandpacked from -3 to -15 bgs.

* Elevation (feet) above mean sea level unless noted ** Depth in feet below ground surface

ERM

WELL : 88-WWTP-115

5788 Widewaters Parkway, Dewitt, NY 13214 (315) 445-2554

MONITORING WELL CONSTRUCTION LOG

Project Name & Location	*Project No.*	*Water Level(s)* (ft below top of PVC casing)			*Site Elevation Datum (feet)*
Lockport Phase II	**56607**				
Drilling Company	*Foreman*	Date	Time	Level (feet)	*Ground Elevation (feet)*
TREC	Jim Agar				
Surveyor					*Top of Protective Steel Cap Elevation (feet)*
Date and Time of Completion	*Geologist*				*Top of Riser Pipe Elevation (feet)*
31 Oct 2006 1410	Ron Taylor				

Generalized Soil Description	*Elevation	**Depth	CONSTRUCTION DETAILS
			PROTECTIVE STEEL CAP FLUSH WITH GROUND
		0.0	*GROUND SURFACE*
	587.26	0.0	<---------- WATER TIGHT CAP WITH LOCK
			< ---- PROTECTIVE STEEL CASING CEMENTED IN PLACE
			<-- BENTONITE-CEMENT GROUT
		2.0	
			<-- BENTONITE SEAL
		2.5	
		3.5	<-------- RISER
			DIAMETER:_____2"_____
			MATERIAL:_____PVC_____
			<-------- WELL SCREEN
			SLOT SIZE:____10 Slot_____
			DIAMETER:_____2"_____
			MATERIAL:____PVC_____
			<-------- SAND PACK
			TYPE:_____#0 Sand_____
		5.5	<-------- BOTTOM CAP
			BOTTOM OF BOREHOLE

REMARKS _____

* Elevation (feet) above mean sea level unless noted ** Depth in feet below ground surface

Appendix C
Ground Water Sampling Records

GROUND WATER SAMPLING RECORD

SITE Delphi Phase II DATE 11/8/06

PROJECT NUMBER: 00 56607

SAMPLE ID : ~~MW-6-F-1~~ MW-6-F-1 (110806)

WELL ID : ~~MW-6A~~ ~~MW-6A~~ MW-6A Time Onsite: Time Offsite:

SAMPLERS : Jeremy Wolf, Mike Nigro _____ _____

Brian Hoffmire _____ _____

Depth of well (from top of casing) ..... 13.49 Time: _____

Static water level (from top of casing) ..... 2.48 Time: _____

Water level after purging (from top of casing) ..... 2.49 Time: _____

Water level before sampling (from top of casing) ..... 2.49 Time: _____

Purging Method:

- X Airlift
- X Bailer
- ___ Submersible
- ___ Low-Flow Pump
- ___ Peristaltic Pump
- ___ Ded. Pump

Well Volume Calculation:

		1 volume	3 volumes
2 in. well:	ft. of water x 0.16 =	___ gal.	x 3 = ___ gal.
3 in. well:	ft. of water x 0.36 =	___ gal.	x 3 = ___ gal.
(4) in. well:	11.01 ft. of water x 0.65 =	7.16 gal.	x 3 = 21.5 gal.
6 in. well:	ft. of water x 1.47 =	___ gal.	x 3 = ___ gal.

Volume of water removed: 24 gal. >3 volumes: yes X no ___ purged dry? yes ___ no X

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mS/cm	NTU	mg/L	°F	-	-	g/L	mV
Initial									
1 Volume									
2 Volumes									
3 Volumes	6.83	2.103	6.29	6.39	15.13	NR	NR	NR	-157.8

Sampling

Time of Sample Collection: 1500

Collection Method:

- ___ Disposable bailer
- ___ Teflon bailer
- ___ Dedicated pump
- ___ Submersible Pump
- ___ Low-Flow Sampling
- X Other: Peri Pump

Analyses:

- X VOCs - 8260B
- X SVOCs
- X Metals
- ___ PCB/Pest
- ___ MNA
- ___ Other

Analytical Method: ~~8260B~~ 8021 ~~Other~~ _____

~~8270C~~ PAHs

RCRA 8, Cr6

Observations

Weather/Temperature: cloudy ~40°F

Sample Description: clear w/ petroleum odor

Free Product? yes ___ no X describe _____

Sheen? yes X no ___ describe _____

Odor? yes X no ___ describe petroleum

Comments:

Strong gasoline odor noted during purging

GROUND WATER SAMPLING RECORD

SITE Delphi Phase II DATE 11/8/06

PROJECT NUMBER: 0056607

SAMPLE ID: TK-6 (110806)

WELL ID: TK-6

SAMPLERS: Mike Nigro, J. Wolf, Brian Holtmire

Time Onsite: _____ _____

Time Offsite: _____ _____

Depth of well (from top of casing) ..... 13.44 Time: 1645

Static water level (from top of casing) ..... 10.02 Time: 1645

Water level after purging (from top of casing) ..... _____ Time: _____

Water level before sampling (from top of casing) ..... _____ Time: _____

Purging Method:

___ Airlift ___ Low-Flow Pump

X Bailer ___ Peristaltic Pump

___ Submersible ___ Ded. Pump

Well Volume Calculation:

		1 volume	3 volumes
2 in. well:	___ ft. of water x 0.16 =	___ gal.	x 3 = ___ gal.
3 in. well:	___ ft. of water x 0.36 =	___ gal.	x 3 = ___ gal.
(4) in. well:	3.42 ft. of water x 0.65 =	2.22 gal.	x 3 = 6.66 gal.
6 in. well:	___ ft. of water x 1.47 =	___ gal.	x 3 = ___ gal.

Volume of water removed: 7 gal. >3 volumes: yes √ no ___ purged dry? yes ___ no √

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mS/cm	NTU	mg/L	C F	-	-	g/L	mV
Initial									
1 Volume									
2 Volumes									
3 Volumes	7.88	0.54	6.35	7.70	14.86				30.6

Sampling

Time of Sample Collection: 1800

Collection Method:

___ Disposable bailer

___ Teflon bailer

___ Dedicated pump

___ Submersible Pump

___ Low-Flow Sampling

X Other: Peri Pump

Analyses: / Analytical Method:

X VOCs - TCL 8260 ___ 503.1 ___ Other ___

X SVOCs PAHs

X Metals RCRA 8, Cr 6

___ PCB/Pest

___ MNA

___ Other

Observations

Weather/Temperature: _____

Sample Description: clear

Free Product? yes ___ no X describe _____

Sheen? yes ___ no X describe _____

Odor? yes ___ no X describe _____

Comments:

_____

_____

GROUND WATER SAMPLING RECORD

SITE Delphi Lockport Phase II DATE 11/8/06

PROJECT NUMBER:

SAMPLE ID : MW-6-F-5 (110806)

WELL ID : MW-6-F-5

SAMPLERS : J. Wold, Brian Hoffmire, Mike Nigro

Time Onsite: Time Offsite:

Depth of well (from top of casing) ..... 12.58 Time: 1541

Static water level (from top of casing) ..... 2.39 Time: 1540

Water level after purging (from top of casing) ..... 4.37 Time: 1600

Water level before sampling (from top of casing) ..... Time:

Purging Method:

- X Bailer
- Airlift
- Submersible
- Low-Flow Pump
- Peristaltic Pump
- Ded. Pump

Well Volume Calculation:

		1 volume	3 volumes
2 in. well:	ft. of water x 0.16 =	gal.	x 3 = gal.
3 in. well:	ft. of water x 0.36 =	gal.	x 3 = gal.
(4) in. well:	10.19 ft. of water x 0.65 =	6.6 gal.	x 3 = 19.8 gal.
6 in. well:	ft. of water x 1.47 =	gal.	x 3 = gal.

Volume of water removed: 20 gal.

>3 volumes: yes V no ___ purged dry? yes ___ no V

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mS/cm	NTU	mg/L	(C) F	-	-	g/L	mV
Initial									
1 Volume									
2 Volumes									
3 Volumes	7.66	.012	6.72	4.26	15.55	NR	NR	NR	-126.6

Sampling

Time of Sample Collection: 1605

Collection Method:

- ___ Disposable bailer
- ___ Teflon bailer
- ___ Dedicated pump
- ___ Submersible Pump
- ___ Low-Flow Sampling
- X Other: Peri Pump

Analyses: Analytical Method:

- X VOCs - TCL 8260 ___ 503.1 ___ Other ___
- X SVOCs TCL
- X Metals TAL + Cr6
- X PCB/Pest
- ___ MNA
- ___ Other

Observations

Weather/Temperature:

Sample Description:

Free Product? yes ___ no X describe

Sheen? yes X no ___ describe Petroleum

Odor? yes X no ___ describe

Comments:

GROUND WATER SAMPLING RECORD

SITE Delphi Phase II DATE 10/8/06

PROJECT NUMBER: 0056607

SAMPLE ID : ~~MW-~~ TK-4 (110806)

WELL ID : TK-4

SAMPLERS : T. Wolf, M Nigro, B. Hoffmire

Time Onsite: _____ _____

Time Offsite: _____ _____

Depth of well (from top of casing) ..... 14.54 Time: 1700

Static water level (from top of casing) ..... 9.05 Time: 1700

Water level after purging (from top of casing) ..... _____ Time: _____

Water level before sampling (from top of casing) ..... _____ Time: _____

Purging Method:

- ___ Airlift
- ___ Low-Flow Pump
- X Bailer
- ___ Peristaltic Pump
- ___ Submersible
- ___ Ded. Pump

Well Volume Calculation:

		1 volume	3 volumes
2 in. well:	___ ft. of water x 0.16 =	___ gal.	x 3 = ___ gal.
3 in. well:	___ ft. of water x 0.36 =	___ gal.	x 3 = ___ gal.
4 in. well:	~~5.49~~ ft. of water x 0.65 = 5.49	~~16.5~~ gal.	x 3 = 16.5 gal.
6 in. well:	___ ft. of water x 1.47 =	___ gal.	x 3 = ___ gal.

Volume of water removed: 17 gal. >3 volumes: yes V no ___ purged dry? yes ___ no V

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	~~m~~S/cm	NTU	mg/L	C F	-	-	g/L	mV
Initial									
1 Volume									
2 Volumes									
3 Volumes	8.28	1.104	0.8	7.70	13.81				9.5

Sampling

Time of Sample Collection: 1730

Collection Method:

- ___ Disposable bailer
- ___ Teflon bailer
- ___ Dedicated pump
- ___ Submersible Pump
- ___ Low-Flow Sampling
- X Other: Dedicated Pump (Peri)

Analyses:

- X VOCs - TCL 8260 ___ 503.1 ___ Other ___
- X SVOCs TCL
- X Metals TAL + Cr 6
- X PCB/Pest
- ___ MNA
- ___ Other

Observations

Weather/Temperature: _____

Sample Description: Clear

Free Product? yes ___ no X describe _____

Sheen? yes ___ no X describe _____

Odor? yes ___ no X describe _____

Comments:

GROUND WATER SAMPLING RECORD

SITE Delphi Phase II DATE 11/10/06

PROJECT NUMBER: 0056607

SAMPLE ID : MW8-003-B(111006)

WELL ID : MW8-003-B

SAMPLERS : B. Hoffmire, W. Upfold

Time Onsite: 1050

Time Offsite: 1155

Depth of well (from top of casing) ..... 14.15 Time: 1055

Static water level (from top of casing) ..... 5.28 Time: 1055

Water level after purging (from top of casing) ..... Time:

Water level before sampling (from top of casing) ..... Time:

Purging Method:

___ Airlift
___ Low-Flow Pump
X Bailer
___ Peristaltic Pump
___ Submersible
___ Ded. Pump

Well Volume Calculation:

		1 volume	3 volumes
2 in. well:	5.87 ft. of water x 0.16 =	1.419 gal.	x 3 = 4.3 gal.
3 in. well:	___ ft. of water x 0.36 =	___ gal.	x 3 = ___ gal.
4 in. well:	___ ft. of water x 0.65 =	___ gal.	x 3 = ___ gal.
6 in. well:	___ ft. of water x 1.47 =	___ gal.	x 3 = ___ gal.

Volume of water removed: 6.5 gal.

>3 volumes: yes X no ___ purged dry? yes ___ no X

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	mg/L	(C) F	-	-	g/L	mV
Initial									
1 Volume									
2 Volumes									
3 Volumes	7.69	1.772	5.45	7.56	13.90	NR	NR	NR	4.7

Sampling

Time of Sample Collection: 1135

Collection Method:

___ Disposable bailer
___ Teflon bailer
___ Dedicated pump
___ Submersible Pump
___ Low-Flow Sampling
X Other: Dedicated Pump (Peri)

Analyses:

X VOCs -
X SVOCs
X Metals
___ PCB/Pest
___ MNA
___ Other

Analytical Method:

8260 ___ 503.1 ___ Other ___

+ Cr6

Observations

Weather/Temperature: Cloudy, ~ 40°F

Sample Description: Clear

Free Product? yes ___ no X describe ___

Sheen? yes ___ no X describe ___

Odor? yes ___ no X describe ___

Comments:

1.50

GROUND WATER SAMPLING RECORD

SITE Delphi Phase II DATE 11/10/06

PROJECT NUMBER: 0056607

SAMPLE ID : MW7-A-6 (11106f)

WELL ID : MW7-A-6

SAMPLERS : B. Hoffmire, W. Upfold

Time Onsite: 1345 Time Offsite: 1430

Depth of well (from top of casing) ..... 14.25 Time: ____

Static water level (from top of casing) ..... 2.38 Time: ____

Water level after purging (from top of casing) ..... ____ Time: ____

Water level before sampling (from top of casing) ..... ____ Time: ____

Purging Method:

____ Airlift ____ Low-Flow Pump

__X__ Bailer ____ Peristaltic Pump

____ Submersible ____ Ded. Pump

Well Volume Calculation:

		1 volume	3 volumes
2 in. well:	11.87 ft. of water x 0.16 =	1.89 gal.	x 3 = 5.7 gal.
3 in. well:	____ ft. of water x 0.36 =	____ gal.	x 3 = ____ gal.
4 in. well:	____ ft. of water x 0.65 =	____ gal.	x 3 = ____ gal.
6 in. well:	____ ft. of water x 1.47 =	____ gal.	x 3 = ____ gal.

Volume of water removed: 9 gal. >3 volumes: yes X no ____ purged dry? yes ____ no X

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	ms/cm	NTU	mg/L	(C) F	-	-	g/L	mV
Initial									
1 Volume									
2 Volumes									
3 Volumes	9.32	1.521	48.5	6.70	15.27	NR	NR	NR	-2.8

Sampling

Time of Sample Collection: 1420

Collection Method:

____ Disposable bailer

____ Teflon bailer

____ Dedicated pump

____ Submersible Pump

____ Low-Flow Sampling

__Y__ Other: Reducted Rec. Pump

Analyses:

__X__ VOCs -

__X__ SVOCs

__X__ Metals

____ PCB/Pest

____ MNA

____ Other

Analytical Method:

8260 ____ 503.1 ____ Other ____

Observations

Weather/Temperature: ~ 45°F, Clear skies

Sample Description: Clear

Free Product? yes ____ no X describe ____

Sheen? yes ____ no X describe ____

Odor? yes ____ no X describe ____

Comments:

GROUND WATER SAMPLING RECORD

SITE Delphi Phase II DATE 11/10/06

PROJECT NUMBER: 00 56607

SAMPLE ID: MW9-101-A (111006)

WELL ID: MW9@101-A

SAMPLERS: B. Hoffmire, W. Uffold

Time Onsite: 1200 Time Offsite: 1330

Depth of well (from top of casing) 12.54

Static water level (from top of casing) ..... 5.50 Time: 1210

Water level after purging (from top of casing) ..... Time:

Water level before sampling (from top of casing) ..... Time: 1210

Time:

Purging Method:

- ___ Airlift
- ___ Low-Flow Pump
- Y Bailer
- ___ Peristaltic Pump
- ___ Submersible
- ___ Ded. Pump

Well Volume Calculation:

		1 volume	3 volumes
(2) in. well:	7.04 ft. of water x 0.16 =	1.12 gal.	x 3 = 3.4 gal.
3 in. well:	___ ft. of water x 0.36 =	___ gal.	x 3 = ___ gal.
4 in. well:	___ ft. of water x 0.65 =	___ gal.	x 3 = ___ gal.
6 in. well:	___ ft. of water x 1.47 =	___ gal.	x 3 = ___ gal.

Volume of water removed: 6.5 gal. >3 volumes: yes X no ___ purged dry? yes ___ no X

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	mg/L	(C) F	-	-	g/L	mV
Initial									
1 Volume									
2 Volumes									
3 Volumes	10.79	1.273	44.1	10.16	13.42	NR	NR	NR	-137.6

Sampling

Time of Sample Collection: 1305

Collection Method:

- ___ Disposable bailer
- ___ Teflon bailer
- ___ Dedicated pump
- ___ Submersible Pump
- ___ Low-Flow Sampling
- X Other: Dedicated peri pump

Analyses:

- X VOCs -
- X SVOCs
- X Metals
- ___ PCB/Pest
- ___ MNA
- ___ Other

Analytical Method:

8260 ___ 503.1 ___ Other ___

Observations

Weather/Temperature: ~ 40° F, Cloudy

Sample Description: Clear

Free Product? yes ___ no X describe ___

Sheen? yes ___ no X describe ___

Odor? yes ___ no X describe ___

Comments:

GROUND WATER SAMPLING RECORD

SITE Delphi Phase II DATE 11/10/06

PROJECT NUMBER: 056607

SAMPLE ID : 7-C-2(111006)

WELL ID : 7-C-2

SAMPLERS : B. Hoffmire, W. Upfold

	Time Onsite:	Time Offsite:
	0935	1045

Depth of well (from top of casing)	23.86	Time: 0945
Static water level (from top of casing)	6.10	Time: 0945
Water level after purging (from top of casing)		Time:
Water level before sampling (from top of casing)		Time:

Purging Method:

- ___ Airlift
- ___ Low-Flow Pump
- X Bailer
- ___ Peristaltic Pump
- ___ Submersible
- ___ Ded. Pump

Well Volume Calculation:

			1 volume	3 volumes
(2) in. well:	17.76	ft. of water x 0.16 =	2.841 gal.	x 3 = 8.52 gal.
3 in. well:		ft. of water x 0.36 =	___ gal.	x 3 = ___ gal.
4 in. well:		ft. of water x 0.65 =	___ gal.	x 3 = ___ gal.
6 in. well:		ft. of water x 1.47 =	___ gal.	x 3 = ___ gal.

Volume of water removed: 8.5 gal. >3 volumes: yes ___ no X purged dry? yes ___ no X

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mS/cm	NTU	mg/L	(C) F	-	-	g/L	mV
3 volumes ~~Initial~~	7.73	1.300	13.9	8.28	14.05	NR	NR	NR	22.1
1 Volume									
2 Volumes									
3 Volumes									

Sampling

Time of Sample Collection: 1025

Collection Method:

- ___ Disposable bailer
- ___ Teflon bailer
- ___ Dedicated pump
- ___ Submersible Pump
- ___ Low-Flow Sampling
- X Other: Dedicated Pump (Perf.)

Analyses:

- ___ VOCs -
- X SVOCs
- X Metals
- ___ PCB/Pest
- ___ MNA
- ___ Other

Analytical Method:

8260 ___ 503.1 ___ Other ___

+ CrC, TCN, Sulfate, Fe

Observations

Weather/Temperature: Cloudy ~ 40°F

Sample Description: clear

Free Product? yes ___ no X describe ___

Sheen? yes ___ no X describe ___

Odor? yes ___ no X describe ___

Comments:

GROUND WATER SAMPLING RECORD

SITE Delphi Phase II DATE 11/14/06

PROJECT NUMBER: 0056607

SAMPLE ID: MW7-P-1 (111406)

WELL ID: MW7-P-1

SAMPLERS: B. Hoffmire, W. Upfold

Time Onsite: 1120

Time Offsite:

Depth of well (from top of casing) ..... 19.61' Time: 1130

Static water level (from top of casing) ..... 2.10' Time: 1130

Water level after purging (from top of casing) ..... Time:

Water level before sampling (from top of casing) ..... Time:

Purging Method:

___ Airlift ___ Low-Flow Pump

___ Bailer X Peristaltic Pump

___ Submersible ___ Ded. Pump

Well Volume Calculation:

2.40

		1 volume	3 volumes
2 in. well:	17.51 ft. of water x 0.16 =	2.8 gal.	x 3 = 8.4 gal.
3 in. well:	___ ft. of water x 0.36 =	___ gal.	x 3 = ___ gal.
4 in. well:	___ ft. of water x 0.65 =	___ gal.	x 3 = ___ gal.
6 in. well:	___ ft. of water x 1.47 =	___ gal.	x 3 = ___ gal.

Volume of water removed: 1 gal. >3 volumes: yes ___ no X purged dry? yes ___ no X

Field Tests:

	pH	Cond.	Turb.	DO %	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	~~mg/L~~	C F	-	-	g/L	mV
Initial			36						
1 Volume									
2 Volumes									
3 Volumes	6.46	8.71		73.9	21.52	NR	NR	NR	67.5

Sampling

Time of Sample Collection: 1150

Collection Method:

X Disposable bailer

___ Teflon bailer

___ Dedicated pump

___ Submersible Pump

___ Low-Flow Sampling

X Other: Dedicated Peripump

Analyses:

X VOCs -

___ SVOCs

X Metals

___ PCB/Pest

___ MNA

___ Other

Analytical Method:

8260 ___ 503.1 ___ Other ___

Cr+6

Observations

Weather/Temperature: ~40°F, light rain and cloudy

Sample Description: Clear

Free Product? yes ___ no X describe ___

Sheen? yes ___ no X describe ___

Odor? yes ___ no X describe ___

Comments: BH & W.V. initially collected sample w/ peri pump, had to switch to bailer because the pump was not pulling the water.

WELL DEVELOPMENT DATA SHEET

Well Number: 7-A-6 Date: 11/5/06 Project Name: Delphi Phase II Project Number: 0056607

Development Technique: Peri Pump

Weather Conditions: _____

Static water level before development: 2.30 (feet below top of casing)

Bottom of well: 14.26 (feet below top of casing)

.16 gpf

1.9

Time Started: 0840 Time Finished: 0935

TIME	DTW	Pump (on/off)	Turb. (NTU)	Temp.	pH	Cond.	Flow	Comments
Initial Conditions	2.30	on	68	NR	→	→		
0900	3.37	on	76	NR	→	→		
	3.32	on	40	NR	→	→	→	Removed 6.5 gallons

NOTES: _____

WELL DEVELOPMENT DATA SHEET

Well Number: 7-C-2 Date: 11/8/06 Project Name: Delphi Phase II Project Number: 0056607

Weather Conditions: light rain, ~50°F

Development Technique: Dedicated bailer

Static water level before development: 5.01 (feet below top of casing)

Bottom of well: 23.86 (feet below top of casing) 23.86

Time Started: 0800 Time Finished: 0855

TIME	DTW	Pump (on/off)	Turb. (NTU)	Temp.	pH	Cond.	Flow	Comments
Initial Conditions	5.01'	NA	13.8	NR			→	
0825	9.60'	NA	278	NR			→	
0835	12.80'	NA	320	NR			→	
0845	14.40'	NA	993	NR			→	Removed 10 gallons
1100	8.44'	NA	320	NR			→	
1115	8.74'	NA	43.7	NR			→	
1120	8.81'	NA	40.1	NR			→	Removed 6 gallons

NOTES: 23.86 - 5.01 = 18.85 × 0.16 = 3.02 gallons = 1 well volume

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WELL DEVELOPMENT DATA SHEET

Well Number: MW-9-101-A Date: 11/8/06 Project Name: Delphi Phase II Project Number: 0056607

Development Technique: Bailer / Peri. Pump

Weather Conditions:

Static water level before development: 5.41 (feet below top of casing)
Bottom of well: 12.54 (feet below top of casing)

Time Started: 1055 Time Finished: 1220

TIME	DTW	Pump (on/off)	Turb.	Temp.	pH	Cond.	Flow	Comments
Initial Conditions		bailer	>500	NR	→			Removed 12 gallons with bailer
Peri Pump		on	1839					
"		on	363					Removed 15 gallons
"		on	203					
		ON	152					
		ON	85					
		ON	63.5					
	6.41	ON	42.9					Total removed 17 gallons

NOTES: 1.14 g per volume.

WELL DEVELOPMENT DATA SHEET

Well Number: MW8-3-B Date: 11/8/06 Project Name: Delphi Phase II Project Number: 0056607

Weather Conditions: CLOUDY OVERCAST ~50°F

Development Technique: ~~Disposable~~ bailer DEDICATED

Static water level before development: 5.23' (feet below top of casing)
Bottom of well: 14.15' (feet below top of casing)

Time Started: 0920 Time Finished: 1015

TIME	DTW	Pump (on/off)	Turb.	Temp.	pH	Cond.	Flow	Comments
Initial Conditions	5.23'	NA	24.1	NR	→	→	→	→
1000		NA	298.0	NR	→	→	→	
1005		NA	55.1	NR	→	→	→	
1010		NA	21.7	NR	→	→	→	
								10 gallons removed
~~1100~~								

NOTES: 14.15 - 5.23 = 8.92 x 0.16 = 1.43 1 well vol/vol

WELL DEVELOPMENT DATA SHEET

Well Number: SS-WMW-115 **Date:** 11/10/06 **Project Name:** Delphi Phase II **Project Number:** 005660

Weather Conditions: Cloudy, ~40°F

Development Technique: PERI Pump

Static water level before development: 2.80 (feet below top of casing)
Bottom of well: 4.10 (feet below top of casing)

Time Started: 0900 Time Finished: 0912

TIME	DTW	Pump (on/off)	Turb.	Temp.	pH	Cond.	Flow	Comments
Initial Conditions	2.80							
Purged well dry, water is still very turbid and dark in color, removed ~ 8oz. of H_2O								

NOTES: 4.10 - 2.80 = 1.30 x .08 = .104 gallons = 1 well volume,
10 well volumes = 1.04 gallons

WELL DEVELOPMENT DATA SHEET

Well Number: MW-P-1 Date: 11/10/06 Project Name: Delphi Phase II Project Number: 0056607

Weather Conditions: Cloudy, ~45°F

Development Technique: Dedicated bailer

Static water level before development: 9.08 (feet below top of casing)
Bottom of well: 19.65 (feet below top of casing)

Time Started: 0740 Time Finished: 0755

TIME	DTW	Pump (on/off)	Turb.	Temp.	pH	Cond.	Flow	Comments
Initial Conditions								
	9.08	ON	ERROR	NR →				
BAILED well DRY,	H_2O is still	very turbid,	removed 3.5 gallons of H_2O					

NOTES: 19.65 - 9.08 = 10.57 X 0.16 = 1.69 gallons is 1 well volume, 10 well volumes is 16.91 gallons

Appendix D
Laboratory Reports