



SITE SUMMARY REPORT

**CLOSED LANDFILL SITE
EPA ID NO. OHD004201091
ELYRIA, OHIO**

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1.0 INTRODUCTION

1.1 GENERAL

Remediation and Liability Management Company, Inc. (REALM), a wholly-owned subsidiary of General Motors (GM), is in receipt of the Ohio Environmental Protection Agency (Ohio EPA) letter dated August 24, 2006 regarding the REALM property ("the Site") at 1400 Lowell Street in Elyria, Ohio. This report was prepared to provide a Site summary in response to that Ohio EPA letter.

1.2 AREAS

A map presenting the Site, areas of Site-related historical activities, and potential areas of hazardous materials handling, is presented on Figure 1. These Site-related areas are discussed in further detail in Section 4.0.

1.3 SCOPE OF REPORT

In response to the Ohio EPA request for relevant information regarding the Site, this report presents the Site-related historical activities and potential areas of hazardous materials handling at the Site. The report also presents the results of a risk-based data screening for each potential area of interest and a risk evaluation using characterization data available from previous monitoring and investigation activities conducted at the Site.

This report was prepared based on REALM's internal files and selected Ohio EPA files.

1.4 REPORT ORGANIZATION

This report is organized as follows:

- Section 1.0 presents the introduction;
- Section 2.0 presents the description of the Site and the Site background;
- Section 3.0 presents the regional and Site setting;
- Section 4.0 presents the Site-related areas (description, risk evaluation/assessment);
- Section 5.0 presents the conclusions; and
- Section 6.0 presents references.

2.0 DESCRIPTION OF SITE

2.1 SITE LOCATION

The Site is located on Lowell Street in Elyria, Lorain County, Ohio, approximately 25 miles southwest of Cleveland, Ohio. The Site's identification number is OHD004201091.

2.2 PROPERTY OWNERSHIP HISTORY

In 1946, GM constructed a manufacturing facility in Elyria, Ohio adjacent to the Site. The facility's land had previously been used for agricultural purposes. The facility manufactured automotive parts from 1952 until its closure in 1988 (Ecology, 1991). In October 1989, a 141-acre parcel that included the facility's buildings (facility) was sold to Northern Ohio Limited Partnership. GM retained ownership of the remainder of the property (Site) that included the Closed Landfill Area. GM transferred ownership of the Site to REALM, a wholly owned subsidiary of GM, on August 6, 1999. The Site map is presented on Figure 1.

2.3 HISTORICAL OPERATIONS

During the initial operating stages of the facility, manufactured products included wheel covers, bumper guards, auto grills, hood hinges, die cast parts, foam instrument panels and jet engine turbine blades. Beginning in 1984, products included seat cushions, metal seat frames and hinges, sunroof assemblies and automotive trim. Electroplating was a process used in the manufacture of many of the facility products (Ecology, 1991).

While in operation, four basic types of wastewater were generated at the former facility (acid/alkali or metal bearing wastewater, chromic acid bearing wastewater, cyanide based wastes and rinses, and cleaner pre-soaked based wastes). The wastewater generated from the facility's electroplating lines was neutralized at the facility's former wastewater treatment plant (WWTP) and the treatment sludges were placed into three former surface impoundments located at the Site. The majority of the electroplating operations at the facility were discontinued by July 31, 1984. Subsequently, Fisher Guide Division (FGD) of GM incorporated a plate filter press into the WWTP process to dewater the sludge and to eliminate any further need for the surface impoundments (Ecology, 1991). No facility process sludges were placed into the surface impoundments

at the Site after August 1986 (Fisher Guide, 1987). All production at the former facility ceased in July 1988 (Fisher Guide, 1988).

Prior to selling the facility parcel to Northern Ohio Limited Partnership, facility closure activities were conducted from July 1987 through July 1988. During the closure activities, sludges dewatered at the facility's WWTP's plate filter press were disposed off of the Site at an appropriately licensed disposal facility (WSI, 1988). The facility's WWTP was subsequently decontaminated (Ecology, 1991). The facility closure activities ensured that all of the facility's Resource Conservation and Recovery Act (RCRA) treatment, storage, and disposal (TSD) units were closed in accordance with plans and specifications approved by Ohio EPA and/or United States Environmental Protection Agency (USEPA) (Fisher Guide, 1988). A RCRA closure plan was conditionally approved by Ohio EPA in August 1987. The Site's surface impoundments were closed and the sludges were solidified with cement kiln dust. The solidified sludges were placed into a landfill (Closed Landfill Area) that was constructed over the Site's former surface impoundments. The Closure Certification Report (WSI, 1988) for the surface impoundments, landfill, and RCRA units was submitted to Ohio EPA on September 16, 1988.

2.4 RAW MATERIAL AND WASTE STORAGE AND HANDLING AREAS

2.4.1 UNDERGROUND STORAGE TANKS

There were no known underground storage tanks at the Site.

2.4.2 ABOVE GROUND STORAGE TANKS

One above ground storage tank was present at the Site. The former 2,310,000-gallon fuel oil tank is described in Section 4.11.

2.4.3 DIE STORAGE AREAS

Two former die storage pad areas were present at the Site. This area is described in Section 4.8.

2.4.4 SPILLS AND/OR RELEASES

An interview with a former employee conducted in March 2007 identified two release events that occurred between the mid-1970s and the mid-1980s. According to the former employee, both releases were collected by the sewer system and ultimately discharged through the former NPDES Outfall 001.

One release event occurred when a heat exchanger at the facility ruptured and hexavalent chromium mixed with the cooling water. According to the former employee, the impacted cooling water went to a cooling tower on the roof, subsequently overflowed into the roof storm drains, and then entered the storm sewer system which discharged to the Site's former NPDES Outfall 001. This release was reported to Ohio EPA at that time.

A second release event occurred, according to the former employee, when a copper bath at the facility overflowed and reached the storm sewer system which discharged to the Site's former NPDES Outfall 001. This release was reported to Ohio EPA at that time.

There are no other known spills or releases at the Site.

2.5 HISTORICAL WASTE MANAGEMENT PRACTICES

2.5.1 HAZARDOUS WASTE MANAGEMENT

Three former sludge dewatering impoundments (surface impoundments) at the Site were used to dewater metal hydroxide wastewater treatment sludge resulting from the facility's electroplating operations (WSI, 1988). Prior to the 1970s, the sludges were settled in thickening tanks and removed for off-Site disposal (Ecology, 1991). In the early 1970s, the treatment sludges were placed into three (200 feet wide by 500 feet long) settling surface impoundments that were constructed at the Site with earthen berms. The impoundments were closed and the sludges were removed and solidified with cement kiln dust. The solidified sludges were placed into a landfill (Closed Landfill Area) that was constructed over the Site's former surface impoundments. The Closure Certification Report (WSI, 1988) for the surface impoundments, landfill, and RCRA units was submitted to Ohio EPA on September 16, 1988.

Monitoring and maintenance of the Closed Landfill Area have been performed in accordance with the Post-Closure Plan dated September 23, 1992 prepared by Weston Services, Inc.; the Amendment to Approved Post-Closure Plan (Cap Maintenance) dated

May 24, 2001 prepared by Conestoga-Rovers & Associates (CRA); and the Groundwater Monitoring Plan (GWMP) dated December 11, 2001. The Closed Landfill Area is described in Section 4.2.

A "RCRA Part B-Post Closure Permit Application" was submitted in November 1988. This application reflected that no hazardous wastes were currently being generated, treated, or stored at the facility.

2.5.2 SOLID WASTE MANAGEMENT

An open burn area was used for open burning and placement of general facility trash from 1947 to 1974 (Ecology, 1991) and is described in Section 4.3.

2.5.3 WASTEWATER MANAGEMENT

There were no wastewater management practices at the Site. Leachate associated with the Closed Landfill Area is collected in leachate holding tanks that are pumped out on a periodic basis and disposed at an off-Site TSD facility.

While in operation, facility wastewater was managed at the facility's former WWTP. Because the WWTP was part of the facility parcel and not on the Site, WWTP processes are not discussed in this report. A WWTP effluent line carried the treated effluent from the WWTP across the northwestern portion of the Site to the east central portion of the Site. The effluent line area is described in Section 4.10.

As identified in an interview with a former employee conducted in March 2007, drainage water from the three surface impoundments was collected during their operation, and discharged to the sewer line and subsequently to the Site's former NPDES Outfall 001.

2.5.4 STORMWATER MANAGEMENT

There are ditches in the vicinity of the Closed Landfill Area that direct stormwater runoff from the capped landfill to letdowns and perimeter toe swales to the Site ditches. The Site has a general NPDES permit (Permit 3GR00486*BG) for stormwater management. This permit is currently under review by Ohio EPA.

2.6 REGULATORY HISTORY

2.6.1 WASTEWATER DISCHARGE PERMITS

The effluent from the facility's former WWTP was discharged from 1956 until 1988 to a storm sewer identified as Outfall 001 under a National Pollutant Discharge Elimination System (NPDES) permit (permit number S301*BD) (Fisher Guide, November 1985). All production at the former facility ceased in July 1988 (Fisher Guide, 1988).

2.6.2 STORMWATER DISCHARGE PERMITS

The Site currently has one general NPDES permit regarding stormwater management. The permit number is 3GR00486*BG. This permit is currently under review by Ohio EPA.

2.6.3 AIR PERMITS

There were no air permits for the Site.

2.6.4 RCRA HAZARDOUS WASTE PERMITS

In 1987, prior to the sale of the 141-acre former facility parcel including the facility building, GM sought to reclassify the entire facility's status from an interim TSD facility to a generator. At that time, GM withdrew its previously submitted Part A Application (submitted November 1980) and Part B Application (submitted November 8, 1985).

The wastewater sludges generated at the facility were classified as RCRA waste code F006 wastes (WSI, 1988). The sludges primarily contained cadmium, chromium, nickel and cyanide (CRA, 2004).

2.6.5 RCRA HAZARDOUS WASTE CLOSURES

After both USEPA and the Ohio EPA approved the "Closure Plan - Hazardous Waste Management Facilities" prepared by GM in May 1987 and after the Closure Plan was amended to incorporate agency comments, Closure activities were conducted. The impoundments were closed, and the sludges were solidified with cement kiln dust. The

treated materials were placed into the existing closed landfill. This area is regulated as a closed hazardous waste disposal unit (Fisher Guide, 1988) and is currently in the post-closure monitoring phase. The Closed Landfill Area is described in Section 4.2.

In September 1988, GM submitted the "Closure Certification Report" (WSI, 1988) for the facility to the USEPA and the Ohio EPA to satisfy the closure certification requirements. The Closure Certification Report documented the closure of the RCRA waste management units [the toluene diisocyanate (TDI) neutralization treatment unit, the indoor and outdoor waste drum storage pads, and the three sludge dewatering surface impoundment units] at the former facility. Only the former surface impoundments were located on the Site.

A "RCRA Part B-Post Closure Permit Application" was submitted in November 1988. This application reflected that no hazardous wastes were currently being generated, treated, or stored at the facility.

2.6.6 SUMMARY OF PREVIOUS INVESTIGATIONS

Between 1987 and 1988, a series of tasks were performed at the former facility to identify contaminated materials, waste, and waste residues for assuring the environmentally safe closure of the former facility. General housekeeping at the facility was good due to efforts to clean areas prior to facility expansions, during process decommissioning, or during process change-overs. Minor contaminated materials plus hazardous and nonhazardous wastes or potential wastes were identified. Further investigation was warranted in some areas and recommendations were made regarding facility closure.

Eleven investigative test trenches were excavated on the Site, east of the former facility's north-south access road. Fourteen soil borings were completed parallel to the former facility's north-south access road. Both the investigative test trench samples and the soil borings were analyzed for total chromium, copper, nickel, and volatile organic compounds (VOCs), with the exception of four soil borings west of the road along the southern end of the road which were not analyzed for VOCs. An examination of the results of the soil samples concluded that inorganic contamination was found on the Site, east of the access road. The inorganic contamination did not extend off the Site, west of the road (i.e. onto the parcel which included the facility building).

U.S. EPA tasked Ecology and Environment, Inc. (Ecology) to conduct a Screening Site Inspection (SSI) of the Site in 1990. The SSI report was prepared in 1991 and the report consisted of a historical uses summary, interviews with Site representatives, a

reconnaissance inspection, collection of seven soil samples from three former waste placement areas and a discussion of migration pathways. The purpose of the reconnaissance inspection was to refine a preliminary hazard ranking system score for the Site; establish potential priority for the NPL (National Priorities List), and to identify if the Site was a candidate for further investigation (Ecology, 1991).

In June 2000, CRA conducted further investigation of the three former placement areas (Open Burn Area, Northern Sludge Area and the Southern Sludge Area). Nine monitoring wells ("FD" Wells) were installed at the perimeter of the Site and groundwater samples were collected for analysis (CRA, 2004). All wells were analyzed for dissolved metals, general chemistry and VOCs, with the exception of FD-09 which was only analyzed for VOCs due to insufficient well recovery volume.

3.0 REGIONAL AND SITE SETTING

3.1 ADJACENT LAND USE

Adjacent properties have been used for industrial, commercial, and agricultural purposes. The Site is bounded to the west by the former facility, which is currently used for commercial/industrial purposes. Vacant industrial and agricultural properties bound the landfill parcel to the southwest, south, and east. A 193-foot wide railway right-of-way separates the Site from additional commercial and industrial properties further north of the Site (CRA, 2004).

3.2 WATER SUPPLY AND GROUNDWATER USE

Based on a file search of Ohio Department of Natural Resources (ODNR) logs for off-Site wells, the closest well is approximately 0.6 mile to the northwest of the Site. This well is not downgradient of the Site. In general, wells in the Berea Sandstone aquifer in the vicinity of the Site are capable of producing a maximum of 5 to 25 gallons per minute (gpm) of water; however, typically 3 to 10 gpm of water are produced under long-term withdrawal. Areas within the City of Elyria have access to the public water supply including the area in the vicinity of the Site. The City of Elyria obtains its water from Lake Erie. Installation of private potable water supply wells is discouraged by the permitting and approvals process, and by the associated costs of installing, operating, and maintaining a private water supply well. Some locations within Lorain County may also experience issues regarding groundwater taste and odor, which also discourages private water well installation (CRA, 2004).

3.3 TOPOGRAPHY

Lorain County is located on the eastern fringe of the till plain of the Great Central Lowlands. The topography in the vicinity of the Site is relatively flat to gently rolling (CRA, 2006). The Site property is wooded, but includes a maintained clearing around the Closed Landfill Area.

3.4 CLIMATE

Elyria experiences a continental climate with strong modifying influences due to the presence of Lake Erie. Summers are moderately warm and humid. Winters are cold

and cloudy with the average temperatures in December, January, and February below freezing. Consistent with a continental climate, precipitation can vary widely, however it is normally abundant and well distributed over the year. The most frequent precipitation is in May through September, and winter is the driest season (CRA, 2006).

3.5 REGIONAL GEOLOGY AND SITE GEOLOGY

The general area was subject to Wisconsin glacialiation, leaving a thin layer of drift material known as the Hiram Till over the southern two-thirds of Lorain County and lacustrine silty clay across the northern one-third of the county. The drift material consists of clay-rich soil up to 25 feet in thickness. Elyria lies on glaciated, lake plain deposits and beach ridges of Old Lake Whittlesey, Lake Maumee, and Lake Warren (Stout et al., 1943). The area is located near the eastern boundary of the till plain area of the Central Lowland physiographic province (CRA, 2001).

The bedrock underlying Lorain County consists of relatively flat-lying sedimentary strata and includes the upper Devonian and lower Mississippian Cleveland Shale, Bedford Shale, Berea Sandstone, and Cuyahoga Shale. Bedrock dips slightly to the south or southeast. The most important bedrock aquifer in Lorain County is the Berea Sandstone which typically yields 3 to 10 gpm under long-term withdrawal (Barber, 1988).

There are three main stratigraphic units at the Site. The stratigraphic units proceeding from the surface downwards are drift (clay till), Berea Sandstone, and Bedford Shale. All three stratigraphic units are described in the Post-Closure Plan, Section E-2b dated September 2, 1993 (WSI, 1993). The two water bearing horizons for post-closure monitoring of the landfill are:

1. the Till unit and the contact with the Berea Sandstone (referred to as Till Contact unit); and
2. the upper portion of the Berea Sandstone aquifer (referred to as the Bedrock unit).

For the purpose of evaluating groundwater flow across the entire Site, groundwater is assumed to travel in one stratigraphic horizon which straddles both the Till Contact unit and the Bedrock unit. Because groundwater flow in the Till Contact unit and the Bedrock unit is observed as having similar elevations and groundwater flow patterns when evaluated on a Site-wide basis, and because these two units are in contact with

each other, one groundwater flow horizon is representative of Site conditions for the purposes of the risk screening and evaluation in this report.

3.6 REGIONAL AND SITE HYDROGEOLOGY

The regional hydrogeologic influences in the vicinity of the Site are the northward-flowing Black River which is located less than 1 mile to the east of the Site, and Lake Erie which is located approximately 8 miles to the north of the Site.

Representative groundwater elevations and contours for the groundwater flow zone are presented on Figure 2 (February 15, 2005) and Figure 3 (February 27, 2007). Groundwater flows generally to the northeast beneath the landfill, then east and northeast across the remainder of the Site. There are also times when a component of flow has been detected to the southwest beneath the landfill.

Figures 2 and 3 were generated by using an approximate average water level in appropriate, nested monitoring wells, for contouring purposes.

3.7 REGIONAL AND SITE HYDROLOGY

There is no known groundwater discharge to surface water in the immediate vicinity of the Site. In general, precipitation that falls on the Site is diverted from the capped landfill via riprap swales to adjacent drainage ditches. Intermittent flow has been observed in the Site drainage ditches after precipitation events. The surface water flows off of the Site via sewers and drainage ditches.

There are low lying areas to the east and west of the landfill that have been observed to be inundated with surface water at times. The closest major water body is the West Branch of the Black Creek which is more than 0.8 mile to the east of the Site.

3.8 GROUNDWATER ASSESSMENTS AND MONITORING PLANS

A groundwater monitoring well network in the vicinity of the Closed Surface Impoundments/Closed Landfill Area was first established at the Site in 1982. Statistically significant increases were noted for some indicator parameters in 1985. A Groundwater Quality Assessment Program (GWQA) was initiated in 1985. New wells were added (some of which were subsequently abandoned) in 1985, 1987, and 1988. The

GWQA determined that no release of hazardous constituents to the groundwater had occurred, and the Ohio EPA permitted the Site to return to semi-annual detection monitoring (CRA, 2001).

Statistically significant increases were again noted for some indicator parameters in 1990. A GWQA was initiated for a second time in 1992. The GWQA determined that no release of hazardous constituents to the groundwater had occurred, and the Ohio EPA permitted the Site to return to semi-annual detection monitoring (CRA, 2001).

A revised Groundwater Monitoring Program was implemented in 1993. Ohio EPA approved the changes in January 1994. New wells were installed in 2000 as part of the hydrogeologic investigation of the Site. The results of the hydrogeologic investigation were submitted to Ohio EPA, and the findings of that investigation were used to make revisions to the groundwater monitoring program in 2001 (CRA, 2001). The Revised Post-Closure GWMP dated December 2001 was approved by the Ohio EPA on February 13, 2002. On March 2, 2004, REALM submitted to the Ohio EPA for approval, a proposed revised Groundwater Monitoring Work Plan to replace the existing GWMP. The Ohio EPA requested several revisions to the March 2004 GWMP. In April 2007, REALM submitted to the Ohio EPA for approval, a proposed Revised Post-Closure Groundwater Monitoring Plan - 2007 which incorporated Ohio EPA's requested revisions and is currently awaiting approval.

3.9 PRELIMINARY CONCEPTUAL SITE MODEL (CSM) FOR HUMAN EXPOSURE

Based on available information regarding land and groundwater use at and adjacent to the Site, as described in Sections 2 and 3, a preliminary conceptual site model (CSM) for potential human exposure in the area of the Site was developed. This CSM identifies potentially exposed populations under current and reasonably expected future land use, potential routes of exposure, and environmental media to which these populations may become exposed. The preliminary CSM for the Site is provided in Table 1. The discussion below presents the likely exposure scenarios as summarized in the preliminary CSM.

The preliminary CSM was used to guide identification of appropriate screening criteria used in the evaluation of existing Site characterization data discussed in Section 4.0.

3.9.1 ON-SITE EXPOSURE

The potentially exposed populations on Site include:

- Routine Workers;
- Maintenance Workers; and
- Trespassers.

Routine workers consist of persons who typically spend most of the work day indoors conducting industrial or commercial activities. Currently, routine workers are not present at the Site. In the future, routine workers, when outdoors intermittently, could be exposed to surface soil in areas currently without cover (e.g., pavement, buildings) or in areas where cover may be removed and left uncovered in the future. They could be exposed to volatile constituents in subsurface soil or in shallow groundwater via vapor migration into indoor air in locations where buildings may exist in the future. The exposure of routine workers should be evaluated if/when redevelopment is proposed. Exposure of such workers to groundwater via potable or non-potable use is not expected. On-Site groundwater is not currently used, nor will it be used in the future under any reasonable scenario.

Maintenance workers consist of persons at the Site who may conduct occasional subsurface construction or maintenance activities (i.e., installation or repair of underground utilities, removal or repair of pavement, etc.). Subsurface activities could result in exposures to surface/subsurface soil and to shallow groundwater. The exposure of future maintenance workers would be eliminated by using appropriate personal protective equipment (PPE).

As with routine workers, trespassers could be potentially exposed to surface soil in areas currently without cover or in areas where cover may be removed in the future and left uncovered. Currently the Site is surrounded by a fence which limits trespassing. There has been, however, occasional evidence of trespasser activities at the Site.

Redevelopment worker (e.g., workers exposed to soil during longer term construction activities) exposures were not evaluated in this current assessment since redevelopment work is not anticipated or planned in the near future at this site. In the event that redevelopment was to be planned for the Site, characterization data may be reevaluated to determine whether controls will be necessary to ensure worker protection during such activities.

3.9.2 OFF-SITE EXPOSURE

The potentially exposed populations in areas surrounding the Site include:

- Residents;
- Routine Workers; and
- Maintenance Workers.

No Site-related soil contamination is known to exist in off-Site areas. Off-Site residents and routine workers could be exposed to constituents in soil from the Site due to windblown dust and vapors emanating from areas currently without cover or from areas which may be uncovered in the future. However, the majority of the Site is currently heavily vegetated, which substantially reduces the potential for on-Site dust emissions via wind erosion. Therefore, the evaluation of this scenario is considered highly conservative. If impacted groundwater were found to have migrated off of the Site, exposures may also include exposure to volatile constituents in shallow groundwater via vapor migration into indoor air.

Off-Site residents and routine workers are not anticipated to be exposed via potable or non-potable use of groundwater, because a municipal water supply is available for areas adjacent to the Site. However, REALM is unaware of any current restrictions on groundwater use in the area. A file search of ODNR logs for off-Site wells in the vicinity of the Site was conducted (CRA, 2004). REALM has not conducted a door-to-door well survey in the surrounding area. Therefore, the preliminary CSM conservatively assumes potential potable and nonpotable use of groundwater in the vicinity of the Site is possible.

Off-Site maintenance workers could be exposed to soil constituents via windblown dust and vapors from areas at the Site (as described for the other off-Site receptors above) and to shallow groundwater during occasional subsurface construction or maintenance activities (as described for on-Site maintenance workers above).

4.0 DATA SUMMARY AND EVALUATION

All the sample locations with soil or groundwater data are presented on Figure 4. All the soil and groundwater data collected since 1982 and evaluated as part of this analysis, are included on a CD in Appendix A. The results of the data screening for soil at all areas are presented on Figure 5 and are summarized in Table 2. The results of the data screening for groundwater are presented on Figures 6a and 6b and are summarized in Table 3. Table 4 presents a listing of Site areas, and associated sample locations and investigative programs.

4.1 RISK-BASED SCREENING AND EVALUATION

This section summarizes the process and screening criteria used to evaluate soil and groundwater data collected at the Site. The evaluation process follows the general approach presented in GM's *Health-Based Evaluation of Data to Streamline RCRA Facility Investigations (RFIs) at General Motors Facilities* (ENVIRON, 2003), which GM has used in conducting RCRA Corrective Action at other GM sites in USEPA Region 5, including sites in Ohio.

4.1.1 RISK BASED DATA SCREENING

The data evaluation process entails a comparison of soil and groundwater data against risk-based screening criteria to segregate the characterization data that indicate a higher potential for health significance under current and reasonably expected future land use from those that indicate a low potential. The data screening is conducted in two successively focused levels of data segregation. The first level of data segregation identifies for review a sub-set of the chemicals with detected concentrations above conservative screening criteria while the second level of segregation highlights the concentrations that have the highest potential for health significance among this sub-set of chemicals.

The screening criteria were selected based on exposure scenarios for the Site, summarized on the preliminary conceptual site model (CSM) (Table 1). Details of the derivation of these screening criteria are provided in Appendix B. The results of the data screening are summarized on Tables 2 and 3, and are presented on Figures 5, 6a, and 6b.

The tables present ratios of the highest concentrations at an area to each of the screening criteria. The databox figures show the Site-wide spatial distribution of chemicals with concentrations that exceed the conservative screening criteria used in the first level of data segregation. Concentrations that exceed screening criteria used in the second level of segregation are highlighted on these figures to ensure that their potential significance is not overlooked during review of the screening results. Further discussion of the data screening process is provided below and the screening results for each of the areas investigated are discussed in Section 4.2 through Section 4.11.

The chemical list presented on the databox figures is based on a comparison of the highest soil and groundwater concentrations against the following conservative screening criteria:

- Risk-Based Residential Soil Direct Contact and Inhalation Criteria calculated at a target cancer risk level (TCRL) of 10^{-5} and a target hazard quotient (THQ) of 1 (for soil);
- Risk-Based Residential Soil Volatilization to Indoor Air Criteria calculated at a TCRL of 10^{-5} and a THQ of 1 (for soil); and
- Drinking Water Criteria¹ (for groundwater)

All chemicals with soil or groundwater concentrations exceeding one or more of these screening criteria are presented on the databox figures.

Because future residential development is not reasonably expected at the Site, soil concentrations are highlighted on the databox figure (Figure 5) when the concentrations are higher than the following conservative risk-based screening criteria that correspond to the key soil exposure scenarios in the preliminary CSM:

- Risk-Based Routine Worker Soil Direct Contact and Inhalation Criteria calculated at a TCRL of 10^{-5} and a THQ of 1; and
- Risk-Based Routine Worker Soil Volatilization to Indoor Air Criteria calculated at a TCRL of 10^{-5} and a THQ of 1.

The soil data were not compared to criteria based on the migration of soil constituents to groundwater because it is believed that given the history of the Site and lack of active operations since closure in 1988, and given that any soil migration to groundwater

¹ The drinking water criteria are based on the following hierarchy: Ohio MCL, Federal MCL, risk-based equivalent drinking water levels calculated at a TCRL of 10^{-5} and THQ of 1.

would already have occurred, that therefore sufficient groundwater monitoring data have been collected at the Site to evaluate any significant effects of soil constituents on groundwater quality by monitoring the groundwater pathway(s) directly.

To facilitate risk-based evaluation of the groundwater monitoring data, groundwater monitoring wells at the Site were assigned to one of two groups: interior and perimeter. Because on-Site groundwater use is not a current or reasonably expected future exposure scenario, groundwater data collected from interior monitoring wells were compared to only non-potable screening criteria, as defined below. Data collected at the perimeter monitoring wells were also compared to the drinking water screening criteria, in addition to being compared to non-potable screening criteria.

Groundwater concentrations in the Site perimeter monitoring wells are highlighted on the databox figures when they are higher than the following conservative, risk-based, screening criteria that correspond to the key off-Site groundwater exposure scenarios in the preliminary CSM:

- Drinking Water Criteria;
- Risk-Based Maintenance Worker Groundwater Contact and Inhalation Criteria at a TCRL of 10^{-5} and a THQ of 1; and
- Risk-Based Residential² Groundwater Volatilization to Indoor Air Criteria calculated at a TCRL of 10^{-5} and a THQ of 1.

Groundwater concentrations in monitoring wells located within the interior portion of the Site are highlighted on the databox figures when they are higher than the following conservative, risk-based, non-potable, screening criteria that correspond to the key on-Site groundwater exposure scenarios in the preliminary CSM:

- Risk-Based Maintenance Worker Groundwater Contact and Inhalation Criteria at a TCRL of 10^{-5} and a THQ of 1; and
- Risk-Based Residential Groundwater Volatilization to Indoor Air Criteria calculated at a TCRL of 10^{-5} and a THQ of 1.

² Residential groundwater volatilization to indoor air criteria were used as a conservative surrogate for evaluating routine worker groundwater volatilization at the site.

4.1.2 PRELIMINARY HUMAN HEALTH RISK EVALUATION

Using all available characterization data collected at the Site, a preliminary human health risk evaluation was performed to evaluate the potential significance of reasonable maximum exposures to affected environmental media under current and reasonably expected future land use at and around the Site. The methods used in the risk evaluation are based on USEPA risk assessment guidance. The results of the risk evaluation can be used to identify where a release of hazardous constituents from the Site may cause reasonable maximum exposures to be significant enough to warrant further action.

The scope of the human health risk evaluation is summarized in the preliminary conceptual site model (CSM) shown in Table 1 and discussed above in Section 3.9. The details of the risk evaluation methodology and calculations are presented in Appendix B. Several underlying assumptions used in these risk calculations are very conservative. For example:

- Potential exposures were conservatively evaluated using the standard default exposure factors recommend by USEPA (1991), as opposed to the use of Site-specific factors;
- Exposures of maintenance workers and trespassers to constituents in soil were conservatively evaluated using the exposure factors for routine workers; and
- Soil exposure concentrations for all receptors were based on the maximum detected results observed at any depth for most chemicals. Similarly, groundwater exposure concentrations were based on the maximum concentrations ever detected among all wells at the Site.

Uncertainties associated with these and other assumptions used in the risk evaluation are further discussed in Appendix B. The findings of the risk evaluation are summarized in the following sections by area for the soil in Sections 4.2 through 4.11, and on a Site-wide basis for groundwater in Section 4.12.

4.2 CLOSED SURFACE IMPOUNDMENTS/CLOSED LANDFILL AREA

4.2.1 GENERAL DESCRIPTION AND HISTORICAL OPERATIONS

The Closed Landfill Area is located in the southwestern portion of the Site. This area is approximately 5.1 acres in size.

Three sludge dewatering impoundments were used to dewater metal hydroxide wastewater treatment sludge resulting from electroplating operations (WSI, 1988). Prior to the 1970s, the sludges were settled in thickening tanks and removed for off-Site disposal (Ecology, 1991). In the early 1970s, the treatment sludges were placed into three (200 feet wide by 500 feet long) settling surface impoundments that were constructed at the Site with earthen berms. The wastewater sludges generated at the former facility were classified as RCRA waste code F006 wastes (WSI, 1988). The sludges primarily contained cadmium, chromium, nickel and cyanide (CRA, 2004). A RCRA closure plan was conditionally approved by Ohio EPA in August 1987. The impoundments were closed and the sludges were removed and solidified with cement kiln dust. The solidified sludges were placed into a landfill (Closed Landfill Area) that was constructed over the Site's former surface impoundments. The Closure Certification Report (WSI, 1988) for the surface impoundments, landfill and RCRA units was submitted to Ohio EPA on September 16, 1988. This Closed Landfill Area is regulated as a closed interim status hazardous waste disposal unit (Fisher Guide, 1988) and is currently in its post-closure monitoring.

Monitoring and maintenance of the Closed Landfill Area have been performed in accordance with the Post-Closure Plan dated September 23, 1992; the Amendment to Approved Post-Closure Plan (Cap Maintenance) dated May 24, 2001; and the GWMP dated December 11, 2001.

The Closed Landfill Area has been the most investigated area of the Site. Since monitoring first began in 1982, 887 samples have been collected from a total of 28 locations, and 16,321 results have been performed. Groundwater results are summarized on Table 3 and are presented in Appendix A.

4.2.2 CURRENT STATUS

The Closed Landfill Area is regulated as a closed interim status hazardous waste disposal unit (Fisher Guide, 1988) and is currently in the post-closure monitoring phase.

An analysis of this Closed Landfill Area is not discussed in this report because the Closed Landfill Area is monitored in accordance with the Post-Closure Plan, the Amendment to Approved Post-Closure Plan (Cap Maintenance), and the GWMP. The results of the groundwater monitoring are submitted to the Ohio EPA.

4.3 OPEN BURN AREA

4.3.1 GENERAL DESCRIPTION AND HISTORICAL OPERATIONS

The Open Burn Area is located in the north central portion of the Site. This area is approximately 4.8 acres in size.

This area was used for open burning and placement of general facility trash from 1947 to 1974 (Ecology, 1991). Materials were burned and/or placed in this area. This area is now covered with soil and is overgrown.

In 1990, the USEPA conducted a screening site inspection (SSI) and collected two soil samples from each of three areas (Open Burn Area, Northern Sludge Area, and Southern Sludge Area). The USEPA soil samples contained a number of Target Analyte List (TAL) and Target Compound List (TCL) compounds with concentrations above Site background levels (Ecology, 1991).

4.3.2 CURRENT STATUS

As presented on Table 2 and shown on Figure 5, none of the analytical results for the soil sampling conducted in the Open Burn Area have detected concentrations greater than the screening criteria. Appendix B presents the preliminary risk evaluation performed to evaluate the current and reasonably expected future receptors discussed in Section 3.9. Soil concentrations in the Open Burn Area do not present a significant risk to these receptors.

4.4 NORTHERN SLUDGE AREA

4.4.1 GENERAL DESCRIPTION AND HISTORICAL OPERATIONS

The Northern Sludge Area is located in the northeastern portion of the Site. This area is approximately 6.8 acres in size.

This area was used for placement of WWTP sludges from 1956 to 1967 (Ecology, 1991). Approximately 25,000 cubic yards of material were placed within this area. Currently this area is overgrown.

In 1990, the USEPA conducted a SSI and collected two soil samples from each of three areas (Open Burn Area, Northern Sludge Area, and Southern Sludge Area). The USEPA soil samples contained a number of TAL and TCL compounds with concentrations above Site background levels (Ecology, 1991).

4.4.2 CURRENT STATUS

As presented on Table 2 and shown on Figure 5, none of the analytical results for soil sampling conducted in the Northern Sludge Area exhibited detected concentrations above screening criteria with the exception of chromium (total). Chromium (total) was detected at a concentration of 34,500 mg/kg in boring S4 at a depth of 1 foot below ground surface (ft bgs) and at a concentration of 10,000 mg/kg in boring S3 at a depth of 2.5 ft bgs. These concentrations are greater than the routine worker soil direct contact and inhalation screening criterion of 4,190 mg/kg. This criterion is conservatively based on the toxicity of hexavalent chromium. It is unlikely that the chromium (total) concentrations in these two borings are entirely hexavalent.

Appendix B presents the preliminary risk evaluation performed to evaluate current and reasonably expected future receptors discussed in Section 3.9. With the exception of on-Site routine worker soil direct contact and inhalation, as discussed in Appendix B, soil concentrations do not present significant risks to these receptors.

With regards to potential exposure of on-Site routine workers, if such workers are present at the Site in the future, the use of the highest detected soil concentrations in the Northern Sludge Area as exposure concentrations would result in an upper-bound noncancer HI estimate of 7. This is higher than USEPA's threshold of 1, and is primarily attributable to chromium (total) which in the Northern Sludge Area has an HQ of 6. This result is very conservative in that it uses the maximum concentrations observed in samples collected from the area (at any depth) and assumes that the entire chromium (total) concentration is hexavalent, the most toxic form of all chromium species. Hexavalent chromium represented less than 0.04 percent of the total chromium concentration in the original sludge materials based upon analyses of the sludge materials from the former surface impoundments performed in 1982 through 1985 (**Fisher Guide, March 1985**). Furthermore, given the fact that routine workers are not currently present at the Site and this area is covered with relatively dense vegetation, there is no current unacceptable exposure to soil in the Northern Sludge Area.

4.5 SOUTHERN SLUDGE AREA

4.5.1 GENERAL DESCRIPTION AND HISTORICAL OPERATIONS

The Southern Sludge Area is located in the east central portion of the Site. This area is approximately 6.5 acres in size.

This area was used for placement of WWTP sludges from 1972 to 1977 (Ecology, 1991). Approximately 40,000 cubic yards of material were placed within this area. Currently this area is overgrown.

In 1990, the USEPA conducted a SSI and collected two soil samples from each of three areas (Open Burn Area, Northern Sludge Area, and Southern Sludge Area). The USEPA soil samples contained a number of TAL and TCL compounds with concentrations above Site background levels (Ecology, 1991).

Ohio EPA was consulted in the 1970s by the former facility personnel regarding the use of this area for the placement of excavated sludge from the former surface impoundments. Ohio EPA indicated, in a letter dated March 21, 1974, that they have no objection to the use of this area for the placement of sludge materials from the former surface impoundments (Ohio EPA, 1974).

4.5.2 CURRENT STATUS

As presented on Table 2 and shown on Figure 5, none of the analytical results of the soil sampling conducted in the South Sludge Area have a detected concentration above screening criteria with the exception of chromium (total). Chromium (total) was detected at a concentration of 22,100 mg/kg in boring S1 at a depth of 5 ft bgs and at a concentration of 6,120 mg/kg in boring S2 at a depth of 3 ft bgs. These concentrations are greater than the routine worker soil direct contact and inhalation screening criterion of 4,190 mg/kg. As mentioned in Section 4.4.2, this criterion is conservatively based on the toxicity of hexavalent chromium. It is unlikely that the chromium (total) concentrations in these two borings are entirely hexavalent.

Appendix B presents the preliminary risk evaluation performed to evaluate current and reasonably expected future receptors discussed in Section 3.9. With the exception of on-Site routine worker soil direct contact and inhalation, as discussed in Appendix B, soil concentrations in the Southern Sludge Area do not present significant risks to these receptors.

With regards to potential exposure of on-Site routine workers, if such workers are present at the Site in the future, the use of the highest detected soil concentrations in the Southern Sludge Area as exposure concentrations would result in an upper bound noncancer HI estimate of 4. This is higher than USEPA's threshold of 1, and is primarily attributable to chromium (total) which in the Southern Sludge Area has an HQ of 4. This result is very conservative in that it uses the maximum concentrations observed in samples collected from the area (at any depth) and assumes that the entire chromium (total) concentration is hexavalent chromium, the most toxic form of all chromium species. Hexavalent chromium represented less than 0.04 percent of the total chromium concentration in the original sludge materials based upon analyses of the sludge materials from the former surface impoundments performed in 1982 through 1985 (**Fisher Guide, March 1985**). Furthermore, given the fact that routine workers are not currently present at the Site, and that this area is open, low-lying, typically moist to wet, and overgrown with tall grasses, there is no current unacceptable exposure to soil in the Southern Sludge Area.

4.6 SOUTHERN TRENCHES AREA

4.6.1 GENERAL DESCRIPTION AND HISTORICAL OPERATIONS

The Southern Trenches Area is located in the west central portion of the Site. This area is approximately 0.7 acre in size.

Four investigative test trenches were excavated in 1988 south of the former fuel oil tank. The four investigative trenches contained waste fill material including rags, paper, wood, roofing material, wiring, transite board, metal scrap, rubber gloves, and concrete rubble. Soil samples were collected from three of the investigative trenches, and analysis indicated that the most frequently reported parameters were chromium, copper and nickel.

A former monitoring well, MW-16, was installed in 1988. Visual observations indicated this location was potentially impacted. Soil and groundwater samples were collected. Soil analytical results indicated elevated concentrations of inorganics (e.g., chromium, nickel, zinc and copper) and organics [e.g., 1,2-dichloroethene (1,2-DCE), toluene, trichloroethene (TCE), and xylenes]. Groundwater analytical results also indicated elevated concentrations of inorganics (e.g., nickel and zinc) and organics (e.g., TCE, 1,2-DCE, vinyl chloride, xylenes, and ethylbenzene). The contamination at this location could be due to direct waste placement in the vicinity, metal bearing sludge or paint

sludge in the vicinity, or equipment/die cleaning activities on the nearby die storage pads.

4.6.2 CURRENT STATUS

As presented on Table 2 and shown on Figure 5, none of the analytical results of the soil sampling conducted in the Southern Trenches Area exhibited a detected concentration above screening criteria with the exception of chromium (total) and TCE. Chromium (total) was detected at a concentration of 7,410 mg/kg in trench TR-002. This concentration is greater than the routine worker soil direct contact and inhalation screening criterion of 4,190 mg/kg. This criterion is conservatively based on the toxicity of hexavalent chromium. It is unlikely that the chromium (total) concentration in this location is entirely hexavalent. TCE was detected at concentrations of 21 mg/kg, 73 mg/kg, and 48 mg/kg in soil samples from former MW-16 at depths of 0-0.5 ft bgs, 5-10 ft bgs and 10-13 ft bgs, respectively. These concentrations are higher than the routine worker soil vapor intrusion screening criterion of 5.9 mg/kg and the routine worker soil direct contact and inhalation screening criterion of 18.8 mg/kg.

Appendix B presents the preliminary risk evaluation performed to evaluate current and reasonably expected future receptors at and adjacent to the Site. Soil concentrations in the Southern Trenches Area do not present significant risks to these receptors.

4.7 NORTHERN TRENCHES AREA

4.7.1 GENERAL DESCRIPTION AND HISTORICAL OPERATIONS

The Northern Trenches Area is located in the northwestern portion of the Site. This area is approximately 0.8 acre in size.

Four investigative test trenches were excavated in 1988 northeast of the open burn area and north of the former fuel oil tank. Two investigative trenches contained waste fill material. A soil sample was collected from each of the investigative trenches and analysis indicated that the most frequently reported parameters were chromium, copper, and nickel.

A former monitoring well, MW-15, was installed in 1988. Soil and groundwater samples were collected. Soil analytical results indicated no metal contamination at this location, detectable concentrations of TCE and low concentrations of other VOCs. The

groundwater analytical results indicated no VOCs were detected. This location is vertically isolated by low permeability soils.

4.7.2 CURRENT STATUS

As presented on Table 2 and shown on Figure 5, none of the analytical results of the soil sampling conducted in the Northern Trenches Area have a detected concentration above screening criteria.

Appendix B presents the preliminary risk evaluation performed to evaluate current and reasonably expected future receptors at and adjacent to the Site. As discussed in Appendix B, soil concentrations in the Northern Trenches Area do not present significant risks to these receptors.

4.8 FORMER DIE STORAGE PAD AREA (NORTHERN AND SOUTHERN)

4.8.1 GENERAL DESCRIPTION AND HISTORICAL OPERATIONS

The former Die Storage Pad Areas are located in the west central portion of the Site. This area is approximately 1.6 acres in size.

This area consists of two concrete pads (located on the north side and the south side of the railway spur) formerly used to store dies. Equipment and die cleaning activities occurred on these pads. The cleaning activities reportedly included the use of various solvents.

Waste fill materials were found in trenches excavated in 1988 east of the former facility and just north of the pads(see Section 4.6). It is unknown whether there is any relationship between the Southern Trenches Area (discussed in Section 4.6) and the Former Die Storage Pad Area.

4.8.2 CURRENT STATUS

As presented in Table 2 and shown on Figure 5, none of the analytical results of the soil sampling conducted in the Die Storage Pad Areas have a detected concentration above screening criteria with the exception of chromium (total) and TCE. Chromium (total)

was detected at a concentration of 7,410 mg/kg in trench TR-002. This concentration is higher than the routine worker soil direct contact and inhalation screening criterion of 4,190 mg/kg. This criterion is conservatively based on the toxicity of hexavalent chromium. It is unlikely that the chromium (total) concentration in this location is entirely hexavalent. TCE was detected at concentrations of 21 mg/kg, 73 mg/kg, and 48 mg/kg in soil samples from former MW-16 at depths of 0-0.5 ft bgs, 5-10 ft bgs and 10-13 ft bgs, respectively. These concentrations are higher than the routine worker soil vapor intrusion criterion of 5.9 mg/kg and the routine worker soil direct contact and inhalation criterion of 18.8 mg/kg.

Appendix B presents the preliminary risk evaluation performed to evaluate current and reasonably expected future receptors at and adjacent to the Site. Soil concentrations in the Die Storage Pad Areas do not present significant risks to these receptors.

4.9 RAILWAY SPUR AREA

4.9.1 GENERAL DESCRIPTION AND HISTORICAL OPERATIONS

The Rail Spur Area runs along the eastern side of the Site and crosses the central portion of the Site to the western side. This area is approximately 3,050 feet long.

In 1988, some discolored soil was noticed between the rail spur and the former facility's perimeter access road (west of the Site). A sample near the railway spur on the former facility's property was collected and analyzed. The sample contained no reported concentrations of polychlorinated biphenyls (PCBs) and trace concentrations of phthalate, methylnaphthalene, and phenanthrene. The source of the methylnaphthalene and phenanthrene may be related to creosote used as a railroad tie preservative. The discolored soil was likely due to routine railway activities.

There is no record of a release of hazardous materials from this area of the Site, and there is no physical evidence such as surface staining or stressed vegetation to indicate that a release had ever occurred at this location.

4.9.2 CURRENT STATUS

As presented on Table 2 and shown on Figure 5, none of the analytical results of the soil sampling conducted along the Railway Spur have detected concentrations above screening criteria.

Appendix B presents the preliminary risk evaluation performed to evaluate current and reasonably expected future receptors at and adjacent to the Site. Soil concentrations along the Railway Spur do not present significant risks to these receptors.

4.10 WWTP EFFLUENT LINE TO OUTFALL 001 AREA

4.10.1 GENERAL DESCRIPTION AND HISTORICAL OPERATIONS

The main WWTP Effluent Line from the former facility runs approximately from the northwestern portion of the Site to the east central portion of the Site, with two additional lines that run from the western side of the Site. The effluent lines are approximately 2,940 feet in total length.

The WWTP at the former facility operated from 1956 to 1988. The sewer outfall (Outfall 001) discharged to a ditch which discharges to the Black River approximately 0.8 mile east of the Site. No wastes from outside sources were accepted for treatment, storage or disposal (Ecology, 1991). As identified in an interview with a former employee conducted in March 2007 and discussed in Section 2.4.4, a release of hexavalent chromium/coolant water mix and a copper bath release were collected by the storm sewer system and discharged to the former NPDES Outfall 001. Both releases were reported to the Ohio EPA at the times of the releases.

The former WWTP was located beside the facility building, and was decontaminated, cleaned and idled after the facility closure activities. The former WWTP was dismantled by 1999.

4.10.2 CURRENT STATUS

As presented on Table 2 and shown on Figure 5, none of the analytical results of the soil sampling conducted along the Effluent Line have detected concentrations above screening criteria.

Appendix B presents the preliminary risk evaluation performed to evaluate current and reasonably expected future receptors at and adjacent to the Site. Soil concentrations along the Effluent Line do not present significant risks to these receptors.

4.11 FORMER FUEL OIL TANK AREA

4.11.1 GENERAL DESCRIPTION AND HISTORICAL OPERATIONS

The former Fuel Oil Tank Area is located in the northwestern portion of the Site. This area covers approximately 1.5 acres.

This area included the former 2,310,000-gallon fuel oil tank and the earth dyke that surrounded the tank (Fisher Guide, November 1985).

One investigative test trench was excavated north of the former fuel oil tank in 1988. A soil sample was collected from the investigative trench and analysis of the sample indicated that chromium (total), copper and nickel were present.

There is no record of a release of hazardous materials from this area, and there is no physical evidence such as surface staining or stressed vegetation to indicate that a release had ever occurred at this location.

4.11.2 CURRENT STATUS

As presented on Table 2 and shown on Figure 5, none of the analytical results of the soil sampling conducted in the Former Fuel Oil Tank Area have detected concentrations above screening criteria.

Appendix B presents the preliminary risk evaluation performed to evaluate current and reasonably expected future receptors at and adjacent to the Site. Soil concentrations in the Former Fuel Oil Tank Area do not present a significant risk to these receptors.

4.12 SITE WIDE GROUNDWATER

4.12.1 GENERAL DESCRIPTION AND PREVIOUS INVESTIGATIONS

Groundwater monitoring was first established at the Site in 1982 in the vicinity of the Closed Landfill Area. Sampling and analysis at the Site has been conducted in accordance with the groundwater monitoring program (GWMP), as described in Section 3.8. Revisions to the GWMP have been proposed and submitted to the Ohio EPA to incorporate new Site data, as described in Section 3.8.

Additional monitoring wells have been installed in the Closed Landfill Area as part of the two groundwater monitoring assessments (described in Section 3.8) and in the remainder of the Site as described in Section 2.6.6.

4.12.2 CURRENT STATUS

As discussed in Section 4.1.1, groundwater monitoring wells at the Site were assigned to one of two groups; interior and perimeter. Because on-Site groundwater use is not a current or reasonably expected future exposure scenario (as discussed in Section 3.9), groundwater data collected from interior wells were evaluated for groundwater direct contact and inhalation exposure and groundwater volatilization to indoor air exposure. Additionally, data collected at the perimeter wells were evaluated by comparing the groundwater concentrations to the drinking water criteria.

Groundwater samples were collected from 26 interior monitoring wells from 1982 to 2006. As presented on Figures 6a and 6b, none of the detected concentrations in these samples are above the groundwater direct contact and inhalation criteria or the groundwater volatilization to indoor air criteria (see Section 4.1.1).

Groundwater samples were collected from 16 perimeter wells from 1986 to 2006. As presented on Figures 6a and 6b, none of the detected concentrations in these samples are above the groundwater direct contact and inhalation criteria or the groundwater volatilization to indoor air criteria. Four perimeter well locations have one or more chemicals with concentrations greater than drinking water criteria. These include arsenic (total) , lead (total), and methylene chloride in OW-1, TCE and vinyl chloride in FD-05, arsenic (dissolved) in FD-02, and arsenic (dissolved) in FD-06. These monitoring wells are located at the western and southern boundary of the Site except for FD-2, which is located at the eastern boundary.

Appendix B presents the preliminary risk evaluation for potential exposures of current and reasonably expected future receptors to groundwater at and adjacent to the Site. Site-wide groundwater concentrations do not present a significant risk to these receptors. In addition, four perimeter well locations have one or more chemicals with concentrations greater than drinking water criteria.

With regards to the exceedances of drinking water criteria, the potential for significant exposure via such use, if any, is unlikely given the following:

- The majority of perimeter wells do not exhibit concentrations above drinking water criteria for the chemicals noted above (12 of 16 perimeter wells do not have exceedances of drinking water criteria);
- In addition, the perimeter wells on the southern and eastern boundary are generally considered upgradient of the Site, given that the predominant groundwater flow direction observed is northeast;
- The concentrations exceeding the drinking water criteria are generally relatively low (e.g., arsenic concentrations in FD-02 and FD-06 may reflect natural background levels in the area);
- Public municipal water is available off-Site (for example, the facility to the west of the Site that is adjacent to some of the perimeter wells with exceedances, does not use groundwater for any purpose); and
- Based on monitoring around the closed landfill, the predominant groundwater flow direction is northeast, and groundwater flow on-Site is on the order of 10 feet/year;

5.0 CONCLUSIONS

Based upon the conservative risk evaluation, soil and groundwater concentrations found in the characterization sampling conducted at the Site do not present significant risks to the current or reasonably expected future receptors, with the exception of on-Site routine worker soil exposure in the Northern and Southern Sludge Areas and off-Site receptor groundwater use.

In addition, on-Site routine worker soil direct contact and inhalation exposure is not believed to be significant in the Northern Sludge Area and the Southern Sludge Area given the following considerations:

- 1) The risk calculations conservatively used the maximum concentrations observed in samples collected from the area (at any depth);
- 2) The risk calculations conservatively assumed that chromium total results at the Site, which contributed to most of the risk estimates in these areas, were entirely hexavalent chromium (the most toxic form of chromium). Based on characterization sampling performed on the original sludge materials placed in these two areas, hexavalent chromium represents less than 0.04 percent of the total chromium concentration in the original sludge materials;
- 3) Routine workers are not currently present at the Site; and
- 4) The Northern Sludge Area is currently covered with relatively dense vegetation, and the Southern Sludge Area is covered with tall grasses in a moist to wet area of the Site.

The potential for unacceptable off-Site residential exposure via groundwater use is unlikely given the following considerations:

- 1) The majority of perimeter wells do not exhibit concentrations above drinking water criteria for arsenic, lead, methylene chloride, TCE, or vinyl chloride;
- 2) The concentrations exceeding the drinking water criteria are relatively low in general (e.g., arsenic concentrations in FD-02 and FD-06 may reflect natural background levels in the area);
- 3) Public municipal water is available off-Site; and
- 4) In addition, the perimeter wells on the southern and eastern boundary are generally considered upgradient of the Site, given that the predominant groundwater flow direction observed is northeast.

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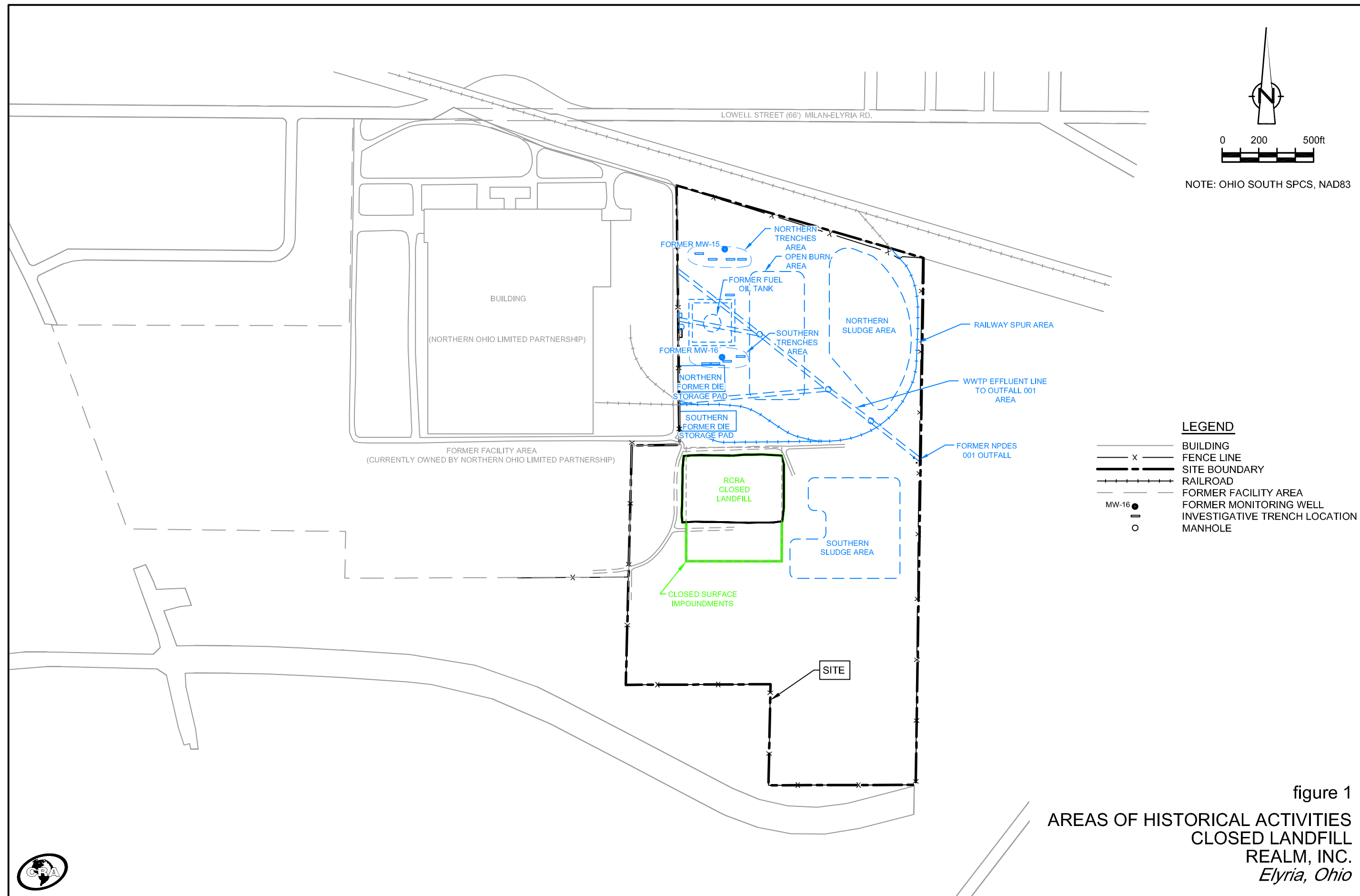
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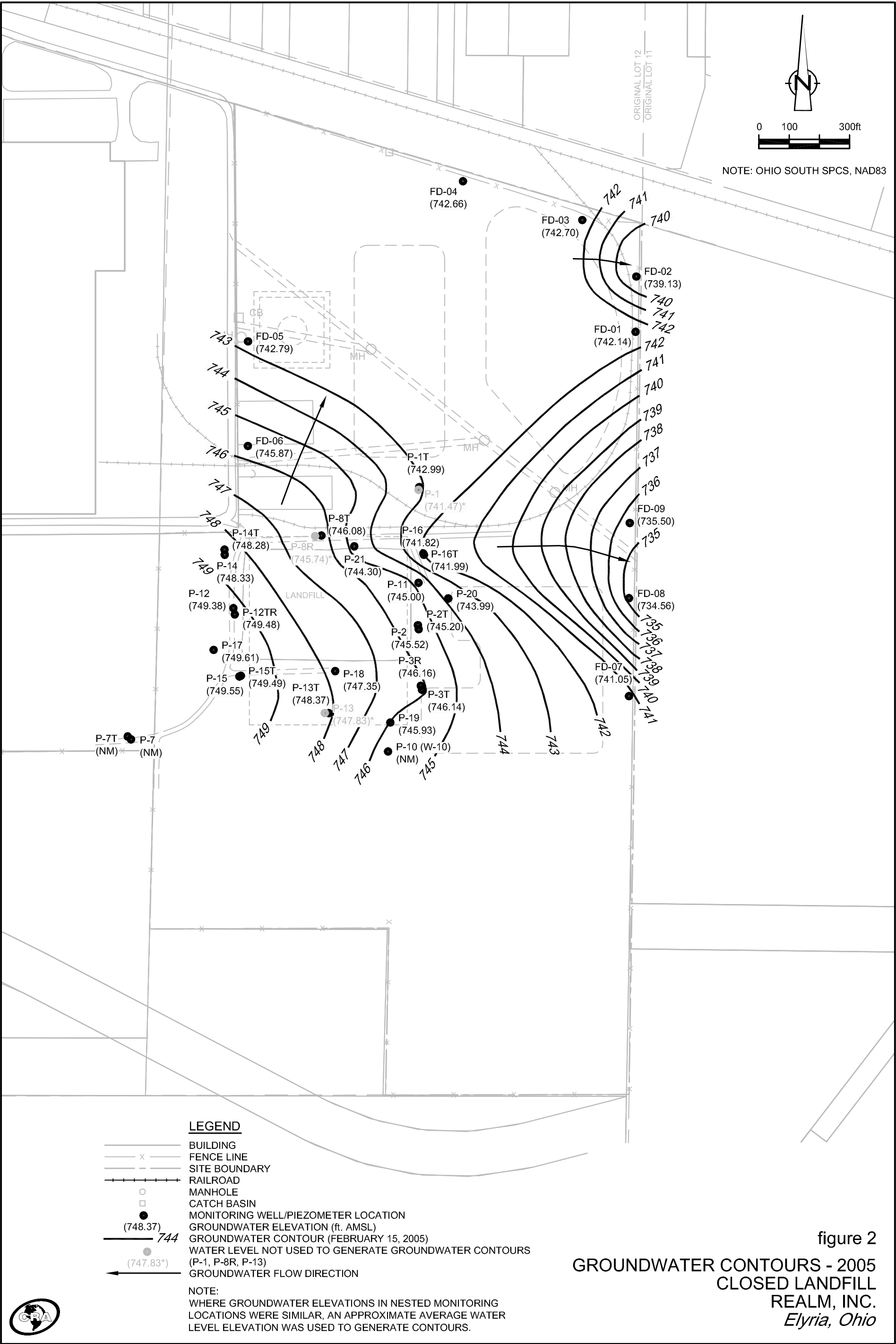
³ The proposed "Revised Post-Closure Groundwater Monitoring Plan" (Report Number 21) has been superceded by the current proposed "Revised Post-Closure Groundwater Monitoring Plan – 2007" (Report Number 32).

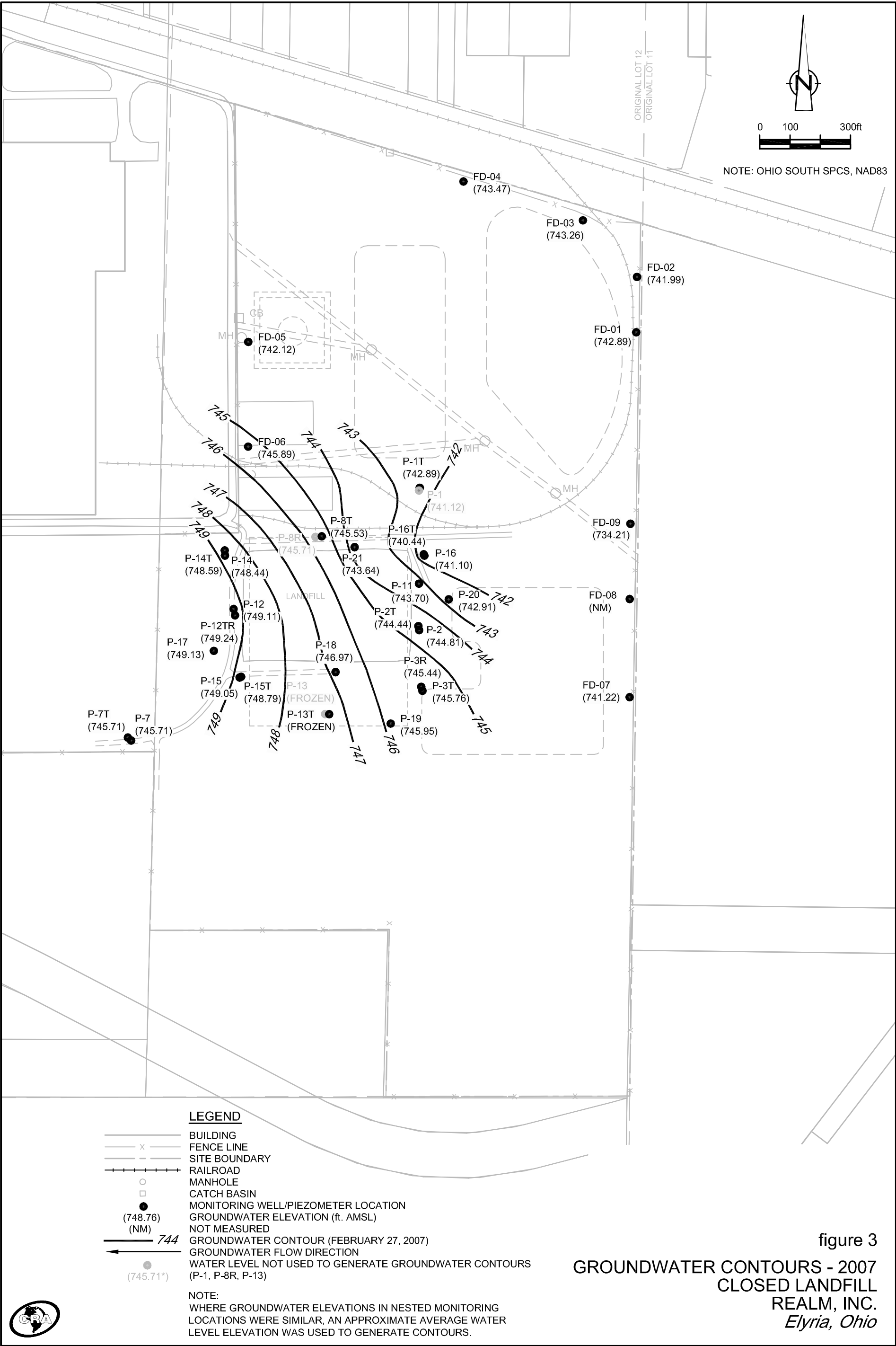
Emergency Remedial Response, to B. Diamond, Office of Waste Programs Enforcement. OSWER Directive 9285.6-03.

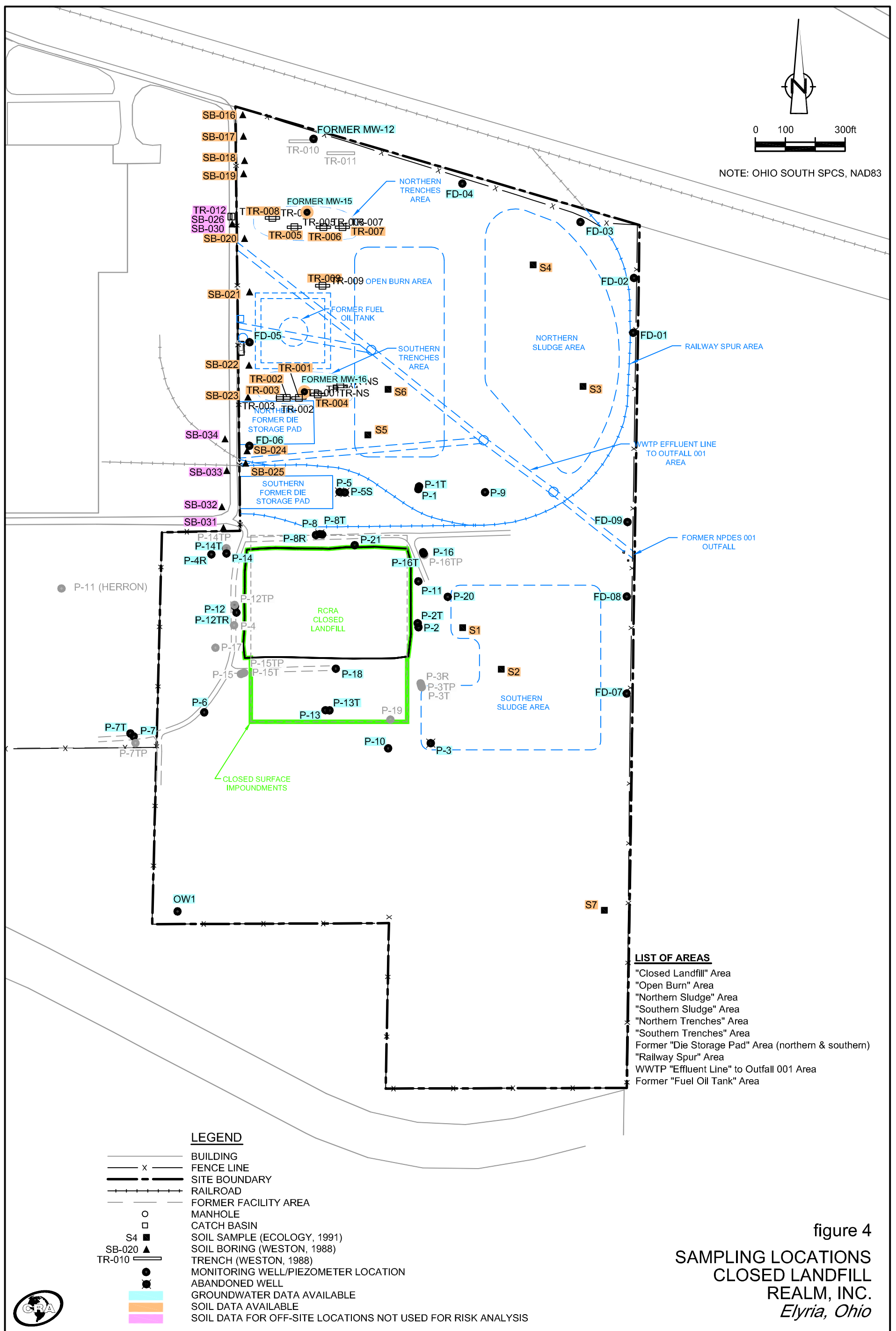
Weston Services, Inc. (WSI), September 1988. *Closure Certification Report, Elyria, Ohio Plant.*

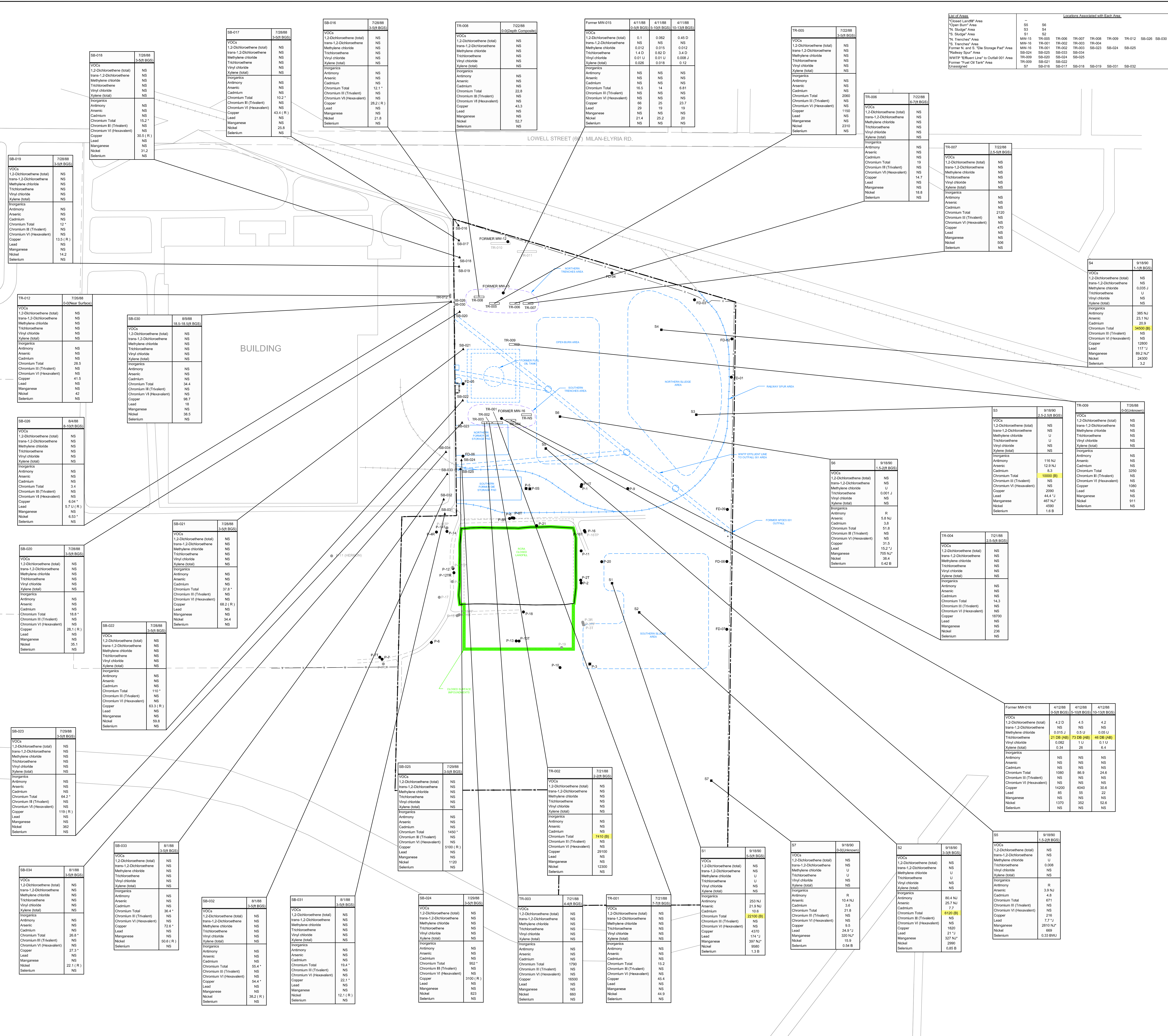
Weston Services, Inc. (WSI), September 1993. *Post-Closure Plan, Elyria, Ohio Plant.*











NO

Revision

Date

Initial

0

50

150ft

LEGEND

BUILDING

FENCE LINE

SITE BOUNDARY

RAILROAD

FORMER FACILITY AREA

MANHOLE

CATCH BASIN

SOIL SAMPLE ECOLOGY (1991)

SOIL BORING (WESTON, 1988)

TRENCH (WESTON, 1988)

MONITORING WELL/PEZZOMETER LOCATION

ABANDONED WELL

SAMPLE LOCATION

S4

9/18/90

1-1(E BGS)

RESULT (mg/kg)

VOCs

1,2-Dichloroethene (total)

NS

Methylene chloride

0.035 J

trans-1,2-Dichloroethene

NS

Trichloroethene

NS

Vinyl chloride

NS

Xylene (total)

NS

Inorganics

Antimony

385 NJ

Arsenic

20.9

Cadmium

23.1 NJ

Chromium III (Trivalent)

NS

Chromium Total

34500 (B)

Chromium VI (Hexavalent)

NS

Copper

12800

Cyanide (total)

143 NJ

Lead

117 J

Manganese

88.2 NJ

Nickel

24300

Selenium

3.2

PARAMETER

EXCEEDANCE OF CRITERIA A AND/OR B

DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS

METHOD BLANK CONTAMINATION

COMPOUNDS ANALYZED AFTER DILUTION

ESTIMATED VALUE

SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS

NOT SAMPLED/ANALYZED FOR ASSOCIATED PARAMETER

REJECTED

SPIKE RECOVERY NOT WITHIN CONTROL LIMIT

NOT PRESENT AT OR ABOVE THE ASSOCIATED VALUE

POST-DIGESTION SPIKE OUTSIDE CONTROL LIMITS

Parameter

CRITERIA (A)

CRITERIA (B)

VOCs

1,2-Dichloroethene (total)

1.10E+01

3.63E+01

trans-1,2-Dichloroethene

1.88E+01

5.25E+01

Methylene chloride

5.18E+00

1.88E+01

Trichloroethene

1.00E+00

1.46E+00

Vinyl chloride

3.15E+01

1.97E+02

Xylene (total)

1.00E+00

1.46E+00

Inorganics

Antimony

-

8.17E+02

Arsenic

-

2.73E+01

Cadmium

-

1.33E+03

Chromium Total

-

4.19E+03

Chromium III (Trivalent)

-

-

Chromium VI (Hexavalent)

-

-

Copper

-

8.17E+04

Lead

-

7.48E+02

Manganese

-

6.94E+04

Nickel

-

4.05E+04

Selenium

-

1.6 E

NOTES:

1. PARAMETER LIST INCLUDES ALL PARAMETERS THAT EXCEEDED SOIL OR GROUNDWATER RESIDENTIAL CRITERIA ANYWHERE ON-SITE.

2. ALL CRITERIA ARE BASED ON A TARGET CANCER RISK OF 10⁻⁶ AND A TARGET HAZARDOUS QUOTIENT OF 1.

3. REPORTING DETECTION LIMITS NOT PROVIDED AT LOCATIONS S1 THROUGH S7.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

APPROVED

DATE

INITIAL

DRAWING STATUS

DATE

INITIAL

CLOSED LANDFILL

REALM INC.

ELYRIA, OHIO

SOIL DATA SUMMARY AND

COMPARISON TO RISK CRITERIA

Source Reference:

ENVIRON SCREENING

Project Manager:

M. OKAMOTO

Date:

FEBRUARY 2007

Scale:

1"=150'

Project N°:

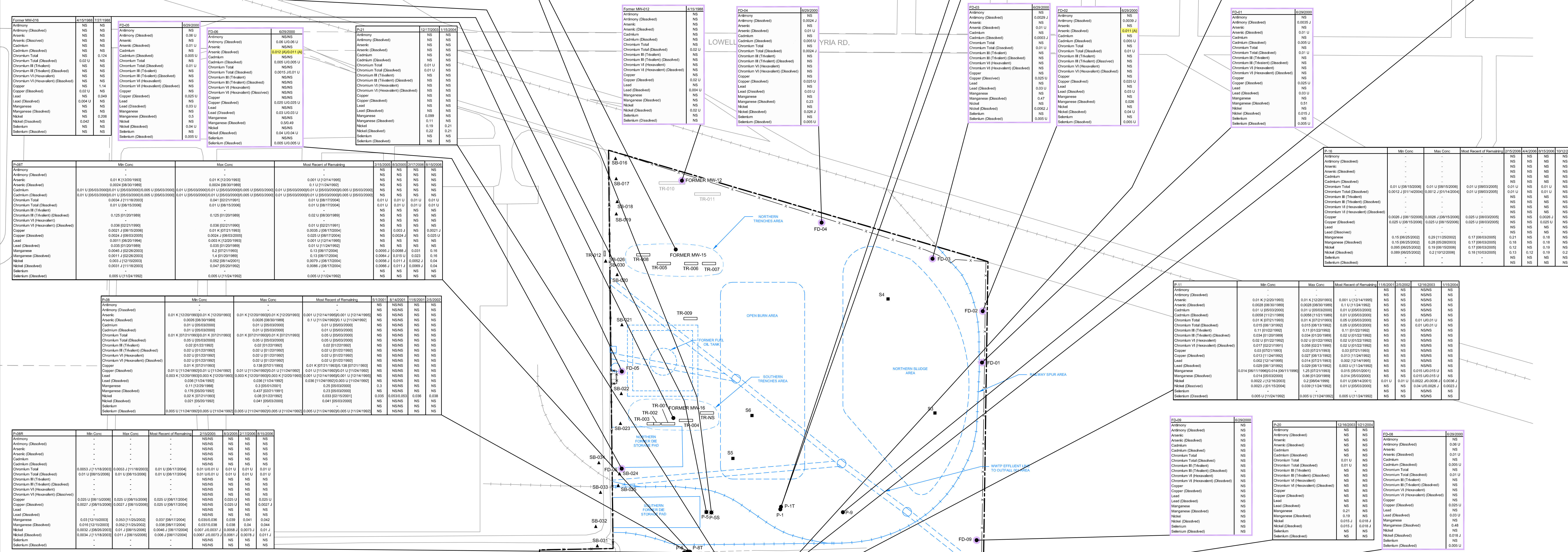
12616-46

Report N°:

034

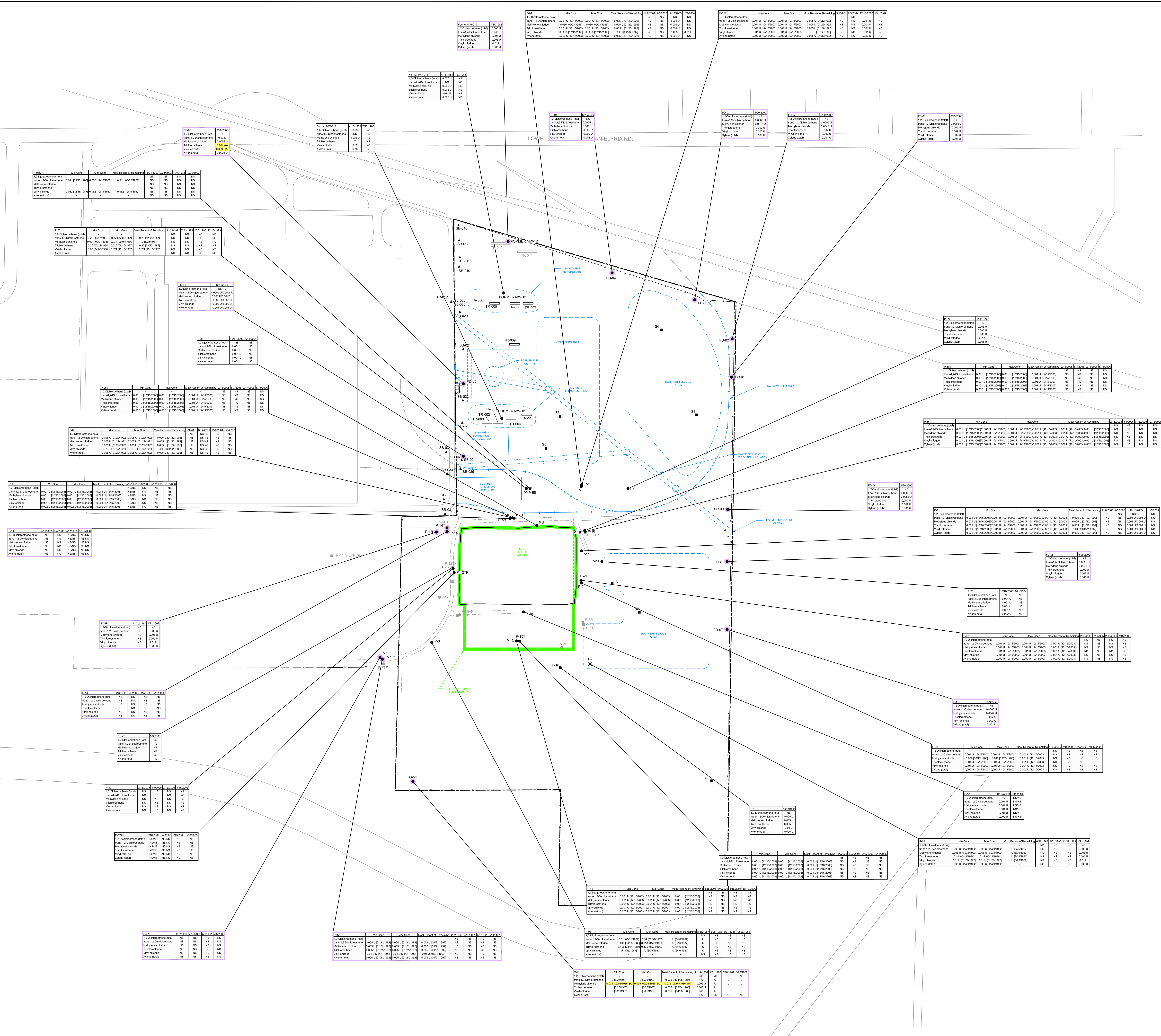
Drawing N°:

figure 5

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Revision

Date

Initial

0

50

150ft

LEGEND

BUILDING

FENCE LINE

SITE BOUNDARY

RAILROAD

FORMER FACILITY AREA

CATCH BASIN

MANHOLE

SOIL BORING (WESTON, 1988)

SOIL SAMPLE (ECOLGY, 1991)

TRENCH (WESTON, 1988)

MONITORING WELL/PEZOMETER LOCATION

ABANDONED WELL

PERIMETER MONITORING WELL LOCATION (COMPARED TO CRITERIA A, B, AND C)

SAMPLE LOCATION

SAMPLE DATE

0.11 (A)

0.12 (A)

RESULT (mg/L)

PARAMETER

EXCEEDANCE OF CRITERIA A,B, AND/OR C

NO DATA

LABELED AS CHROMIUM, BELIEVED TO BE CHROMIUM VI

PRECISION WAS >20% RDS, RESULT MUST BE CONSIDERED ESTIMATED

ESTIMATED VALUE

QUALIFIED RESULT IS EQUAL TO THE DETECTION LIMIT. DATA IS THOUGHT TO BE NON-DETECTED

NOT SAMPLED/ANALYZED FOR ASSOCIATED PARAMETER

THE TWO SPECIES OF CHROMIUM (HEXAVALENT AND TRIVALENT CHROMIUM) HAVE BEEN EVALUATED SEPARATELY

NOT PRESENT AT OR ABOVE THE ASSOCIATED VALUE

Parameter

CRITERIA (A)

CRITERIA (B)

CRITERIA (C)

1,2-Dichlorobenzene (total)

7.00E-02

2.00E-01

2.28E+01

1,2-Dichlorobenzene

1.00E-01

2.62E+01

3.81E+01

Methylene chloride

5.00E-03

3.17E-01

8.84E+01

Trichlorobenzene

5.00E-03

7.84E+00

2.68E+01

Vinyl chloride

2.00E-03

9.89E-01

2.02E+00

Xylene (total)

1.00E-01

6.38E+01

6.88E+01

A Drinking Water Criteria (Criteria A only compared to perimeter wells)

B Risk-Based Residential GW Volatilization to Indoor Air Criteria

C Risk-Based Maintenance Worker Groundwater Direct Contact and Inhalation Criteria

NOTES

PARAMETER LIST INCLUDES ALL PARAMETERS THAT EXCEEDED SOIL OR GROUNDWATER RESIDENTIAL CRITERIA ANYWHERE ON-SITE.

ALL CRITERIA ARE BASED ON A TARGET CANCER RISK OF 10⁻⁵ AND A TARGET HAZARDOUS QUOTIENT OF 1.

CRITERIA A WAS APPLIED AT THE PERIMETER MONITORING WELL LOCATIONS. CRITERIA B WAS NOT APPLIED AT THE INTERIOR MONITORING WELLS BECAUSE GROUNDWATER IS NOT USED ON THE SITE. CRITERIA B AND C WERE APPLIED AT ALL MONITORING WELL LOCATIONS.

DATA AT LOCATION P-14 (COLLECTED IN 1988) IS INCONSISTENT WITH ALL DATA COLLECTED AT ADJACENT LOCATIONS P-14 AND P-14T.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status

Date

Initial

CLOSED LANDFILL REALM INC. ELYRIA, OHIO

GROUNDWATER DATA SUMMARY AND COMPARISON TO RISK CRITERIA - ORGANICS

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

ENVIRON SCREENING

Project Manager: A. LAVINE

Reviewed By: M. OKAMOTO

Date: FEBRUARY 2007

Scale: 1"=150'

Project N°: 12616-46

Report N°: 034

Drawing N°: figure 6b

12616-46 (G:\IN\WAGD) APR 27/2007

**Table 1: Preliminary Conceptual Site Model (CSM)
Scenarios for Potential Human Exposure
Closed Landfill Site, Elyria, Ohio**

Receptor Population	Exposure Medium	Exposure Route	Possible Currently?	Possible in Future?	Comments
O n - S i t e					
Routine Workers	surface soil (0 - 2 ft bgs)	incidental ingestion, dermal contact, and inhalation of airborne particulates and vapors	No	Yes	Currently, routine workers are not present at the site. Exposures to surface soil may be possible in areas without cover or where cover may be removed in the future. Routine worker activities do not involve direct contact with subsurface soil.
		inhalation of vapors that migrate through building foundations	No	Yes	Exposure to soil vapors via inhalation of ambient air is possible. Exposures via vapor intrusion through cracks in building foundations into indoor air may be possible where volatile constituents are identified in soil and occupied buildings may exist in the future. Currently, the only enclosed structures on-site are two small maintenance sheds.
	subsurface soil (unsaturated soils > 2 ft bgs)	incidental ingestion and dermal contact	No	No	
		inhalation of soil vapors in ambient air	No	Yes	
		inhalation of vapors that migrate through building foundations	No	Yes	
	groundwater	incidental ingestion, dermal contact, and inhalation of airborne vapors	No	No	Groundwater is not a current drinking water supply on-site. Potable water is currently obtained from the City of Elyria. GM plans to implement a restriction on-site to prohibit any groundwater use. Exposures via vapor intrusion through cracks in building foundations into indoor air may be possible where volatile constituents are identified in shallow groundwater and occupied buildings exist or may exist in the future.
		inhalation of vapors migrating through building foundations	No	Yes	
Maintenance Workers	surface and subsurface soil	incidental ingestion, dermal contact, and inhalation of airborne particulates and vapors	Yes	Yes	Maintenance workers conduct occasional subsurface construction or maintenance where exposure to surface and shallow subsurface soil may be possible. Activities may include installation or repair of underground utilities or removal of pavement. These type of subsurface activities are typically of limited size and duration.
	groundwater	incidental ingestion, dermal contact, and inhalation of airborne vapors	Yes	Yes	Exposure to shallow groundwater may occur during occasional excavations that extend into the water table.

**Table 1: Preliminary Conceptual Site Model (CSM)
Scenarios for Potential Human Exposure
Closed Landfill Site, Elyria, Ohio**

Receptor Population	Exposure Medium	Exposure Route	Possible Currently?	Possible in Future?	Comments
O n - S i t e (c o n t.)					
Trespassers	surface soil (0 - 2 ft bgs)	incidental ingestion, dermal contact, and inhalation of airborne particulates and vapors	Yes	Yes	The Site is currently surrounded by a fence and is expected to remain so in the future. The presence of the fence is expected to limit the duration and the types of activities associated with contact with the soil or exposure to ambient air particulates or vapors.
	subsurface soil (unsaturated soils > 2 ft bgs)	incidental ingestion and dermal contact	No	No	Future exposures to surface soil may be possible in areas without cover or where cover may be removed in the future. Trespasser activities do not involve direct contact with subsurface soil. Future exposure to surface and subsurface soil vapors via inhalation of ambient air is also possible.
		inhalation of soil vapors in ambient air	Yes	Yes	

**Table 1: Preliminary Conceptual Site Model (CSM)
Scenarios for Potential Human Exposure
Closed Landfill Site, Elyria, Ohio**

Receptor Population	Exposure Medium	Exposure Route	Possible Currently?	Possible in Future?	Comments
Off - Site					
Routine Workers	surface and subsurface soil	incidental ingestion and dermal contact	No	No	Site-related soil contamination is not expected to have migrated off-site. Off-site inhalation exposures to on-site soil may be possible via windblown dust and vapors generated from exposed soil or during excavation activities at the Site.
		inhalation of airborne particulates and vapors in ambient air	Yes	Yes	
	groundwater	incidental ingestion, dermal contact, and inhalation of vapors during household/potable use.	Yes	Yes	Potable water is believed to be obtained from the City of Elyria for residences downgradient of the Site. However, GM is unaware of any current restrictions on groundwater use in the area.
		incidental ingestion, dermal contact, and inhalation of vapors during nonpotable use.	Yes	Yes	Current and future exposures to groundwater via nonpotable use may be possible.
		inhalation of vapors that migrate through building foundations	Yes	Yes	Exposures via vapor intrusion through cracks in building foundations into indoor air may be possible where volatile constituents are identified in shallow groundwater that may migrate offsite and occupied commercial/industrial buildings exist.
Residents	surface and subsurface soil	incidental ingestion and dermal contact	No	No	Site-related soil contamination is not expected to have migrated off-site. Off-site inhalation exposures to on-site soil may be possible via windblown dust and vapors generated from exposed soil or during excavation activities at the Site.
		inhalation of airborne particulates and vapors in ambient air	Yes	Yes	
	groundwater	incidental ingestion, dermal contact, and inhalation of vapors during household/potable use.	Yes	Yes	Potable water is believed to be obtained from the City of Elyria for residences downgradient of the Site. However, GM is unaware of any current restrictions on groundwater use in the area.
		incidental ingestion, dermal contact, and inhalation of vapors during nonpotable use.	Yes	Yes	Current and future exposures to groundwater via nonpotable use may be possible.
		inhalation of vapors that migrate through building foundations	Yes	Yes	Exposures via vapor intrusion through cracks in building foundations into indoor air may be possible where volatile constituents are identified in shallow groundwater that may migrate offsite and occupied residential buildings exist.

Table 1: Preliminary Conceptual Site Model (CSM) Scenarios for Potential Human Exposure Closed Landfill Site, Elyria, Ohio					
Receptor Population	Exposure Medium	Exposure Route	Possible Currently?	Possible in Future?	Comments
Off - Site (c o n t.)					
Maintenance Workers	surface and subsurface soil	incidental ingestion and dermal contact	No	No	Site-related soil contamination is not expected to have migrated off-site. Off-site inhalation exposures to on-site soil may be possible via windblown dust and vapors generated from exposed soil or during excavation activities at the Site.
		inhalation of airborne particulates and vapors in ambient air	Yes	Yes	
	groundwater	incidental ingestion, dermal contact, and inhalation of airborne vapors	Yes	Yes	Exposure to shallow groundwater may occur during occasional excavations that extend into the water table.

Table 2: Soil Screening Results Summary
Closed Landfill Site, Elyria, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Min Limit (mg/kg)	Max Limit (mg/kg)	Routine Worker Soil Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to RW Soil Vol Indoor Air Criteria	Routine Worker Soil Contact and Inhalation Criteria (mg/kg)	Ratio of Max Detect to Routine Worker Soil Contact and Inhalation Criteria
Die Storage Pad	VOC	Acetone	67-64-1	ID	3	3	6.80E-02	1.90E+00			3.4E+03	5.6E-04	1.3E+04	1.5E-04
Die Storage Pad	VOC	Benzene	71-43-2	A	3	0			5.00E-03	5.00E-01	1.1E+00		3.5E+00	
Die Storage Pad	VOC	Bromodichloromethane	75-27-4	B2	3	0			5.00E-03	5.00E-01	5.0E-01		4.4E+00	
Die Storage Pad	VOC	Bromoform	75-25-2	B2	3	0			5.00E-03	5.00E-01	1.0E+01		2.0E+02	
Die Storage Pad	VOC	Bromomethane	74-83-9	NC	3	0			1.00E-02	1.00E+00	1.6E+00		3.7E+00	
Die Storage Pad	VOC	2-Butanone	78-93-3	ID	3	2	1.60E-02	9.30E+00	1.00E-01	1.00E-01	4.0E+03	2.3E-03	2.2E+04	4.3E-04
Die Storage Pad	VOC	Carbon Disulfide	75-15-0		3	0			5.00E-03	5.00E-01	2.2E+02		3.7E+02	
Die Storage Pad	VOC	Carbon Tetrachloride	56-23-5	B2	3	0			5.00E-03	5.00E-01	5.9E-01		1.5E+00	
Die Storage Pad	VOC	Chlorobenzene	108-90-7	D	3	0			5.00E-03	5.00E-01	1.9E+01		1.3E+02	
Die Storage Pad	VOC	Chloroethane	75-00-3		3	0			1.00E-02	1.00E+00	3.2E+03		3.7E+03	
Die Storage Pad	VOC	Chloroform	67-66-3	B2	3	0			5.00E-03	5.00E-01	3.8E-01		1.1E+00	
Die Storage Pad	VOC	Chloromethane	74-87-3	D	3	0			1.00E-02	1.00E+00	2.8E+01		5.6E+01	
Die Storage Pad	VOC	Dibromochloromethane	124-48-1	C	3	0			5.00E-03	5.00E-01	3.7E-01		5.8E+00	
Die Storage Pad	VOC	1,2-Dichlorobenzene	95-50-1	D	3	0			3.30E-01	1.60E+00	1.3E+02		9.6E+02	
Die Storage Pad	VOC	1,3-Dichlorobenzene	541-73-1	D	3	0			3.30E-01	1.60E+00	5.0E+01		5.1E+02	
Die Storage Pad	VOC	1,4-Dichlorobenzene	106-46-7	C	3	0			3.30E-01	1.60E+00	2.2E+00		1.9E+01	
Die Storage Pad	VOC	1,1-Dichloroethane	75-34-3	SC	3	0			5.00E-03	5.00E-01	1.6E+02		4.5E+02	
Die Storage Pad	VOC	1,2-Dichloroethane	107-06-2	B2	3	0			5.00E-03	5.00E-01	3.4E-01		1.4E+00	
Die Storage Pad	VOC	1,1-Dichloroethene	75-35-4	C	3	1	1.40E-02	1.40E-02	5.00E-02	5.00E-01	6.3E+01	2.2E-04	1.2E+02	1.2E-04
Die Storage Pad	VOC	1,2-Dichloroethene (total)	540-59-0		3	3	4.20E+00	4.50E+00			1.1E+01	4.1E-01	3.6E+01	1.2E-01
Die Storage Pad	VOC	1,2-Dichloropropane	78-87-5	B2	3	0			5.00E-03	5.00E-01	1.3E+00		5.0E+00	
Die Storage Pad	VOC	1,3-Dichloropropane (total)	542-75-6	B2	3	0			5.00E-03	5.00E-01	2.2E+00		5.2E+00	
Die Storage Pad	VOC	Ethyl Benzene	100-41-4	D	3	2	5.30E-02	3.40E+00	5.00E-02	5.00E-02	3.2E+02	1.1E-02	1.8E+03	1.9E-03
Die Storage Pad	VOC	2-Hexanone	591-78-6		3	0			1.00E-02	1.00E+00			8.1E+04	
Die Storage Pad	VOC	4-Methyl-2-pentanone	108-10-1	ID	3	0			1.00E-02	1.00E+00	1.3E+03		1.1E+04	
Die Storage Pad	VOC	Methylene Chloride	75-09-2	B2	3	1	1.50E-02	1.50E-02	5.00E-02	5.00E-01	1.9E+01	8.0E-04	5.3E+01	2.9E-04
Die Storage Pad	VOC	Styrene	100-42-5		3	0			5.00E-03	5.00E-01	5.4E+02		4.4E+03	
Die Storage Pad	VOC	1,1,2,2-Tetrachloroethane	79-34-5	C	3	0			5.00E-03	5.00E-01	3.0E-01		2.2E+00	
Die Storage Pad	VOC	Tetrachloroethene	127-18-4	C-B2	3	0			5.00E-03	5.00E-01	2.9E+00		8.5E+00	
Die Storage Pad	VOC	Toluene	108-88-3	ID	3	3	5.20E-02	7.80E-01			1.6E+03	4.9E-04	5.4E+02	1.4E-03
Die Storage Pad	VOC	1,2,4-Trichlorobenzene	120-82-1	D	3	0			3.30E-01	1.60E+00	4.8E+02		2.5E+03	
Die Storage Pad	VOC	1,1,1-Trichloroethane	71-55-6	D	3	0			5.00E-03	5.00E-01	6.9E+02		1.8E+03	
Die Storage Pad	VOC	1,1,2-Trichloroethane	79-00-5	C	3	0			5.00E-03	5.00E-01	5.5E-01		3.8E+00	
Die Storage Pad	VOC	Trichloroethene	79-01-6	C-B2	3	3	2.10E+01	7.30E+01			5.2E+00	1.4E+01	1.9E+01	3.9E+00
Die Storage Pad	VOC	Vinyl Acetate	108-05-4		3	0			1.00E-02	1.00E+00	6.3E+01		3.2E+02	
Die Storage Pad	VOC	Vinyl Chloride	75-01-4	A	3	1	8.20E-02	8.20E-02	1.00E-01	1.00E+00	1.0E+00	8.2E-02	1.5E+00	5.5E-02
Die Storage Pad	VOC	Xylenes (total)	1330-20-7	ID	3	3	3.40E-01	2.60E+01			3.2E+01	8.2E-01	2.0E+02	1.3E-01
Die Storage Pad	SVOC	Acenaphthene	83-32-9		3	0			3.30E-01	1.60E+00	1.8E+04		1.1E+04	
Die Storage Pad	SVOC	Acenaphthylene	208-96-8	D	3	0			3.30E-01	1.60E+00	1.3E+04		6.3E+03	
Die Storage Pad	SVOC	Anthracene	120-12-7	D	3	0			3.30E-01	1.60E+00			2.3E+05	
Die Storage Pad	SVOC	Benzo(a)anthracene	56-55-3	B2	3	0			3.30E-01	1.60E+00	7.1E+04		2.8E+01	
Die Storage Pad	SVOC	Benzo(a)pyrene	50-32-8	B2	3	0			3.30E-01	1.60E+00	5.3E+04		2.9E+00	
Die Storage Pad	SVOC	Benzo(b)fluoranthene	205-99-2	B2	3	0			3.30E-01	1.60E+00	6.8E+03		2.7E+01	
Die Storage Pad	SVOC	Benzo(g,h,i)perylene	191-24-2	D	3	0			3.30E-01	1.60E+00	1.8E+10		2.3E+04	
Die Storage Pad	SVOC	Benzo(k)fluoranthene	207-08-9	B2	3	0			3.30E-01	1.60E+00	9.0E+06		2.9E+02	
Die Storage Pad	SVOC	Benzoic Acid	65-85-0	D	3	0			1.60E+00	8.20E+00	3.9E+05		3.9E+05	
Die Storage Pad	SVOC	Benzyl Alcohol	100-51-6	ID	3	0			3.30E-01	1.60E+00	1.7E+05		5.7E+04	

Table 2: Soil Screening Results Summary
Closed Landfill Site, Elyria, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Min Limit (mg/kg)	Max Limit (mg/kg)	Routine Worker Soil Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to RW Soil Vol Indoor Air Criteria	Routine Worker Soil Contact and Inhalation Criteria (mg/kg)	Ratio of Max Detect to Routine Worker Soil Contact and Inhalation Criteria
Die Storage Pad	SVOC	bis(2-Chloroethoxy)methane	111-91-1	D	3	0			3.30E-01	1.60E+00				
Die Storage Pad	SVOC	bis(2-Chloroethyl) ether	111-44-4	B2	3	0			3.30E-01	1.60E+00	3.3E-01		9.0E-01	
Die Storage Pad	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	3	3	3.60E-01	5.10E+00			1.9E+09	2.7E-09	1.8E+03	2.9E-03
Die Storage Pad	SVOC	4-Bromophenyl-phenyl ether	101-55-3	D	3	0			3.30E-01	1.60E+00				
Die Storage Pad	SVOC	Butylbenzylphthalate	85-68-7	C	3	0			3.30E-01	1.60E+00	4.5E+06		1.2E+04	
Die Storage Pad	SVOC	4-Chloro-3-methylphenol	59-50-7		3	0			3.30E-01	1.60E+00				
Die Storage Pad	SVOC	4-Chloroaniline	106-47-8		3	0			3.30E-01	1.60E+00	9.0E+02		1.7E+02	
Die Storage Pad	SVOC	2-Chloronaphthalene	91-58-7		3	0			3.30E-01	1.60E+00	1.9E+04		1.3E+04	
Die Storage Pad	SVOC	2-Chlorophenol	95-57-8		3	0			3.30E-01	1.60E+00	3.4E+01		1.7E+02	
Die Storage Pad	SVOC	4-Chlorophenyl-phenyl ether	7005-72-3		3	0			3.30E-01	1.60E+00				
Die Storage Pad	SVOC	Chrysene	218-01-9	B2	3	0			3.30E-01	1.60E+00	2.6E+05		2.6E+03	
Die Storage Pad	SVOC	Dibenz(a,h)anthracene	53-70-3	B2	3	0			3.30E-01	1.60E+00	1.5E+07		2.9E+00	
Die Storage Pad	SVOC	Dibenzofuran	132-64-9	D	3	0			3.30E-01	1.60E+00	2.2E+04		1.2E+03	
Die Storage Pad	SVOC	3,3'-Dichlorobenzidine	91-94-1	B2	3	0			6.60E-01	3.20E+00	7.4E+04		5.0E+01	
Die Storage Pad	SVOC	2,4-Dichlorophenol	120-83-2		3	0			3.30E-01	1.60E+00	1.1E+03		6.6E+02	
Die Storage Pad	SVOC	Diethylphthalate	84-66-2	D	3	0			3.30E-01	1.60E+00	3.6E+06		4.1E+05	
Die Storage Pad	SVOC	2,4-Dimethylphenol	105-67-9		3	0			3.30E-01	1.60E+00	1.5E+04		4.8E+03	
Die Storage Pad	SVOC	Dimethylphthalate	131-11-3	D	3	0			3.30E-01	1.60E+00				
Die Storage Pad	SVOC	Di-n-butylphthalate	84-74-2	D	3	0			3.30E-01	1.60E+00			8.8E+04	
Die Storage Pad	SVOC	4,6-Dinitro-2-methylphenol	534-52-1		3	0			1.60E+00	8.20E+00	2.2E+02		4.2E+01	
Die Storage Pad	SVOC	2,4-Dinitrophenol	51-28-5		3	0			1.60E+00	8.20E+00			1.8E+03	
Die Storage Pad	SVOC	2,4-Dinitrotoluene	121-14-2	B2	3	0			3.30E-01	1.60E+00			3.6E+01	
Die Storage Pad	SVOC	2,6-Dinitrotoluene	606-20-2	B2	3	0			3.30E-01	1.60E+00	3.3E+01		1.2E+01	
Die Storage Pad	SVOC	Di-n-octylphthalate	117-84-0		3	0			3.30E-01	1.60E+00			3.5E+04	
Die Storage Pad	SVOC	Fluoranthene	206-44-0	D	3	0			3.30E-01	1.60E+00	1.8E+06		2.5E+04	
Die Storage Pad	SVOC	Fluorene	86-73-7	D	3	0			3.30E-01	1.60E+00	5.7E+04		1.3E+04	
Die Storage Pad	SVOC	Hexachlorobenzene	118-74-1	B2	3	0			3.30E-01	1.60E+00	4.7E+00		3.0E+00	
Die Storage Pad	SVOC	Hexachlorobutadiene	87-68-3	C	3	0			3.30E-01	1.60E+00	1.6E+01		2.7E+01	
Die Storage Pad	SVOC	Hexachlorocyclopentadiene	77-47-4	E	3	0			3.30E-01	1.60E+00	2.9E+00		9.3E+00	
Die Storage Pad	SVOC	Hexachloroethane	67-72-1	C	3	0			3.30E-01	1.60E+00	8.6E+00		1.9E+02	
Die Storage Pad	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	B2	3	0			3.30E-01	1.60E+00	1.3E+06		2.9E+01	
Die Storage Pad	SVOC	Isophorone	78-59-1	C	3	0			3.30E-01	1.60E+00			2.6E+04	
Die Storage Pad	SVOC	2-Methylnaphthalene	91-57-6	ID	3	0			3.30E-01	1.60E+00	6.8E+01		7.1E+01	
Die Storage Pad	SVOC	Methylphenol (total)	1319-77-3		3	0			3.30E-01	1.60E+00	4.0E+04		1.1E+04	
Die Storage Pad	SVOC	Naphthalene	91-20-3	C	3	1	3.90E-01	3.90E-01	3.30E-01	1.60E+00	2.3E+01	1.7E-02	5.5E+01	7.1E-03
Die Storage Pad	SVOC	2-Nitroaniline	88-74-4		3	0			1.60E+00	8.20E+00	2.0E+02		3.5E+01	
Die Storage Pad	SVOC	3-Nitroaniline	99-09-2	C	3	0			1.60E+00	8.20E+00			2.6E+02	
Die Storage Pad	SVOC	4-Nitroaniline	100-01-6	C	3	0			1.60E+00	8.20E+00	1.6E+05		1.2E+03	
Die Storage Pad	SVOC	Nitrobenzene	98-95-3	D	3	0			3.30E-01	1.60E+00	1.3E+01		2.7E+01	
Die Storage Pad	SVOC	2-Nitrophenol	88-75-5		3	0			3.30E-01	1.60E+00				
Die Storage Pad	SVOC	4-Nitrophenol	100-02-7		3	0			1.60E+00	8.20E+00				
Die Storage Pad	SVOC	N-Nitrosodiphenylamine	86-30-6	B2	3	0			3.30E-01	1.60E+00			5.0E+03	
Die Storage Pad	SVOC	N-Nitroso-di-n-propylamine	621-64-7	B2	3	0			3.30E-01	1.60E+00	5.3E-01		4.8E-01	
Die Storage Pad	SVOC	2,2'-oxybis(1-Chloropropane)	108-60-1	C	3	0			3.30E-01	1.60E+00	1.2E+01		3.4E+01	
Die Storage Pad	SVOC	Pentachlorophenol	87-86-5	B2	3	0			1.60E+00	8.20E+00	3.8E+04		1.0E+02	
Die Storage Pad	SVOC	Phenanthrene	85-01-8	D	3	0			3.30E-01	1.60E+00	2.1E+05		1.4E+04	
Die Storage Pad	SVOC	Phenol	108-95-2	ID	3	0			3.30E-01	1.60E+00			2.6E+05	

Table 2: Soil Screening Results Summary
Closed Landfill Site, Elyria, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Min Limit (mg/kg)	Max Limit (mg/kg)	Routine Worker Soil Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to RW Soil Vol Indoor Air Criteria	Routine Worker Soil Contact and Inhalation Criteria (mg/kg)	Ratio of Max Detect to Routine Worker Soil Contact and Inhalation Criteria
Die Storage Pad	SVOC	Pyrene	129-00-0	D	3	0			3.30E-01	1.60E+00	1.9E+06		1.9E+04	
Die Storage Pad	SVOC	2,4,5-Trichlorophenol	95-95-4		3	0			1.60E+00	8.20E+00			8.8E+04	
Die Storage Pad	SVOC	2,4,6-Trichlorophenol	88-06-2	B2	3	0			3.30E-01	1.60E+00	8.8E+02		8.8E+01	
Die Storage Pad	INORG	Chromium (total)	7440-47-3		9	9	1.52E+01	7.41E+03					4.2E+03	1.8E+00
Die Storage Pad	INORG	Copper	7440-50-8	D	9	9	3.06E+01	2.91E+04					8.2E+04	3.6E-01
Die Storage Pad	INORG	Lead	7439-92-1	B2	3	3	2.20E+01	8.50E+01					7.5E+02	1.1E-01
Die Storage Pad	INORG	Nickel	7440-02-0	A	9	9	4.49E+01	1.23E+04					4.1E+04	3.0E-01
Die Storage Pad	INORG	Zinc	7440-66-6	ID	3	3	1.24E+02	6.69E+03					6.1E+05	1.1E-02
Effluent Line	INORG	Chromium (total)	7440-47-3		4	4	1.88E+01	3.25E+03					4.2E+03	7.8E-01
Effluent Line	INORG	Copper	7440-50-8	D	4	4	2.81E+01	5.10E+03					8.2E+04	6.2E-02
Effluent Line	INORG	Nickel	7440-02-0	A	4	4	3.51E+01	1.12E+03					4.1E+04	2.7E-02
Fuel Oil Tank	INORG	Chromium (total)	7440-47-3		3	3	3.78E+01	3.25E+03					4.2E+03	7.8E-01
Fuel Oil Tank	INORG	Copper	7440-50-8	D	3	3	6.33E+01	1.08E+03					8.2E+04	1.3E-02
Fuel Oil Tank	INORG	Nickel	7440-02-0	A	3	3	3.44E+01	9.11E+02					4.1E+04	2.2E-02
N. Sludge Area	VOC	Methylene Chloride	75-09-2	B2	2	1	3.50E-02	3.50E-02	5.00E-01	5.00E-01	1.9E+01	1.9E-03	5.3E+01	6.7E-04
N. Sludge Area	VOC	Tetrachloroethene	127-18-4	C-B2	2	1	9.00E-03	9.00E-03	5.00E-01	5.00E-01	2.9E+00	3.1E-03	8.5E+00	1.1E-03
N. Sludge Area	VOC	Toluene	108-88-3	ID	2	0			5.00E-01	5.00E-01	1.6E+03		5.4E+02	
N. Sludge Area	VOC	Trichloroethene	79-01-6	C-B2	2	0			2.50E+00	2.50E+00	5.2E+00		1.9E+01	
N. Sludge Area	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	2	2	8.70E-01	3.50E+00			1.9E+09	1.8E-09	1.8E+03	2.0E-03
N. Sludge Area	SVOC	Fluoranthene	206-44-0	D	2	0			1.60E+00	1.60E+00	1.8E+06		2.5E+04	
N. Sludge Area	SVOC	Phenanthrene	85-01-8	D	2	0			1.60E+00	1.60E+00	2.1E+05		1.4E+04	
N. Sludge Area	SVOC	Pyrene	129-00-0	D	2	0			1.60E+00	1.60E+00	1.9E+06		1.9E+04	
N. Sludge Area	PEST	4,4'-DDD	72-54-8	B2	2	0					2.0E+05		1.6E+02	
N. Sludge Area	PCB	PCBs (total)	1336-36-3	B2	2	1	5.60E-02	5.60E-02			1.2E+02	4.8E-04	7.3E+00	7.7E-03
N. Sludge Area	INORG	Aluminum	7429-90-5	D	2	2	1.82E+04	2.78E+04						
N. Sludge Area	INORG	Antimony	7440-36-0		2	2	1.16E+02	3.85E+02					8.2E+02	4.7E-01
N. Sludge Area	INORG	Arsenic	7440-38-2	A	2	2	1.29E+01	2.31E+01					2.7E+01	8.5E-01
N. Sludge Area	INORG	Barium	7440-39-3	NC	2	2	1.77E+02	2.17E+02					1.4E+05	1.5E-03
N. Sludge Area	INORG	Beryllium	7440-41-7	B1	2	2	9.80E-01	1.30E+00					3.7E+03	3.5E-04
N. Sludge Area	INORG	Cadmium	7440-43-9	B1	2	2	8.30E+00	2.09E+01					1.3E+03	1.6E-02
N. Sludge Area	INORG	Chromium (total)	7440-47-3		2	2	1.00E+04	3.45E+04					4.2E+03	8.2E+00
N. Sludge Area	INORG	Cobalt	7440-48-4	B1	2	2	1.48E+01	2.63E+01					1.8E+04	1.5E-03
N. Sludge Area	INORG	Copper	7440-50-8	D	2	2	2.09E+03	1.28E+04					8.2E+04	1.6E-01
N. Sludge Area	INORG	Cyanide (total)	57-12-5	D	2	1	1.43E+02	1.43E+02					4.1E+04	3.5E-03
N. Sludge Area	INORG	Iron	7439-89-6	D	2	2	6.81E+03	2.82E+04						
N. Sludge Area	INORG	Lead	7439-92-1	B2	2	2	4.44E+01	1.17E+02					7.5E+02	1.6E-01
N. Sludge Area	INORG	Magnesium	7439-95-4		2	2	3.68E+03	1.33E+04						
N. Sludge Area	INORG	Manganese	7439-96-5	D	2	2	8.92E+01	4.67E+02					6.8E+04	6.8E-03
N. Sludge Area	INORG	Mercury	7439-97-6	D	2	1	4.50E-01	4.50E-01			4.0E+01	1.1E-02	3.0E+01	1.5E-02
N. Sludge Area	INORG	Nickel	7440-02-0	A	2	2	4.59E+03	2.43E+04					4.1E+04	5.9E-01
N. Sludge Area	INORG	Selenium	7782-49-2	D	2	2	1.60E+00	3.20E+00					1.0E+04	3.1E-04
N. Sludge Area	INORG	Silver	7440-22-4	D	1	1	7.10E+00	7.10E+00					6.5E+03	1.1E-03
N. Sludge Area	INORG	Vanadium	7440-62-2		2	0							2.0E+03	
N. Sludge Area	INORG	Zinc	7440-66-6	ID	2	2	1.93E+03	3.79E+03					6.1E+05	6.2E-03
N. Trenches	VOC	Acetone	67-64-1	ID	3	3	6.00E-03	6.10E-02			3.4E+03	1.8E-05	1.3E+04	4.8E-06
N. Trenches	VOC	Benzene	71-43-2	A	3	0			5.00E-03	5.00E-03	1.1E+00		3.5E+00	
N. Trenches	VOC	Bromodichloromethane	75-27-4	B2	3	0			5.00E-03	5.00E-03	5.0E-01		4.4E+00	

Table 2: Soil Screening Results Summary
Closed Landfill Site, Elyria, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Min Limit (mg/kg)	Max Limit (mg/kg)	Routine Worker Soil Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to RW Soil Vol Indoor Air Criteria	Routine Worker Soil Contact and Inhalation Criteria (mg/kg)	Ratio of Max Detect to Routine Worker Soil Contact and Inhalation Criteria
N. Trenches	VOC	Bromoform	75-25-2	B2	3	0			5.00E-03	5.00E-03	1.0E+01		2.0E+02	
N. Trenches	VOC	Bromomethane	74-83-9	NC	3	0			1.00E-02	1.00E-02	1.6E+00		3.7E+00	
N. Trenches	VOC	2-Butanone	78-93-3	ID	3	2	9.00E-03	1.20E-02	1.00E-02	1.00E-02	4.0E+03	3.0E-06	2.2E+04	5.5E-07
N. Trenches	VOC	Carbon Disulfide	75-15-0		3	0			5.00E-03	5.00E-03	2.2E+02		3.7E+02	
N. Trenches	VOC	Carbon Tetrachloride	56-23-5	B2	3	0			5.00E-03	5.00E-03	5.9E-01		1.5E+00	
N. Trenches	VOC	Chlorobenzene	108-90-7	D	3	0			5.00E-03	5.00E-03	1.9E+01		1.3E+02	
N. Trenches	VOC	Chloroethane	75-00-3		3	0			1.00E-02	1.00E-02	3.2E+03		3.7E+03	
N. Trenches	VOC	Chloroform	67-66-3	B2	3	0			5.00E-03	5.00E-03	3.8E-01		1.1E+00	
N. Trenches	VOC	Chloromethane	74-87-3	D	3	0			1.00E-02	1.00E-02	2.8E+01		5.6E+01	
N. Trenches	VOC	Dibromochloromethane	124-48-1	C	3	0			5.00E-03	5.00E-03	3.7E-01		5.8E+00	
N. Trenches	VOC	1,2-Dichlorobenzene	95-50-1	D	3	0			3.30E-01	3.30E-01	1.3E+02		9.6E+02	
N. Trenches	VOC	1,3-Dichlorobenzene	541-73-1	D	3	0			3.30E-01	3.30E-01	5.0E+01		5.1E+02	
N. Trenches	VOC	1,4-Dichlorobenzene	106-46-7	C	3	0			3.30E-01	3.30E-01	2.2E+00		1.9E+01	
N. Trenches	VOC	1,1-Dichloroethane	75-34-3	SC	3	0			5.00E-03	5.00E-03	1.6E+02		4.5E+02	
N. Trenches	VOC	1,2-Dichloroethane	107-06-2	B2	3	0			5.00E-03	5.00E-03	3.4E-01		1.4E+00	
N. Trenches	VOC	1,1-Dichloroethene	75-35-4	C	3	0			5.00E-03	5.00E-03	6.3E+01		1.2E+02	
N. Trenches	VOC	1,2-Dichloroethene (total)	540-59-0		3	3	6.20E-02	4.50E-01			1.1E+01	4.1E-02	3.6E+01	1.2E-02
N. Trenches	VOC	1,2-Dichloropropane	78-87-5	B2	3	0			5.00E-03	5.00E-03	1.3E+00		5.0E+00	
N. Trenches	VOC	1,3-Dichloropropene (total)	542-75-6	B2	3	0			5.00E-03	5.00E-03	2.2E+00		5.2E+00	
N. Trenches	VOC	Ethyl Benzene	100-41-4	D	3	3	4.00E-03	2.00E-02			3.2E+02	6.3E-05	1.8E+03	1.1E-05
N. Trenches	VOC	2-Hexanone	591-78-6		3	0			1.00E-02	1.00E-02			8.1E+04	
N. Trenches	VOC	4-Methyl-2-pentanone	108-10-1	ID	3	1	2.00E-03	2.00E-03	1.00E-02	1.00E-02	1.3E+03	1.5E-06	1.1E+04	1.9E-07
N. Trenches	VOC	Methylene Chloride	75-09-2	B2	3	3	1.20E-02	1.50E-02			1.9E+01	8.0E-04	5.3E+01	2.9E-04
N. Trenches	VOC	Styrene	100-42-5		3	0			5.00E-03	5.00E-03	5.4E+02		4.4E+03	
N. Trenches	VOC	1,1,1,2,2-Tetrachloroethane	79-34-5	C	3	0			5.00E-03	5.00E-03	3.0E-01		2.2E+00	
N. Trenches	VOC	Tetrachloroethene	127-18-4	C-B2	3	0			5.00E-03	5.00E-03	2.9E+00		8.5E+00	
N. Trenches	VOC	Toluene	108-88-3	ID	3	3	5.00E-03	1.80E-02			1.6E+03	1.1E-05	5.4E+02	3.3E-05
N. Trenches	VOC	1,2,4-Trichlorobenzene	120-82-1	D	3	0			3.30E-01	3.30E-01	4.8E+02		2.5E+03	
N. Trenches	VOC	1,1,1-Trichloroethane	71-55-6	D	3	0			5.00E-03	5.00E-03	6.9E+02		1.8E+03	
N. Trenches	VOC	1,1,2-Trichloroethane	79-00-5	C	3	0			5.00E-03	5.00E-03	5.5E-01		3.8E+00	
N. Trenches	VOC	Trichloroethene	79-01-6	C-B2	3	3	8.20E-01	3.40E+00			5.2E+00	6.5E-01	1.9E+01	1.8E-01
N. Trenches	VOC	Vinyl Acetate	108-05-4		3	0			1.00E-02	1.00E-02	6.3E+01		3.2E+02	
N. Trenches	VOC	Vinyl Chloride	75-01-4	A	3	1	8.00E-03	8.00E-03	1.00E-02	1.00E-02	1.0E+00	8.0E-03	1.5E+00	5.4E-03
N. Trenches	VOC	Xylenes (total)	1330-20-7	ID	3	3	1.80E-02	1.20E-01			3.2E+01	3.8E-03	2.0E+02	6.1E-04
N. Trenches	SVOC	Acenaphthene	83-32-9		3	0			3.30E-01	3.30E-01	1.8E+04		1.1E+04	
N. Trenches	SVOC	Acenaphthylene	208-96-8	D	3	0			3.30E-01	3.30E-01	1.3E+04		6.3E+03	
N. Trenches	SVOC	Anthracene	120-12-7	D	3	0			3.30E-01	3.30E-01			2.3E+05	
N. Trenches	SVOC	Benzo(a)anthracene	56-55-3	B2	3	0			3.30E-01	3.30E-01	7.1E+04		2.8E+01	
N. Trenches	SVOC	Benzo(a)pyrene	50-32-8	B2	3	0			3.30E-01	3.30E-01	5.3E+04		2.9E+00	
N. Trenches	SVOC	Benzo(b)fluoranthene	205-99-2	B2	3	0			3.30E-01	3.30E-01	6.8E+03		2.7E+01	
N. Trenches	SVOC	Benzo(g,h,i)perylene	191-24-2	D	3	0			3.30E-01	3.30E-01	1.8E+10		2.3E+04	
N. Trenches	SVOC	Benzo(k)fluoranthene	207-08-9	B2	3	0			3.30E-01	3.30E-01	9.0E+06		2.9E+02	
N. Trenches	SVOC	Benzoic Acid	65-85-0	D	3	0			1.60E+00	1.60E+00	3.9E+05		3.9E+05	
N. Trenches	SVOC	Benzyl Alcohol	100-51-6	ID	3	0			3.30E-01	3.30E-01	1.7E+05		5.7E+04	
N. Trenches	SVOC	bis(2-Chloroethoxy)methane	111-91-1	D	3	0			3.30E-01	3.30E-01				
N. Trenches	SVOC	bis(2-Chloroethyl) ether	111-44-4	B2	3	0			3.30E-01	3.30E-01	3.3E-01		9.0E-01	
N. Trenches	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	3	1	3.90E-02	3.90E-02	3.30E-01	3.30E-01	1.9E+09	2.0E-11	1.8E+03	2.2E-05

Table 2: Soil Screening Results Summary
Closed Landfill Site, Elyria, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Min Limit (mg/kg)	Max Limit (mg/kg)	Routine Worker Soil Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to RW Soil Vol Indoor Air Criteria	Routine Worker Soil Contact and Inhalation Criteria (mg/kg)	Ratio of Max Detect to Routine Worker Soil Contact and Inhalation Criteria
N. Trenches	SVOC	4-Bromophenyl-phenyl ether	101-55-3	D	3	0			3.30E-01	3.30E-01				
N. Trenches	SVOC	Butylbenzylphthalate	85-68-7	C	3	0			3.30E-01	3.30E-01	4.5E+06		1.2E+04	
N. Trenches	SVOC	4-Chloro-3-methylphenol	59-50-7		3	0			3.30E-01	3.30E-01				
N. Trenches	SVOC	4-Chloroaniline	106-47-8		3	0			3.30E-01	3.30E-01	9.0E+02		1.7E+02	
N. Trenches	SVOC	2-Chloronaphthalene	91-58-7		3	0			3.30E-01	3.30E-01	1.9E+04		1.3E+04	
N. Trenches	SVOC	2-Chlorophenol	95-57-8		3	0			3.30E-01	3.30E-01	3.4E+01		1.7E+02	
N. Trenches	SVOC	4-Chlorophenyl-phenyl ether	7005-72-3		3	0			3.30E-01	3.30E-01				
N. Trenches	SVOC	Chrysene	218-01-9	B2	3	0			3.30E-01	3.30E-01	2.6E+05		2.6E+03	
N. Trenches	SVOC	Dibenz(a,h)anthracene	53-70-3	B2	3	0			3.30E-01	3.30E-01	1.5E+07		2.9E+00	
N. Trenches	SVOC	Dibenzofuran	132-64-9	D	3	0			3.30E-01	3.30E-01	2.2E+04		1.2E+03	
N. Trenches	SVOC	3,3'-Dichlorobenzidine	91-94-1	B2	3	0			6.60E-01	6.60E-01	7.4E+04		5.0E+01	
N. Trenches	SVOC	2,4-Dichlorophenol	120-83-2		3	0			3.30E-01	3.30E-01	1.1E+03		6.6E+02	
N. Trenches	SVOC	Diethylphthalate	84-66-2	D	3	1	1.10E-01	1.10E-01	3.30E-01	3.30E-01	3.6E+06	3.0E-08	4.1E+05	2.7E-07
N. Trenches	SVOC	2,4-Dimethylphenol	105-67-9		3	0			3.30E-01	3.30E-01	1.5E+04		4.8E+03	
N. Trenches	SVOC	Dimethylphthalate	131-11-3	D	3	0			3.30E-01	3.30E-01				
N. Trenches	SVOC	Di-n-butylphthalate	84-74-2	D	3	0			3.30E-01	3.30E-01			8.8E+04	
N. Trenches	SVOC	4,6-Dinitro-2-methylphenol	534-52-1		3	0			1.60E+00	1.60E+00	2.2E+02		4.2E+01	
N. Trenches	SVOC	2,4-Dinitrophenol	51-28-5		3	0			1.60E+00	1.60E+00			1.8E+03	
N. Trenches	SVOC	2,4-Dinitrotoluene	121-14-2	B2	3	0			3.30E-01	3.30E-01			3.6E+01	
N. Trenches	SVOC	2,6-Dinitrotoluene	606-20-2	B2	3	0			3.30E-01	3.30E-01	3.3E+01		1.2E+01	
N. Trenches	SVOC	Di-n-octylphthalate	117-84-0		3	0			3.30E-01	3.30E-01			3.5E+04	
N. Trenches	SVOC	Fluoranthene	206-44-0	D	3	0			3.30E-01	3.30E-01	1.8E+06		2.5E+04	
N. Trenches	SVOC	Fluorene	86-73-7	D	3	0			3.30E-01	3.30E-01	5.7E+04		1.3E+04	
N. Trenches	SVOC	Hexachlorobenzene	118-74-1	B2	3	0			3.30E-01	3.30E-01	4.7E+00		3.0E+00	
N. Trenches	SVOC	Hexachlorobutadiene	87-68-3	C	3	0			3.30E-01	3.30E-01	1.6E+01		2.7E+01	
N. Trenches	SVOC	Hexachlorocyclopentadiene	77-47-4	E	3	0			3.30E-01	3.30E-01	2.9E+00		9.3E+00	
N. Trenches	SVOC	Hexachloroethane	67-72-1	C	3	0			3.30E-01	3.30E-01	8.6E+00		1.9E+02	
N. Trenches	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	B2	3	0			3.30E-01	3.30E-01	1.3E+06		2.9E+01	
N. Trenches	SVOC	Isophorone	78-59-1	C	3	0			3.30E-01	3.30E-01			2.6E+04	
N. Trenches	SVOC	2-Methylnaphthalene	91-57-6	ID	3	0			3.30E-01	3.30E-01	6.8E+01		7.1E+01	
N. Trenches	SVOC	Methylphenol (total)	1319-77-3		3	0			3.30E-01	3.30E-01	4.0E+04		1.1E+04	
N. Trenches	SVOC	Naphthalene	91-20-3	C	3	0			3.30E-01	3.30E-01	2.3E+01		5.5E+01	
N. Trenches	SVOC	2-Nitroaniline	88-74-4		3	0			1.60E+00	1.60E+00	2.0E+02		3.5E+01	
N. Trenches	SVOC	3-Nitroaniline	99-09-2	C	3	0			1.60E+00	1.60E+00			2.6E+02	
N. Trenches	SVOC	4-Nitroaniline	100-01-6	C	3	0			1.60E+00	1.60E+00	1.6E+05		1.2E+03	
N. Trenches	SVOC	Nitrobenzene	98-95-3	D	3	0			3.30E-01	3.30E-01	1.3E+01		2.7E+01	
N. Trenches	SVOC	2-Nitrophenol	88-75-5		3	0			3.30E-01	3.30E-01				
N. Trenches	SVOC	4-Nitrophenol	100-02-7		3	0			1.60E+00	1.60E+00				
N. Trenches	SVOC	N-Nitrosodiphenylamine	86-30-6	B2	3	0			3.30E-01	3.30E-01			5.0E+03	
N. Trenches	SVOC	N-Nitroso-di-n-propylamine	621-64-7	B2	3	0			3.30E-01	3.30E-01	5.3E-01		4.8E-01	
N. Trenches	SVOC	2,2'-oxybis(1-Chloropropane)	108-60-1	C	3	0			3.30E-01	3.30E-01	1.2E+01		3.4E+01	
N. Trenches	SVOC	Pentachlorophenol	87-86-5	B2	3	0			1.60E+00	1.60E+00	3.8E+04		1.0E+02	
N. Trenches	SVOC	Phenanthrene	85-01-8	D	3	0			3.30E-01	3.30E-01	2.1E+05		1.4E+04	
N. Trenches	SVOC	Phenol	108-95-2	ID	3	0			3.30E-01	3.30E-01			2.6E+05	
N. Trenches	SVOC	Pyrene	129-00-0	D	3	0			3.30E-01	3.30E-01	1.9E+06		1.9E+04	
N. Trenches	SVOC	2,4,5-Trichlorophenol	95-95-4		3	0			1.60E+00	1.60E+00			8.8E+04	
N. Trenches	SVOC	2,4,6-Trichlorophenol	88-06-2	B2	3	0			3.30E-01	3.30E-01	8.8E+02		8.8E+01	

Table 2: Soil Screening Results Summary
Closed Landfill Site, Elyria, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Min Limit (mg/kg)	Max Limit (mg/kg)	Routine Worker Soil Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to RW Soil Vol Indoor Air Criteria	Routine Worker Soil Contact and Inhalation Criteria (mg/kg)	Ratio of Max Detect to Routine Worker Soil Contact and Inhalation Criteria
N. Trenches	INORG	Chromium (total)	7440-47-3		8	8	6.81E+00	3.25E+03					4.2E+03	7.8E-01
N. Trenches	INORG	Copper	7440-50-8	D	8	8	1.47E+01	1.15E+03					8.2E+04	1.4E-02
N. Trenches	INORG	Lead	7439-92-1	B2	3	3	1.90E+01	2.90E+01					7.5E+02	3.9E-02
N. Trenches	INORG	Nickel	7440-02-0	A	8	8	1.88E+01	2.31E+03					4.1E+04	5.7E-02
N. Trenches	INORG	Zinc	7440-66-6	ID	3	3	6.56E+01	1.48E+02					6.1E+05	2.4E-04
Open Burn	VOC	Methylene Chloride	75-09-2	B2	2	0			5.00E-01	5.00E-01	1.9E+01		5.3E+01	
Open Burn	VOC	Tetrachloroethene	127-18-4	C-B2	2	2	5.00E-03	2.50E-02			2.9E+00	8.7E-03	8.5E+00	2.9E-03
Open Burn	VOC	Toluene	108-88-3	ID	2	1	3.00E-03	3.00E-03	5.00E-01	5.00E-01	1.6E+03	1.9E-06	5.4E+02	5.6E-06
Open Burn	VOC	Trichloroethene	79-01-6	C-B2	2	2	1.00E-03	8.00E-03			5.2E+00	1.5E-03	1.9E+01	4.3E-04
Open Burn	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	2	1	2.40E-01	2.40E-01	1.60E+00	1.60E+00	1.9E+09	1.2E-10	1.8E+03	1.4E-04
Open Burn	SVOC	Fluoranthene	206-44-0	D	2	1	1.90E-01	1.90E-01	1.60E+00	1.60E+00	1.8E+06	1.1E-07	2.5E+04	7.6E-06
Open Burn	SVOC	Phenanthrene	85-01-8	D	2	1	2.20E-01	2.20E-01	1.60E+00	1.60E+00	2.1E+05	1.1E-06	1.4E+04	1.6E-05
Open Burn	SVOC	Pyrene	129-00-0	D	2	1	1.30E-01	1.30E-01	1.60E+00	1.60E+00	1.9E+06	6.8E-08	1.9E+04	6.7E-06
Open Burn	PEST	4,4'-DDD	72-54-8	B2	2	1	1.10E-01	1.10E-01			2.0E+05	5.6E-07	1.6E+02	6.8E-04
Open Burn	PCB	PCBs (total)	1336-36-3	B2	2	1	7.70E-01	7.70E-01			1.2E+02	6.6E-03	7.3E+00	1.1E-01
Open Burn	INORG	Aluminum	7429-90-5	D	2	2	1.37E+04	1.74E+04						
Open Burn	INORG	Arsenic	7440-38-2	A	2	2	3.90E+00	5.80E+00					2.7E+01	2.1E-01
Open Burn	INORG	Barium	7440-39-3	NC	2	2	1.19E+02	1.22E+02					1.4E+05	8.5E-04
Open Burn	INORG	Beryllium	7440-41-7	B1	2	2	1.00E+00	1.20E+00					3.7E+03	3.3E-04
Open Burn	INORG	Cadmium	7440-43-9	B1	2	2	3.80E+00	4.80E+00					1.3E+03	3.6E-03
Open Burn	INORG	Chromium (total)	7440-47-3		2	2	5.18E+01	6.71E+02					4.2E+03	1.6E-01
Open Burn	INORG	Cobalt	7440-48-4	B1	2	2	8.20E+00	9.40E+00					1.8E+04	5.2E-04
Open Burn	INORG	Copper	7440-50-8	D	2	2	3.15E+01	2.16E+02					8.2E+04	2.6E-03
Open Burn	INORG	Cyanide (total)	57-12-5	D	2	0							4.1E+04	
Open Burn	INORG	Iron	7439-89-6	D	2	2	2.52E+04	2.93E+04						
Open Burn	INORG	Lead	7439-92-1	B2	2	2	7.70E+00	1.52E+01					7.5E+02	2.0E-02
Open Burn	INORG	Magnesium	7439-95-4		2	2	5.58E+03	9.18E+03						
Open Burn	INORG	Manganese	7439-96-5	D	2	2	7.05E+02	2.81E+03					6.8E+04	4.1E-02
Open Burn	INORG	Mercury	7439-97-6	D	2	0					4.0E+01		3.0E+01	
Open Burn	INORG	Nickel	7440-02-0	A	2	2	3.84E+01	6.69E+02					4.1E+04	1.6E-02
Open Burn	INORG	Selenium	7782-49-2	D	2	2	3.30E-01	4.20E-01					1.0E+04	4.1E-05
Open Burn	INORG	Vanadium	7440-62-2		2	2	3.82E+01	3.88E+01					2.0E+03	1.9E-02
Open Burn	INORG	Zinc	7440-66-6	ID	2	2	1.15E+02	1.01E+03					6.1E+05	1.6E-03
Railway Spur	INORG	Chromium (total)	7440-47-3		2	2	9.52E+02	1.45E+03					4.2E+03	3.5E-01
Railway Spur	INORG	Copper	7440-50-8	D	2	2	3.10E+03	5.10E+03					8.2E+04	6.2E-02
Railway Spur	INORG	Nickel	7440-02-0	A	2	2	8.23E+02	1.12E+03					4.1E+04	2.7E-02
S. Sludge Area	VOC	Methylene Chloride	75-09-2	B2	2	0			5.00E-01	5.00E-01	1.9E+01		5.3E+01	
S. Sludge Area	VOC	Tetrachloroethene	127-18-4	C-B2	2	0			5.00E-01	5.00E-01	2.9E+00		8.5E+00	
S. Sludge Area	VOC	Toluene	108-88-3	ID	2	0			5.00E-01	5.00E-01	1.6E+03		5.4E+02	
S. Sludge Area	VOC	Trichloroethene	79-01-6	C-B2	2	0			2.50E+00	2.50E+00	5.2E+00		1.9E+01	
S. Sludge Area	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	2	2	6.50E-01	2.30E+00			1.9E+09	1.2E-09	1.8E+03	1.3E-03
S. Sludge Area	SVOC	Fluoranthene	206-44-0	D	2	0			1.60E+00	1.60E+00	1.8E+06		2.5E+04	
S. Sludge Area	SVOC	Phenanthrene	85-01-8	D	2	0			1.60E+00	1.60E+00	2.1E+05		1.4E+04	
S. Sludge Area	SVOC	Pyrene	129-00-0	D	2	0			1.60E+00	1.60E+00	1.9E+06		1.9E+04	
S. Sludge Area	PEST	4,4'-DDD	72-54-8	B2	2	0					2.0E+05		1.6E+02	
S. Sludge Area	PCB	PCBs (total)	1336-36-3	B2	2	0					1.2E+02		7.3E+00	
S. Sludge Area	INORG	Aluminum	7429-90-5	D	2	2	1.11E+04	2.06E+04						

Table 2: Soil Screening Results Summary
Closed Landfill Site, Elyria, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Min Limit (mg/kg)	Max Limit (mg/kg)	Routine Worker Soil Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to RW Soil Vol Indoor Air Criteria	Routine Worker Soil Contact and Inhalation Criteria (mg/kg)	Ratio of Max Detect to Routine Worker Soil Contact and Inhalation Criteria
S. Sludge Area	INORG	Antimony	7440-36-0		2	2	8.04E+01	2.53E+02					8.2E+02	3.1E-01
S. Sludge Area	INORG	Arsenic	7440-38-2	A	2	2	2.19E+01	2.57E+01					2.7E+01	9.4E-01
S. Sludge Area	INORG	Barium	7440-39-3	NC	2	2	1.27E+02	1.69E+02					1.4E+05	1.2E-03
S. Sludge Area	INORG	Beryllium	7440-41-7	B1	2	2	1.20E+00	1.30E+00					3.7E+03	3.5E-04
S. Sludge Area	INORG	Cadmium	7440-43-9	B1	2	2	7.70E+00	1.06E+01					1.3E+03	8.0E-03
S. Sludge Area	INORG	Chromium (total)	7440-47-3		2	2	6.12E+03	2.21E+04					4.2E+03	5.3E+00
S. Sludge Area	INORG	Cobalt	7440-48-4	B1	2	2	2.50E+01	3.65E+01					1.8E+04	2.0E-03
S. Sludge Area	INORG	Copper	7440-50-8	D	2	2	1.82E+03	4.37E+03					8.2E+04	5.3E-02
S. Sludge Area	INORG	Cyanide (total)	57-12-5	D	2	2	8.70E+00	3.06E+01					4.1E+04	7.5E-04
S. Sludge Area	INORG	Iron	7439-89-6		2	2	2.36E+04	3.53E+04						
S. Sludge Area	INORG	Lead	7439-92-1	B2	2	2	2.10E+01	1.74E+02					7.5E+02	2.3E-01
S. Sludge Area	INORG	Magnesium	7439-95-4		2	2	4.86E+03	9.20E+03						
S. Sludge Area	INORG	Manganese	7439-96-5	D	2	2	3.27E+02	3.97E+02					6.8E+04	5.8E-03
S. Sludge Area	INORG	Mercury	7439-97-6	D	2	2	1.70E-01	4.10E-01			4.0E+01	1.0E-02	3.0E+01	1.4E-02
S. Sludge Area	INORG	Nickel	7440-02-0	A	2	2	2.99E+03	9.58E+03					4.1E+04	2.3E-01
S. Sludge Area	INORG	Selenium	7782-49-2	D	2	2	8.50E-01	1.30E+00					1.0E+04	1.3E-04
S. Sludge Area	INORG	Vanadium	7440-62-2		2	1	4.30E+00	4.30E+00					2.0E+03	2.1E-03
S. Sludge Area	INORG	Zinc	7440-66-6	ID	2	2	1.47E+03	3.36E+03					6.1E+05	5.5E-03
S. Trenches	VOC	Acetone	67-64-1	ID	3	3	6.80E-02	1.90E+00			3.4E+03	5.6E-04	1.3E+04	1.5E-04
S. Trenches	VOC	Benzene	71-43-2	A	3	0			5.00E-03	5.00E-01	1.1E+00		3.5E+00	
S. Trenches	VOC	Bromodichloromethane	75-27-4	B2	3	0			5.00E-03	5.00E-01	5.0E-01		4.4E+00	
S. Trenches	VOC	Bromoform	75-25-2	B2	3	0			5.00E-03	5.00E-01	1.0E+01		2.0E+02	
S. Trenches	VOC	Bromomethane	74-83-9	NC	3	0			1.00E-02	1.00E+00	1.6E+00		3.7E+00	
S. Trenches	VOC	2-Butanone	78-93-3	ID	3	2	1.60E-02	9.30E+00	1.00E-01	1.00E-01	4.0E+03	2.3E-03	2.2E+04	4.3E-04
S. Trenches	VOC	Carbon Disulfide	75-15-0		3	0			5.00E-03	5.00E-01	2.2E+02		3.7E+02	
S. Trenches	VOC	Carbon Tetrachloride	56-23-5	B2	3	0			5.00E-03	5.00E-01	5.9E-01		1.5E+00	
S. Trenches	VOC	Chlorobenzene	108-90-7	D	3	0			5.00E-03	5.00E-01	1.9E+01		1.3E+02	
S. Trenches	VOC	Chloroethane	75-00-3		3	0			1.00E-02	1.00E+00	3.2E+03		3.7E+03	
S. Trenches	VOC	Chloroform	67-66-3	B2	3	0			5.00E-03	5.00E-01	3.8E-01		1.1E+00	
S. Trenches	VOC	Chloromethane	74-87-3	D	3	0			1.00E-02	1.00E+00	2.8E+01		5.6E+01	
S. Trenches	VOC	Dibromochloromethane	124-48-1	C	3	0			5.00E-03	5.00E-01	3.7E-01		5.8E+00	
S. Trenches	VOC	1,2-Dichlorobenzene	95-50-1	D	3	0			3.30E-01	1.60E+00	1.3E+02		9.6E+02	
S. Trenches	VOC	1,3-Dichlorobenzene	541-73-1	D	3	0			3.30E-01	1.60E+00	5.0E+01		5.1E+02	
S. Trenches	VOC	1,4-Dichlorobenzene	106-46-7	C	3	0			3.30E-01	1.60E+00	2.2E+00		1.9E+01	
S. Trenches	VOC	1,1-Dichloroethane	75-34-3	SC	3	0			5.00E-03	5.00E-01	1.6E+02		4.5E+02	
S. Trenches	VOC	1,2-Dichloroethane	107-06-2	B2	3	0			5.00E-03	5.00E-01	3.4E-01		1.4E+00	
S. Trenches	VOC	1,1-Dichloroethene	75-35-4	C	3	1	1.40E-02	1.40E-02	5.00E-02	5.00E-01	6.3E+01	2.2E-04	1.2E+02	1.2E-04
S. Trenches	VOC	1,2-Dichloroethene (total)	540-59-0		3	3	4.20E+00	4.50E+00			1.1E+01	4.1E-01	3.6E+01	1.2E-01
S. Trenches	VOC	1,2-Dichloropropane	78-87-5	B2	3	0			5.00E-03	5.00E-01	1.3E+00		5.0E+00	
S. Trenches	VOC	1,3-Dichloropropane (total)	542-75-6	B2	3	0			5.00E-03	5.00E-01	2.2E+00		5.2E+00	
S. Trenches	VOC	Ethyl Benzene	100-41-4	D	3	2	5.30E-02	3.40E+00	5.00E-02	5.00E-02	3.2E+02	1.1E-02	1.8E+03	1.9E-03
S. Trenches	VOC	2-Hexanone	591-78-6		3	0			1.00E-02	1.00E+00			8.1E+04	
S. Trenches	VOC	4-Methyl-2-pentanone	108-10-1	ID	3	0			1.00E-02	1.00E+00	1.3E+03		1.1E+04	
S. Trenches	VOC	Methylene Chloride	75-09-2	B2	3	1	1.50E-02	1.50E-02	5.00E-02	5.00E-01	1.9E+01	8.0E-04	5.3E+01	2.9E-04
S. Trenches	VOC	Styrene	100-42-5		3	0			5.00E-03	5.00E-01	5.4E+02		4.4E+03	
S. Trenches	VOC	1,1,2,2-Tetrachloroethane	79-34-5	C	3	0			5.00E-03	5.00E-01	3.0E-01		2.2E+00	
S. Trenches	VOC	Tetrachloroethene	127-18-4	C-B2	3	0			5.00E-03	5.00E-01	2.9E+00		8.5E+00	

Table 2: Soil Screening Results Summary
Closed Landfill Site, Elyria, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Min Limit (mg/kg)	Max Limit (mg/kg)	Routine Worker Soil Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to RW Soil Vol Indoor Air Criteria	Routine Worker Soil Contact and Inhalation Criteria (mg/kg)	Ratio of Max Detect to Routine Worker Soil Contact and Inhalation Criteria
S. Trenches	VOC	Toluene	108-88-3	ID	3	3	5.20E-02	7.80E-01			1.6E+03	4.9E-04	5.4E+02	1.4E-03
S. Trenches	VOC	1,2,4-Trichlorobenzene	120-82-1	D	3	0			3.30E-01	1.60E+00	4.8E+02		2.5E+03	
S. Trenches	VOC	1,1,1-Trichloroethane	71-55-6	D	3	0			5.00E-03	5.00E-01	6.9E+02		1.8E+03	
S. Trenches	VOC	1,1,2-Trichloroethane	79-00-5	C	3	0			5.00E-03	5.00E-01	5.5E-01		3.8E+00	
S. Trenches	VOC	Trichloroethene	79-01-6	C-B2	3	3	2.10E+01	7.30E+01			5.2E+00	1.4E+01	1.9E+01	3.9E+00
S. Trenches	VOC	Vinyl Acetate	108-05-4		3	0			1.00E-02	1.00E+00	6.3E+01		3.2E+02	
S. Trenches	VOC	Vinyl Chloride	75-01-4	A	3	1	8.20E-02	8.20E-02	1.00E-01	1.00E+00	1.0E+00	8.2E-02	1.5E+00	5.5E-02
S. Trenches	VOC	Xylenes (total)	1330-20-7	ID	3	3	3.40E-01	2.60E+01			3.2E+01	8.2E-01	2.0E+02	1.3E-01
S. Trenches	SVOC	Acenaphthene	83-32-9		3	0			3.30E-01	1.60E+00	1.8E+04		1.1E+04	
S. Trenches	SVOC	Acenaphthylene	208-96-8	D	3	0			3.30E-01	1.60E+00	1.3E+04		6.3E+03	
S. Trenches	SVOC	Anthracene	120-12-7	D	3	0			3.30E-01	1.60E+00			2.3E+05	
S. Trenches	SVOC	Benzo(a)anthracene	56-55-3	B2	3	0			3.30E-01	1.60E+00	7.1E+04		2.8E+01	
S. Trenches	SVOC	Benzo(a)pyrene	50-32-8	B2	3	0			3.30E-01	1.60E+00	5.3E+04		2.9E+00	
S. Trenches	SVOC	Benzo(b)fluoranthene	205-99-2	B2	3	0			3.30E-01	1.60E+00	6.8E+03		2.7E+01	
S. Trenches	SVOC	Benzo(g,h,i)perylene	191-24-2	D	3	0			3.30E-01	1.60E+00	1.8E+10		2.3E+04	
S. Trenches	SVOC	Benzo(k)fluoranthene	207-08-9	B2	3	0			3.30E-01	1.60E+00	9.0E+06		2.9E+02	
S. Trenches	SVOC	Benzoic Acid	65-85-0	D	3	0			1.60E+00	8.20E+00	3.9E+05		3.9E+05	
S. Trenches	SVOC	Benzyl Alcohol	100-51-6	ID	3	0			3.30E-01	1.60E+00	1.7E+05		5.7E+04	
S. Trenches	SVOC	bis(2-Chloroethoxy)methane	111-91-1	D	3	0			3.30E-01	1.60E+00				
S. Trenches	SVOC	bis(2-Chloroethyl) ether	111-44-4	B2	3	0			3.30E-01	1.60E+00	3.3E-01		9.0E-01	
S. Trenches	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	3	3	3.60E-01	5.10E+00			1.9E+09	2.7E-09	1.8E+03	2.9E-03
S. Trenches	SVOC	4-Bromophenyl-phenyl ether	101-55-3	D	3	0			3.30E-01	1.60E+00				
S. Trenches	SVOC	Butylbenzylphthalate	85-68-7	C	3	0			3.30E-01	1.60E+00	4.5E+06		1.2E+04	
S. Trenches	SVOC	4-Chloro-3-methylphenol	59-50-7		3	0			3.30E-01	1.60E+00				
S. Trenches	SVOC	4-Chloroaniline	106-47-8		3	0			3.30E-01	1.60E+00	9.0E+02		1.7E+02	
S. Trenches	SVOC	2-Chloronaphthalene	91-58-7		3	0			3.30E-01	1.60E+00	1.9E+04		1.3E+04	
S. Trenches	SVOC	2-Chlorophenol	95-57-8		3	0			3.30E-01	1.60E+00	3.4E+01		1.7E+02	
S. Trenches	SVOC	4-Chlorophenyl-phenyl ether	7005-72-3		3	0			3.30E-01	1.60E+00				
S. Trenches	SVOC	Chrysene	218-01-9	B2	3	0			3.30E-01	1.60E+00	2.6E+05		2.6E+03	
S. Trenches	SVOC	Dibenz(a,h)anthracene	53-70-3	B2	3	0			3.30E-01	1.60E+00	1.5E+07		2.9E+00	
S. Trenches	SVOC	Dibenzofuran	132-64-9	D	3	0			3.30E-01	1.60E+00	2.2E+04		1.2E+03	
S. Trenches	SVOC	3,3'-Dichlorobenzidine	91-94-1	B2	3	0			6.60E-01	3.20E+00	7.4E+04		5.0E+01	
S. Trenches	SVOC	2,4-Dichlorophenol	120-83-2		3	0			3.30E-01	1.60E+00	1.1E+03		6.6E+02	
S. Trenches	SVOC	Diethylphthalate	84-66-2	D	3	0			3.30E-01	1.60E+00	3.6E+06		4.1E+05	
S. Trenches	SVOC	2,4-Dimethylphenol	105-67-9		3	0			3.30E-01	1.60E+00	1.5E+04		4.8E+03	
S. Trenches	SVOC	Dimethylphthalate	131-11-3	D	3	0			3.30E-01	1.60E+00				
S. Trenches	SVOC	Di-n-butylphthalate	84-74-2	D	3	0			3.30E-01	1.60E+00			8.8E+04	
S. Trenches	SVOC	4,6-Dinitro-2-methylphenol	534-52-1		3	0			1.60E+00	8.20E+00	2.2E+02		4.2E+01	
S. Trenches	SVOC	2,4-Dinitrophenol	51-28-5		3	0			1.60E+00	8.20E+00			1.8E+03	
S. Trenches	SVOC	2,4-Dinitrotoluene	121-14-2	B2	3	0			3.30E-01	1.60E+00			3.6E+01	
S. Trenches	SVOC	2,6-Dinitrotoluene	606-20-2	B2	3	0			3.30E-01	1.60E+00	3.3E+01		1.2E+01	
S. Trenches	SVOC	Di-n-octylphthalate	117-84-0		3	0			3.30E-01	1.60E+00			3.5E+04	
S. Trenches	SVOC	Fluoranthene	206-44-0	D	3	0			3.30E-01	1.60E+00	1.8E+06		2.5E+04	
S. Trenches	SVOC	Fluorene	86-73-7	D	3	0			3.30E-01	1.60E+00	5.7E+04		1.3E+04	
S. Trenches	SVOC	Hexachlorobenzene	118-74-1	B2	3	0			3.30E-01	1.60E+00	4.7E+00		3.0E+00	
S. Trenches	SVOC	Hexachlorobutadiene	87-68-3	C	3	0			3.30E-01	1.60E+00	1.6E+01		2.7E+01	
S. Trenches	SVOC	Hexachlorocyclopentadiene	77-47-4	E	3	0			3.30E-01	1.60E+00	2.9E+00		9.3E+00	

Table 2: Soil Screening Results Summary
Closed Landfill Site, Elyria, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Min Limit (mg/kg)	Max Limit (mg/kg)	Routine Worker Soil Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to RW Soil Vol Indoor Air Criteria	Routine Worker Soil Contact and Inhalation Criteria (mg/kg)	Ratio of Max Detect to Routine Worker Soil Contact and Inhalation Criteria
S. Trenches	SVOC	Hexachloroethane	67-72-1	C	3	0			3.30E-01	1.60E+00	8.6E+00		1.9E+02	
S. Trenches	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	B2	3	0			3.30E-01	1.60E+00	1.3E+06		2.9E+01	
S. Trenches	SVOC	Isophorone	78-59-1	C	3	0			3.30E-01	1.60E+00			2.6E+04	
S. Trenches	SVOC	2-Methylnaphthalene	91-57-6	ID	3	0			3.30E-01	1.60E+00	6.8E+01		7.1E+01	
S. Trenches	SVOC	Methylphenol (total)	1319-77-3		3	0			3.30E-01	1.60E+00	4.0E+04		1.1E+04	
S. Trenches	SVOC	Naphthalene	91-20-3	C	3	1	3.90E-01	3.90E-01	3.30E-01	1.60E+00	2.3E+01	1.7E-02	5.5E+01	7.1E-03
S. Trenches	SVOC	2-Nitroaniline	88-74-4		3	0			1.60E+00	8.20E+00	2.0E+02		3.5E+01	
S. Trenches	SVOC	3-Nitroaniline	99-09-2	C	3	0			1.60E+00	8.20E+00			2.6E+02	
S. Trenches	SVOC	4-Nitroaniline	100-01-6	C	3	0			1.60E+00	8.20E+00	1.6E+05		1.2E+03	
S. Trenches	SVOC	Nitrobenzene	98-95-3	D	3	0			3.30E-01	1.60E+00	1.3E+01		2.7E+01	
S. Trenches	SVOC	2-Nitrophenol	88-75-5		3	0			3.30E-01	1.60E+00				
S. Trenches	SVOC	4-Nitrophenol	100-02-7		3	0			1.60E+00	8.20E+00				
S. Trenches	SVOC	N-Nitrosodiphenylamine	86-30-6	B2	3	0			3.30E-01	1.60E+00			5.0E+03	
S. Trenches	SVOC	N-Nitroso-di-n-propylamine	621-64-7	B2	3	0			3.30E-01	1.60E+00	5.3E-01		4.8E-01	
S. Trenches	SVOC	2,2'-oxybis(1-Chloropropane)	108-60-1	C	3	0			3.30E-01	1.60E+00	1.2E+01		3.4E+01	
S. Trenches	SVOC	Pentachlorophenol	87-86-5	B2	3	0			1.60E+00	8.20E+00	3.8E+04		1.0E+02	
S. Trenches	SVOC	Phenanthrene	85-01-8	D	3	0			3.30E-01	1.60E+00	2.1E+05		1.4E+04	
S. Trenches	SVOC	Phenol	108-95-2	ID	3	0			3.30E-01	1.60E+00			2.6E+05	
S. Trenches	SVOC	Pyrene	129-00-0	D	3	0			3.30E-01	1.60E+00	1.9E+06		1.9E+04	
S. Trenches	SVOC	2,4,5-Trichlorophenol	95-95-4		3	0			1.60E+00	8.20E+00			8.8E+04	
S. Trenches	SVOC	2,4,6-Trichlorophenol	88-06-2	B2	3	0			3.30E-01	1.60E+00	8.8E+02		8.8E+01	
S. Trenches	INORG	Chromium (total)	7440-47-3		7	7	1.43E+01	7.41E+03					4.2E+03	1.8E+00
S. Trenches	INORG	Copper	7440-50-8	D	7	7	3.06E+01	2.91E+04					8.2E+04	3.6E-01
S. Trenches	INORG	Lead	7439-92-1	B2	3	3	2.20E+01	8.50E+01					7.5E+02	1.1E-01
S. Trenches	INORG	Nickel	7440-02-0	A	7	7	4.49E+01	1.23E+04					4.1E+04	3.0E-01
S. Trenches	INORG	Zinc	7440-66-6	ID	3	3	1.24E+02	6.69E+03					6.1E+05	1.1E-02
Unassigned	VOC	Methylene Chloride	75-09-2	B2	1	0			5.00E-01	5.00E-01	1.9E+01		5.3E+01	
Unassigned	VOC	Tetrachloroethene	127-18-4	C-B2	1	1	1.20E-02	1.20E-02			2.9E+00	4.2E-03	8.5E+00	1.4E-03
Unassigned	VOC	Toluene	108-88-3	ID	1	0			5.00E-01	5.00E-01	1.6E+03		5.4E+02	
Unassigned	VOC	Trichloroethene	79-01-6	C-B2	1	0			2.50E+00	2.50E+00	5.2E+00		1.9E+01	
Unassigned	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	1	1	3.00E-01	3.00E-01			1.9E+09	1.6E-10	1.8E+03	1.7E-04
Unassigned	SVOC	Fluoranthene	206-44-0	D	1	0			1.60E+00	1.60E+00	1.8E+06		2.5E+04	
Unassigned	SVOC	Phenanthrene	85-01-8	D	1	0			1.60E+00	1.60E+00	2.1E+05		1.4E+04	
Unassigned	SVOC	Pyrene	129-00-0	D	1	0			1.60E+00	1.60E+00	1.9E+06		1.9E+04	
Unassigned	PEST	4,4'-DDD	72-54-8	B2	1	0					2.0E+05		1.6E+02	
Unassigned	PCB	PCBs (total)	1336-36-3	B2	1	0					1.2E+02		7.3E+00	
Unassigned	INORG	Aluminum	7429-90-5	D	1	1	1.58E+04	1.58E+04						
Unassigned	INORG	Arsenic	7440-38-2	A	1	1	1.04E+01	1.04E+01					2.7E+01	3.8E-01
Unassigned	INORG	Barium	7440-39-3	NC	1	1	7.57E+01	7.57E+01					1.4E+05	5.3E-04
Unassigned	INORG	Beryllium	7440-41-7	B1	1	1	7.50E-01	7.50E-01					3.7E+03	2.0E-04
Unassigned	INORG	Cadmium	7440-43-9	B1	1	1	3.60E+00	3.60E+00					1.3E+03	2.7E-03
Unassigned	INORG	Chromium (total)	7440-47-3		5	5	1.02E+01	2.18E+01					4.2E+03	5.2E-03
Unassigned	INORG	Cobalt	7440-48-4	B1	1	1	8.90E+00	8.90E+00					1.8E+04	5.0E-04
Unassigned	INORG	Copper	7440-50-8	D	5	5	9.50E+00	4.34E+01					8.2E+04	5.3E-04
Unassigned	INORG	Cyanide (total)	57-12-5	D	1	0							4.1E+04	
Unassigned	INORG	Iron	7439-89-6	D	1	1	2.62E+04	2.62E+04						
Unassigned	INORG	Lead	7439-92-1	B2	1	1	2.49E+01	2.49E+01					7.5E+02	3.3E-02

Table 2: Soil Screening Results Summary
Closed Landfill Site, Elyria, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Min Limit (mg/kg)	Max Limit (mg/kg)	Routine Worker Soil Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to RW Soil Vol Indoor Air Criteria	Routine Worker Soil Contact and Inhalation Criteria (mg/kg)	Ratio of Max Detect to Routine Worker Soil Contact and Inhalation Criteria
Unassigned	INORG	Magnesium	7439-95-4		1	1	2.53E+03	2.53E+03						
Unassigned	INORG	Manganese	7439-96-5	D	1	1	3.20E+02	3.20E+02					6.8E+04	4.7E-03
Unassigned	INORG	Mercury	7439-97-6	D	1	0					4.0E+01		3.0E+01	
Unassigned	INORG	Nickel	7440-02-0	A	5	5	1.42E+01	3.12E+01					4.1E+04	7.6E-04
Unassigned	INORG	Selenium	7782-49-2	D	1	1	5.40E-01	5.40E-01					1.0E+04	5.3E-05
Unassigned	INORG	Vanadium	7440-62-2		1	1	3.45E+01	3.45E+01					2.0E+03	1.7E-02
Unassigned	INORG	Zinc	7440-66-6	ID	1	1	8.19E+01	8.19E+01					6.1E+05	1.3E-04
Notes:														
The criteria for soil are the lower of the criteria at either the target cancer risk of 10 ⁻⁵ or target hazard quotient of 1.														
The criteria for Chromium (total) are based on Chromium VI.														
The criteria for 1,2-Dichloroethene (total) are the more conservative of the criteria for either cis-1,2-Dichloroethene or trans-1,2-Dichloroethene.														
The concentrations for all polychlorinated biphenyls (PCBs) isomers were summed before comparing to the criteria for PCBs (total).														
The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the criteria for Xylenes (total).														
Ratios of concentration to the criteria greater than 1 are shaded in bold.														
Chem Group - chemical group														
Carc Class - USEPA Weight-of-Evidence Cancer Classification														

Table 3: Groundwater Screening Results Summary Closed Landfill Site, Elyria, Ohio																			
Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Min Limit (mg/L)	Max Limit (mg/L)	Drinking Water Criteria (mg/L)		Ratio of Max Detect to Drinking Water Criteria	Maintenance Worker GW Contact Criteria (mg/L)	Ratio of Conc to Maint. Worker GW Contact Criteria	Residential GW Volatilization to Indoor Air Criteria (mg/L)	Ratio of Conc to Res GW Vol to Indoor Air Criteria	
perimeter wells	VOC	Acetone	67-64-1	T	ID	13	0			1.00E-02	2.50E-02	3.3E+01	nc		6.8E+03		2.0E+04		
perimeter wells	VOC	Acrolein	107-02-8	T	ID	4	0			5.00E-03	5.00E-03								
perimeter wells	VOC	Acrylonitrile	107-13-1	T	B1	4	0			5.00E-03	5.00E-03								
perimeter wells	VOC	Benzene	71-43-2	T	A	17	1	1.50E-04	1.50E-04	1.00E-03	5.00E-03	5.0E-03	sm	3.0E-02	4.9E+00	3.1E-05	1.8E+00	8.4E-05	
perimeter wells	VOC	Bromodichloromethane	75-27-4	T	B2	17	0			1.00E-03	5.00E-03	8.0E-02	sm		3.5E+00		1.3E+00		
perimeter wells	VOC	Bromoform	75-25-2	T	B2	17	0			1.00E-03	5.00E-03	8.0E-02	sm		7.3E+01		4.0E+01		
perimeter wells	VOC	Bromomethane	74-83-9	T	NC	17	0			2.00E-03	1.00E-02	5.1E-02	nc		3.3E+00		2.5E+00		
perimeter wells	VOC	2-Butanone	78-93-3	T	ID	15	0			1.00E-02	5.00E-02	2.2E+01	nc		8.7E+03		2.6E+04		
perimeter wells	VOC	Carbon Disulfide	75-15-0	T		13	3	1.10E-04	1.90E-04	1.00E-03	5.00E-03	3.7E+00	nc	5.2E-05	3.8E+02	5.1E-07	3.0E+02	6.3E-07	
perimeter wells	VOC	Carbon Tetrachloride	56-23-5	T	B2	17	0			1.00E-03	5.00E-03	5.0E-03	sm		3.1E+00		7.7E-01		
perimeter wells	VOC	Chlorobenzene	108-90-7	T	D	17	0			1.00E-03	5.00E-03	1.0E-01	sm		3.9E+01		4.4E+01		
perimeter wells	VOC	Chloroethane	75-00-3	T		17	0			2.00E-03	1.00E-02	2.9E-01	ca		2.1E+03		4.1E+03		
perimeter wells	VOC	2-Chloroethylvinyl ether	110-75-8	T		6	0			5.00E-03	1.00E-02								
perimeter wells	VOC	Chloroform	67-66-3	T	B2	18	1	5.70E-05	5.70E-05	1.00E-03	5.00E-03	8.0E-02	sm	7.1E-04	2.3E+00	2.5E-05	6.3E-01	9.0E-05	
perimeter wells	VOC	Chloromethane	74-87-3	T	D	17	0			2.00E-03	1.00E-02				4.3E+01		6.6E+01		
perimeter wells	VOC	Cumene	98-82-8	T	D	10	0			1.00E-03	2.50E-03	3.7E+00	nc		2.1E+02		2.8E+02		
perimeter wells	VOC	Cyclohexane	110-82-7	T	ID	10	0			1.00E-03	2.50E-03				3.7E+03		2.3E+03		
perimeter wells	VOC	1,2-Dibromo-3-chloropropane	96-12-8	T	B2	10	0			2.00E-03	5.00E-03	2.0E-04	sm		3.5E-01		5.6E-01		
perimeter wells	VOC	Dibromochloromethane	124-48-1	T	C	17	0			1.00E-03	5.00E-03	8.0E-02	sm		3.1E+00		1.4E+00		
perimeter wells	VOC	1,2-Dibromoethane	106-93-4	T	LC	10	0			1.00E-03	2.50E-03	5.0E-05	sm		1.2E-01		4.8E-02		
perimeter wells	VOC	1,2-Dichlorobenzene	95-50-1	T	D	11	0			1.00E-03	1.00E-02	6.0E-01	sm		1.4E+02		1.9E+02		
perimeter wells	VOC	1,3-Dichlorobenzene	541-73-1	T	D	11	0			1.00E-03	1.00E-02	3.3E+00	nc		1.1E+02		1.2E+02		
perimeter wells	VOC	1,4-Dichlorobenzene	106-46-7	T	C	11	0			1.00E-03	1.00E-02	7.5E-02	sm		7.2E+00		3.3E+00		
perimeter wells	VOC	Dichlorodifluoromethane	75-71-8	T		10	0			2.00E-03	5.00E-03	7.3E+00	nc		1.4E+02		8.0E+01		
perimeter wells	VOC	1,1-Dichloroethane	75-34-3	T	SC	16	0			1.00E-03	5.00E-03	7.3E+00	nc		3.3E+02		2.9E+02		
perimeter wells	VOC	1,2-Dichloroethane	107-06-2	T	B2	17	0			1.00E-03	5.00E-03	5.0E-03	sm		2.0E+00		8.3E-01		
perimeter wells	VOC	1,1-Dichloroethene	75-35-4	T	C	17	0			1.00E-03	5.00E-03	7.0E-03	sm		1.2E+02		8.7E+01		
perimeter wells	VOC	1,2-Dichloroethene (total)	540-59-0	T		1	0			5.00E-03	5.00E-03	7.0E-02	sm		2.3E+01		2.0E+01		
perimeter wells	VOC	cis-1,2-Dichloroethene	156-59-2	T	ID	10	1	5.50E-02	5.50E-02	5.00E-04	5.00E-04	7.0E-02	sm	7.9E-01	2.3E+01	2.4E-03	2.0E+01	2.7E-03	
perimeter wells	VOC	trans-1,2-Dichloroethene	156-60-5	T		16	1	4.90E-03	4.90E-03	5.00E-04	5.00E-03	1.0E-01	sm	4.9E-02	3.8E+01	1.3E-04	2.8E+01	1.7E-04	
perimeter wells	VOC	1,2-Dichloropropane	78-87-5	T	B2	17	0			1.00E-03	5.00E-03	5.0E-03	sm		3.0E+00		3.1E+00		
perimeter wells	VOC	1,3-Dichloropropene (total)	542-75-6	T	B2	17	0			1.00E-03	5.00E-03	8.5E-03	ca		9.6E+00		2.9E+00		
perimeter wells	VOC	Ethyl Benzene	100-41-4	T	D	17	0			1.00E-03	5.00E-03	7.0E-01	sm		4.4E+02		6.8E+02		
perimeter wells	VOC	2-Hexanone	591-78-6	T		13	0			1.00E-02	2.50E-02	1.5E+00	nc		3.6E+00				
perimeter wells	VOC	Isobutyl Alcohol	78-83-1	T		2	0			1.00E-01	5.00E-01								
perimeter wells	VOC	Methyl Acetate	79-20-9	T		10	0			1.00E-02	2.50E-02	3.7E+01	nc		4.7E+03		1.2E+04		
perimeter wells	VOC	Methyl tert-butyl ether	1634-04-4	T		10	0			5.00E-03	1.20E-02				2.3E+03		3.5E+03		
perimeter wells	VOC	4-Methyl-2-pentanone	108-10-1	T	ID	13	0			1.00E-02	2.50E-02				3.7E+03		8.9E+03		
perimeter wells	VOC	Methylcyclohexane	108-87-2	T		10	0			1.00E-03	2.50E-03				2.0E+03		1.1E+03		
perimeter wells	VOC	Methylene Chloride	75-09-2	T	B2	19	1	3.50E-02	3.50E-02	4.50E-03	1.00E-02	5.0E-03	sm	7.0E+00	8.9E+01	3.9E-04	3.2E+01	1.1E-03	
perimeter wells	VOC	Styrene	100-42-5	T		13	0			1.00E-03	5.00E-03	1.0E-01	sm		5.8E+02		8.4E+02		
perimeter wells	VOC	1,1,2,2-Tetrachloroethane	79-34-5	T	C	17	0			1.00E-03	5.00E-03	4.3E-03	ca		1.3E+00		7.1E-01		
perimeter wells	VOC	Tetrachloroethene	127-18-4	T	C-B2	17	0			1.00E-03	5.00E-03	5.0E-03	sm		1.4E+01		4.4E+00		
perimeter wells	VOC	Toluene	108-88-3	T	ID	17	0			1.00E-03	5.00E-03	1.0E+00	sm		1.7E+03		3.2E+03		
perimeter wells	VOC	1,2,4-Trichlorobenzene	120-82-1	T	D	11	0			1.00E-03	1.00E-02	7.0E-02	sm		4.3E+01		2.3E+02		
perimeter wells	VOC	1,1,1-Trichloroethane	71-55-6	T	D	19	0			1.00E-03	5.00E-03	2.0E-01	sm		1.5E+03		1.2E+03		
perimeter wells	VOC	1,1,2-Trichloroethane	79-00-5	T	C	17	0			1.00E-03	5.00E-03	5.0E-03	sm		3.6E+00		1.6E+00		
perimeter wells	VOC	Trichloroethene	79-01-6	T	C-B2	19	1	2.40E-02	2.40E-02	2.00E-03	5.00E-01	5.0E-03	sm	4.8E+00	2.7E+01	8.9E-04	7.8E+00	3.1E-03	
perimeter wells	VOC	Trichlorofluoromethane	75-69-4	T		13	0			2.00E-03	5.00E-03	1.1E+01	nc		5.2E+02		2.7E+02		
perimeter wells	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	T		10	0			1.00E-03	2.50E-03	1.1E+03	nc		2.6E+04		1.1E+04		
perimeter wells	VOC	Vinyl Acetate	108-05-4	T		3	0			1.00E-02	1.00E-02	3.7E+01	nc		1.5E+02		2.6E+02		
perimeter wells	VOC	Vinyl Chloride	75-01-4	T	A	17	1	9.90E-03	9.90E-03	2.00E-03	1.00E-01	2.0E-03	sm	5.0E+00	2.0E+00	4.9E-03	9.7E-01	1.0E-02	
perimeter wells	VOC	Xylenes (total)	1330-20-7	T	ID	13	0			1.00E-03	5.00E-03	1.0E+01	sm		6.8E+01		6.4E+01		
perimeter wells	SVOC	Acenaphthene	83-32-9	T		1	0			1.00E-02	1.00E-02	2.2E+00	nc		1.5E+02		6.6E+02		
perimeter wells	SVOC	Acenaphthylene	208-96-8	T	D	1	0			1.00E-02	1.00E-02	1.1E+00	nc		8.0E+01		4.1E+02		
perimeter wells	SVOC	Anthracene	120-12-7	T	D	1	0			1.00E-02	1.00E-02	1.1E+01	nc		7.2E+02				
perimeter wells	SVOC	Benzo(a)anthracene	56-55-3	T	B2	1	0			1.00E-02	1.00E-02	1.2E-03	ca		6.2E-02		1.8E+01		
perimeter wells	SVOC	Benzo(a)pyrene	50-32-8	T	B2	1	0			1.00E-02	1.00E-02	2.0E-04	sm		4.4E-03		5.1E+00		

Table 3: Groundwater Screening Results Summary Closed Landfill Site, Elyria, Ohio																		
Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Min Limit (mg/L)	Max Limit (mg/L)	Drinking Water Criteria (mg/L)		Ratio of Max Detect to Drinking Water Criteria	Maintenance Worker GW Contact Criteria (mg/L)	Ratio of Conc to Maint. Worker GW Contact Criteria	Residential GW Volatilization to Indoor Air Criteria (mg/L)	Ratio of Conc to Res GW Vol to Indoor Air Criteria
perimeter wells	SVOC	Benzo(b)fluoranthene	205-99-2	T	B2	1	0			1.00E-02	1.00E-02	1.2E-03	ca		3.7E-02		1.4E+00	
perimeter wells	SVOC	Benzo(g,h,i)perylene	191-24-2	T	D	1	0			1.00E-02	1.00E-02	1.1E+00	nc		8.8E+00		1.5E+05	
perimeter wells	SVOC	Benzo(k)fluoranthene	207-08-9	T	B2	1	0			1.00E-02	1.00E-02	1.2E-02	ca		3.8E-01		7.6E+02	
perimeter wells	SVOC	Benzoic Acid	65-85-0	T	D	1	0			5.00E-02	5.00E-02	1.5E+02	nc		2.2E+05		2.0E+06	
perimeter wells	SVOC	Benzyl Alcohol	100-51-6	T	ID	1	0			1.00E-02	1.00E-02	1.1E+01	nc		4.2E+04		5.3E+05	
perimeter wells	SVOC	bis(2-Chloroethoxy)methane	111-91-1	T	D	1	0			1.00E-02	1.00E-02							
perimeter wells	SVOC	bis(2-Chloroethyl) ether	111-44-4	T	B2	1	0			1.00E-02	1.00E-02	7.7E-04	ca		1.1E+00		1.0E+00	
perimeter wells	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	T	B2	1	1	2.00E-03	2.00E-03			6.0E-03	sm	3.3E-01	1.8E+00	1.1E-03	1.1E+04	1.7E-07
perimeter wells	SVOC	4-Bromophenyl-phenyl ether	101-55-3	T	D	1	0			1.00E-02	1.00E-02							
perimeter wells	SVOC	Butylbenzylphthalate	85-68-7	T	C	1	0			1.00E-02	1.00E-02	4.5E-01	ca		1.5E+02		9.2E+03	
perimeter wells	SVOC	4-Chloro-3-methylphenol	59-50-7	T		1	0			1.00E-02	1.00E-02							
perimeter wells	SVOC	4-Chloroaniline	106-47-8	T		1	0			1.00E-02	1.00E-02	1.6E-02	ca		9.9E+01		9.1E+02	
perimeter wells	SVOC	2-Chloronaphthalene	91-58-7	T		1	0			1.00E-02	1.00E-02	2.9E+00	nc		1.6E+02		5.4E+02	
perimeter wells	SVOC	2-Chlorophenol	95-57-8	T		1	0			1.00E-02	1.00E-02	1.8E-01	nc		1.6E+01		2.9E+01	
perimeter wells	SVOC	4-Chlorophenyl-phenyl ether	7005-72-3	T		1	0			1.00E-02	1.00E-02							
perimeter wells	SVOC	Chrysene	218-01-9	T	B2	1	0			1.00E-02	1.00E-02	1.2E-01	ca		6.0E+00		1.4E+02	
perimeter wells	SVOC	Dibenz(a,h)anthracene	53-70-3	T	B2	1	0			1.00E-02	1.00E-02	1.2E-04	ca		2.8E-03		3.3E+02	
perimeter wells	SVOC	Dibenzofuran	132-64-9	T	D	1	0			1.00E-02	1.00E-02	7.3E-02	nc		5.2E+00		1.8E+02	
perimeter wells	SVOC	3,3'-Dichlorobenzidine	91-94-1	T	B2	1	0			2.00E-02	2.00E-02	1.9E-03	ca		2.9E+00		8.1E+03	
perimeter wells	SVOC	2,4-Dichlorophenol	120-83-2	T		1	0			1.00E-02	1.00E-02	1.1E-01	nc		5.0E+01		8.0E+02	
perimeter wells	SVOC	Diethylphthalate	84-66-2	T	D	1	0			1.00E-02	1.00E-02	2.9E+01	nc		4.7E+04		1.4E+06	
perimeter wells	SVOC	2,4-Dimethylphenol	105-67-9	T		1	0			1.00E-02	1.00E-02	7.3E-01	nc		6.4E+02		7.6E+03	
perimeter wells	SVOC	Dimethylphthalate	131-11-3	T	D	1	0			1.00E-02	1.00E-02							
perimeter wells	SVOC	Di-n-butylphthalate	84-74-2	T	D	1	0			1.00E-02	1.00E-02	3.7E+00	nc		4.6E+02			
perimeter wells	SVOC	4,6-Dinitro-2-methylphenol	534-52-1	T		1	0			5.00E-02	5.00E-02	3.7E-03	nc		8.2E+00		1.8E+02	
perimeter wells	SVOC	2,4-Dinitrophenol	51-28-5	T		1	0			5.00E-02	5.00E-02	7.3E-02	nc		3.3E+02			
perimeter wells	SVOC	2,4-Dinitrotoluene	121-14-2	T	B2	1	0			1.00E-02	1.00E-02	1.3E-03	ca		9.8E+00			
perimeter wells	SVOC	2,6-Dinitrotoluene	606-20-2	T	B2	1	0			1.00E-02	1.00E-02	1.3E-03	ca		9.3E+00		3.6E+01	
perimeter wells	SVOC	Di-n-octylphthalate	117-84-0	T		3	1	1.00E-03	1.00E-03	1.00E-03	1.00E-02	1.5E+00	nc	6.8E-04	1.3E+01	7.6E-05		
perimeter wells	SVOC	Fluoranthene	206-44-0	T	D	1	0			1.00E-02	1.00E-02	1.5E+00	nc		4.5E+01		2.7E+03	
perimeter wells	SVOC	Fluorene	86-73-7	T	D	1	0			1.00E-02	1.00E-02	1.5E+00	nc		1.0E+02		8.4E+02	
perimeter wells	SVOC	Formaldehyde	50-00-0	T	B1	5	0			5.00E-02	1.00E+00							
perimeter wells	SVOC	Hexachlorobenzene	118-74-1	T	B2	1	0			1.00E-02	1.00E-02	1.0E-03	sm		2.9E-02		6.8E-02	
perimeter wells	SVOC	Hexachlorobutadiene	87-68-3	T	C	1	0			1.00E-02	1.00E-02	1.1E-02	ca		9.2E-01		9.2E-01	
perimeter wells	SVOC	Hexachlorocyclopentadiene	77-47-4	T	E	1	0			1.00E-02	1.00E-02	5.0E-02	sm		2.2E-01		1.5E-01	
perimeter wells	SVOC	Hexachloroethane	67-72-1	T	C	1	0			1.00E-02	1.00E-02	3.7E-02	nc		8.0E+00		1.1E+01	
perimeter wells	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	T	B2	1	0			1.00E-02	1.00E-02	1.2E-03	ca		2.8E-02		4.4E+01	
perimeter wells	SVOC	Isophorone	78-59-1	T	C	1	0			1.00E-02	1.00E-02	9.0E-01	ca		7.9E+03			
perimeter wells	SVOC	2-Methylnaphthalene	91-57-6	T	ID	1	0			1.00E-02	1.00E-02	1.5E-01	nc		2.6E+00		4.8E+00	
perimeter wells	SVOC	Methylphenol (total)	1319-77-3	T		1	0			1.00E-02	1.00E-02	1.8E+00	nc		2.6E+03		4.1E+04	
perimeter wells	SVOC	Naphthalene	91-20-3	T	C	1	0			1.00E-02	1.00E-02	7.3E-01	nc		2.8E+00		4.9E+00	
perimeter wells	SVOC	2-Nitroaniline	88-74-4	T		1	0			5.00E-02	5.00E-02	1.1E-01	nc		7.8E+01		2.4E+02	
perimeter wells	SVOC	3-Nitroaniline	99-09-2	T	C	1	0			5.00E-02	5.00E-02	1.1E-02	nc		4.3E+01			
perimeter wells	SVOC	4-Nitroaniline	100-01-6	T	C	1	0			5.00E-02	5.00E-02	4.1E-02	ca		4.5E+02		3.5E+05	
perimeter wells	SVOC	Nitrobenzene	98-95-3	T	D	1	0			1.00E-02	1.00E-02	1.8E-02	nc		7.0E+00		2.2E+01	
perimeter wells	SVOC	2-Nitrophenol	88-75-5	T		1	0			1.00E-02	1.00E-02							
perimeter wells	SVOC	4-Nitrophenol	100-02-7	T		1	0			5.00E-02	5.00E-02							
perimeter wells	SVOC	N-Nitrosodiphenylamine	86-30-6	T	B2	1	0			1.00E-02	1.00E-02	1.7E-01	ca		3.1E+02			
perimeter wells	SVOC	N-Nitroso-di-n-propylamine	621-64-7	T	B2	1	0			1.00E-02	1.00E-02	1.2E-04	ca		7.0E-01		1.1E+00	
perimeter wells	SVOC	2,2'-oxybis(1-Chloropropane)	108-60-1	T	C	1	0			1.00E-02	1.00E-02	1.2E-02	ca		9.5E+00		8.6E+00	
perimeter wells	SVOC	Pentachlorophenol	87-86-5	T	B2	1	0			5.00E-02	5.00E-02	1.0E-03	sm		1.2E+00		5.1E+03	
perimeter wells	SVOC	Phenanthrene	85-01-8	T	D	1	0			1.00E-02	1.00E-02	1.1E+00	nc		7.1E+01		1.4E+03	
perimeter wells	SVOC	Phenol	108-95-2	T	ID	1	0			1.00E-02	1.00E-02	1.1E+01	nc		3.1E+04			
perimeter wells	SVOC	Phenolics, Recoverable (total)	64743-03-9	T		44	10	3.00E-03	1.52E-01	2.00E-03	5.00E-01							
perimeter wells	SVOC	Pyrene	129-00-0	T	D	1	0			1.00E-02	1.00E-02	1.1E+00	nc		3.5E+01		2.9E+03	
perimeter wells	SVOC	2,4,5-Trichlorophenol	95-95-4	T		1	0			5.00E-02	5.00E-02	3.7E+00	nc		7.2E+02			
perimeter wells	SVOC	2,4,6-Trichlorophenol	88-06-2	T	B2	1	0			1.00E-02	1.00E-02	3.7E-03	nc		9.8E-01		2.7E+02	
perimeter wells	RADIO	Radium	7440-14-4	T		4	4	3.00E-01	3.00E+00									

Table 3: Groundwater Screening Results Summary Closed Landfill Site, Elyria, Ohio																		
Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Min Limit (mg/L)	Max Limit (mg/L)	Drinking Water Criteria (mg/L)		Ratio of Max Detect to Drinking Water Criteria	Maintenance Worker GW Contact Criteria (mg/L)	Ratio of Conc to Maint. Worker GW Contact Criteria	Residential GW Volatilization to Indoor Air Criteria (mg/L)	Ratio of Conc to Res GW Vol to Indoor Air Criteria
perimeter wells	RADIO	Radium-226	13982-63-3	T		5	5	1.00E-01	7.00E-01									
perimeter wells	RADIO	Radium-228	15262-20-1	T		4	4	0.00E+00	1.80E+00									
perimeter wells	PEST	gamma-BHC	58-89-9	T	B2-C	11	0			1.00E-05	4.00E-03	2.0E-04	sm					
perimeter wells	PEST	Endrin	72-20-8	T	D	11	0			1.00E-05	2.00E-04	2.0E-03	sm					
perimeter wells	PEST	Methoxychlor	72-43-5	T	D	11	0			5.00E-05	1.00E-01	4.0E-02	sm					
perimeter wells	PEST	Toxaphene	8001-35-2	T	B2	11	0			5.00E-04	5.00E-03	3.0E-03	sm					
perimeter wells	INORG	Aluminum	7429-90-5	D	D	18	10	2.80E-02	1.21E+02	1.00E-01	2.00E-01							
perimeter wells	INORG	Aluminum	7429-90-5	T	D	4	4	2.00E+00	3.30E+01									
perimeter wells	INORG	Antimony	7440-36-0	D		9	5	2.30E-03	3.90E-03	6.00E-02	6.00E-02	6.0E-03	sm	6.5E-01	3.8E+01	1.0E-04		
perimeter wells	INORG	Arsenic	7440-38-2	D	A	25	5	1.00E-03	1.20E-02	1.00E-03	1.00E-01	1.0E-02	sm	1.2E+00	1.4E+01	8.4E-04		
perimeter wells	INORG	Arsenic	7440-38-2	T	A	15	7	9.00E-03	1.80E-02	1.00E-03	1.00E-03	1.0E-02	sm	1.8E+00	1.4E+01	1.3E-03		
perimeter wells	INORG	Barium	7440-39-3	D	NC	57	51	5.80E-03	3.20E-01	1.00E-02	5.00E-01	2.0E+00	sm	1.6E-01	3.4E+03	9.3E-05		
perimeter wells	INORG	Barium	7440-39-3	T	NC	29	29	2.50E-02	7.50E-02			2.0E+00	sm	3.8E-02	3.4E+03	2.2E-05		
perimeter wells	INORG	Beryllium	7440-41-7	D	B1	9	0			5.00E-03	5.00E-03	4.0E-03	sm		1.1E+01			
perimeter wells	INORG	Cadmium	7440-43-9	D	B1	28	2	3.00E-04	3.60E-04	4.00E-03	1.00E-02	5.0E-03	sm	7.2E-02	1.8E+01	2.0E-05		
perimeter wells	INORG	Cadmium	7440-43-9	T	B1	6	0			1.00E-02	2.00E-02	5.0E-03	sm		1.8E+01			
perimeter wells	INORG	Chromium (total)	7440-47-3	D		50	3	1.50E-03	1.00E-02	1.00E-03	5.00E-02	1.0E-01	sm	1.0E-01	2.8E+01	3.5E-04		
perimeter wells	INORG	Chromium (total)	7440-47-3	T		41	4	1.00E-02	8.40E-02	1.00E-03	5.00E-02	1.0E-01	sm	8.4E-01	2.8E+01	2.9E-03		
perimeter wells	INORG	Chromium III	16065-83-1	D	D	9	1	2.60E-02	2.60E-02	1.00E-02	3.00E-02	5.5E+01	nc	4.7E-04	1.5E+04	1.8E-06		
perimeter wells	INORG	Chromium III	16065-83-1	T	D	4	3	6.00E-02	1.30E-01	2.00E-02	2.00E-02	5.5E+01	nc	2.4E-03	1.5E+04	8.8E-06		
perimeter wells	INORG	Chromium VI	18540-29-9	D	A	16	0			1.00E-02	2.00E-02	1.0E-01	sm		2.8E+01			
perimeter wells	INORG	Chromium VI	18540-29-9	T	A	7	0			2.00E-02	5.00E-02	1.0E-01	sm		2.8E+01			
perimeter wells	INORG	Cobalt	7440-48-4	D	B1	9	5	2.20E-03	6.60E-03	5.00E-02	5.00E-02	7.3E-01	nc	9.0E-03	8.1E+03	8.2E-07		
perimeter wells	INORG	Copper	7440-50-8	D	D	27	1	1.00E-02	1.00E-02	1.80E-03	2.50E-02	1.3E+00	sm	7.7E-03	1.2E+04	8.1E-07		
perimeter wells	INORG	Copper	7440-50-8	T	D	11	4	1.00E-02	4.00E-02	1.80E-03	2.30E-03	1.3E+00	sm	3.1E-02	1.2E+04	3.2E-06		
perimeter wells	INORG	Cyanide (total)	57-12-5	D	D	9	4	3.00E-03	4.40E-02	1.00E-02	1.00E-02	2.0E-01	sm	2.2E-01	6.2E+03	7.1E-06		
perimeter wells	INORG	Cyanide (total)	57-12-5	T	D	38	1	4.00E-02	4.00E-02	1.00E-03	5.00E-02	2.0E-01	sm	2.0E-01	6.2E+03	6.5E-06		
perimeter wells	INORG	Fluoride	16984-48-8	T		15	15	1.10E-01	1.61E+00			4.0E+00	sm	4.0E-01				
perimeter wells	INORG	Iron	7439-89-6	D	D	59	29	1.80E-01	1.16E+01	3.00E-02	1.00E-01							
perimeter wells	INORG	Iron	7439-89-6	T	D	54	38	1.10E-02	6.00E+01	1.00E-02	1.00E-01							
perimeter wells	INORG	Lead	7439-92-1	D	B2	24	0			2.00E-03	3.00E-02	1.5E-02	sm		7.4E+01			
perimeter wells	INORG	Lead	7439-92-1	T	B2	17	8	1.10E-03	2.20E-01	1.00E-03	5.00E-02	1.5E-02	sm	1.5E+01	7.4E+01	3.0E-03		
perimeter wells	INORG	Magnesium	7439-95-4	D		43	43	2.70E+00	8.13E+01									
perimeter wells	INORG	Magnesium	7439-95-4	T		36	36	2.06E+01	3.60E+01									
perimeter wells	INORG	Manganese	7439-96-5	D	D	59	56	1.40E-02	1.20E+00	1.00E-02	1.00E-02	5.1E+00	nc	2.3E-01	6.0E+03	2.0E-04		
perimeter wells	INORG	Manganese	7439-96-5	T	D	53	50	1.50E-02	1.80E+00	1.00E-02	1.00E-02	5.1E+00	nc	3.5E-01	6.0E+03	3.0E-04		
perimeter wells	INORG	Mercury	7439-97-6	D	D	25	0			2.00E-04	1.00E-03	2.0E-03	sm		2.9E-01		2.9E-01	
perimeter wells	INORG	Mercury	7439-97-6	T	D	3	0			5.00E-04	5.00E-04	2.0E-03	sm		2.9E-01		2.9E-01	
perimeter wells	INORG	Nickel	7440-02-0	D	A	51	12	1.50E-03	1.90E-01	1.40E-03	4.00E-02	7.3E-01	nc	2.6E-01	2.4E+03	8.0E-05		
perimeter wells	INORG	Nickel	7440-02-0	T	A	96	36	1.90E-03	1.80E-01	1.40E-03	1.00E-02	7.3E-01	nc	2.5E-01	2.4E+03	7.6E-05		
perimeter wells	INORG	Selenium	7782-49-2	D	D	25	0			1.00E-03	1.00E-02	5.0E-02	sm		1.5E+03			
perimeter wells	INORG	Selenium	7782-49-2	T	D	3	0			5.00E-03	5.00E-03	5.0E-02	sm		1.5E+03			
perimeter wells	INORG	Silver	7440-22-4	D	D	25	0			1.00E-02	3.00E-02	1.8E-01	nc		2.3E+02			
perimeter wells	INORG	Silver	7440-22-4	T	D	3	0			2.00E-02	2.00E-02	1.8E-01	nc		2.3E+02			
perimeter wells	INORG	Thallium	7440-28-0	D		9	0			1.00E-02	1.00E-02	2.0E-03	sm		2.2E+01			
perimeter wells	INORG	Vanadium	7440-62-2	D		9	0			5.00E-02	5.00E-02	3.7E-02	nc		1.9E+01			
perimeter wells	INORG	Zinc	7440-66-6	D	ID	20	8	1.00E-02	2.90E-02	1.00E-02	2.00E-02	1.1E+01	nc	2.6E-03	1.1E+05	2.6E-07		
perimeter wells	INORG	Zinc	7440-66-6	T	ID	3	3	6.00E-02	1.30E-01			1.1E+01	nc	1.2E-02	1.1E+05	1.2E-06		
perimeter wells	HERB	2,4-D	94-75-7	T		11	0			1.00E-03	1.00E-01	7.0E-02	sm					
perimeter wells	HERB	2,4,5-TP	93-72-1	T	D	11	0			1.00E-03	1.00E-02	5.0E-02	sm					
interior wells	VOC	Acetone	67-64-1	T	ID	31	5	6.80E-04	1.10E-03	6.60E-04	1.00E-02	3.3E+01	nc	3.3E-05	6.8E+03	1.6E-07	2.0E+04	5.4E-08
interior wells	VOC	Acetonitrile	75-05-8	T	D	16	0			2.90E-03	2.90E-03							
interior wells	VOC	Acrolein	107-02-8	T	ID	33	0			2.30E-03	5.00E-03							
interior wells	VOC	Acrylonitrile	107-13-1	T	B1	33	0			2.90E-03	5.00E-03							
interior wells	VOC	Benzene	71-43-2	T	A	43	0			2.00E-04	5.00E-03	5.0E-03	sm		4.9E+00		1.8E+00	
interior wells	VOC	Bromodichloromethane	75-27-4	T	B2	45	0			2.00E-04	5.00E-03	8.0E-02	sm		3.5E+00		1.3E+00	
interior wells	VOC	Bromoform	75-25-2	T	B2	45	0			3.20E-04	5.00E-03	8.0E-02	sm		7.3E+01		4.0E+01	
interior wells	VOC	Bromomethane	74-83-9	T	NC	45	0			1.60E-04	1.00E-02	5.1E-02	nc		3.3E+00		2.5E+00	

Table 3: Groundwater Screening Results Summary Closed Landfill Site, Elyria, Ohio																		
Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Min Limit (mg/L)	Max Limit (mg/L)	Drinking Water Criteria (mg/L)		Ratio of Max Detect to Drinking Water Criteria	Maintenance Worker GW Contact Criteria (mg/L)	Ratio of Conc to Maint. Worker GW Contact Criteria	Residential GW Volatilization to Indoor Air Criteria (mg/L)	Ratio of Conc to Res GW Vol to Indoor Air Criteria
interior wells	VOC	2-Butanone	78-93-3	T	ID	35	0			3.60E-04	5.00E-02	2.2E+01	nc		8.7E+03		2.6E+04	
interior wells	VOC	Carbon Disulfide	75-15-0	T		26	0			2.10E-04	5.00E-03	3.7E+00	nc		3.8E+02		3.0E+02	
interior wells	VOC	Carbon Tetrachloride	56-23-5	T	B2	45	0			1.80E-04	5.00E-03	5.0E-03	sm		3.1E+00		7.7E-01	
interior wells	VOC	2-Chloro-1,3-butadiene	126-99-8	T		16	0			3.10E-04	3.10E-04							
interior wells	VOC	3-Chloro-1-propene	107-05-1	T	C	16	0			3.40E-04	3.40E-04							
interior wells	VOC	Chlorobenzene	108-90-7	T	D	45	0			1.60E-04	5.00E-03	1.0E-01	sm		3.9E+01		4.4E+01	
interior wells	VOC	Chloroethane	75-00-3	T		45	0			2.20E-04	1.00E-02	2.9E-01	ca		2.1E+03		4.1E+03	
interior wells	VOC	2-Chloroethylvinyl ether	110-75-8	T		27	0			5.00E-03	1.00E-02							
interior wells	VOC	Chloroform	67-66-3	T	B2	48	0			2.10E-04	5.00E-03	8.0E-02	sm		2.3E+00		6.3E-01	
interior wells	VOC	Chloromethane	74-87-3	T	D	45	0			2.60E-04	1.00E-02				4.3E+01		6.6E+01	
interior wells	VOC	1,2-Dibromo-3-chloropropane	96-12-8	T	B2	16	0			5.30E-04	5.30E-04	2.0E-04	sm		3.5E-01		5.6E-01	
interior wells	VOC	Dibromochloromethane	124-48-1	T	C	45	0			2.50E-04	5.00E-03	8.0E-02	sm		3.1E+00		1.4E+00	
interior wells	VOC	1,2-Dibromoethane	106-93-4	T	LC	16	0			2.20E-04	2.20E-04	5.0E-05	sm		1.2E-01		4.8E-02	
interior wells	VOC	Dibromomethane	74-95-3	T		16	0			2.20E-04	2.20E-04							
interior wells	VOC	trans-1,4-Dichloro-2-butene	110-57-6	T		16	0			6.30E-04	6.30E-04							
interior wells	VOC	1,2-Dichlorobenzene	95-50-1	T	D	2	0			1.00E-02	1.00E-02	6.0E-01	sm		1.4E+02		1.9E+02	
interior wells	VOC	1,3-Dichlorobenzene	541-73-1	T	D	2	0			1.00E-02	1.00E-02	3.3E+00	nc		1.1E+02		1.2E+02	
interior wells	VOC	1,4-Dichlorobenzene	106-46-7	T	C	2	0			1.00E-02	1.00E-02	7.5E-02	sm		7.2E+00		3.3E+00	
interior wells	VOC	Dichlorodifluoromethane	75-71-8	T		18	0			2.30E-04	2.00E-03	7.3E+00	nc		1.4E+02		8.0E+01	
interior wells	VOC	1,1-Dichloroethane	75-34-3	T	SC	45	0			2.60E-04	5.00E-03	7.3E+00	nc		3.3E+02		2.9E+02	
interior wells	VOC	1,2-Dichloroethane	107-06-2	T	B2	45	0			2.20E-04	5.00E-03	5.0E-03	sm		2.0E+00		8.3E-01	
interior wells	VOC	1,1-Dichloroethene	75-35-4	T	C	45	2	2.00E-03	7.00E-03	2.20E-04	5.00E-03	7.0E-03	sm	1.0E+00	1.2E+02	5.6E-05	8.7E+01	8.1E-05
interior wells	VOC	1,2-Dichloroethene (total)	540-59-0	T		2	1	7.90E-01	7.90E-01	5.00E-03	5.00E-03	7.0E-02	sm	1.1E+01	2.3E+01	3.5E-02	2.0E+01	3.9E-02
interior wells	VOC	trans-1,2-Dichloroethene	156-60-5	T		46	9	1.10E-02	3.70E-01	2.40E-04	5.00E-03	1.0E-01	sm	3.7E+00	3.8E+01	9.7E-03	2.8E+01	1.3E-02
interior wells	VOC	1,2-Dichloropropane	78-87-5	T	B2	44	0			1.80E-04	5.00E-03	5.0E-03	sm		3.0E+00		3.1E+00	
interior wells	VOC	1,3-Dichloropropene (total)	542-75-6	T	B2	45	0			1.70E-04	5.00E-03	8.5E-03	ca		9.6E+00		2.9E+00	
interior wells	VOC	1,4-Dioxane	123-91-1	T	B2	16	0			1.20E-02	1.20E-02							
interior wells	VOC	Ethyl Benzene	100-41-4	T	D	43	1	9.00E-02	9.00E-02	1.90E-04	5.00E-03	7.0E-01	sm	1.3E-01	4.4E+02	2.0E-04	6.8E+02	1.3E-04
interior wells	VOC	Ethyl Methacrylate	97-63-2	T		16	0			2.00E-04	2.00E-04							
interior wells	VOC	2-Hexanone	591-78-6	T		26	0			3.10E-04	1.00E-02	1.5E+00	nc		3.6E+00			
interior wells	VOC	Iodomethane	74-88-4	T		16	0			1.70E-04	1.70E-04							
interior wells	VOC	Isobutyl Alcohol	78-83-1	T		23	0			5.80E-03	5.00E-01							
interior wells	VOC	Methacrylonitrile	126-98-7	T		16	0			5.10E-04	5.10E-04							
interior wells	VOC	4-Methyl-2-pentanone	108-10-1	T	ID	26	0			3.40E-04	1.00E-02				3.7E+03		8.9E+03	
interior wells	VOC	Methylene Chloride	75-09-2	T	B2	57	6	6.00E-03	4.20E-02	2.80E-04	1.00E-02	5.0E-03	sm	8.4E+00	8.9E+01	4.7E-04	3.2E+01	1.3E-03
interior wells	VOC	Methylmethacrylate	80-62-6	T	E	16	0			3.80E-04	3.80E-04							
interior wells	VOC	Propionitrile	107-12-0	T		16	0			3.20E-03	3.20E-03							
interior wells	VOC	Styrene	100-42-5	T		28	3	1.10E-03	1.10E-03	1.60E-04	5.00E-03	1.0E-01	sm	1.1E-02	5.8E+02	1.9E-06	8.4E+02	1.3E-06
interior wells	VOC	1,1,1,2-Tetrachloroethane	630-20-6	T	C	16	0			2.00E-04	2.00E-04							
interior wells	VOC	1,1,1,2,2-Tetrachloroethane	79-34-5	T	C	45	0			2.30E-04	5.00E-03	4.3E-03	ca		1.3E+00		7.1E-01	
interior wells	VOC	Tetrachloroethene	127-18-4	T	C-B2	45	0			1.20E-04	5.00E-03	5.0E-03	sm		1.4E+01		4.4E+00	
interior wells	VOC	Toluene	108-88-3	T	ID	43	1	4.40E-02	4.40E-02	1.70E-04	5.00E-03	1.0E+00	sm	4.4E-02	1.7E+03	2.6E-05	3.2E+03	1.4E-05
interior wells	VOC	1,2,4-Trichlorobenzene	120-82-1	T	D	2	0			1.00E-02	1.00E-02	7.0E-02	sm		4.3E+01		2.3E+02	
interior wells	VOC	1,1,1-Trichloroethane	71-55-6	T	D	57	0			1.80E-04	5.00E-03	2.0E-01	sm		1.5E+03		1.2E+03	
interior wells	VOC	1,1,2-Trichloroethane	79-00-5	T	C	45	0			2.10E-04	5.00E-03	5.0E-03	sm		3.6E+00		1.6E+00	
interior wells	VOC	Trichloroethene	79-01-6	T	C-B2	59	13	2.50E-01	7.00E+00	2.20E-04	5.00E-01	5.0E-03	sm	1.4E+03	2.7E+01	2.6E-01	7.8E+00	8.9E-01
interior wells	VOC	Trichlorofluoromethane	75-69-4	T		31	0			2.50E-04	2.00E-03	1.1E+01	nc		5.2E+02		2.7E+02	
interior wells	VOC	1,2,3-Trichloropropane	96-18-4	T	B2	16	0			3.10E-04	3.10E-04	4.3E-04	ca		2.8E+00		8.2E+00	
interior wells	VOC	Vinyl Acetate	108-05-4	T		26	0			2.00E-04	1.00E-02	3.7E+01	nc		1.5E+02		2.6E+02	
interior wells	VOC	Vinyl Chloride	75-01-4	T	A	48	8	5.60E-03	8.20E-01	2.60E-04	1.00E-01	2.0E-03	sm	4.1E+02	2.0E+00	4.1E-01	9.7E-01	8.5E-01
interior wells	VOC	Xylenes (total)	1330-20-7	T	ID	26	1	7.80E-01	7.80E-01	4.50E-04	5.00E-03	1.0E+01	sm	7.8E-02	6.8E+01	1.1E-02	6.4E+01	1.2E-02
interior wells	SVOC	Acenaphthene	83-32-9	T		2	0			1.00E-02	1.00E-02	2.2E+00	nc		1.5E+02		6.6E+02	
interior wells	SVOC	Acenaphthylene	208-96-8	T	D	2	0			1.00E-02	1.00E-02	1.1E+00	nc		8.0E+01		4.1E+02	
interior wells	SVOC	Anthracene	120-12-7	T	D	2	0			1.00E-02	1.00E-02	1.1E+01	nc		7.2E+02			
interior wells	SVOC	Benzo(a)anthracene	56-55-3	T	B2	2	0			1.00E-02	1.00E-02	1.2E-03	ca		6.2E-02		1.8E+01	
interior wells	SVOC	Benzo(a)pyrene	50-32-8	T	B2	2	0			1.00E-02	1.00E-02	2.0E-04	sm		4.4E-03		5.1E+00	
interior wells	SVOC	Benzo(b)fluoranthene	205-99-2	T	B2	2	0			1.00E-02	1.00E-02	1.2E-03	ca		3.7E-02		1.4E+00	
interior wells	SVOC	Benzo(g,h,i)perylene	191-24-2	T	D	2	0			1.00E-02	1.00E-02	1.1E+00	nc		8.8E+00		1.5E+05	

Table 3: Groundwater Screening Results Summary Closed Landfill Site, Elyria, Ohio																		
Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Min Limit (mg/L)	Max Limit (mg/L)	Drinking Water Criteria (mg/L)		Ratio of Max Detect to Drinking Water Criteria	Maintenance Worker GW Contact Criteria (mg/L)	Ratio of Conc to Maint. Worker GW Contact Criteria	Residential GW Volatilization to Indoor Air Criteria (mg/L)	Ratio of Conc to Res GW Vol to Indoor Air Criteria
interior wells	SVOC	Benzo(k)fluoranthene	207-08-9	T	B2	2	0			1.00E-02	1.00E-02	1.2E-02	ca		3.8E-01		7.6E+02	
interior wells	SVOC	Benzoic Acid	65-85-0	T	D	2	0			5.00E-02	5.00E-02	1.5E+02	nc		2.2E+05		2.0E+06	
interior wells	SVOC	Benzyl Alcohol	100-51-6	T	ID	2	0			1.00E-02	1.00E-02	1.1E+01	nc		4.2E+04		5.3E+05	
interior wells	SVOC	bis(2-Chloroethoxy)methane	111-91-1	T	D	2	0			1.00E-02	1.00E-02							
interior wells	SVOC	bis(2-Chloroethyl) ether	111-44-4	T	B2	2	0			1.00E-02	1.00E-02	7.7E-04	ca		1.1E+00		1.0E+00	
interior wells	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	T	B2	2	0			1.00E-02	1.00E-02	6.0E-03	sm		1.8E+00		1.1E+04	
interior wells	SVOC	4-Bromophenyl-phenyl ether	101-55-3	T	D	2	0			1.00E-02	1.00E-02							
interior wells	SVOC	Butylbenzylphthalate	85-68-7	T	C	2	0			1.00E-02	1.00E-02	4.5E-01	ca		1.5E+02		9.2E+03	
interior wells	SVOC	4-Chloro-3-methylphenol	59-50-7	T		2	0			1.00E-02	1.00E-02							
interior wells	SVOC	4-Chloroaniline	106-47-8	T		2	0			1.00E-02	1.00E-02	1.6E-02	ca		9.9E+01		9.1E+02	
interior wells	SVOC	2-Chloronaphthalene	91-58-7	T		2	0			1.00E-02	1.00E-02	2.9E+00	nc		1.6E+02		5.4E+02	
interior wells	SVOC	2-Chlorophenol	95-57-8	T		2	0			1.00E-02	1.00E-02	1.8E-01	nc		1.6E+01		2.9E+01	
interior wells	SVOC	4-Chlorophenyl-phenyl ether	7005-72-3	T		2	0			1.00E-02	1.00E-02							
interior wells	SVOC	Chrysene	218-01-9	T	B2	2	0			1.00E-02	1.00E-02	1.2E-01	ca		6.0E+00		1.4E+02	
interior wells	SVOC	Dibenz(a,h)anthracene	53-70-3	T	B2	2	0			1.00E-02	1.00E-02	1.2E-04	ca		2.8E-03		3.3E+02	
interior wells	SVOC	Dibenzofuran	132-64-9	T	D	2	0			1.00E-02	1.00E-02	7.3E-02	nc		5.2E+00		1.8E+02	
interior wells	SVOC	3,3'-Dichlorobenzidine	91-94-1	T	B2	2	0			2.00E-02	2.00E-02	1.9E-03	ca		2.9E+00		8.1E+03	
interior wells	SVOC	2,4-Dichlorophenol	120-83-2	T		2	0			1.00E-02	1.00E-02	1.1E-01	nc		5.0E+01		8.0E+02	
interior wells	SVOC	Diethylphthalate	84-66-2	T	D	2	0			1.00E-02	1.00E-02	2.9E+01	nc		4.7E+04		1.4E+06	
interior wells	SVOC	2,4-Dimethylphenol	105-67-9	T		2	0			1.00E-02	1.00E-02	7.3E-01	nc		6.4E+02		7.6E+03	
interior wells	SVOC	Dimethylphthalate	131-11-3	T	D	2	0			1.00E-02	1.00E-02							
interior wells	SVOC	Di-n-butylphthalate	84-74-2	T	D	2	0			1.00E-02	1.00E-02	3.7E+00	nc		4.6E+02			
interior wells	SVOC	4,6-Dinitro-2-methylphenol	534-52-1	T		2	0			5.00E-02	5.00E-02	3.7E-03	nc		8.2E+00		1.8E+02	
interior wells	SVOC	2,4-Dinitrophenol	51-28-5	T		2	0			5.00E-02	5.00E-02	7.3E-02	nc		3.3E+02			
interior wells	SVOC	2,4-Dinitrotoluene	121-14-2	T	B2	2	0			1.00E-02	1.00E-02	1.3E-03	ca		9.8E+00			
interior wells	SVOC	2,6-Dinitrotoluene	606-20-2	T	B2	2	0			1.00E-02	1.00E-02	1.3E-03	ca		9.3E+00		3.6E+01	
interior wells	SVOC	Di-n-octylphthalate	117-84-0	T		9	4	1.00E-03	2.00E-03	1.00E-03	1.00E-02	1.5E+00	nc	1.4E-03	1.3E+01	1.5E-04		
interior wells	SVOC	Fluoranthene	206-44-0	T	D	2	0			1.00E-02	1.00E-02	1.5E+00	nc		4.5E+01		2.7E+03	
interior wells	SVOC	Fluorene	86-73-7	T	D	2	0			1.00E-02	1.00E-02	1.5E+00	nc		1.0E+02		8.4E+02	
interior wells	SVOC	Formaldehyde	50-00-0	T	B1	23	0			5.00E-02	1.00E+00							
interior wells	SVOC	Hexachlorobenzene	118-74-1	T	B2	2	0			1.00E-02	1.00E-02	1.0E-03	sm		2.9E-02		6.8E-02	
interior wells	SVOC	Hexachlorobutadiene	87-68-3	T	C	2	0			1.00E-02	1.00E-02	1.1E-02	ca		9.2E-01		9.2E-01	
interior wells	SVOC	Hexachlorocyclopentadiene	77-47-4	T	E	2	0			1.00E-02	1.00E-02	5.0E-02	sm		2.2E-01		1.5E-01	
interior wells	SVOC	Hexachloroethane	67-72-1	T	C	2	0			1.00E-02	1.00E-02	3.7E-02	nc		8.0E+00		1.1E+01	
interior wells	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	T	B2	2	0			1.00E-02	1.00E-02	1.2E-03	ca		2.8E-02		4.4E+01	
interior wells	SVOC	Isophorone	78-59-1	T	C	2	0			1.00E-02	1.00E-02	9.0E-01	ca		7.9E+03			
interior wells	SVOC	2-Methylnaphthalene	91-57-6	T	ID	2	0			1.00E-02	1.00E-02	1.5E-01	nc		2.6E+00		4.8E+00	
interior wells	SVOC	Methylphenol (total)	1319-77-3	T		2	0			1.00E-02	1.00E-02	1.8E+00	nc		2.6E+03		4.1E+04	
interior wells	SVOC	Naphthalene	91-20-3	T	C	2	0			1.00E-02	1.00E-02	7.3E-01	nc		2.8E+00		4.9E+00	
interior wells	SVOC	2-Nitroaniline	88-74-4	T		2	0			5.00E-02	5.00E-02	1.1E-01	nc		7.8E+01		2.4E+02	
interior wells	SVOC	3-Nitroaniline	99-09-2	T	C	2	0			5.00E-02	5.00E-02	1.1E-02	nc		4.3E+01			
interior wells	SVOC	4-Nitroaniline	100-01-6	T	C	2	0			5.00E-02	5.00E-02	4.1E-02	ca		4.5E+02		3.5E+05	
interior wells	SVOC	Nitrobenzene	98-95-3	T	D	2	0			1.00E-02	1.00E-02	1.8E-02	nc		7.0E+00		2.2E+01	
interior wells	SVOC	2-Nitrophenol	88-75-5	T		2	0			1.00E-02	1.00E-02							
interior wells	SVOC	4-Nitrophenol	100-02-7	T		2	0			5.00E-02	5.00E-02							
interior wells	SVOC	N-Nitrosodiphenylamine	86-30-6	T	B2	2	0			1.00E-02	1.00E-02	1.7E-01	ca		3.1E+02			
interior wells	SVOC	N-Nitroso-di-n-propylamine	621-64-7	T	B2	2	0			1.00E-02	1.00E-02	1.2E-04	ca		7.0E-01		1.1E+00	
interior wells	SVOC	2,2'-oxybis(1-Chloropropane)	108-60-1	T	C	2	0			1.00E-02	1.00E-02	1.2E-02	ca		9.5E+00		8.6E+00	
interior wells	SVOC	Pentachlorophenol	87-86-5	T	B2	2	0			5.00E-02	5.00E-02	1.0E-03	sm		1.2E+00		5.1E+03	
interior wells	SVOC	Phenanthrene	85-01-8	T	D	2	0			1.00E-02	1.00E-02	1.1E+00	nc		7.1E+01		1.4E+03	
interior wells	SVOC	Phenol	108-95-2	T	ID	2	0			1.00E-02	1.00E-02	1.1E+01	nc		3.1E+04			
interior wells	SVOC	Phenolics, Recoverable (total)	64743-03-9	T		244	58	2.00E-03	7.52E-01	2.00E-03	5.00E-01							
interior wells	SVOC	Pyrene	129-00-0	T	D	2	0			1.00E-02	1.00E-02	1.1E+00	nc		3.5E+01		2.9E+03	
interior wells	SVOC	2,4,5-Trichlorophenol	95-95-4	T		2	0			5.00E-02	5.00E-02	3.7E+00	nc		7.2E+02			
interior wells	SVOC	2,4,6-Trichlorophenol	88-06-2	T	B2	2	0			1.00E-02	1.00E-02	3.7E-03	nc		9.8E-01		2.7E+02	
interior wells	RADIO	Radium	7440-14-4	T		16	14	4.00E-02	8.00E+00	1.00E+00	1.00E+00							
interior wells	RADIO	Radium-226	13982-63-3	T		9	9	5.00E-01	5.00E+00									
interior wells	PEST	gamma-BHC	58-89-9	T	B2-C	25	0			1.00E-05	4.00E-03	2.0E-04	sm					

Table 3: Groundwater Screening Results Summary Closed Landfill Site, Elyria, Ohio																		
Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Min Limit (mg/L)	Max Limit (mg/L)	Drinking Water Criteria (mg/L)		Ratio of Max Detect to Drinking Water Criteria	Maintenance Worker GW Contact Criteria (mg/L)	Ratio of Conc to Maint. Worker GW Contact Criteria	Residential GW Volatilization to Indoor Air Criteria (mg/L)	Ratio of Conc to Res GW Vol to Indoor Air Criteria
interior wells	PEST	Endrin	72-20-8	T	D	25	0			1.00E-05	2.00E-04	2.0E-03	sm					
interior wells	PEST	Methoxychlor	72-43-5	T	D	25	0			1.00E-04	1.00E-01	4.0E-02	sm					
interior wells	PEST	Toxaphene	8001-35-2	T	B2	25	0			5.00E-04	5.00E-03	3.0E-03	sm					
interior wells	INORG	Aluminum	7429-90-5	D	D	70	44	3.00E-02	4.90E+01	3.00E-02	2.00E-01							
interior wells	INORG	Aluminum	7429-90-5	T	D	27	23	8.00E-02	4.10E+00	5.00E-02	2.00E-01							
interior wells	INORG	Arsenic	7440-38-2	D	A	106	7	2.40E-03	1.14E-01	1.00E-03	5.00E-01	1.0E-02	sm	1.1E+01	1.4E+01	7.9E-03		
interior wells	INORG	Arsenic	7440-38-2	T	A	61	27	1.40E-03	1.10E-02	1.00E-03	5.00E-03	1.0E-02	sm	1.1E+00	1.4E+01	7.7E-04		
interior wells	INORG	Barium	7440-39-3	D	NC	313	253	9.40E-03	1.90E+00	2.00E-02	1.00E+00	2.0E+00	sm	9.5E-01	3.4E+03	5.5E-04		
interior wells	INORG	Barium	7440-39-3	T	NC	169	169	1.10E-02	1.50E-01			2.0E+00	sm	7.5E-02	3.4E+03	4.4E-05		
interior wells	INORG	Cadmium	7440-43-9	D	B1	127	12	2.00E-03	6.60E-03	2.00E-03	1.00E-02	5.0E-03	sm	1.3E+00	1.8E+01	3.7E-04		
interior wells	INORG	Cadmium	7440-43-9	T	B1	34	1	3.00E-03	3.00E-03	5.00E-03	2.00E-02	5.0E-03	sm	6.0E-01	1.8E+01	1.7E-04		
interior wells	INORG	Chromium (total)	7440-47-3	D		217	14	1.10E-03	1.20E-01	1.00E-03	5.00E-02	1.0E-01	sm	1.2E+00	2.8E+01	4.2E-03		
interior wells	INORG	Chromium (total)	7440-47-3	T		214	21	2.00E-03	1.73E-01	1.00E-03	5.00E-02	1.0E-01	sm	1.7E+00	2.8E+01	6.1E-03		
interior wells	INORG	Chromium III	16065-83-1	D	D	86	13	1.90E-02	3.65E-01	1.00E-02	3.00E-02	5.5E+01	nc	6.7E-03	1.5E+04	2.5E-05		
interior wells	INORG	Chromium III	16065-83-1	T	D	23	8	2.00E-02	2.80E-01	2.00E-02	5.00E-02	5.5E+01	nc	5.1E-03	1.5E+04	1.9E-05		
interior wells	INORG	Chromium VI	18540-29-9	D	A	125	11	8.00E-03	9.50E-02	1.00E-02	2.00E-02	1.0E-01	sm	9.5E-01	2.8E+01	3.3E-03		
interior wells	INORG	Chromium VI	18540-29-9	T	A	23	1	4.00E-03	4.00E-03	2.00E-03	5.00E-02	1.0E-01	sm	4.0E-02	2.8E+01	1.4E-04		
interior wells	INORG	Copper	7440-50-8	D	D	131	39	2.10E-03	5.42E-01	1.80E-03	2.00E-02	1.3E+00	sm	4.2E-01	1.2E+04	4.4E-05		
interior wells	INORG	Copper	7440-50-8	T	D	59	29	1.80E-03	1.14E+00	1.80E-03	2.00E-02	1.3E+00	sm	8.8E-01	1.2E+04	9.3E-05		
interior wells	INORG	Cyanide (total)	57-12-5	T	D	213	13	2.00E-03	1.30E-01	1.00E-03	5.00E-02	2.0E-01	sm	6.5E-01	6.2E+03	2.1E-05		
interior wells	INORG	Fluoride	16984-48-8	T		91	91	9.00E-02	2.45E+00			4.0E+00	sm	6.1E-01				
interior wells	INORG	Iron	7439-89-6	D	D	315	236	1.70E-02	3.10E+02	3.00E-02	1.00E-01							
interior wells	INORG	Iron	7439-89-6	T	D	262	222	1.00E-02	4.98E+01	1.00E-02	1.00E-01							
interior wells	INORG	Lead	7439-92-1	D	B2	128	38	5.00E-03	1.40E-01	2.00E-03	5.00E-02	1.5E-02	sm	9.3E+00	7.4E+01	1.9E-03		
interior wells	INORG	Lead	7439-92-1	T	B2	63	26	1.10E-03	1.40E-01	1.00E-03	5.00E-02	1.5E-02	sm	9.3E+00	7.4E+01	1.9E-03		
interior wells	INORG	Magnesium	7439-95-4	D		271	271	3.50E+00	1.93E+02									
interior wells	INORG	Magnesium	7439-95-4	T		184	183	3.50E+00	2.40E+02	5.00E-02	5.00E-02							
interior wells	INORG	Manganese	7439-96-5	D	D	319	306	5.60E-04	1.10E+01	2.30E-04	3.00E-02	5.1E+00	nc	2.2E+00	6.0E+03	1.8E-03		
interior wells	INORG	Manganese	7439-96-5	T	D	253	250	3.80E-03	7.64E+00	6.60E-04	6.60E-04	5.1E+00	nc	1.5E+00	6.0E+03	1.3E-03		
interior wells	INORG	Mercury	7439-97-6	D	D	106	2	3.00E-04	3.00E-04	2.00E-04	1.00E-03	2.0E-03	sm	1.5E-01	2.9E-01	1.0E-03	2.9E-01	1.0E-03
interior wells	INORG	Mercury	7439-97-6	T	D	13	0			5.00E-04	5.00E-04	2.0E-03	sm		2.9E-01		2.9E-01	
interior wells	INORG	Nickel	7440-02-0	D	A	295	219	2.30E-03	6.80E-01	2.10E-03	5.00E-02	7.3E-01	nc	9.3E-01	2.4E+03	2.9E-04		
interior wells	INORG	Nickel	7440-02-0	T	A	476	303	2.20E-03	6.70E-01	2.50E-03	4.00E-02	7.3E-01	nc	9.2E-01	2.4E+03	2.8E-04		
interior wells	INORG	Selenium	7782-49-2	D	D	106	5	1.00E-03	9.00E-03	1.00E-03	4.00E-02	5.0E-02	sm	1.8E-01	1.5E+03	5.8E-06		
interior wells	INORG	Selenium	7782-49-2	T	D	15	2	6.70E-02	7.10E-02	5.00E-03	5.00E-03	5.0E-02	sm	1.4E+00	1.5E+03	4.6E-05		
interior wells	INORG	Silver	7440-22-4	D	D	106	2	2.00E-03	2.00E-03	2.00E-03	3.00E-02	1.8E-01	nc	1.1E-02	2.3E+02	8.5E-06		
interior wells	INORG	Silver	7440-22-4	T	D	13	0			2.00E-02	2.00E-02	1.8E-01	nc		2.3E+02			
interior wells	INORG	Zinc	7440-66-6	D	ID	101	48	1.00E-02	1.32E+00	1.00E-02	2.00E-02	1.1E+01	nc	1.2E-01	1.1E+05	1.2E-05		
interior wells	INORG	Zinc	7440-66-6	T	ID	15	6	2.00E-02	1.22E+00	2.00E-02	2.00E-02	1.1E+01	nc	1.1E-01	1.1E+05	1.1E-05		
interior wells	HERB	2,4-D	94-75-7	T		25	0			1.00E-03	1.00E-01	7.0E-02	sm					
interior wells	HERB	2,4,5-TP	93-72-1	T	D	25	0			1.00E-03	1.00E-02	5.0E-02	sm					
Notes:																		
The drinking water criteria are based on the following hierarchy: State MCL, Federal MCL, Equivalent Drinking Water Concentration Limits at the lower of the criteria calculated at either the target cancer risk of 10 ⁻⁵ or target hazard quotient of 1.																		
The non-drinking water criteria are the lower of the criteria at either the target cancer risk of 10 ⁻⁵ or target hazard quotient of 1.																		
The criteria for Chromium (total) are based on Chromium VI.																		
The criteria for 1,2-Dichloroethene (total) are the more conservative of the criteria for either cis-1,2-Dichloroethene or trans-1,2-Dichloroethene.																		
The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the criteria for Xylenes (total).																		
Ratios of concentration to the criteria greater than 1 are shaded in bold, with the exception of the ratios of concentrations from Interior Well to drinking water criteria, as discussed in the Site Summary Report.																		
sm - The criterion is the State MCL.																		
fm - The criterion is the Federal MCL.																		
c - The criterion is based on cancer risk at the indicated cancer risk.																		
nc - The criterion is based on noncancer effects at the indicated hazard quotient.																		
Chem Group - chemical group																		
Meas Basis - measured basis; T = total, D = dissolved																		
Carc Class - USEPA Weight-of-Evidence Cancer Classification																		

TABLE 4
SAMPLE LOCATIONS ASSIGNED TO SITE AREAS
CLOSED LANDFILL
ELYRIA, OHIO

*List of Areas**Locations with Soil Data Associated with Each Area***Soil Data**

"Closed Landfill"	--								
"Open Burn" Area	S5	S6							
"N. Sludge" Area	S3	S4							
"S. Sludge" Area	S1	S2							
"N. Trenches" Area	MW-15	TR-005	TR-006	TR-007	TR-008	TR-009	TR-012	SB-026	SB-030
"S. Trenches" Area	MW-16	TR-001	TR-002	TR-003	TR-004				
Former N. and S. "Die Storage Pad" Area	MW-16	TR-001	TR-002	TR-003	SB-023	SB-024	SB-025		
"Railway Spur" Area	SB-024	SB-025	SB-033	SB-034					
WWTP "Effluent Line" to Outfall 001 Area	TR-009	SB-020	SB-024	SB-025					
Former "Fuel Oil Tank" Area	TR-009	SB-021	SB-022						
Unassigned	S7	SB-016	SB-017	SB-018	SB-019	SB-031	SB-032		

*List of Locations***Groundwater Data**

"Site-wide Groundwater" Area										
List of Interior Wells	P-01	P-01T	P-02	P-02T	P-03	P-05	P-05S	P-06	P-08	
	P-08R	P-08T	P-09	P-10	P-11	P-12	P-12T	P-12TR	P-13	
	P-13T	P-16	P-16T	P-18	P-20	P-21				
	Former MW-15		Former MW-16							
List of Perimeter Wells	FD-01	FD-02	FD-03	FD-04	FD-05	FD-06	FD-07	FD-08	FD-09	
	OW-1	P-04R	P-07	P-07T	P-14	P-14T	Former MW-12			

APPENDIX A

SOIL AND GROUNDWATER ANALYTICAL DATA

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location: FD-01
Sample Name: W-12616-062900-DEN-006
Sample Date: 6/29/2000

Parameters:	Units	
Volatile Organic Compounds		
1,1,1-Trichloroethane	mg/L	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U
1,1-Dichloroethane	mg/L	0.001 U
1,1-Dichloroethene	mg/L	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.002 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U
1,2-Dichloroethane	mg/L	0.001 U
1,2-Dichloropropane	mg/L	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.01 U
2-Hexanone	mg/L	0.01 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.01 U
Acetone	mg/L	0.01 U
Benzene	mg/L	0.001 U
Bromodichloromethane	mg/L	0.001 U
Bromoform	mg/L	0.001 U
Bromomethane (Methyl Bromide)	mg/L	0.002 U
Carbon disulfide	mg/L	0.00011 J
Carbon tetrachloride	mg/L	0.001 U
Chlorobenzene	mg/L	0.001 U
Chloroethane	mg/L	0.002 U
Chloroform (Trichloromethane)	mg/L	0.001 U
Chloromethane (Methyl Chloride)	mg/L	0.002 U
cis-1,2-Dichloroethene	mg/L	0.0005 U
cis-1,3-Dichloropropene	mg/L	0.001 U
Cyclohexane	mg/L	0.001 U
Dibromochloromethane	mg/L	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.002 U
Ethylbenzene	mg/L	0.001 U
Isopropylbenzene	mg/L	0.001 U
Methyl acetate	mg/L	0.01 U
Methyl cyclohexane	mg/L	0.001 U
Methyl Tert Butyl Ether	mg/L	0.005 U
Methylene chloride	mg/L	0.006 U
Styrene	mg/L	0.001 U
Tetrachloroethene	mg/L	0.001 U
Toluene	mg/L	0.001 U
trans-1,2-Dichloroethene	mg/L	0.0005 U
trans-1,3-Dichloropropene	mg/L	0.001 U
Trichloroethene	mg/L	0.002 U
Trichlorofluoromethane (CFC-11)	mg/L	0.002 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U
Vinyl chloride	mg/L	0.002 U
Xylene (total)	mg/L	0.001 U

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location: **FD-01**
Sample Name: **W-12616-062900-DEN-006**
Sample Date: **6/29/2000**

Parameters: **Units**

Metals

Aluminum (Dissolved)	mg/L	0.2 U
Antimony (Dissolved)	mg/L	0.0035 J
Arsenic (Dissolved)	mg/L	0.010 U
Barium (Dissolved)	mg/L	0.030 J
Beryllium (Dissolved)	mg/L	0.0050 U
Cadmium (Dissolved)	mg/L	0.0050 U
Calcium (Dissolved)	mg/L	115
Chromium Total (Dissolved)	mg/L	0.010 U
Cobalt (Dissolved)	mg/L	0.0023 J
Copper (Dissolved)	mg/L	0.025 U
Iron (Dissolved)	mg/L	0.10 U
Lead (Dissolved)	mg/L	0.030 U
Magnesium (Dissolved)	mg/L	36.6
Manganese (Dissolved)	mg/L	0.51
Mercury (Dissolved)	mg/L	0.00020 U
Nickel (Dissolved)	mg/L	0.015 J
Potassium (Dissolved)	mg/L	0.95 J
Selenium (Dissolved)	mg/L	0.0050 U
Silver (Dissolved)	mg/L	0.010 U
Sodium (Dissolved)	mg/L	17.4
Thallium (Dissolved)	mg/L	0.010 U
Vanadium (Dissolved)	mg/L	0.050 U
Zinc (Dissolved)	mg/L	0.020 U

General Chemistry

Cyanide (Dissolved)	mg/L	0.010 U

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location: **FD-02**
Sample Name: **W-12616-062900-DEN-007**
Sample Date: **6/29/2000**

<i>Parameters:</i>	<i>Units</i>	
<i>Volatile Organic Compounds</i>		
1,1,1-Trichloroethane	mg/L	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U
1,1-Dichloroethane	mg/L	0.001 U
1,1-Dichloroethene	mg/L	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.002 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U
1,2-Dichloroethane	mg/L	0.001 U
1,2-Dichloropropane	mg/L	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.01 U
2-Hexanone	mg/L	0.01 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.01 U
Acetone	mg/L	0.01 U
Benzene	mg/L	0.001 U
Bromodichloromethane	mg/L	0.001 U
Bromoform	mg/L	0.001 U
Bromomethane (Methyl Bromide)	mg/L	0.002 U
Carbon disulfide	mg/L	0.00012 J
Carbon tetrachloride	mg/L	0.001 U
Chlorobenzene	mg/L	0.001 U
Chloroethane	mg/L	0.002 U
Chloroform (Trichloromethane)	mg/L	0.001 U
Chloromethane (Methyl Chloride)	mg/L	0.002 U
cis-1,2-Dichloroethene	mg/L	0.0005 U
cis-1,3-Dichloropropene	mg/L	0.001 U
Cyclohexane	mg/L	0.001 U
Dibromochloromethane	mg/L	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.002 U
Ethylbenzene	mg/L	0.001 U
Isopropylbenzene	mg/L	0.001 U
Methyl acetate	mg/L	0.01 U
Methyl cyclohexane	mg/L	0.001 U
Methyl Tert Butyl Ether	mg/L	0.005 U
Methylene chloride	mg/L	0.0047 U
Styrene	mg/L	0.001 U
Tetrachloroethene	mg/L	0.001 U
Toluene	mg/L	0.001 U
trans-1,2-Dichloroethene	mg/L	0.0005 U
trans-1,3-Dichloropropene	mg/L	0.001 U
Trichloroethene	mg/L	0.002 U
Trichlorofluoromethane (CFC-11)	mg/L	0.002 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U
Vinyl chloride	mg/L	0.002 U
Xylene (total)	mg/L	0.001 U

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location: FD-02
Sample Name: W-12616-062900-DEN-007
Sample Date: 6/29/2000

Parameters: Units

Metals

Aluminum (Dissolved)	mg/L	0.2 U
Antimony (Dissolved)	mg/L	0.0039 J
Arsenic (Dissolved)	mg/L	0.011
Barium (Dissolved)	mg/L	0.0058 J
Beryllium (Dissolved)	mg/L	0.0050 U
Cadmium (Dissolved)	mg/L	0.0050 U
Calcium (Dissolved)	mg/L	8.1
Chromium Total (Dissolved)	mg/L	0.010 U
Cobalt (Dissolved)	mg/L	0.050 U
Copper (Dissolved)	mg/L	0.025 U
Iron (Dissolved)	mg/L	0.10 U
Lead (Dissolved)	mg/L	0.030 U
Magnesium (Dissolved)	mg/L	2.7 J
Manganese (Dissolved)	mg/L	0.026
Mercury (Dissolved)	mg/L	0.00020 U
Nickel (Dissolved)	mg/L	0.040 U
Potassium (Dissolved)	mg/L	4.3 J
Selenium (Dissolved)	mg/L	0.0050 U
Silver (Dissolved)	mg/L	0.010 U
Sodium (Dissolved)	mg/L	311
Thallium (Dissolved)	mg/L	0.010 U
Vanadium (Dissolved)	mg/L	0.050 U
Zinc (Dissolved)	mg/L	0.012 J

General Chemistry

Cyanide (Dissolved)	mg/L	0.010 U

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Page 1 of 2

Sample Location: **FD-03**
Sample Name: **W-12616-062900-DEN-008**
Sample Date: **6/29/2000**

<i>Parameters:</i>	<i>Units</i>	
<i>Volatile Organic Compounds</i>		
1,1,1-Trichloroethane	mg/L	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U
1,1-Dichloroethane	mg/L	0.001 U
1,1-Dichloroethene	mg/L	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.002 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U
1,2-Dichloroethane	mg/L	0.001 U
1,2-Dichloropropane	mg/L	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.01 U
2-Hexanone	mg/L	0.01 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.01 U
Acetone	mg/L	0.01 U
Benzene	mg/L	0.001 U
Bromodichloromethane	mg/L	0.001 U
Bromoform	mg/L	0.001 U
Bromomethane (Methyl Bromide)	mg/L	0.002 U
Carbon disulfide	mg/L	0.001 U
Carbon tetrachloride	mg/L	0.001 U
Chlorobenzene	mg/L	0.001 U
Chloroethane	mg/L	0.002 U
Chloroform (Trichloromethane)	mg/L	0.001 U
Chloromethane (Methyl Chloride)	mg/L	0.002 U
cis-1,2-Dichloroethene	mg/L	0.0005 U
cis-1,3-Dichloropropene	mg/L	0.001 U
Cyclohexane	mg/L	0.001 U
Dibromochloromethane	mg/L	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.002 U
Ethylbenzene	mg/L	0.001 U
Isopropylbenzene	mg/L	0.001 U
Methyl acetate	mg/L	0.01 U
Methyl cyclohexane	mg/L	0.001 U
Methyl Tert Butyl Ether	mg/L	0.005 U
Methylene chloride	mg/L	0.0045 U
Styrene	mg/L	0.001 U
Tetrachloroethene	mg/L	0.001 U
Toluene	mg/L	0.001 U
trans-1,2-Dichloroethene	mg/L	0.0005 U
trans-1,3-Dichloropropene	mg/L	0.001 U
Trichloroethene	mg/L	0.002 U
Trichlorofluoromethane (CFC-11)	mg/L	0.002 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U
Vinyl chloride	mg/L	0.002 U
Xylene (total)	mg/L	0.001 U

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location: **FD-03**
Sample Name: **W-12616-062900-DEN-008**
Sample Date: **6/29/2000**

Parameters: **Units**

Metals

Aluminum (Dissolved)	mg/L	0.028 J
Antimony (Dissolved)	mg/L	0.0029 J
Arsenic (Dissolved)	mg/L	0.010 U
Barium (Dissolved)	mg/L	0.024 J
Beryllium (Dissolved)	mg/L	0.0050 U
Cadmium (Dissolved)	mg/L	0.00030 J
Calcium (Dissolved)	mg/L	176
Chromium Total (Dissolved)	mg/L	0.010 U
Cobalt (Dissolved)	mg/L	0.0022 J
Copper (Dissolved)	mg/L	0.025 U
Iron (Dissolved)	mg/L	0.10 U
Lead (Dissolved)	mg/L	0.030 U
Magnesium (Dissolved)	mg/L	65.8
Manganese (Dissolved)	mg/L	0.47
Mercury (Dissolved)	mg/L	0.00020 U
Nickel (Dissolved)	mg/L	0.0062 J
Potassium (Dissolved)	mg/L	1.2 J
Selenium (Dissolved)	mg/L	0.0050 U
Silver (Dissolved)	mg/L	0.010 U
Sodium (Dissolved)	mg/L	25.7
Thallium (Dissolved)	mg/L	0.010 U
Vanadium (Dissolved)	mg/L	0.050 U
Zinc (Dissolved)	mg/L	0.020 U

General Chemistry

Cyanide (Dissolved)	mg/L	0.010 U

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location: **FD-04**
Sample Name: **W-12616-062900-DEN-005**
Sample Date: **6/29/2000**

<i>Parameters:</i>	<i>Units</i>	
<i>Volatile Organic Compounds</i>		
1,1,1-Trichloroethane	mg/L	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U
1,1-Dichloroethane	mg/L	0.001 U
1,1-Dichloroethene	mg/L	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.002 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U
1,2-Dichloroethane	mg/L	0.001 U
1,2-Dichloropropane	mg/L	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.01 U
2-Hexanone	mg/L	0.01 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.01 U
Acetone	mg/L	0.01 U
Benzene	mg/L	0.001 U
Bromodichloromethane	mg/L	0.001 U
Bromoform	mg/L	0.001 U
Bromomethane (Methyl Bromide)	mg/L	0.002 U
Carbon disulfide	mg/L	0.001 U
Carbon tetrachloride	mg/L	0.001 U
Chlorobenzene	mg/L	0.001 U
Chloroethane	mg/L	0.002 U
Chloroform (Trichloromethane)	mg/L	0.001 U
Chloromethane (Methyl Chloride)	mg/L	0.002 U
cis-1,2-Dichloroethene	mg/L	0.0005 U
cis-1,3-Dichloropropene	mg/L	0.001 U
Cyclohexane	mg/L	0.001 U
Dibromochloromethane	mg/L	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.002 U
Ethylbenzene	mg/L	0.001 U
Isopropylbenzene	mg/L	0.001 U
Methyl acetate	mg/L	0.01 U
Methyl cyclohexane	mg/L	0.001 U
Methyl Tert Butyl Ether	mg/L	0.005 U
Methylene chloride	mg/L	0.0051 U
Styrene	mg/L	0.001 U
Tetrachloroethene	mg/L	0.001 U
Toluene	mg/L	0.001 U
trans-1,2-Dichloroethene	mg/L	0.0005 U
trans-1,3-Dichloropropene	mg/L	0.001 U
Trichloroethene	mg/L	0.002 U
Trichlorofluoromethane (CFC-11)	mg/L	0.002 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U
Vinyl chloride	mg/L	0.002 U
Xylene (total)	mg/L	0.001 U

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Page 2 of 2

Sample Location: **FD-04**
Sample Name: **W-12616-062900-DEN-005**
Sample Date: **6/29/2000**

Parameters: **Units**

Metals

Aluminum (Dissolved)	mg/L	0.2 U
Antimony (Dissolved)	mg/L	0.0024 J
Arsenic (Dissolved)	mg/L	0.010 U
Barium (Dissolved)	mg/L	0.021 J
Beryllium (Dissolved)	mg/L	0.0050 U
Cadmium (Dissolved)	mg/L	0.0050 U
Calcium (Dissolved)	mg/L	167
Chromium Total (Dissolved)	mg/L	0.0024 J
Cobalt (Dissolved)	mg/L	0.050 U
Copper (Dissolved)	mg/L	0.025 U
Iron (Dissolved)	mg/L	0.59
Lead (Dissolved)	mg/L	0.030 U
Magnesium (Dissolved)	mg/L	53.3
Manganese (Dissolved)	mg/L	0.23
Mercury (Dissolved)	mg/L	0.00020 U
Nickel (Dissolved)	mg/L	0.026 J
Potassium (Dissolved)	mg/L	2.3 J
Selenium (Dissolved)	mg/L	0.0050 U
Silver (Dissolved)	mg/L	0.010 U
Sodium (Dissolved)	mg/L	80.2
Thallium (Dissolved)	mg/L	0.010 U
Vanadium (Dissolved)	mg/L	0.050 U
Zinc (Dissolved)	mg/L	0.015 J

General Chemistry

Cyanide (Dissolved)	mg/L	0.003 J

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location: FD-05
Sample Name: W-12616-062900-DEN-001
Sample Date: 6/29/2000

Parameters:	Units	
Volatile Organic Compounds		
1,1,1-Trichloroethane	mg/L	0.0025 U
1,1,2,2-Tetrachloroethane	mg/L	0.0025 U
1,1,2-Trichloroethane	mg/L	0.0025 U
1,1-Dichloroethane	mg/L	0.0025 U
1,1-Dichloroethene	mg/L	0.0025 U
1,2,4-Trichlorobenzene	mg/L	0.0025 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.005 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.0025 U
1,2-Dichlorobenzene	mg/L	0.0025 U
1,2-Dichloroethane	mg/L	0.0025 U
1,2-Dichloropropane	mg/L	0.0025 U
1,3-Dichlorobenzene	mg/L	0.0025 U
1,4-Dichlorobenzene	mg/L	0.0025 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.025 U
2-Hexanone	mg/L	0.025 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.025 U
Acetone	mg/L	0.025 U
Benzene	mg/L	0.00015 J
Bromodichloromethane	mg/L	0.0025 U
Bromoform	mg/L	0.0025 U
Bromomethane (Methyl Bromide)	mg/L	0.005 U
Carbon disulfide	mg/L	0.0025 U
Carbon tetrachloride	mg/L	0.0025 U
Chlorobenzene	mg/L	0.0025 U
Chloroethane	mg/L	0.005 U
Chloroform (Trichloromethane)	mg/L	0.000057 J
Chloromethane (Methyl Chloride)	mg/L	0.005 U
cis-1,2-Dichloroethene	mg/L	0.055
cis-1,3-Dichloropropene	mg/L	0.0025 U
Cyclohexane	mg/L	0.0025 U
Dibromochloromethane	mg/L	0.0025 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.005 U
Ethylbenzene	mg/L	0.0025 U
Isopropylbenzene	mg/L	0.0025 U
Methyl acetate	mg/L	0.025 U
Methyl cyclohexane	mg/L	0.0025 U
Methyl Tert Butyl Ether	mg/L	0.012 U
Methylene chloride	mg/L	0.0058 U
Styrene	mg/L	0.0025 U
Tetrachloroethene	mg/L	0.0025 U
Toluene	mg/L	0.0025 U
trans-1,2-Dichloroethene	mg/L	0.0049
trans-1,3-Dichloropropene	mg/L	0.0025 U
Trichloroethene	mg/L	0.024
Trichlorofluoromethane (CFC-11)	mg/L	0.005 U
Trifluorotrchloroethane (Freon 113)	mg/L	0.0025 U
Vinyl chloride	mg/L	0.0099
Xylene (total)	mg/L	0.0025 U

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location: **FD-05**
Sample Name: **W-12616-062900-DEN-001**
Sample Date: **6/29/2000**

Parameters: **Units**

Metals

Aluminum (Dissolved)	mg/L	0.035 J
Antimony (Dissolved)	mg/L	0.060 U
Arsenic (Dissolved)	mg/L	0.010 U
Barium (Dissolved)	mg/L	0.10 J
Beryllium (Dissolved)	mg/L	0.0050 U
Cadmium (Dissolved)	mg/L	0.0050 U
Calcium (Dissolved)	mg/L	149
Chromium Total (Dissolved)	mg/L	0.010 U
Cobalt (Dissolved)	mg/L	0.0025 J
Copper (Dissolved)	mg/L	0.025 U
Iron (Dissolved)	mg/L	1.3 J
Lead (Dissolved)	mg/L	0.030 U
Magnesium (Dissolved)	mg/L	31.1
Manganese (Dissolved)	mg/L	0.50
Mercury (Dissolved)	mg/L	0.00020 U
Nickel (Dissolved)	mg/L	0.040 U
Potassium (Dissolved)	mg/L	6.9
Selenium (Dissolved)	mg/L	0.0050 U
Silver (Dissolved)	mg/L	0.010 U
Sodium (Dissolved)	mg/L	97.5
Thallium (Dissolved)	mg/L	0.010 U
Vanadium (Dissolved)	mg/L	0.050 U
Zinc (Dissolved)	mg/L	0.014 J

General Chemistry

Cyanide (Dissolved)	mg/L	0.044

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

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<i>Sample Location:</i>		<i>FD-06</i>	<i>FD-06</i>
<i>Sample Name:</i>		W-12616-062900-DEN-002	W-12616-062900-DEN-003
<i>Sample Date:</i>		6/29/2000	6/29/2000
			<i>Duplicate</i>
<i>Parameters:</i>	<i>Units</i>		
<i>Volatile Organic Compounds</i>			
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.002 U	0.002 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.01 U	0.01 U
2-Hexanone	mg/L	0.01 U	0.01 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.01 U	0.01 U
Acetone	mg/L	0.01 U	0.01 U
Benzene	mg/L	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U
Bromomethane (Methyl Bromide)	mg/L	0.002 U	0.002 U
Carbon disulfide	mg/L	0.001 U	0.001 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U
Chloroethane	mg/L	0.002 U	0.002 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U
Chloromethane (Methyl Chloride)	mg/L	0.002 U	0.002 U
cis-1,2-Dichloroethene	mg/L	0.0005 U	0.0005 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U
Cyclohexane	mg/L	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.002 U	0.002 U
Ethylbenzene	mg/L	0.001 U	0.001 U
Isopropylbenzene	mg/L	0.001 U	0.001 U
Methyl acetate	mg/L	0.01 U	0.01 U
Methyl cyclohexane	mg/L	0.001 U	0.001 U
Methyl Tert Butyl Ether	mg/L	0.005 U	0.005 U
Methylene chloride	mg/L	0.0047 U	0.005 U
Styrene	mg/L	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.0005 U	0.0005 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.001 U
Trichloroethene	mg/L	0.002 U	0.002 U
Trichlorofluoromethane (CFC-11)	mg/L	0.002 U	0.002 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U	0.001 U
Vinyl chloride	mg/L	0.002 U	0.002 U
Xylene (total)	mg/L	0.001 U	0.001 U

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>FD-06</i>	<i>FD-06</i>
<i>Sample Name:</i>		<i>W-12616-062900-DEN-002</i>	<i>W-12616-062900-DEN-003</i>
<i>Sample Date:</i>		<i>6/29/2000</i>	<i>6/29/2000</i>
			<i>Duplicate</i>
<i>Parameters:</i>	<i>Units</i>		
<i>Metals</i>			
Aluminum (Dissolved)	mg/L	0.2 U	0.037 J
Antimony (Dissolved)	mg/L	0.060 U	0.060 U
Arsenic (Dissolved)	mg/L	0.011	0.012
Barium (Dissolved)	mg/L	0.31	0.32
Beryllium (Dissolved)	mg/L	0.0050 U	0.0050 U
Cadmium (Dissolved)	mg/L	0.0050 U	0.0050 U
Calcium (Dissolved)	mg/L	298	304
Chromium Total (Dissolved)	mg/L	0.010 U	0.0015 J
Cobalt (Dissolved)	mg/L	0.050 U	0.050 U
Copper (Dissolved)	mg/L	0.025 U	0.025 U
Iron (Dissolved)	mg/L	3.1	3.1
Lead (Dissolved)	mg/L	0.030 U	0.030 U
Magnesium (Dissolved)	mg/L	61.3	62.8
Manganese (Dissolved)	mg/L	0.49	0.50
Mercury (Dissolved)	mg/L	0.00020 U	0.00020 U
Nickel (Dissolved)	mg/L	0.040 U	0.040 U
Potassium (Dissolved)	mg/L	4.3 J	4.4 J
Selenium (Dissolved)	mg/L	0.0050 U	0.0050 U
Silver (Dissolved)	mg/L	0.010 U	0.010 U
Sodium (Dissolved)	mg/L	260	265
Thallium (Dissolved)	mg/L	0.010 U	0.010 U
Vanadium (Dissolved)	mg/L	0.050 U	0.050 U
Zinc (Dissolved)	mg/L	0.020 U	0.013 J
<i>General Chemistry</i>			
Cyanide (Dissolved)	mg/L	0.017	0.003 J

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location: FD-07
Sample Name: W-12616-062900-DEN-009
Sample Date: 6/29/2000

Parameters:	Units	
Volatile Organic Compounds		
1,1,1-Trichloroethane	mg/L	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U
1,1-Dichloroethane	mg/L	0.001 U
1,1-Dichloroethene	mg/L	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.002 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U
1,2-Dichloroethane	mg/L	0.001 U
1,2-Dichloropropane	mg/L	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.01 U
2-Hexanone	mg/L	0.01 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.01 U
Acetone	mg/L	0.01 U
Benzene	mg/L	0.001 U
Bromodichloromethane	mg/L	0.001 U
Bromoform	mg/L	0.001 U
Bromomethane (Methyl Bromide)	mg/L	0.002 U
Carbon disulfide	mg/L	0.001 U
Carbon tetrachloride	mg/L	0.001 U
Chlorobenzene	mg/L	0.001 U
Chloroethane	mg/L	0.002 U
Chloroform (Trichloromethane)	mg/L	0.001 U
Chloromethane (Methyl Chloride)	mg/L	0.002 U
cis-1,2-Dichloroethene	mg/L	0.0005 U
cis-1,3-Dichloropropene	mg/L	0.001 U
Cyclohexane	mg/L	0.001 U
Dibromochloromethane	mg/L	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.002 U
Ethylbenzene	mg/L	0.001 U
Isopropylbenzene	mg/L	0.001 U
Methyl acetate	mg/L	0.01 U
Methyl cyclohexane	mg/L	0.001 U
Methyl Tert Butyl Ether	mg/L	0.005 U
Methylene chloride	mg/L	0.0047 U
Styrene	mg/L	0.001 U
Tetrachloroethene	mg/L	0.001 U
Toluene	mg/L	0.001 U
trans-1,2-Dichloroethene	mg/L	0.0005 U
trans-1,3-Dichloropropene	mg/L	0.001 U
Trichloroethene	mg/L	0.002 U
Trichlorofluoromethane (CFC-11)	mg/L	0.002 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U
Vinyl chloride	mg/L	0.002 U
Xylene (total)	mg/L	0.001 U

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location: **FD-07**
Sample Name: **W-12616-062900-DEN-009**
Sample Date: **6/29/2000**

Parameters: **Units**

Metals

Aluminum (Dissolved)	mg/L	0.029 J
Antimony (Dissolved)	mg/L	0.0023 J
Arsenic (Dissolved)	mg/L	0.010 U
Barium (Dissolved)	mg/L	0.021 J
Beryllium (Dissolved)	mg/L	0.0050 U
Cadmium (Dissolved)	mg/L	0.00036 J
Calcium (Dissolved)	mg/L	175
Chromium Total (Dissolved)	mg/L	0.010 U
Cobalt (Dissolved)	mg/L	0.0061 J
Copper (Dissolved)	mg/L	0.025 U
Iron (Dissolved)	mg/L	0.10 U
Lead (Dissolved)	mg/L	0.030 U
Magnesium (Dissolved)	mg/L	81.3
Manganese (Dissolved)	mg/L	0.28
Mercury (Dissolved)	mg/L	0.00020 U
Nickel (Dissolved)	mg/L	0.19
Potassium (Dissolved)	mg/L	8.0
Selenium (Dissolved)	mg/L	0.0050 U
Silver (Dissolved)	mg/L	0.010 U
Sodium (Dissolved)	mg/L	247
Thallium (Dissolved)	mg/L	0.010 U
Vanadium (Dissolved)	mg/L	0.050 U
Zinc (Dissolved)	mg/L	0.020 U

General Chemistry

Cyanide (Dissolved)	mg/L	0.010 U

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location: FD-08
Sample Name: W-12616-062900-DEN-010
Sample Date: 6/29/2000

Parameters:	Units	
Volatile Organic Compounds		
1,1,1-Trichloroethane	mg/L	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U
1,1-Dichloroethane	mg/L	0.001 U
1,1-Dichloroethene	mg/L	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.002 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U
1,2-Dichloroethane	mg/L	0.001 U
1,2-Dichloropropane	mg/L	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.01 U
2-Hexanone	mg/L	0.01 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.01 U
Acetone	mg/L	0.01 U
Benzene	mg/L	0.001 U
Bromodichloromethane	mg/L	0.001 U
Bromoform	mg/L	0.001 U
Bromomethane (Methyl Bromide)	mg/L	0.002 U
Carbon disulfide	mg/L	0.00019 J
Carbon tetrachloride	mg/L	0.001 U
Chlorobenzene	mg/L	0.001 U
Chloroethane	mg/L	0.002 U
Chloroform (Trichloromethane)	mg/L	0.001 U
Chloromethane (Methyl Chloride)	mg/L	0.002 U
cis-1,2-Dichloroethene	mg/L	0.0005 U
cis-1,3-Dichloropropene	mg/L	0.001 U
Cyclohexane	mg/L	0.001 U
Dibromochloromethane	mg/L	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.002 U
Ethylbenzene	mg/L	0.001 U
Isopropylbenzene	mg/L	0.001 U
Methyl acetate	mg/L	0.01 U
Methyl cyclohexane	mg/L	0.001 U
Methyl Tert Butyl Ether	mg/L	0.005 U
Methylene chloride	mg/L	0.0048 U
Styrene	mg/L	0.001 U
Tetrachloroethene	mg/L	0.001 U
Toluene	mg/L	0.001 U
trans-1,2-Dichloroethene	mg/L	0.0005 U
trans-1,3-Dichloropropene	mg/L	0.001 U
Trichloroethene	mg/L	0.002 U
Trichlorofluoromethane (CFC-11)	mg/L	0.002 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U
Vinyl chloride	mg/L	0.002 U
Xylene (total)	mg/L	0.001 U

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location: **FD-08**
Sample Name: **W-12616-062900-DEN-010**
Sample Date: **6/29/2000**

Parameters: **Units**

Metals

Aluminum (Dissolved)	mg/L	0.2 U
Antimony (Dissolved)	mg/L	0.060 U
Arsenic (Dissolved)	mg/L	0.010 U
Barium (Dissolved)	mg/L	0.030 J
Beryllium (Dissolved)	mg/L	0.0050 U
Cadmium (Dissolved)	mg/L	0.0050 U
Calcium (Dissolved)	mg/L	146
Chromium Total (Dissolved)	mg/L	0.010 U
Cobalt (Dissolved)	mg/L	0.0066 J
Copper (Dissolved)	mg/L	0.025 U
Iron (Dissolved)	mg/L	0.10 U
Lead (Dissolved)	mg/L	0.030 U
Magnesium (Dissolved)	mg/L	61.1
Manganese (Dissolved)	mg/L	0.48
Mercury (Dissolved)	mg/L	0.00020 U
Nickel (Dissolved)	mg/L	0.018 J
Potassium (Dissolved)	mg/L	4.9 J
Selenium (Dissolved)	mg/L	0.0050 U
Silver (Dissolved)	mg/L	0.010 U
Sodium (Dissolved)	mg/L	21.2
Thallium (Dissolved)	mg/L	0.010 U
Vanadium (Dissolved)	mg/L	0.050 U
Zinc (Dissolved)	mg/L	0.020 U

General Chemistry

Cyanide (Dissolved)	mg/L	0.010 U

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location: FD-09
Sample Name: W-12616-062900-DEN-011
Sample Date: 6/29/2000

Parameters:	Units	
Volatile Organic Compounds		
1,1,1-Trichloroethane	mg/L	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U
1,1-Dichloroethane	mg/L	0.001 U
1,1-Dichloroethene	mg/L	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.002 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U
1,2-Dichloroethane	mg/L	0.001 U
1,2-Dichloropropane	mg/L	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.01 U
2-Hexanone	mg/L	0.01 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.01 U
Acetone	mg/L	0.01 U
Benzene	mg/L	0.001 U
Bromodichloromethane	mg/L	0.001 U
Bromoform	mg/L	0.001 U
Bromomethane (Methyl Bromide)	mg/L	0.002 U
Carbon disulfide	mg/L	0.001 U
Carbon tetrachloride	mg/L	0.001 U
Chlorobenzene	mg/L	0.001 U
Chloroethane	mg/L	0.002 U
Chloroform (Trichloromethane)	mg/L	0.001 U
Chloromethane (Methyl Chloride)	mg/L	0.002 U
cis-1,2-Dichloroethene	mg/L	0.0005 U
cis-1,3-Dichloropropene	mg/L	0.001 U
Cyclohexane	mg/L	0.001 U
Dibromochloromethane	mg/L	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.002 U
Ethylbenzene	mg/L	0.001 U
Isopropylbenzene	mg/L	0.001 U
Methyl acetate	mg/L	0.01 U
Methyl cyclohexane	mg/L	0.001 U
Methyl Tert Butyl Ether	mg/L	0.005 U
Methylene chloride	mg/L	0.0056 U
Styrene	mg/L	0.001 U
Tetrachloroethene	mg/L	0.001 U
Toluene	mg/L	0.001 U
trans-1,2-Dichloroethene	mg/L	0.0005 U
trans-1,3-Dichloropropene	mg/L	0.001 U
Trichloroethene	mg/L	0.002 U
Trichlorofluoromethane (CFC-11)	mg/L	0.002 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U
Vinyl chloride	mg/L	0.002 U
Xylene (total)	mg/L	0.001 U

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location: **Former MW-012**
Sample Name: **MW-12**
Sample Date: **4/15/1988**

<i>Parameters:</i>	<i>Units</i>	
<i>Volatile Organic Compounds</i>		
1,1,1-Trichloroethane	mg/L	0.005 U
1,1,2,2-Tetrachloroethane	mg/L	0.005 U
1,1,2-Trichloroethane	mg/L	0.005 U
1,1-Dichloroethane	mg/L	0.005 U
1,1-Dichloroethene	mg/L	0.005 U
1,2-Dichloroethane	mg/L	0.005 U
1,2-Dichloroethene (total)	mg/L	0.005 U
1,2-Dichloropropane	mg/L	0.005 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.01 U
2-Hexanone	mg/L	0.01 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.01 U
Acetone	mg/L	0.01 U
Benzene	mg/L	0.005 U
Bromodichloromethane	mg/L	0.005 U
Bromoform	mg/L	0.005 U
Bromomethane (Methyl Bromide)	mg/L	0.01 U
Carbon disulfide	mg/L	0.005 U
Carbon tetrachloride	mg/L	0.005 U
Chlorobenzene	mg/L	0.005 U
Chloroethane	mg/L	0.01 U
Chloroform (Trichloromethane)	mg/L	0.005 U
Chloromethane (Methyl Chloride)	mg/L	0.01 U
cis-1,3-Dichloropropene	mg/L	0.005 U
Dibromochloromethane	mg/L	0.005 U
Ethylbenzene	mg/L	0.005 U
Methylene chloride	mg/L	0.005 U
Styrene	mg/L	0.005 U
Tetrachloroethene	mg/L	0.005 U
Toluene	mg/L	0.005 U
trans-1,3-Dichloropropene	mg/L	0.005 U
Trichloroethene	mg/L	0.005 U
Vinyl acetate	mg/L	0.01 U
Vinyl chloride	mg/L	0.01 U
Xylene (total)	mg/L	0.005 U

<i>Semi-Volatile Organic Compounds</i>		
1,2,4-Trichlorobenzene	mg/L	0.01 U
1,2-Dichlorobenzene	mg/L	0.01 U
1,3-Dichlorobenzene	mg/L	0.01 U
1,4-Dichlorobenzene	mg/L	0.01 U
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	0.01 U
2,4,5-Trichlorophenol	mg/L	0.05 U
2,4,6-Trichlorophenol	mg/L	0.01 U
2,4-Dichlorophenol	mg/L	0.01 U
2,4-Dimethylphenol	mg/L	0.01 U
2,4-Dinitrophenol	mg/L	0.05 U
2,4-Dinitrotoluene	mg/L	0.01 U
2,6-Dinitrotoluene	mg/L	0.01 U
2-Chloronaphthalene	mg/L	0.01 U
2-Chlorophenol	mg/L	0.01 U
2-Methylnaphthalene	mg/L	0.01 U
2-Methylphenol	mg/L	0.01 U
2-Nitroaniline	mg/L	0.05 U
2-Nitrophenol	mg/L	0.01 U
3,3'-Dichlorobenzidine	mg/L	0.02 U

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location: Former MW-012
Sample Name: MW-12
Sample Date: 4/15/1988

<i>Parameters:</i>	<i>Units</i>	
3-Nitroaniline	mg/L	0.05 U
4,6-Dinitro-2-methylphenol	mg/L	0.05 U
4-Bromophenyl phenyl ether	mg/L	0.01 U
4-Chloro-3-methylphenol	mg/L	0.01 U
4-Chloroaniline	mg/L	0.01 U
4-Chlorophenyl phenyl ether	mg/L	0.01 U
4-Methylphenol	mg/L	0.01 U
4-Nitroaniline	mg/L	0.05 U
4-Nitrophenol	mg/L	0.05 U
Acenaphthene	mg/L	0.01 U
Acenaphthylene	mg/L	0.01 U
Anthracene	mg/L	0.01 U
Benzo(a)anthracene	mg/L	0.01 U
Benzo(a)pyrene	mg/L	0.01 U
Benzo(b)fluoranthene	mg/L	0.01 U
Benzo(g,h,i)perylene	mg/L	0.01 U
Benzo(k)fluoranthene	mg/L	0.01 U
Benzoic acid	mg/L	0.05 U
Benzyl Alcohol	mg/L	0.01 U
bis(2-Chloroethoxy)methane	mg/L	0.01 U
bis(2-Chloroethyl)ether	mg/L	0.01 U
bis(2-Ethylhexyl)phthalate	mg/L	0.002 J
Butyl benzylphthalate	mg/L	0.01 U
Chrysene	mg/L	0.01 U
Dibenz(a,h)anthracene	mg/L	0.01 U
Dibenzofuran	mg/L	0.01 U
Diethyl phthalate	mg/L	0.01 U
Dimethyl phthalate	mg/L	0.01 U
Di-n-butylphthalate	mg/L	0.01 U
Di-n-octyl phthalate	mg/L	0.01 U
Fluoranthene	mg/L	0.01 U
Fluorene	mg/L	0.01 U
Hexachlorobenzene	mg/L	0.01 U
Hexachlorobutadiene	mg/L	0.01 U
Hexachlorocyclopentadiene	mg/L	0.01 U
Hexachloroethane	mg/L	0.01 U
Indeno(1,2,3-cd)pyrene	mg/L	0.01 U
Isophorone	mg/L	0.01 U
Naphthalene	mg/L	0.01 U
Nitrobenzene	mg/L	0.01 U
N-Nitrosodi-n-propylamine	mg/L	0.01 U
N-Nitrosodiphenylamine	mg/L	0.01 U
Pentachlorophenol	mg/L	0.05 U
Phenanthrene	mg/L	0.01 U
Phenol	mg/L	0.01 U
Pyrene	mg/L	0.01 U

Metals

Chromium Total (Dissolved)	mg/L	0.020 U
Copper (Dissolved)	mg/L	0.020 U
Lead (Dissolved)	mg/L	0.004 U
Nickel (Dissolved)	mg/L	0.020 U
Zinc (Dissolved)	mg/L	0.010 U

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location: Former MW-015
Sample Name: MW-15-WG
Sample Date: 4/15/1988

Former MW-015
MW-015-WG
7/27/1988

Parameters:	Units		
Volatile Organic Compounds			
1,1,1-Trichloroethane	mg/L	0.005 U	-
1,1,2,2-Tetrachloroethane	mg/L	0.005 U	-
1,1,2-Trichloroethane	mg/L	0.005 U	-
1,1-Dichloroethane	mg/L	0.005 U	-
1,1-Dichloroethene	mg/L	0.005 U	-
1,2-Dichloroethane	mg/L	0.005 U	-
1,2-Dichloroethene (total)	mg/L	0.005 U	-
1,2-Dichloropropane	mg/L	0.005 U	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.01 U	-
2-Hexanone	mg/L	0.01 U	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.01 U	-
Acetone	mg/L	0.01 U	-
Benzene	mg/L	0.005 U	-
Bromodichloromethane	mg/L	0.005 U	-
Bromoform	mg/L	0.005 U	-
Bromomethane (Methyl Bromide)	mg/L	0.01 U	-
Carbon disulfide	mg/L	0.005 U	-
Carbon tetrachloride	mg/L	0.005 U	-
Chlorobenzene	mg/L	0.005 U	-
Chloroethane	mg/L	0.01 U	-
Chloroform (Trichloromethane)	mg/L	0.005 U	-
Chloromethane (Methyl Chloride)	mg/L	0.01 U	-
cis-1,3-Dichloropropene	mg/L	0.005 U	-
Dibromochloromethane	mg/L	0.005 U	-
Ethylbenzene	mg/L	0.005 U	-
Methylene chloride	mg/L	0.005 U	-
Styrene	mg/L	0.005 U	-
Tetrachloroethene	mg/L	0.005 U	-
Toluene	mg/L	0.005 U	-
trans-1,3-Dichloropropene	mg/L	0.005 U	-
Trichloroethene	mg/L	0.005 U	-
Vinyl acetate	mg/L	0.01 U	-
Vinyl chloride	mg/L	0.01 U	-
Xylene (total)	mg/L	0.005 U	-

Volatile Organic Compounds - SPLP

1,1,1-Trichloroethane	mg/L	-	0.005 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.005 U
1,1,2-Trichloroethane	mg/L	-	0.005 U
1,1-Dichloroethane	mg/L	-	0.005 U
1,1-Dichloroethene	mg/L	-	0.005 U
1,2-Dichloroethane	mg/L	-	0.005 U
1,2-Dichloroethene (total)	mg/L	-	0.005 U
1,2-Dichloropropane	mg/L	-	0.005 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	0.01 U
2-Hexanone	mg/L	-	0.01 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	0.01 U
Acetone	mg/L	-	0.006 JB
Benzene	mg/L	-	0.005 U
Bromodichloromethane	mg/L	-	0.005 U
Bromoform	mg/L	-	0.005 U
Bromomethane (Methyl Bromide)	mg/L	-	0.01 U
Carbon disulfide	mg/L	-	0.005 U
Carbon tetrachloride	mg/L	-	0.005 U
Chlorobenzene	mg/L	-	0.005 U

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location:
Sample Name:
Sample Date:

Former MW-015
MW-15-WG
4/15/1988

Former MW-015
MW-015-WG
7/27/1988

<i>Parameters:</i>	<i>Units</i>		
Chloroethane	mg/L	-	0.01 U
Chloroform (Trichloromethane)	mg/L	-	0.005 U
Chloromethane (Methyl Chloride)	mg/L	-	0.01 U
cis-1,3-Dichloropropene	mg/L	-	0.005 U
Dibromochloromethane	mg/L	-	0.005 U
Ethylbenzene	mg/L	-	0.005 U
Methylene chloride	mg/L	-	0.005 U
Styrene	mg/L	-	0.005 U
Tetrachloroethane	mg/L	-	0.005 U
Toluene	mg/L	-	0.005 U
trans-1,3-Dichloropropene	mg/L	-	0.005 U
Trichloroethane	mg/L	-	0.005 U
Vinyl acetate	mg/L	-	0.01 U
Vinyl chloride	mg/L	-	0.01 U
Xylene (total)	mg/L	-	0.005 U

Semi-Volatile Organic Compounds

1,2,4-Trichlorobenzene	mg/L	0.01 U	-
1,2-Dichlorobenzene	mg/L	0.01 U	-
1,3-Dichlorobenzene	mg/L	0.01 U	-
1,4-Dichlorobenzene	mg/L	0.01 U	-
2,2'-oxybis(1-Chloropropene) (bis(2-chloroisopropyl) ether)	mg/L	0.01 U	-
2,4,5-Trichlorophenol	mg/L	0.05 U	-
2,4,6-Trichlorophenol	mg/L	0.01 U	-
2,4-Dichlorophenol	mg/L	0.01 U	-
2,4-Dimethylphenol	mg/L	0.01 U	-
2,4-Dinitrophenol	mg/L	0.05 U	-
2,4-Dinitrotoluene	mg/L	0.01 U	-
2,6-Dinitrotoluene	mg/L	0.01 U	-
2-Chloronaphthalene	mg/L	0.01 U	-
2-Chlorophenol	mg/L	0.01 U	-
2-Methylnaphthalene	mg/L	0.01 U	-
2-Methylphenol	mg/L	0.01 U	-
2-Nitroaniline	mg/L	0.05 U	-
2-Nitrophenol	mg/L	0.01 U	-
3,3'-Dichlorobenzidine	mg/L	0.02 U	-
3-Nitroaniline	mg/L	0.05 U	-
4,6-Dinitro-2-methylphenol	mg/L	0.05 U	-
4-Bromophenyl phenyl ether	mg/L	0.01 U	-
4-Chloro-3-methylphenol	mg/L	0.01 U	-
4-Chloroaniline	mg/L	0.01 U	-
4-Chlorophenyl phenyl ether	mg/L	0.01 U	-
4-Methylphenol	mg/L	0.01 U	-
4-Nitroaniline	mg/L	0.05 U	-
4-Nitrophenol	mg/L	0.05 U	-
Acenaphthene	mg/L	0.01 U	-
Acenaphthylene	mg/L	0.01 U	-
Anthracene	mg/L	0.01 U	-
Benzo(a)anthracene	mg/L	0.01 U	-
Benzo(a)pyrene	mg/L	0.01 U	-
Benzo(b)fluoranthene	mg/L	0.01 U	-
Benzo(g,h,i)perylene	mg/L	0.01 U	-
Benzo(k)fluoranthene	mg/L	0.01 U	-
Benzoic acid	mg/L	0.05 U	-
Benzyl Alcohol	mg/L	0.01 U	-
bis(2-Chloroethoxy)methane	mg/L	0.01 U	-
bis(2-Chloroethyl)ether	mg/L	0.01 U	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location:
Sample Name:
Sample Date:

Former MW-015
MW-15-WG
4/15/1988

Former MW-015
MW-015-WG
7/27/1988

<i>Parameters:</i>	<i>Units</i>		
bis(2-Ethylhexyl)phthalate	mg/L	0.01 U	-
Butyl benzylphthalate	mg/L	0.01 U	-
Chrysene	mg/L	0.01 U	-
Dibenz(a,h)anthracene	mg/L	0.01 U	-
Dibenzofuran	mg/L	0.01 U	-
Diethyl phthalate	mg/L	0.01 U	-
Dimethyl phthalate	mg/L	0.01 U	-
Di-n-butylphthalate	mg/L	0.01 U	-
Di-n-octyl phthalate	mg/L	0.01 U	-
Fluoranthene	mg/L	0.01 U	-
Fluorene	mg/L	0.01 U	-
Hexachlorobenzene	mg/L	0.01 U	-
Hexachlorobutadiene	mg/L	0.01 U	-
Hexachlorocyclopentadiene	mg/L	0.01 U	-
Hexachloroethane	mg/L	0.01 U	-
Indeno(1,2,3-cd)pyrene	mg/L	0.01 U	-
Isophorone	mg/L	0.01 U	-
Naphthalene	mg/L	0.01 U	-
Nitrobenzene	mg/L	0.01 U	-
N-Nitrosodi-n-propylamine	mg/L	0.01 U	-
N-Nitrosodiphenylamine	mg/L	0.01 U	-
Pentachlorophenol	mg/L	0.05 U	-
Phenanthrene	mg/L	0.01 U	-
Phenol	mg/L	0.01 U	-
Pyrene	mg/L	0.01 U	-

Metals

Chromium Total	mg/L	-	0.173
Chromium Total (Dissolved)	mg/L	0.020 U	-
Copper	mg/L	-	0.434
Copper (Dissolved)	mg/L	0.020 U	-
Lead	mg/L	-	0.14
Lead (Dissolved)	mg/L	0.004 U	-
Nickel	mg/L	-	0.305
Nickel (Dissolved)	mg/L	0.021	-
Zinc	mg/L	-	1.05
Zinc (Dissolved)	mg/L	0.010 U	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location:	Former MW-016	Former MW-016
Sample Name:	MW-16-WG	GMC-MW-014
Sample Date:	4/15/1988	7/27/1988

Parameters:	Units

Volatile Organic Compounds

1,1,1-Trichloroethane	mg/L	0.005 U	-
1,1,2,2-Tetrachloroethane	mg/L	0.005 U	-
1,1,2-Trichloroethane	mg/L	0.005 U	-
1,1-Dichloroethane	mg/L	0.005 U	-
1,1-Dichloroethene	mg/L	0.007	-
1,2-Dichloroethane	mg/L	0.005 U	-
1,2-Dichloroethene (total)	mg/L	0.79	-
1,2-Dichloropropane	mg/L	0.005 U	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.01 U	-
2-Hexanone	mg/L	0.01 U	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.01 U	-
Acetone	mg/L	0.01 U	-
Benzene	mg/L	0.005 U	-
Bromodichloromethane	mg/L	0.005 U	-
Bromoform	mg/L	0.005 U	-
Bromomethane (Methyl Bromide)	mg/L	0.01 U	-
Carbon disulfide	mg/L	0.005 U	-
Carbon tetrachloride	mg/L	0.005 U	-
Chlorobenzene	mg/L	0.005 U	-
Chloroethane	mg/L	0.01 U	-
Chloroform (Trichloromethane)	mg/L	0.005 U	-
Chloromethane (Methyl Chloride)	mg/L	0.01 U	-
cis-1,3-Dichloropropene	mg/L	0.005 U	-
Dibromochloromethane	mg/L	0.005 U	-
Ethylbenzene	mg/L	0.09	-
Methylene chloride	mg/L	0.005 U	-
Styrene	mg/L	0.005 U	-
Tetrachloroethene	mg/L	0.005 U	-
Toluene	mg/L	0.044	-
trans-1,3-Dichloropropene	mg/L	0.005 U	-
Trichloroethene	mg/L	7	-
Vinyl acetate	mg/L	0.01 U	-
Vinyl chloride	mg/L	0.82	-
Xylene (total)	mg/L	0.78	-

Volatile Organic CompoundsS

1,1,1-Trichloroethane	mg/L	-	0.005 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.005 U
1,1,2-Trichloroethane	mg/L	-	0.005 U
1,1-Dichloroethane	mg/L	-	0.005 U
1,1-Dichloroethene	mg/L	-	0.011
1,2-Dichloroethane	mg/L	-	0.005 U
1,2-Dichloroethene (total)	mg/L	-	1.8 D
1,2-Dichloropropane	mg/L	-	0.005 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	0.01 U
2-Hexanone	mg/L	-	0.01 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	0.01 U
Acetone	mg/L	-	0.007 JB
Benzene	mg/L	-	0.005 U
Bromodichloromethane	mg/L	-	0.005 U
Bromoform	mg/L	-	0.005 U
Bromomethane (Methyl Bromide)	mg/L	-	0.01 U
Carbon disulfide	mg/L	-	0.005 U
Carbon tetrachloride	mg/L	-	0.005 U
Chlorobenzene	mg/L	-	0.005 U

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:
Sample Name:
Sample Date:

*Former MW-016
MW-16-WG
4/15/1988* *Former MW-016
GMC-MW-014
7/27/1988*

<i>Parameters:</i>	<i>Units</i>		
Chloroethane	mg/L	-	0.01 U
Chloroform (Trichloromethane)	mg/L	-	0.005 U
Chloromethane (Methyl Chloride)	mg/L	-	0.01 U
cis-1,3-Dichloropropene	mg/L	-	0.005 U
Dibromochloromethane	mg/L	-	0.005 U
Ethylbenzene	mg/L	-	0.005 U
Methylene chloride	mg/L	-	0.005 U
Styrene	mg/L	-	0.005 U
Tetrachloroethane	mg/L	-	0.005 U
Toluene	mg/L	-	0.005 U
trans-1,3-Dichloropropene	mg/L	-	0.005 U
Trichloroethane	mg/L	-	1.8 D
Vinyl acetate	mg/L	-	0.01 U
Vinyl chloride	mg/L	-	1.5 D
Xylene (total)	mg/L	-	0.005 U

Semi-Volatile Organic Compounds

1,2,4-Trichlorobenzene	mg/L	0.01 U	-
1,2-Dichlorobenzene	mg/L	0.01 U	-
1,3-Dichlorobenzene	mg/L	0.01 U	-
1,4-Dichlorobenzene	mg/L	0.01 U	-
2,2'-oxybis(1-Chloropropene) (bis(2-chloroisopropyl) ether)	mg/L	0.01 U	-
2,4,5-Trichlorophenol	mg/L	0.05 U	-
2,4,6-Trichlorophenol	mg/L	0.01 U	-
2,4-Dichlorophenol	mg/L	0.01 U	-
2,4-Dimethylphenol	mg/L	0.01 U	-
2,4-Dinitrophenol	mg/L	0.05 U	-
2,4-Dinitrotoluene	mg/L	0.01 U	-
2,6-Dinitrotoluene	mg/L	0.01 U	-
2-Chloronaphthalene	mg/L	0.01 U	-
2-Chlorophenol	mg/L	0.01 U	-
2-Methylnaphthalene	mg/L	0.01 U	-
2-Methylphenol	mg/L	0.01 U	-
2-Nitroaniline	mg/L	0.05 U	-
2-Nitrophenol	mg/L	0.01 U	-
3,3'-Dichlorobenzidine	mg/L	0.02 U	-
3-Nitroaniline	mg/L	0.05 U	-
4,6-Dinitro-2-methylphenol	mg/L	0.05 U	-
4-Bromophenyl phenyl ether	mg/L	0.01 U	-
4-Chloro-3-methylphenol	mg/L	0.01 U	-
4-Chloroaniline	mg/L	0.01 U	-
4-Chlorophenyl phenyl ether	mg/L	0.01 U	-
4-Methylphenol	mg/L	0.01 U	-
4-Nitroaniline	mg/L	0.05 U	-
4-Nitrophenol	mg/L	0.05 U	-
Acenaphthene	mg/L	0.01 U	-
Acenaphthylene	mg/L	0.01 U	-
Anthracene	mg/L	0.01 U	-
Benzo(a)anthracene	mg/L	0.01 U	-
Benzo(a)pyrene	mg/L	0.01 U	-
Benzo(b)fluoranthene	mg/L	0.01 U	-
Benzo(g,h,i)perylene	mg/L	0.01 U	-
Benzo(k)fluoranthene	mg/L	0.01 U	-
Benzoic acid	mg/L	0.05 U	-
Benzyl Alcohol	mg/L	0.01 U	-
bis(2-Chloroethoxy)methane	mg/L	0.01 U	-
bis(2-Chloroethyl)ether	mg/L	0.01 U	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location:
Sample Name:
Sample Date:

Former MW-016
MW-16-WG
4/15/1988

Former MW-016
GMC-MW-014
7/27/1988

<i>Parameters:</i>	<i>Units</i>		
bis(2-Ethylhexyl)phthalate	mg/L	0.01 U	-
Butyl benzylphthalate	mg/L	0.01 U	-
Chrysene	mg/L	0.01 U	-
Dibenz(a,h)anthracene	mg/L	0.01 U	-
Dibenzofuran	mg/L	0.01 U	-
Diethyl phthalate	mg/L	0.01 U	-
Dimethyl phthalate	mg/L	0.01 U	-
Di-n-butylphthalate	mg/L	0.01 U	-
Di-n-octyl phthalate	mg/L	0.01 U	-
Fluoranthene	mg/L	0.01 U	-
Fluorene	mg/L	0.01 U	-
Hexachlorobenzene	mg/L	0.01 U	-
Hexachlorobutadiene	mg/L	0.01 U	-
Hexachlorocyclopentadiene	mg/L	0.01 U	-
Hexachloroethane	mg/L	0.01 U	-
Indeno(1,2,3-cd)pyrene	mg/L	0.01 U	-
Isophorone	mg/L	0.01 U	-
Naphthalene	mg/L	0.01 U	-
Nitrobenzene	mg/L	0.01 U	-
N-Nitrosodi-n-propylamine	mg/L	0.01 U	-
N-Nitrosodiphenylamine	mg/L	0.01 U	-
Pentachlorophenol	mg/L	0.05 U	-
Phenanthrene	mg/L	0.01 U	-
Phenol	mg/L	0.01 U	-
Pyrene	mg/L	0.01 U	-

Metals

Chromium Total	mg/L	-	0.124
Chromium Total (Dissolved)	mg/L	0.020 U	-
Copper	mg/L	-	1.14
Copper (Dissolved)	mg/L	0.020 U	-
Lead	mg/L	-	0.049
Lead (Dissolved)	mg/L	0.004 U	-
Nickel	mg/L	-	0.206
Nickel (Dissolved)	mg/L	0.042	-
Zinc	mg/L	-	1.22
Zinc (Dissolved)	mg/L	0.090	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	OW-1	OW-1	OW-1	OW-1	OW-1	OW-1	OW-1	OW-1
Sample Name:	86-03512	86-05634	86-05634	86-07823	86-09700	20076	23218	25967
Sample Date:	4/8/1986	6/17/1986	6/18/1986	9/4/1986	11/12/1986	3/31/1987	6/16/1987	8/25/1987

Parameters: Units

Volatile Organic Compounds

1,1,1-Trichloroethane	mg/L	0.005 U	0.005 U	-	0.005 U	0.005 U	U	U	U
1,1,2,2-Tetrachloroethane	mg/L	0.005 U	-	-	-	-	U	U	U
1,1,2-Trichloroethane	mg/L	0.005 U	-	-	-	-	U	U	U
1,1-Dichloroethane	mg/L	0.005 U	-	-	-	-	U	U	U
1,1-Dichloroethene	mg/L	0.005 U	-	-	-	-	U	U	U
1,2-Dichloroethane	mg/L	0.005 U	-	-	-	-	U	U	U
1,2-Dichloropropane	mg/L	0.005 U	-	-	-	-	U	U	U
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	0.05 U	U	0.05 U
2-Chloroethyl vinyl ether	mg/L	0.005 U	-	-	-	-	U	U	U
Acrolein	mg/L	0.005 U	-	-	-	-	U	U	U
Acrylonitrile	mg/L	0.005 U	-	-	-	-	U	U	U
Benzene	mg/L	0.005 U	-	-	-	-	U	U	U
Bromodichloromethane	mg/L	0.005 U	-	-	-	-	U	U	U
Bromoform	mg/L	0.005 U	-	-	-	-	U	U	U
Bromomethane (Methyl Bromide)	mg/L	0.005 U	-	-	-	-	U	U	U
Carbon tetrachloride	mg/L	0.005 U	-	-	-	-	U	U	U
Chlorobenzene	mg/L	0.005 U	-	-	-	-	U	U	U
Chloroethane	mg/L	0.005 U	-	-	-	-	U	U	U
Chloroform (Trichloromethane)	mg/L	0.005 U	-	-	0.005 U	-	U	U	U
Chloromethane (Methyl Chloride)	mg/L	0.005 U	-	-	-	-	U	U	U
cis-1,3-Dichloropropene	mg/L	0.005 U	-	-	-	-	U*	U*	U*
Dibromochloromethane	mg/L	0.005 U	-	-	-	-	U	U	U
Di-n-octyl phthalate	mg/L	-	-	-	-	-	-	0.001 U	0.001 U
Ethylbenzene	mg/L	0.005 U	-	-	-	-	U	U	U
Formaldehyde	mg/L	0.05 U	0.05 U	-	0.05 U	0.05 U	-	0.1 U	1 U
Isobutyl alcohol	mg/L	-	-	-	-	-	-	0.5 U	0.1 U
Methylene chloride	mg/L	0.005 U	0.005 U	-	0.035	0.005 U	U	U	U
Tetrachloroethene	mg/L	0.005 U	-	-	-	-	U	U	U
Toluene	mg/L	0.005 U	-	-	-	-	U	U	U
trans-1,2-Dichloroethene	mg/L	0.005 U	-	-	-	-	U	U	U
trans-1,3-Dichloropropene	mg/L	0.005 U	-	-	-	-	-	-	-
Trichloroethene	mg/L	0.005 U	0.005 U	-	0.005 U	0.005 U	U	U	U
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	U	U	U
Vinyl chloride	mg/L	0.005 U	-	-	-	-	U	U	U

Metals

Aluminum	mg/L	-	-	-	-	-	21	33	18
Aluminum (Dissolved)	mg/L	0.56	-	0.04	0.13	0.4	-	-	-
Arsenic	mg/L	-	-	-	-	-	0.018	0.018	0.009
Arsenic (Dissolved)	mg/L	0.002 U	-	0.03 U	0.001	0.001 U	-	-	-
Barium (Dissolved)	mg/L	0.09	-	0.04	0.01 U	0.03	0.12	0.18	0.12
Cadmium	mg/L	-	-	-	-	-	0.02 U	0.01 U	0.01 U
Cadmium (Dissolved)	mg/L	0.01 U	-	0.01 U	0.01 U	0.01 U	-	-	-
Chromium III (Trivalent)	mg/L	-	-	-	-	-	0.02 U	0.09	0.06
Chromium III (Trivalent) (Dissolved)	mg/L	0.01 U	-	0.01 U	0.01 U	0.01 U	-	-	-
Chromium Total	mg/L	-	-	-	-	-	0.02 U	-	0.06
Chromium Total (Dissolved)	mg/L	0.01 U	-	0.01 U	0.01 U	0.01 U	-	-	-
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	0.05 U	0.05 U	0.05 U
Chromium VI (Hexavalent) (Dissolved)	mg/L	0.02 U	-	0.02 U	0.02 U	0.01 U	-	-	-
Copper	mg/L	-	-	-	-	-	0.04	-	0.02
Copper (Dissolved)	mg/L	0.01	-	0.01 U	0.01 U	0.01 U	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	0.02 U	0.02 U	0.04
Iron	mg/L	-	-	-	-	-	42	60	31
Iron (Dissolved)	mg/L	0.98	-	0.5	0.18	0.29	-	-	-
Lead	mg/L	-	-	-	-	-	0.05 U	0.05 U	0.22
Lead (Dissolved)	mg/L	0.01 U	-	0.01	0.01 U	0.01 U	-	-	-
Magnesium	mg/L	-	-	-	-	-	31	36	30
Magnesium (Dissolved)	mg/L	24	-	66	18	18	-	-	-
Manganese	mg/L	-	-	-	-	-	0.69	1	0.56
Manganese (Dissolved)	mg/L	0.26	-	0.29	0.19	0.18	-	-	-
Mercury	mg/L	-	-	-	-	-	0.0005 U	0.0005 U	0.0005 U
Mercury (Dissolved)	mg/L	0.001 U	-	0.001 U	0.0005 U	0.0005 U	-	-	-
Nickel	mg/L	-	-	-	-	-	0.04	0.06	0.03
Nickel (Dissolved)	mg/L	0.01	-	0.01 U	0.01 U	0.01 U	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>OW-1</i>	<i>OW-1</i>	<i>OW-1</i>	<i>OW-1</i>	<i>OW-1</i>	<i>OW-1</i>	<i>OW-1</i>	<i>OW-1</i>
<i>Sample Name:</i>		86-03512	86-05634	86-05634	86-07823	86-09700	20076	23218	25967
<i>Sample Date:</i>		4/8/1986	6/17/1986	6/18/1986	9/4/1986	11/12/1986	3/31/1987	6/16/1987	8/25/1987
<i>Parameters:</i>	<i>Units</i>								
Selenium	mg/L	-	-	-	-	-	0.005 U	0.005 U	0.005 U
Selenium (Dissolved)	mg/L	0.001 U	-	0.04 U	0.001 U	0.001 U	-	-	-
Silver	mg/L	-	-	-	-	-	0.02 U	0.02 U	0.02 U
Silver (Dissolved)	mg/L	0.01 U	-	0.01 U	0.01 U	0.01 U	-	-	-
Sodium	mg/L	-	-	-	-	-	28	33	31
Sodium (Dissolved)	mg/L	22	-	34	20	23	-	-	-
Zinc	mg/L	-	-	-	-	-	0.09	0.13	0.06
Zinc (Dissolved)	mg/L	0.01 U	-	0.05	0.01	0.01 U	-	-	-
<i>Pesticides</i>									
2,4,5-TP (Silvex)	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	-	0.01 U	0.01 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	-	0.1 U	0.1 U
Endrin	mg/L	0.00001 U	0.00001 U	-	0.00001 U	0.00001 U	-	0.0002 U	0.0002 U
gamma-BHC (Lindane)	mg/L	0.00001 U	0.00001 U	-	0.00001 U	0.00001 U	-	0.004 U	0.004 U
Methoxychlor	mg/L	0.0001 U	0.0001 U	-	0.0001 U	0.0001 U	-	0.1 U	0.1 U
Toxaphene	mg/L	0.0005 U	0.0005 U	-	0.0005 U	0.005 U	-	0.005 U	0.005 U
<i>Bio</i>									
Total Coliform Bacteria	cfu/100mL	-	4	-	20 U	62	-	1 U	2 U
<i>Radiology</i>									
Gross Alpha Analytes	pci/L	0.9	3.3	-	3	2.0	-	2 U	2 U
Gross Beta Analytes	pci/L	3	2.0	-	9	8	-	3.1	5
Radium	pci/L	-	-	-	2.0	0.3	-	1.0	3
Radium-226	pci/L	0.7	1.3	-	-	-	-	-	-
<i>General Chemistry</i>									
Chloride	mg/L	10	-	12	8	10	11	12	10
Fluoride	mg/L	0.11	-	0.18	0.28	0.25	0.25	0.18	0.21
Nitrate (as N)	mg/L	3.7	-	0.02	0.04	0.02	0.02 U	0.02 U	0.02
Nitrite (as N)	mg/L	0.01	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	0.004 U	-	0.004 U	0.005 U	0.005 U	0.002 U	0.003	0.006
Sulfate	mg/L	109	-	157	36	39	84	98	64
Total Organic Carbon (2)	mg/L	31	-	6	5	5.9	6	3	17
Total Organic Carbon (3)	mg/L	30	-	12	5	12	6	3	16
Total Organic Carbon (4)	mg/L	27	-	10	6	6.5	6	3	16
Total Organic Carbon (TOC)	mg/L	32	-	7	4.5	5.6	6	3	17
Total Organic Halides (2)	mg/L	0.008	-	0.018	0.008	0.019	0.00054	0.018	0.01 U
Total Organic Halides (3)	mg/L	0.005	-	0.015	0.008	0.022	0.00053	0.017	0.01 U
Total Organic Halides (4)	mg/L	0.005	-	0.007	0.01	0.011	0.00024	0.017	0.01 U
Total Organic Halides (TOX)	mg/L	0.005	-	0.007	0.019	0.016	0.00047	0.017	0.01 U
Turbidity	NTU	0.25	-	0.28	1.3	0.6	-	14	30
<i>Field Parameters</i>									
Conductivity Field	mmhos/cm	0.631	-	0.690	0.643	0.668	1.07	0.900	0.750
Conductivity Field (2)	mmhos/cm	0.632	-	0.748	0.646	0.577	1.08	0.920	0.750
Conductivity Field (3)	mmhos/cm	0.634	-	0.691	0.636	0.503	1.08	0.920	0.750
Conductivity Field (4)	mmhos/cm	0.646	-	0.833	0.650	0.541	1.08	0.930	0.755
pH Field	S.U.	8.0	-	8.1	7.9	8.1	6.97	7.15	7.10
pH Field (2)	S.U.	8.0	-	7.8	7.2	8.1	7.01	7.25	6.90
pH Field (3)	S.U.	7.9	-	8.0	7.9	8.1	7.02	7.30	7.00
pH Field (4)	S.U.	7.9	-	8.0	7.8	8.1	7.02	7.22	7.00

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01
Sample Name:	FBE-1	FBE-1	FBE-1	FBE-1	FBE-1	P-01	84-24674A	84-24674B	84-24674C	84-24674D	84-24894A	84-24894B	84-24894C	84-24894D	25438	P-1	7635	27839	
Sample Date:	1/26/1982	5/5/1982	8/24/1982	11/16/1982	5/13/1983	11/23/1983	4/18/1984	4/18/1984	4/18/1984	4/18/1984	5/8/1984	5/8/1984	5/8/1984	5/8/1984	5/30/1984	10/17/1984	10/18/1984	11/7/1984	
Parameters:	Units																		
Volatile Organic Compounds																			
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U*	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Di-n-octyl phthalate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Formaldehyde	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals																			
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2 U	-	-	-	0.03 U
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01
Sample Name:		FBE-1	FBE-1	FBE-1	FBE-1	FBE-1	P-01	84-24674A	84-24674B	84-24674C	84-24674D	84-24894A	84-24894B	84-24894C	84-24894D	25438	P-1	P-01	P-01
Sample Date:		1/26/1982	5/5/1982	8/24/1982	11/16/1982	5/13/1983	11/23/1983	4/18/1984	4/18/1984	4/18/1984	4/18/1984	5/8/1984	5/8/1984	5/8/1984	5/8/1984	5/30/1984	10/17/1984	10/18/1984	11/7/1984
Parameters:	Units																		
Arsenic (Dissolved)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	0.48	0.1 U	0.1 U	0.1 U	-	-	-	-	-	-	-	-	-	-	0.2 U	-	-	1 U
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	0.003	0.002 U	0.004	0.002 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (Trivalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (Trivalent) (Dissolved)	mg/L	-	-	-	-	0.02 U	0.02 U	-	-	-	-	-	-	-	-	-	-	0.02	-
Chromium Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total (Dissolved)	mg/L	0.01	0.02	0.02	0.01 U	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	0.03 U
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	0.02 U	0.02 U	-	-	-	-	-	-	-	-	0.01 U(###)	-	0.012	0.01 U(###)
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	0.02 U	0.02 U	-	-	-	-	-	-	-	-	0.01 U	-	0.062	0.01 U
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (Dissolved)	mg/L	0.14	0.38	0.55	0.22	0.1 U	0.1 U	-	-	-	-	-	-	-	-	0.017	-	28	1
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	0.03	0.01 U	0.03	0.01 U	-	-	-	-	-	-	-	-	-	-	0.026	-	-	0.06
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58	-	-	88
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (Dissolved)	mg/L	0.03 U	0.12	0.21	0.33	0.38	0.82	-	-	-	-	-	-	-	-	0.019	-	0.448	0.36
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (Dissolved)	mg/L	-	-	-	-	0.02 U	0.02 U	-	-	-	-	-	-	-	-	0.01 U	-	0.027	0.02 U
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	0.008	0.005 U	0.005 U	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	0.002	0.002 U	0.002 U	0.002 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium (Dissolved)	mg/L	0.5	0.91	1.08	1.65	2.84	3.17	-	-	-	-	-	-	-	-	56	-	51.2	98
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	0.02 U	0.33	-	-	-	-	-	-	-	-	0.01 U	-	0.185	0.01 U
Pesticides																			
2,4,5-TP (Silvex)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bio																			
Total Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radiology																			
Gross Alpha Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium-226	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																			
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	10 U	10 U	10 U	10 U	10 U	10 U	-	-	-	-	-	-	-	-	44	-	80.9	2
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	0.11	0.2	0.15	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01
Sample Name:		FBE-1	FBE-1	FBE-1	FBE-1	FBE-1	P-01	84-24674A	84-24674B	84-24674C	84-24674D	84-24894A	84-24894B	84-24894C	84-24894D	25438	P-1	7635	27839
Sample Date:		1/26/1982	5/5/1982	8/24/1982	11/16/1982	5/13/1983	11/23/1983	4/18/1984	4/18/1984	4/18/1984	4/18/1984	5/8/1984	5/8/1984	5/8/1984	5/8/1984	5/30/1984	10/17/1984	10/18/1984	11/7/1984
Parameters:	Units																		
Nitrate (as N)	mg/L	0.2 U	0.3	0.2	0.2 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (Average)	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-	-	-	-	-	-	0.01 U	-	0.01 U	0.01 U
Sulfate	mg/L	235	268	292	289	295	325	-	268	-	-	-	325	-	-	380	-	91	370
Sulfates	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field	deg F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Coliform Bacteria	/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-	1 U	1 U	-	-	-	-	-	-	-	-	6	-	-	7
Total Organic Carbon (3)	mg/L	-	-	-	-	1 U	1 U	-	-	-	-	-	-	-	-	6	-	-	8
Total Organic Carbon (4)	mg/L	-	-	-	-	1 U	1 U	-	-	-	-	-	-	-	-	5	-	-	8
Total Organic Carbon (TOC)	mg/L	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-	-	-	-	6	-	11.6	7
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	0.1 U	0.1 U	-	-	-	-	-	-	-	-	0.046	-	-	0.061
Total Organic Halides (3)	mg/L	-	-	-	-	0.1 U	0.1 U	-	-	-	-	-	-	-	-	0.069	-	-	0.014
Total Organic Halides (4)	mg/L	-	-	-	-	0.1 U	0.1 U	-	-	-	-	-	-	-	-	0.038	-	-	0.039
Total Organic Halides (TOX)	mg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	-	-	-	-	-	-	-	-	0.067	-	0.1	0.046
Turbidity	NTU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																			
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	1.600	1.450	1.600	1.650	1.60	1.500	660	-	-	-	1450	-	-	-	1.080	-	1.625	1.19
Conductivity Field (2)	mmhos/cm	1.550	1.450	1.625	1.575	1.65	1.550	-	670	-	-	-	1450	-	-	0.930	-	-	1.19
Conductivity Field (3)	mmhos/cm	1.600	1.400	1.625	1.575	1.575	1.555	-	-	670	-	-	-	1460	-	0.940	-	-	1.19
Conductivity Field (4)	mmhos/cm	1.625	1.400	1.600	1.625	1.60	1.600	-	-	-	670	-	-	-	1460	0.940	-	-	1.20
pH Field	S.U.	7.05	6.71	6.85	7.21	6.91	6.91	10.8	-	-	-	6.8	-	-	-	6.8	-	6.9	6.6
pH Field (2)	S.U.	7.05	6.70	6.88	7.24	6.91	6.91	-	10.8	-	-	-	6.8	-	-	6.8	-	-	6.6
pH Field (3)	S.U.	7.05	6.75	6.84	7.22	6.93	6.96	-	-	10.8	-	-	-	6.8	-	6.8	-	-	6.6
pH Field (4)	S.U.	7.10	6.71	6.92	7.20	6.92	6.93	-	-	-	10.8	-	-	-	6.8	6.9	-	-	6.6
Temperature, Field	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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3/2/2007

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01
Sample Name:		P-01	30896	09/136422	12/142827	86-03508	86-05630	86-07820	86-09696	20074	23214	25965	P-1	P-1	47721	48344	P-01	P-01
Sample Date:		1/14/1985	6/28/1985	9/12/1985	12/18/1985	4/8/1986	6/17/1986	9/3/1986	11/12/1986	3/31/1987	6/16/1987	8/25/1987	12/15/1987	3/22/1988	6/28/1988	8/31/1988	12/29/1988	1/20/1989
Parameters:	Units																	
Arsenic (Dissolved)	mg/L	-	-	-	-	0.002 U	0.03 U	0.001 U	0.001 U	-	-	-	-	-	0.5 U	0.05 U	0.05 U	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	-	1 U	0.05 U	1.9	0.1	0.06	0.03	0.03	0.05 U	0.05 U	0.07	-	-	0.5 U	0.43	0.2 U	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.01 U	0.01 U	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	-	0.01 U	0.01 U	0.01 U	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	260	202	260	-
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (Trivalent)	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.05 U	0.02 U	-	-	-	-	-	-
Chromium III (Trivalent) (Dissolved)	mg/L	-	-	0.02 U	0.05	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.02 U	0.02 U	-	-	0.03 U	0.03 U	0.03 U	-
Chromium Total (Dissolved)	mg/L	-	0.024	-	0.05	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	-	-	-	-	0.03 U
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	0.05 U	0.05 U	0.05 U	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	0.01 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.01 U	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U
Copper	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.02 U	0.03	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	0.14	0.15	0.1	0.01	0.01	0.01 U	0.01 U	-	-	-	-	-	0.01 U	0.02	0.01 U	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.02 U	0.02	-	-	0.01 U	0.01 U	0.01 U	-
Iron	mg/L	-	-	-	-	-	-	-	-	3	2.2	5.4	0.39	1.0	0.64	0.64	0.66	-
Iron (Dissolved)	mg/L	-	1.7	1.1	22	0.47	0.12	0.3	0.56	-	-	-	-	-	-	-	-	0.44
Lead	mg/L	-	-	-	-	-	-	-	-	0.05 U	0.05 U	0.05 U	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	0.087	0.05 U	0.09	0.01	0.01	0.01 U	0.01 U	-	-	-	-	-	0.02 U	0.02 U	0.02 U	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	58	55	62	-	-	-	-	50	-
Magnesium (Dissolved)	mg/L	-	40	33	50	53	124	60	53	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	0.27	0.27	0.3	-	-	0.28	0.28	0.22	-
Manganese (Dissolved)	mg/L	-	0.2	0.25	0.46	0.36	0.36	0.33	0.25	-	-	-	-	-	-	-	-	0.26
Mercury	mg/L	-	-	-	-	-	-	-	-	0.0005 U	0.0005 U	0.0005 U	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	-	-	-	-	0.001 U	0.001 U	0.0005 U	0.0005 U	-	-	-	-	-	0.0002 U	0.0002 U	0.0002 U	-
Nickel	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.02 U	0.02 U	-	-	0.01 U	0.022	0.01 U	-
Nickel (Dissolved)	mg/L	-	0.045	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	0.005 U	0.005 U	0.005 U	-	0.071	-	-	-	-
Selenium (Dissolved)	mg/L	-	-	-	-	0.001	0.04 U	0.001 U	0.001 U	-	-	-	-	-	0.01 U	0.01 U	0.01 U	-
Silver	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.02 U	0.02 U	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	-	0.02 U	0.02 U	0.02 U	-
Sodium	mg/L	-	-	-	-	-	-	-	-	66	47	72	-	-	51	78	110	-
Sodium (Dissolved)	mg/L	-	75	99	6.9	82	78	74	68	-	-	-	-	-	-	-	-	81
Zinc	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.02 U	0.02	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	0.23	0.32	0.13	0.01 U	0.25	0.01	0.01 U	-	-	-	-	-	0.01 U	0.01 U	0.01 U	-
Pesticides																		
2,4,5-TP (Silvex)	mg/L	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	-	0.01 U	0.01 U	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	-	0.1 U	0.1 U	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	0.00001 U	0.00001 U	0.00001 U	0.00001 U	-	0.00002 U	0.00002 U	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	0.00001 U	0.00001 U	0.00001 U	0.00001 U	-	0.0004 U	0.0004 U	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	0.0001 U	0.0001 U	0.0001 U	0.0001 U	-	0.1 U	0.1 U	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	0.0005 U	0.0005 U	0.0005 U	0.005 U	-	0.005 U	0.005 U	-	-	-	-	-	-
Bio																		
Total Coliform Bacteria	cfu/100mL	-	-	-	-	-	4	20 U	15	-	10	310	-	-	-	-	-	-
Radiology																		
Gross Alpha Analytes	pci/L	-	-	-	-	7.6	0.1 U	2	4.3	-	15.2	6	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	10	2.0	3	11	-	15.3	12	-	-	-	-	-	-
Radium	pci/L	-	-	-	-	-	-	1.1	0.5	-	2.4	8	-	-	-	-	-	-
Radium-226	pci/L	-	-	-	-	2.2	2.7	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																		
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	120	140	41	76	68	82	42	21	28	44	-	-	37	30	8	1 U
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-	-	-	-	-	1500	1450	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	-	-	-	-	0.11	0.2	0.18	1	0.26	0.21	0.18	-	-	0.19	0.214	0.21	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>
<i>Sample Name:</i>	<i>P-01</i>	<i>30896</i>	<i>09/136422</i>	<i>12/142827</i>	<i>86-03508</i>	<i>86-05630</i>	<i>86-07820</i>	<i>86-09696</i>	<i>20074</i>	<i>23214</i>	<i>25965</i>	<i>P-1</i>	<i>P-1</i>	<i>P-01</i>	<i>48344</i>	<i>P-01</i>	<i>P-01</i>
<i>Sample Date:</i>	<i>1/14/1985</i>	<i>6/28/1985</i>	<i>9/12/1985</i>	<i>12/18/1985</i>	<i>4/8/1986</i>	<i>6/17/1986</i>	<i>9/3/1986</i>	<i>11/12/1986</i>	<i>3/31/1987</i>	<i>6/16/1987</i>	<i>8/25/1987</i>	<i>12/15/1987</i>	<i>3/22/1988</i>	<i>6/28/1988</i>	<i>8/31/1988</i>	<i>12/29/1988</i>	<i>1/20/1989</i>
<i>Parameters:</i>	<i>Units</i>																
Nitrate (as N)	mg/L	-	-	-	-	5	0.02	0.02	0.02	0.02 U	0.02 U	0.02 U	-	-	0.05	0.15	0.1
Nitrite (as N)	mg/L	-	-	-	-	0.01 U	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (Average)	s.u.	-	-	-	-	-	-	-	-	-	-	6.56	7.1	-	-	-	-
Phenolics (Total)	mg/L	-	0.041	0.004	0.22	0.004 U	0.004 U	0.02	0.005 U	0.002 U	0.004	0.005	-	-	0.021	0.01 U	0.01 U
Sulfate	mg/L	-	221	29	310	425	371	322	293	270	260	240	-	-	450	220	528
Sulfates	mg/L	-	-	-	-	-	-	-	-	-	-	-	321	300	-	-	-
Temperature, Field	deg F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Coliform Bacteria	/100mL	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-
Total Organic Carbon (2)	mg/L	1 U	4	1 U	11	30	8.5	8	15	10	8	9	-	-	6	7	10
Total Organic Carbon (3)	mg/L	1 U	5	1 U	10	25	9	8.5	12	10	8	9	-	-	7	5	13
Total Organic Carbon (4)	mg/L	1 U	5	1 U	10	24	12	7	17	10	8	9	-	-	6	7	14
Total Organic Carbon (TOC)	mg/L	1 U	6	2	12	28	7	7.8	14	10	8	13	43	5.75	6	7	9
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	0.1 U	0.48	0.24	0.06	0.018	0.017	0.019	0.034	0.01 U	0.013	0.01 U	-	-	0.03 U	0.03 U	0.07
Total Organic Halides (3)	mg/L	0.1 U	0.68	0.3	0.04	0.014	0.03	0.012	0.045	0.01 U	0.01 U	0.01 U	-	-	0.03 U	0.03 U	0.07
Total Organic Halides (4)	mg/L	0.1 U	0.48	0.35	0.06	0.02	0.027	0.01	0.031	0.01 U	0.01 U	0.01 U	-	-	0.03	0.03 U	0.08
Total Organic Halides (TOX)	mg/L	0.1 U	0.38	0.23	0.04	0.018	0.017	0.019	0.033	0.01 U	0.01	0.01 U	0.190	0.019	0.03	0.03	0.06
Turbidity	NTU	-	-	-	-	0.15	0.20	2.7	0.8	-	20	95	-	-	-	-	-
<i>Field Parameters</i>																	
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	1.550	0.810	1.400	1.500	1.532	1.626	1.693	1.246	0.952	1.370	1.425	-	-	1.460	1.46	1.6
Conductivity Field (2)	mmhos/cm	1.600	0.800	1.400	1.600	1.583	1.396	1.706	1.437	0.959	1.380	1.425	-	-	1.470	1.47	1.6
Conductivity Field (3)	mmhos/cm	1.600	0.810	1.400	1.600	1.542	1.646	0.644	1.407	0.968	1.390	1.425	-	-	1.460	1.47	1.6
Conductivity Field (4)	mmhos/cm	1.575	0.800	1.400	1.600	1.643	1.646	1.706	1.273	0.968	1.380	1.400	-	-	1.470	1.47	1.6
pH Field	S.U.	6.61	7.4	7.1	7.2	7.3	7.1	7.7	7.9	6.45	6.80	6.80	-	-	7.08	6.9	7.1
pH Field (2)	S.U.	6.60	7.4	7.2	7.2	7.3	7.6	7.1	7.6	6.5	6.78	6.75	-	-	7.07	6.9	7.1
pH Field (3)	S.U.	6.61	7.4	7.2	7.2	7.4	7.1	7.0	7.8	6.49	6.80	6.75	-	-	7.07	6.9	7.1
pH Field (4)	S.U.	6.61	7.4	7.2	7.2	7.2	7.1	7.3	7.8	6.5	6.79	6.75	-	-	7.08	6.9	7.1
Temperature, Field	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	8.6	-	-
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	8.6	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	8.5	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	8.5	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01
Sample Name:	8906G827-003	8911G190-003	5	20	38	59	77	78	113	P-01	GW-1F	GW-1	P-01	P-01	P-01	P-01	P-01	
Sample Date:	5/31/1989	11/21/1989	2/21/1990	7/27/1990	8/14/1990	2/21/1991	5/30/1991	8/8/1991	10/21/1991	10/21/1991	1/22/1992	1/23/1992	5/20/1992	8/13/1992	11/24/1992	3/15/1993	7/21/1993	

Parameters: **Units**

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
Formaldehyde	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Metals

Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.119	0.1 U	0.1 U	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 K

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01
Sample Name:		8906G827-003	8911G190-003	5	20	38	59	77	78	113	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01
Sample Date:		5/31/1989	11/21/1989	2/21/1990	7/27/1990	8/14/1990	2/21/1991	5/30/1991	8/8/1991	10/21/1991	10/21/1991	1/22/1992	1/23/1992	5/20/1992	8/13/1992	11/24/1992	3/15/1993	7/21/1993
Parameters:	Units																	
Arsenic (Dissolved)	mg/L	-	0.004 U	-	-	-	-	-	-	-	-	-	-	0.1 U	0.1 U	0.1 U	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	-	0.05 U	-	-	-	-	-	-	-	-	-	-	0.029	0.052	0.032	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	0.004 U	-	-	-	-	-	-	-	-	-	0.01 U	0.005 U	0.005 U	0.005 U	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	250	164	236	153	-	-
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (Trivalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (Trivalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	0.01 U	-	-	0.01 U	-	-	-	-	-	0.02 U	-	-	-	-	0.01 K
Chromium Total (Dissolved)	mg/L	-	0.02 U	-	-	-	-	-	-	-	-	-	0.02 U	0.01 U	0.01 U	0.01 U	-	-
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.02 U	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	0.02 U	0.02 U	0.01 U	-	-	0.01 U	-	-	-	-	-	0.02 U	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 K
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U	0.01 U	0.01 U	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.02 U	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.801
Iron (Dissolved)	mg/L	0.41	0.55	0.829	-	-	0.366	-	-	-	-	-	-	0.197	0.465	0.23	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.003 K
Lead (Dissolved)	mg/L	-	0.002 U	-	-	-	-	-	-	-	-	-	-	0.005 U	0.005 U	0.003 U	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	59	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	47.5	69	44.9	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.246
Manganese (Dissolved)	mg/L	0.32	0.33	0.379	-	-	0.254	-	-	-	-	-	-	0.195	0.29	0.18	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	-	0.0002 U	-	-	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.04 U	-	-	-	0.01 U	0.02 K
Nickel (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.04 U	0.02 U	0.02 U	0.02 U	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	-	-	2 K
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	2 U	2.22	2 U	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	0.002 U	-	-	-	-	-	-	-	-	-	-	0.005 U	0.005 U	0.005 U	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	0.03 U	-	-	-	-	-	-	-	-	-	-	0.01 U	0.01 U	0.01 U	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	68	-	-	-	-	41.3
Sodium (Dissolved)	mg/L	61.5	68.7	85.4	-	-	33.3	-	-	-	-	-	-	28.4	69.4	29.1	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.02 U	0.057	0.02 U	-	-
Pesticides																		
2,4,5-TP (Silvex)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bio																		
Total Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radiology																		
Gross Alpha Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium-226	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																		
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	640	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	2 U	-	-	-	-	-
Chloride	mg/L	34	59.2	59.6	-	-	14.4	-	-	-	-	-	65	27.3	17.4	14.3	79.8	20.6
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01
Sample Name:	8906G827-003	8911G190-003	5	20	38	59	77	78	113	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01
Sample Date:	5/31/1989	11/21/1989	2/21/1990	7/27/1990	8/14/1990	2/21/1991	5/30/1991	8/8/1991	10/21/1991	10/21/1991	1/22/1992	1/23/1992	5/20/1992	8/13/1992	11/24/1992	3/15/1993	7/21/1993	
Parameters:	Units																	
Nitrate (as N)	mg/L	-	0.05 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (Average)	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	0.006	0.01 U	0.04 U	-	-	0.5 U	-	-	-	-	-	0.067 U	0.067 U	0.067 U	-	0.067 K	-
Sulfate	mg/L	296	318	317	-	-	202	-	-	-	-	240	228	131	214	243	207	-
Sulfates	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field	deg F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Coliform Bacteria	/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	5.1	5.5	6.8	9.58	4.4	10.5	11	7.98	6.16	-	-	6.3	7.24	5.94	5.22	-	5.09
Total Organic Carbon (3)	mg/L	5	5.4	6.98	9.59	4.46	10.8	10	8.85	6.2	-	-	6.3	7.14	5.93	5.25	-	4.02
Total Organic Carbon (4)	mg/L	5.1	5.6	7.09	1.01	4.49	10.9	10	8.21	6.16	-	-	6.3	7.05	5.87	5.27	-	4.06
Total Organic Carbon (TOC)	mg/L	5.2	5.7	7.13	9.47	4.26	9.21	12	8.22	6.12	-	-	6.3	7.39	5.98	5.22	-	5.56
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	6.1	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	0.006	0.01 U	0.0202	0.011	0.009	0.03	0.01 U	0.03 U	-	-	-	0.03	0.01 U	0.05	0.01 U	-	0.01 K
Total Organic Halides (3)	mg/L	0.01	0.012	0.0253	0.018	0.011	0.03	0.01 U	0.05	-	-	-	0.035	0.01 U	0.07	0.01	-	0.01 K
Total Organic Halides (4)	mg/L	0.009	0.01 U	0.0274	0.012	0.02	0.02	0.01 U	0.03	-	-	-	0.1	0.01 U	0.06	0.01 U	-	0.02
Total Organic Halides (TOX)	mg/L	0.007	0.01 U	0.0203	U	0.007	0.03	0.01 U	0.03 U	-	-	-	0.053	0.02 U	0.06	0.01 U	-	0.01
Turbidity	NTU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																		
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	1.39	1.54	1.41	1.8	1.51	1.46	-	1.59	1.83	-	-	1.336	1.38	1.72	1.56	-	1.01
Conductivity Field (2)	mmhos/cm	1.40	1.55	1.41	1.8	1.49	1.45	-	1.58	1.82	-	-	1.363	1.40	1.71	1.542	-	0.95
Conductivity Field (3)	mmhos/cm	1.40	1.54	1.40	1.8	1.49	1.45	-	1.58	1.82	-	-	1.360	1.39	1.71	1.538	-	0.94
Conductivity Field (4)	mmhos/cm	1.40	1.54	1.41	1.8	1.5	1.45	-	1.57	1.82	-	-	1.360	1.41	1.72	1.561	-	0.964
pH Field	S.U.	7.06	7.05	6.79	6.78	7.37	7.12	7.85	7.38	-	6.78	-	6.75	6.98	6.97	7.38	-	6.75
pH Field (2)	S.U.	7.06	7.03	6.81	6.79	7.42	7.10	7.89	7.42	-	6.70	-	6.81	6.90	6.95	7.31	-	6.72
pH Field (3)	S.U.	7.07	7.02	6.78	6.8	7.39	7.11	7.71	7.46	-	6.81	-	6.87	7.01	6.93	7.25	-	6.96
pH Field (4)	S.U.	7.07	7.00	6.78	7.09	7.41	7.11	6.45	7.46	-	6.70	-	6.93	7.00	6.93	7.20	-	6.74
Temperature, Field	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01
Sample Name:	P-01	P-01	P-01	E90446	E98148	E107736	E113028	E121677	E128389	E134494	E141423	E146573	E152691	E160166	E165451	E171012	E176111	E183286
Sample Date:	10/15/1993	12/20/1993	3/29/1994	6/20/1994	9/22/1994	12/28/1994	3/20/1995	6/27/1995	9/27/1995	12/14/1995	4/5/1996	6/11/1996	8/27/1996	11/23/1996	2/26/1997	5/27/1997	8/19/1997	11/24/1997
Parameters:	Units																	
Volatile Organic Compounds																		
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Formaldehyde	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals																		
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	0.01 K	-	0.001 U	-	0.001 U	-	0.001 U	-	0.001 U	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01
Sample Name:		P-01	P-01	P-01	E90446	E98148	E107736	E113028	E121677	E128389	E134494	E141423	E146573	E152691	E160166	E165451	E171012	E176111	E183286
Sample Date:		10/15/1993	12/20/1993	3/29/1994	6/20/1994	9/22/1994	12/28/1994	3/20/1995	6/27/1995	9/27/1995	12/14/1995	4/5/1996	6/11/1996	8/27/1996	11/23/1996	2/26/1997	5/27/1997	8/19/1997	11/24/1997
Parameters:	Units																		
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (Trivalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (Trivalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	1.12	-	-	-	0.75	-	-	-	0.84 MS MD	-	-	-	1.27	-	-
Iron (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	0.003 K	-	0.001 U	-	0.001 U	-	0.001 U	-	0.0048	-	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	0.29	-	-	-	0.26	-	-	-	0.26	-	-	-	0.3	-	-
Manganese (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	0.02 K	0.02 K	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Nickel (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	2 K	-	1.5	-	1.4	-	1.5	-	1.6	-	-	-	-	-	-	-	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	77	-	-	-	58	-	-	-	64	-	-	-	51	-	-
Sodium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides																			
2,4,5-TP (Silvex)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bio																			
Total Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radiology																			
Gross Alpha Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium-226	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																			
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	54.8	60.4	-	56	75	45	58	33	84	83	61	69	62	67	56	50	54	86
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>
<i>Sample Name:</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>E90446</i>	<i>E98148</i>	<i>E107736</i>	<i>E113028</i>	<i>E121677</i>	<i>E128389</i>	<i>E134494</i>	<i>E141423</i>	<i>E146573</i>	<i>E152691</i>	<i>E160166</i>	<i>E165451</i>	<i>E171012</i>	<i>E176111</i>	<i>E183286</i>
<i>Sample Date:</i>	<i>10/15/1993</i>	<i>12/20/1993</i>	<i>3/29/1994</i>	<i>6/20/1994</i>	<i>9/22/1994</i>	<i>12/28/1994</i>	<i>3/20/1995</i>	<i>6/27/1995</i>	<i>9/27/1995</i>	<i>12/14/1995</i>	<i>4/5/1996</i>	<i>6/11/1996</i>	<i>8/27/1996</i>	<i>11/23/1996</i>	<i>2/26/1997</i>	<i>5/27/1997</i>	<i>8/19/1997</i>	<i>11/24/1997</i>
<i>Parameters:</i>	<i>Units</i>																	
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (Average)	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	-	-	0.01	-	-	0.01 U	-	-	-	0.01 U	-	-	-	0.01 U	-	-
Sulfate	mg/L	239	260	-	281	299	260	255	217	238	231	236	230	230	200	198	172	177
Sulfates	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field	deg F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Coliform Bacteria	/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	6.14	-	6.5	-	4.5	-	5.9	-	9.2	-	5.8	-	5.1	-	4.9	6.5
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	-	0.035	-	0.01 U	-	0.01 U	-	0.01 U	-	0.014	-	0.01 U	-	0.01 U	-	0.022	0.01 U SI
Turbidity	NTU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Field Parameters</i>																		
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	1.183	1.57	2.71	2.100	1.275	1.200	1.100	-	1.104	1.018	1.179	1.103	0.99	0.851	1.177	0.903	1.365
Conductivity Field (2)	mmhos/cm	1.60	1.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	1.53	1.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	1.59	1.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	S.U.	6.53	6.98	6.65	5.99	6.26	7.48	7.44	-	6.88	6.64	6.73	6.71	6.72	6.66	7.03	6.92	6.68
pH Field (2)	S.U.	6.52	6.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (3)	S.U.	6.53	6.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (4)	S.U.	6.53	6.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field	Deg C	-	-	-	16	14	9.8	13.7	-	15.8	10.7	-	14	16.6	10.3	10.4	13	10.1
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>
<i>Sample Name:</i>	E189229	E196370	E210904	E215997	E222106	E222117	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01
<i>Sample Date:</i>	2/25/1998	5/13/1998	11/9/1998	2/3/1999	5/6/1999	5/6/1999	11/15/1999	2/3/2000	5/3/2000	8/31/2000	11/2/2000	2/15/2001	5/1/2001	8/14/2001	8/14/2001	292309	2/5/2002
<i>Parameters:</i>	<i>Units</i>																
<i>Volatile Organic Compounds</i>						<i>Duplicate</i>											
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Formaldehyde	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Metals</i>																	
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01
Sample Name:		E189229	E196370	E210904	E215997	E222106	E222117	P-01	P-01	P-01	P-01	P-01	P-01	271741	277758	285474	285480	292309
Sample Date:		2/25/1998	5/13/1998	11/9/1998	2/3/1999	5/6/1999	5/6/1999	11/15/1999	2/3/2000	5/3/2000	8/31/2000	11/2/2000	2/13/2001	5/1/2001	8/14/2001	8/14/2001	11/6/2001	2/5/2002
Parameters:	Units						Duplicate										Duplicate	
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (Trivalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (Trivalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	-	-	-	-	-	-	0.05 U	-	-	-	-	-	-	-	-
Chromium Total (Dissolved)	mg/L	-	-	-	-	-	-	-	-	0.05 U	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	0.05 U	-	-	-	-	-	-	-	-
Iron	mg/L	-	0.94	-	-	0.61	-	-	-	1.35	-	-	-	0.88	-	-	-	-
Iron (Dissolved)	mg/L	-	-	-	-	-	-	-	-	1.09	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	0.26	-	-	0.23	-	-	-	0.27	-	-	-	0.26	-	-	-	-
Manganese (Dissolved)	mg/L	-	-	-	-	-	-	-	-	0.29	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	-	0.01 U	0.01 U	0.01 U	0.01 U	0.047 DJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Nickel (Dissolved)	mg/L	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	1.6	-	-	-	1.3	-	-	-	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	1.6	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	61	-	-	75	-	-	-	94	-	-	-	79	-	-	-	-
Sodium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	99	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides																		
2,4,5-TP (Silvex)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bio																		
Total Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radiology																		
Gross Alpha Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium-226	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																		
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	61	61	106	120	111	-	149	140	119	115	116	102	84	88	91	131	131
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	P-01	
Sample Name:		E189229	E196370	E210904	E215997	E222106	E222117	P-01	P-01	P-01	P-01	P-01	P-01	271741	277758	285474	285480	292309	P-01
Sample Date:		2/25/1998	5/13/1998	11/9/1998	2/3/1999	5/6/1999	5/6/1999	11/15/1999	2/3/2000	5/3/2000	8/31/2000	11/2/2000	2/15/2001	5/1/2001	8/14/2001	8/14/2001	11/6/2001	2/5/2002	
Parameters:	Units						Duplicate									Duplicate			
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.280	
pH Field (Average)	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenolics (Total)	mg/L	-	0.01 U	-	-	0.01 U	-	-	-	0.01 U	-	-	-	0.01 U	-	-	-	-	
Sulfate	mg/L	172	178	175	193	181	-	172	211	210	264	197	181	191	173	197	218	213	
Sulfates	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Temperature, Field	deg F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.8	
Total Coliform Bacteria	/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Organic Carbon (TOC)	mg/L	-	5.5	7.9	-	7.5	7.3	12	-	9.8	-	12	-	8.4	-	-	9	-	
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Organic Halides (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Organic Halides (TOX)	mg/L	-	0.01 U SI	0.01 U	-	0.01 U	-	0.01 U	-	0.01 U	-	0.015 U	-	0.01 U	-	-	0.013	-	
Turbidity	NTU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Field Parameters																			
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.730	
Conductivity Field	mmhos/cm	1.567	1.66	1.646	1.600	1.261	-	1.373	1.251	1.705	1.402	1.493	-	-	-	-	-	-	
Conductivity Field (2)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Conductivity Field (3)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Conductivity Field (4)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH Field	S.U.	7.1	6.84	6.75	6.30	6.64	-	6.63	6.61	6.71	6.55	6.64	-	-	-	-	-	-	
pH Field (2)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH Field (3)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH Field (4)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Temperature, Field	Deg C	11.4	13.4	11	12.4	14.4	-	10.9	10.8	12.9	15.9	15.0	-	-	-	-	-	-	
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

<i>Sample Location:</i>	<i>P-01</i>	<i>P-01</i>	<i>P-01</i>
<i>Sample Name:</i>	W-12616-38-121503-DEN-09	W-12616-38-121603-ACL-016	W-12616-012104-DEN-13S
<i>Sample Date:</i>	12/15/2003	12/16/2003	1/21/2004

Parameters: *Units*

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	mg/L	0.001 U	-	-
1,1,1-Trichloroethane	mg/L	0.001 U	-	-
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	-	-
1,1,2-Trichloroethane	mg/L	0.001 U	-	-
1,1-Dichloroethane	mg/L	0.001 U	-	-
1,1-Dichloroethene	mg/L	0.001 U	-	-
1,2,3-Trichloropropane	mg/L	0.001 U	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.002 U	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.001 U	-	-
1,2-Dichloroethane	mg/L	0.001 U	-	-
1,2-Dichloropropane	mg/L	0.001 U	-	-
1,4-Dioxane	mg/L	0.2 U	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.01 U	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-
2-Hexanone	mg/L	0.01 U	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.01 U	-	-
Acetone	mg/L	0.01 U	-	-
Acetonitrile	mg/L	0.02 U	-	-
Acrolein	mg/L	0.02 U	-	-
Acrylonitrile	mg/L	0.02 U	-	-
Allyl chloride	mg/L	0.002 U	-	-
Benzene	mg/L	0.001 U	-	-
Bromodichloromethane	mg/L	0.001 U	-	-
Bromoform	mg/L	0.001 U	-	-
Bromomethane (Methyl Bromide)	mg/L	0.001 U	-	-
Carbon disulfide	mg/L	0.001 U	-	-
Carbon tetrachloride	mg/L	0.001 U	-	-
Chlorobenzene	mg/L	0.001 U	-	-
Chloroethane	mg/L	0.001 U	-	-
Chloroform (Trichloromethane)	mg/L	0.001 U	-	-
Chloromethane (Methyl Chloride)	mg/L	0.001 U	-	-
Chloroprene	mg/L	0.002 U	-	-
cis-1,3-Dichloropropene	mg/L	0.001 U	-	-
Dibromochloromethane	mg/L	0.001 U	-	-
Dibromomethane	mg/L	0.001 U	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	-	-
Di-n-octyl phthalate	mg/L	-	-	-
Ethyl methacrylate	mg/L	0.001 U	-	-
Ethylbenzene	mg/L	0.001 U	-	-
Formaldehyde	mg/L	-	-	-
Iodomethane	mg/L	0.001 U	-	-
Isobutyl alcohol	mg/L	0.05 U	-	-
m&p-Xylene	mg/L	-	-	-
Methyl acrylonitrile	mg/L	0.002 U	-	-
Methyl methacrylate	mg/L	0.002 U	-	-
Methylene chloride	mg/L	0.001 U	-	-
o-Xylene	mg/L	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	0.004 U	-	-
Styrene	mg/L	0.001 U	-	-
Tetrachloroethene	mg/L	0.001 U	-	-
Toluene	mg/L	0.001 U	-	-
trans-1,2-Dichloroethene	mg/L	0.001 U	-	-
trans-1,3-Dichloropropene	mg/L	0.001 U	-	-
trans-1,4-Dichloro-2-butene	mg/L	0.001 U	-	-
Trichloroethene	mg/L	0.001 U	-	-
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	-	-
Vinyl acetate	mg/L	0.002 U	-	-
Vinyl chloride	mg/L	0.0056	-	0.001 U
Xylene (total)	mg/L	0.002 U	-	-

Metals

Aluminum	mg/L	-	-	-
Aluminum (Dissolved)	mg/L	-	-	-
Arsenic	mg/L	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-01</i>	<i>P-01</i>	<i>P-01</i>
<i>Sample Name:</i>		<i>W-12616-38-121503-DEN-09</i>	<i>W-12616-38-121603-ACL-016</i>	<i>W-12616-012104-DEN-13S</i>
<i>Sample Date:</i>		<i>12/15/2003</i>	<i>12/16/2003</i>	<i>1/21/2004</i>
<i>Parameters:</i>	<i>Units</i>			
Arsenic (Dissolved)	mg/L	-	-	-
Barium	mg/L	0.059 J	-	0.033 J
Barium (Dissolved)	mg/L	0.060 J	-	0.045 J
Cadmium	mg/L	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-
Calcium	mg/L	190	-	-
Calcium (Dissolved)	mg/L	191	-	-
Chromium III (Trivalent)	mg/L	-	-	-
Chromium III (Trivalent) (Dissolved)	mg/L	-	-	-
Chromium Total	mg/L	0.010 U	-	-
Chromium Total (Dissolved)	mg/L	0.010 U	-	-
Chromium VI (Hexavalent)	mg/L	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-
Copper	mg/L	-	-	-
Copper (Dissolved)	mg/L	-	-	-
Cyanide (total)	mg/L	-	-	-
Iron	mg/L	0.17	-	-
Iron (Dissolved)	mg/L	0.19	-	-
Lead	mg/L	-	-	-
Lead (Dissolved)	mg/L	-	-	-
Magnesium	mg/L	53.1	-	-
Magnesium (Dissolved)	mg/L	53.1	-	-
Manganese	mg/L	0.17	-	-
Manganese (Dissolved)	mg/L	0.18	-	-
Mercury	mg/L	-	-	-
Mercury (Dissolved)	mg/L	-	-	-
Nickel	mg/L	0.0036 J	-	0.0039 J
Nickel (Dissolved)	mg/L	0.0028 J	-	0.0041 J
Potassium	mg/L	1.4 J	-	-
Potassium (Dissolved)	mg/L	1.4 J	-	-
Selenium	mg/L	-	-	-
Selenium (Dissolved)	mg/L	-	-	-
Silver	mg/L	-	-	-
Silver (Dissolved)	mg/L	-	-	-
Sodium	mg/L	52.4	-	-
Sodium (Dissolved)	mg/L	56.8	-	-
Zinc	mg/L	-	-	-
Zinc (Dissolved)	mg/L	-	-	-
<i>Pesticides</i>				
2,4,5-TP (Silvex)	mg/L	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-
Endrin	mg/L	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-
Methoxychlor	mg/L	-	-	-
Toxaphene	mg/L	-	-	-
<i>Bio</i>				
Total Coliform Bacteria	cfu/100mL	-	-	-
<i>Radiology</i>				
Gross Alpha Analytes	pci/L	-	-	-
Gross Beta Analytes	pci/L	-	-	-
Radium	pci/L	-	-	-
Radium-226	pci/L	-	-	-
<i>General Chemistry</i>				
Alkalinity, Bicarbonate	mg/L	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-
Chloride	mg/L	34.4	-	-
Conductivity Field (Average)	umhos/cm	-	-	-
Cyanide (total)	mg/L	-	0.010 U	-
Fluoride	mg/L	-	-	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

<i>Sample Location:</i>		P-01	P-01	P-01
<i>Sample Name:</i>		W-12616-38-121503-DEN-09	W-12616-38-121603-ACL-016	W-12616-012104-DEN-13S
<i>Sample Date:</i>		12/15/2003	12/16/2003	1/21/2004
<i>Parameters:</i>				
	<i>Units</i>			
Nitrate (as N)	mg/L	-	-	-
Nitrite (as N)	mg/L	-	-	-
pH Field	s.u.	-	-	-
pH Field (Average)	s.u.	-	-	-
Phenolics (Total)	mg/L	-	-	-
Sulfate	mg/L	145	-	-
Sulfates	mg/L	-	-	-
Temperature, Field	deg F	-	-	-
Total Coliform Bacteria	/100mL	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-
Total Organic Carbon (TOC)	mg/L	-	-	-
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-
Total Organic Halides (2)	mg/L	-	-	-
Total Organic Halides (3)	mg/L	-	-	-
Total Organic Halides (4)	mg/L	-	-	-
Total Organic Halides (TOX)	mg/L	-	-	-
Turbidity	NTU	-	-	-
<i>Field Parameters</i>				
Conductivity	mmhos/cm	-	-	-
Conductivity Field	mmhos/cm	1.65	-	-
Conductivity Field (2)	mmhos/cm	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-
pH Field	S.U.	6.85	-	-
pH Field (2)	S.U.	-	-	-
pH Field (3)	S.U.	-	-	-
pH Field (4)	S.U.	-	-	-
Temperature, Field	Deg C	6.72	-	-
Temperature, Field (2)	Deg C	-	-	-
Temperature, Field (3)	Deg C	-	-	-
Temperature, Field (4)	Deg C	-	-	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location:	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T
Sample Name:	49911	8906GS27-004	8911G190-004	4	19	58	65	GW-1T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T
Sample Date:	1/20/1989	5/31/1989	11/21/1989	2/21/1990	7/27/1990	2/21/1991	5/30/1991	1/22/1992	5/20/1992	8/13/1992	11/24/1992	3/15/1993	7/21/1993	12/20/1993	3/29/1994	2/3/2000	5/3/2000

Parameters: Units

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Metals

Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	0.1 U	5.93	0.1 U	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.01 K	0.01 K	-	-	-
Arsenic (Dissolved)	mg/L	0.05 U	0.004 U	0.004 U	-	-	-	-	-	0.1 U	0.1 U	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	0.25	0.068	0.057	-	-	-	-	-	0.09	0.046	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T
Sample Name:	49911	8906GS27-004	8911G190-004	4	19	58	65	GW-1T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T
Sample Date:	1/20/1989	5/31/1989	11/21/1989	2/21/1990	7/27/1990	2/21/1991	5/30/1991	1/22/1992	5/20/1992	8/13/1992	11/24/1992	3/15/1993	7/21/1993	12/20/1993	3/29/1994	2/3/2000	5/3/2000
Parameters:																	
Units																	
Cadmium	mg/L	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-	-	-	0.01 U
Cadmium (Dissolved)	mg/L	0.01 U	0.004 U	0.004 U	-	-	-	0.01 U	-	0.005 U	0.005 U	-	-	-	-	-	0.01 U
Calcium	mg/L	-	-	-	-	-	-	210	-	960	184	-	-	-	-	-	-
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	-	0.01 U	-	0.01 U	0.03	-	-	-	-	-	-	-	-	0.05 U
Chromium Total (Dissolved)	mg/L	0.041	0.02 U	0.02 U	-	-	-	0.02 U	-	0.12	0.01 U	-	-	-	-	-	0.05 U
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	0.02 U	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	0.01 U	0.02 U	0.02 U	0.052	-	0.01 U	0.02 U	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	0.021	0.014	-	0.01 K	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	0.02 U	-	-	-	-	-	-	-	-	0.05 U
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.338	-	-	-	1.95
Iron (Dissolved)	mg/L	32	0.03 U	0.03 U	1.17	-	0.506	-	-	11.7	0.402	-	-	-	-	-	0.1 U
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.003 K	0.003 K	-	-	-
Lead (Dissolved)	mg/L	0.02 U	0.002 U	0.002 U	-	-	-	-	-	0.014	0.003 U	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	50	-	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	48.8	48.6	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.311	-	-	-	0.04
Manganese (Dissolved)	mg/L	1.4	0.62	0.42	0.387	-	0.187	-	-	0.231	0.02	-	-	-	-	-	0.01 U
Mercury (Dissolved)	mg/L	0.0002 U	0.0005 U	0.0002 U	-	-	-	-	-	0.001 U	0.001 U	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	0.04 U	-	-	-	0.01 U	0.027	0.02 K	-	0.02	0.01 U
Nickel (Dissolved)	mg/L	-	-	-	-	-	-	0.04 U	-	0.02 U	0.02 U	-	-	-	-	-	0.013
Potassium	mg/L	-	-	-	-	-	-	5.7	-	-	-	-	38.1	2 K	-	-	3.2
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	3	2 U	-	-	-	-	-	2.3
Selenium (Dissolved)	mg/L	0.01 U	0.002 U	0.002 U	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-
Silver (Dissolved)	mg/L	0.02 U	0.03 U	0.03 U	-	-	-	-	-	0.01 U	0.01 U	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	16	-	-	-	-	64.7	-	-	-	4.5
Sodium (Dissolved)	mg/L	42	20.8	18.1	14.7	-	18.8	-	-	24.3	15.9	-	-	-	-	-	4.8
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	0.087	0.02 U	-	-	-	-	-	-
General Chemistry																	
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	53	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	2 U	-	-	-	-	-	-	-	-	-
Chloride	mg/L	1 U	1 U	3	5.88	-	4.5	2.5	-	-	3.08	2.82	2.04	2.3	-	6.7	3
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	0.34	0.23	0.26	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	0.83	0.21	0.44	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	0.01 U	0.005 U	0.01 U	0.04 U	-	0.5 U	-	-	-	0.067 U	-	-	-	-	-	0.01 U
Sulfate	mg/L	130	192	179	200	-	185	120	-	-	136	136	115	145	-	130	87
Temperature, Field	deg F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	7	4.5	4.3	3.74	1.31	5.76	5.7	3.8	-	6.31	6.2	-	3.72	-	-	-
Total Organic Carbon (3)	mg/L	6	4.5	4.4	5.44	1.31	6.04	6.3	3.8	-	6.25	6.17	-	3.65	-	-	-
Total Organic Carbon (4)	mg/L	5	4.4	4.2	4.58	1.48	6.21	5.8	3.8	-	6.19	6.14	-	3.63	-	-	-
Total Organic Carbon (TOC)	mg/L	3	4.3	4.5	4.29	1.26	5.74	5.9	3.8	-	6.28	6.14	-	3.66	4.05	-	26
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	4.5	-	-	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	0.03 U	0.01	0.01 U	0.0111	0.013	0.2	0.01 U	0.016	-	0.04	0.01 U	-	0.1 K	-	-	-
Total Organic Halides (3)	mg/L	0.03 U	0.009	0.016	0.0206	0.018	0.09	0.01 U	0.005 U	-	0.09	0.01 U	-	0.02	-	-	-
Total Organic Halides (4)	mg/L	0.03 U	0.009	0.01 U	0.0215	0.037	0.14	0.01 U	0.016	-	0.02	0.01 U	-	0.01	-	-	-
Total Organic Halides (TOX)	mg/L	0.03 U	0.009	0.01 U	0.0148	0.008	0.14	0.01 U	0.005 U	-	0.06	0.01 U	-	0.01 K	0.01 K	-	0.015
Field Parameters																	
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	1.2	1.08	1.2	0.86	1.21	1.29	-	0.994	-	1.22	1.50	-	1.01	1.13	1.620	0.809
Conductivity Field (2)	mmhos/cm	1.2	1.08	1.21	0.85	1.21	1.30	-	0.962	-	1.23	1.492	-	0.95	1.09	-	-
Conductivity Field (3)	mmhos/cm	1.2	1.08	1.21	0.85	1.21	1.30	-	0.895	-	1.23	1.491	-	0.94	1.11	-	-
Conductivity Field (4)	mmhos/cm	1.2	1.07	1.22	0.86	1.1	1.30	-	0.962	-	1.22	1.49	-	0.964	1.11	-	-
pH Field	S.U.	7.3	7.24	7.37	7.02	7.38	7.13	6.60	6.91	-	6.68	7.7	-	6.75	6.99	7.01	6.74
pH Field (2)	S.U.	7.3	7.23	7.35	6.92	7.39	7.14	6.83	6.94	-	7.73	7.57	-	6.72	6.98	-	-
pH Field (3)	S.U.	7.3	7.21	7.33	6.88	7.38	7.15	6.86	7.19	-	6.78	7.47	-	6.96	6.99	-	-
pH Field (4)	S.U.	7.3	7.20	7.32	6.82	7.31	7.14	6.92	7.07	-	6.80	7.47	-	6.74	6.98	-	-
Temperature, Field	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.7	12.1

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location:	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T	P-01T
Sample Name:	P-01T	271748	277759	P-01T	W-12616-38-121503-DEN-08	W-12616-38-121603-ACL-017	W-12616-012104-DEN-12S
Sample Date:	8/31/2000	2/15/2001	5/1/2001	2/5/2002	12/15/2003	12/16/2003	1/21/2004

Parameters: Units

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	0.001 U	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	0.001 U	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	0.001 U	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	0.001 U	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	0.001 U	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	0.001 U	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	0.001 U	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	0.002 U	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	0.001 U	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	0.001 U	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	0.001 U	-	-
1,4-Dioxane	mg/L	-	-	-	-	0.2 U	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	0.01 U	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	0.01 U	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	0.01 U	-	-
Acetone	mg/L	-	-	-	-	0.01 U	-	-
Acetonitrile	mg/L	-	-	-	-	0.02 U	-	-
Acrolein	mg/L	-	-	-	-	0.02 U	-	-
Acrylonitrile	mg/L	-	-	-	-	0.02 U	-	-
Allyl chloride	mg/L	-	-	-	-	0.002 U	-	-
Benzene	mg/L	-	-	-	-	0.001 U	-	-
Bromodichloromethane	mg/L	-	-	-	-	0.001 U	-	-
Bromoform	mg/L	-	-	-	-	0.001 U	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	0.001 U	-	-
Carbon disulfide	mg/L	-	-	-	-	0.001 U	-	-
Carbon tetrachloride	mg/L	-	-	-	-	0.001 U	-	-
Chlorobenzene	mg/L	-	-	-	-	0.001 U	-	-
Chloroethane	mg/L	-	-	-	-	0.001 U	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	0.001 U	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	0.001 U	-	-
Chloroprene	mg/L	-	-	-	-	0.002 U	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	0.001 U	-	-
Dibromochloromethane	mg/L	-	-	-	-	0.001 U	-	-
Dibromomethane	mg/L	-	-	-	-	0.001 U	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	0.001 U	-	-
Ethyl methacrylate	mg/L	-	-	-	-	0.001 U	-	-
Ethylbenzene	mg/L	-	-	-	-	0.001 U	-	-
Iodomethane	mg/L	-	-	-	-	0.001 U	-	-
Isobutyl alcohol	mg/L	-	-	-	-	0.05 U	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	0.002 U	-	-
Methyl methacrylate	mg/L	-	-	-	-	0.002 U	-	-
Methylene chloride	mg/L	-	-	-	-	0.001 U	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	0.004 U	-	-
Styrene	mg/L	-	-	-	-	0.001 U	-	-
Tetrachloroethene	mg/L	-	-	-	-	0.001 U	-	-
Toluene	mg/L	-	-	-	-	0.001 U	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	0.001 U	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	0.001 U	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	0.001 U	-	-
Trichloroethene	mg/L	-	-	-	-	0.001 U	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	0.001 U	-	-
Vinyl acetate	mg/L	-	-	-	-	0.002 U	-	-
Vinyl chloride	mg/L	-	-	-	-	0.001 U	-	-
Xylene (total)	mg/L	-	-	-	-	0.002 U	-	-

Metals

Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	0.086 J	-	0.066 J
Barium (Dissolved)	mg/L	-	-	-	-	0.086 J	-	0.070 J

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>	<i>P-01T</i>	<i>P-01T</i>	<i>P-01T</i>	<i>P-01T</i>	<i>P-01T</i>	<i>P-01T</i>	<i>P-01T</i>
<i>Sample Name:</i>	<i>P-01T</i>	<i>271748</i>	<i>277759</i>	<i>P-01T</i>	<i>W-12616-38-121503-DEN-08</i>	<i>W-12616-38-121603-ACL-017</i>	<i>W-12616-012104-DEN-12S</i>
<i>Sample Date:</i>	<i>8/31/2000</i>	<i>2/15/2001</i>	<i>5/1/2001</i>	<i>2/5/2002</i>	<i>12/15/2003</i>	<i>12/16/2003</i>	<i>1/21/2004</i>

<i>Parameters:</i>	<i>Units</i>						
Cadmium	mg/L	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	202	-
Calcium (Dissolved)	mg/L	-	-	-	-	216	-
Chromium Total	mg/L	-	-	-	-	0.010 U	-
Chromium Total (Dissolved)	mg/L	-	-	-	-	0.010 U	-
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-
Iron	mg/L	-	-	1.14	-	0.057 J	-
Iron (Dissolved)	mg/L	-	-	-	-	0.10 U	-
Lead	mg/L	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	43.7	-
Magnesium (Dissolved)	mg/L	-	-	-	-	47.6	-
Manganese	mg/L	-	-	0.036	-	0.0075 J	-
Manganese (Dissolved)	mg/L	-	-	-	-	0.0016 J	-
Mercury (Dissolved)	mg/L	-	-	-	-	-	-
Nickel	mg/L	0.013	0.025	0.01 U	0.01 U	0.017 J	0.013 J
Nickel (Dissolved)	mg/L	-	-	-	-	0.014 J	0.013 J
Potassium	mg/L	-	-	2.2	-	2.0 J	-
Potassium (Dissolved)	mg/L	-	-	-	-	1.9 J	-
Selenium (Dissolved)	mg/L	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-
Sodium	mg/L	-	-	4.3	-	4.2 J	-
Sodium (Dissolved)	mg/L	-	-	-	-	5.3	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-

General Chemistry

Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-
Chloride	mg/L	3.2	24	4	4.4	3.8	-
Cyanide (total)	mg/L	-	-	-	-	0.010 U	-
Fluoride	mg/L	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-
pH Field	s.u.	-	-	-	7.580	-	-
Phenolics (Total)	mg/L	-	-	0.01	-	-	-
Sulfate	mg/L	96	106	114	106	83.4	-
Temperature, Field	deg F	-	-	-	8.6	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	-	17	-	-	-
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	-	-	0.01 U	-	-	-

Field Parameters

Conductivity	mmhos/cm	-	-	-	1.2	-	-
Conductivity Field	mmhos/cm	1.142	-	-	-	1.24	-
Conductivity Field (2)	mmhos/cm	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-	-	-	-
pH Field	S.U.	6.70	-	-	-	6.90	-
pH Field (2)	S.U.	-	-	-	-	-	-
pH Field (3)	S.U.	-	-	-	-	-	-
pH Field (4)	S.U.	-	-	-	-	-	-
Temperature, Field	Deg C	21.2	-	-	-	6.55	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02
Sample Name:	FBE-2	FBE-2	FBE-2	FBE-2	FBE-2	P-02	84-24676A	84-24676B	84-24676C	84-24676D	84-24895A	84-24895B	84-24895C	84-24895D	25439	P-2	7636	27840
Sample Date:	1/25/1982	5/5/1982	8/24/1982	11/16/1982	5/13/1983	11/23/1983	4/18/1984	4/18/1984	4/18/1984	4/18/1984	5/8/1984	5/8/1984	5/8/1984	5/8/1984	5/30/1984	10/17/1984	10/18/1984	11/7/1984
Parameters:	Units																	
Volatile Organic Compounds																		
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U*	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Di-n-octyl phthalate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Formaldehyde	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals																		
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03 U
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02
Sample Name:		FBE-2	FBE-2	FBE-2	FBE-2	FBE-2	P-02	84-24676A	84-24676B	84-24676C	84-24676D	84-24895A	84-24895B	84-24895C	84-24895D	25439	P-2	P-02	P-02
Sample Date:		1/25/1982	5/5/1982	8/24/1982	11/16/1982	5/13/1983	11/23/1983	4/18/1984	4/18/1984	4/18/1984	4/18/1984	5/8/1984	5/8/1984	5/8/1984	5/8/1984	5/30/1984	10/17/1984	10/18/1984	11/7/1984
Parameters:	Units																		
Arsenic (Dissolved)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	0.39	0.1 U	0.1 U	0.1 U	-	-	-	-	-	-	-	-	-	-	0.2 U	-	-	1 U
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	0.002	0.002 U	0.003	0.002 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (Trivalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (Trivalent) (Dissolved)	mg/L	-	-	-	-	0.02 U	0.02 U	-	-	-	-	-	-	-	-	-	-	0.058	-
Chromium Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total (Dissolved)	mg/L	0.03	0.01 U	0.01 U	0.01 U	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	0.03 U
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	0.02 U	0.02 U	-	-	-	-	-	-	-	-	0.01 U(###)	-	0.009	0.01 U(###)
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	0.02 U	0.02 U	-	-	-	-	-	-	-	-	0.01 U	-	0.044	0.01 U
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (Dissolved)	mg/L	0.16	0.32	0.46	0.34	0.1 U	0.1 U	-	-	-	-	-	-	-	-	0.05	-	56	0.76
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	0.02	0.01 U	0.02	0.01 U	-	-	-	-	-	-	-	-	-	-	0.019	-	-	0.02
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	42
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (Dissolved)	mg/L	0.03 U	0.1	0.23	0.41	0.23	0.58	-	-	-	-	-	-	-	-	0.44	-	1	0.39
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (Dissolved)	mg/L	-	-	-	-	0.02 U	0.02 U	-	-	-	-	-	-	-	-	0.018	-	0.078	0.03
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	0.006	0.005 U	0.005 U	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium (Dissolved)	mg/L	0.48	0.84	1.12	1.7	2.76	2.99	-	-	-	-	-	-	-	-	84	-	80.7	96
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	0.02 U	0.02 U	-	-	-	-	-	-	-	-	0.018	-	0.219	0.01 U
Pesticides																			
2,4,5-TP (Silvex)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bio																			
Total Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radiology																			
Gross Alpha Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium-226	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																			
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	10 U	10 U	10 U	10 U	10 U	10 U	-	-	-	-	-	-	-	-	21	-	44.8	2
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	0.1	0.2	0.16	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>
<i>Sample Name:</i>	<i>FBE-2</i>	<i>FBE-2</i>	<i>FBE-2</i>	<i>FBE-2</i>	<i>FBE-2</i>	<i>P-02</i>	<i>84-24676A</i>	<i>84-24676B</i>	<i>84-24676C</i>	<i>84-24676D</i>	<i>84-24895A</i>	<i>84-24895B</i>	<i>84-24895C</i>	<i>84-24895D</i>	<i>25439</i>	<i>P-2</i>	<i>7636</i>	<i>27840</i>
<i>Sample Date:</i>	<i>1/25/1982</i>	<i>5/5/1982</i>	<i>8/24/1982</i>	<i>11/16/1982</i>	<i>5/13/1983</i>	<i>11/23/1983</i>	<i>4/18/1984</i>	<i>4/18/1984</i>	<i>4/18/1984</i>	<i>4/18/1984</i>	<i>5/8/1984</i>	<i>5/8/1984</i>	<i>5/8/1984</i>	<i>5/8/1984</i>	<i>5/30/1984</i>	<i>10/17/1984</i>	<i>10/18/1984</i>	<i>11/7/1984</i>
<i>Parameters:</i>	<i>Units</i>																	
Nitrate (as N)	mg/L	0.2 U	0.2	0.2	0.2 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (Average)	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-	-	-	-	-	0.01 U	-	0.02	0.01 U
Sulfate	mg/L	218	188	191	195	184	250	-	-	-	-	-	-	-	190	-	195	190
Temperature, Field	deg F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-	1 U	1 U	-	-	-	-	-	-	-	2	-	-	2 U
Total Organic Carbon (3)	mg/L	-	-	-	-	1 U	1 U	-	-	-	-	-	-	-	3	-	-	2 U
Total Organic Carbon (4)	mg/L	-	-	-	-	1 U	1 U	-	-	-	-	-	-	-	2	-	-	2 U
Total Organic Carbon (TOC)	mg/L	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-	-	-	2 U	-	7	2 U
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	0.1 U	0.1 U	-	-	-	-	-	-	-	0.114	-	-	0.014
Total Organic Halides (3)	mg/L	-	-	-	-	0.1 U	0.1 U	-	-	-	-	-	-	-	0.084	-	-	0.015
Total Organic Halides (4)	mg/L	-	-	-	-	0.1 U	0.1 U	-	-	-	-	-	-	-	0.044	-	-	0.014
Total Organic Halides (TOX)	mg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	-	-	-	-	-	-	-	0.044	-	0.06	0.014
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Field Parameters</i>																		
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	1.150	1.200	1.425	1.100	1.200	1.300	860	-	-	-	1060	-	-	0.705	-	1.100	0.72
Conductivity Field (2)	mmhos/cm	1.175	1.150	1.400	1.150	1.250	1.350	-	860	-	-	-	1060	-	0.710	-	-	0.725
Conductivity Field (3)	mmhos/cm	1.150	1.150	1.375	1.150	1.175	1.255	-	-	870	-	-	-	1050	0.690	-	-	0.725
Conductivity Field (4)	mmhos/cm	1.175	1.150	1.400	1.150	1.175	1.275	-	-	-	860	-	-	-	0.660	-	-	0.720
pH Field	S.U.	7.30	6.75	6.92	7.21	7.30	6.95	7.0	-	-	-	7.3	-	-	7.3	-	7.3	7.1
pH Field (2)	S.U.	7.30	6.75	6.95	7.21	7.29	7.09	-	7.1	-	-	7.3	-	-	7.3	-	-	7.1
pH Field (3)	S.U.	7.25	6.77	7.01	7.20	7.29	7.09	-	7.1	-	-	-	7.3	-	7.3	-	-	7.1
pH Field (4)	S.U.	7.30	6.75	6.94	7.15	7.29	7.03	-	-	-	7.1	-	-	7.3	7.6	-	-	7.1
Temperature, Field	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02
Sample Name:	P-02	30.897	09/136426	12/142831	86-03509	86-05631	86-07821	86-09697	20075	23215	25966	P-2	47722	48345	P-02	P-02	P-02	P-02
Sample Date:	1/14/1985	6/28/1985	9/12/1985	12/18/1985	4/8/1986	6/17/1986	9/3/1986	11/12/1986	3/31/1987	6/16/1987	8/25/1987	12/15/1987	6/28/1988	8/31/1988	12/29/1988	1/20/1989	5/31/1989	

Parameters: Units

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	U	U	U	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	U	U	U	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	0.05 U	0.05 U	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	0.005 U	-	0.005 U	-	U	U	U	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	0.005 U	-	-	-	U*	U*	U*	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	mg/L	-	-	-	-	-	-	-	-	-	0.001 U	0.002	-	-	-	-	-	0.002
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-
Formaldehyde	mg/L	-	-	-	-	0.05 U	0.05 U	0.05 U	0.05 U	-	0.1 U	1 U	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-	-	0.5 U	0.1 U	-	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	0.005 U	0.006	0.042	0.012	U	U	U	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	U	U	U	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	U	U	U	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Metals

Aluminum	mg/L	-	-	-	-	-	-	-	-	0.39	1.5	1.5	-	0.28	0.14	0.24	-	-
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	0.39	1.5	1.5	-	0.281	0.14	0.24	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	0.005 U	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02
Sample Name:		P-02	30.897	09/136426	12/142831	86-03509	86-05631	86-07821	86-09697	20075	23215	25966	P-2	47722	48345	P-02	P-02	P-02
Sample Date:		1/14/1985	6/28/1985	9/12/1985	12/18/1985	4/8/1986	6/17/1986	9/3/1986	11/12/1986	3/31/1987	6/16/1987	8/25/1987	12/15/1987	6/28/1988	8/31/1988	12/29/1988	1/20/1989	5/31/1989
Parameters:	Units																	
Arsenic (Dissolved)	mg/L	-	-	-	-	0.002 U	0.03 U	0.001 U	0.001 U	-	-	-	-	0.05 U	0.05 U	0.05 U	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	-	1 U	0.05 U	0.78	0.1	0.06	0.03	0.04	0.05 U	0.06	0.06	-	0.5 U	0.054	0.2 U	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.01 U	0.01 U	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	0.01 U	0.01 U	0.01 U	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	160	63	120	-	-
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (Trivalent)	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.05 U	0.02 U	-	-	-	-	-	-
Chromium III (Trivalent) (Dissolved)	mg/L	-	-	0.02 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.02 U	0.02 U	-	0.03 U	0.03 U	0.03 U	-	-
Chromium Total (Dissolved)	mg/L	-	0.02 U	-	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	-	-	-	0.03 U	-
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	0.05 U	0.05 U	0.05 U	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	0.01 U	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.01 U	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U
Copper	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.02 U	0.02 U	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	0.022	0.02 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	0.01 U	0.013	0.01 U	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.02 U	0.03	-	0.01 U	0.01 U	0.13	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	0.82	3	2.5	-	0.42	0.42	0.38	-	-
Iron (Dissolved)	mg/L	-	1.5	8.5	1.5	0.22	0.13	0.12	0.23	-	-	-	-	-	-	-	1.5	0.03 U
Lead	mg/L	-	-	-	-	-	-	-	-	0.05 U	0.05 U	0.05 U	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	0.049	0.05 U	0.14	0.01 U	0.01	0.01 U	0.01 U	-	-	-	-	0.02 U	0.02 U	0.02 U	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	28	32	32	-	-	-	12	-	-
Magnesium (Dissolved)	mg/L	-	36	27	22	27	64	33	28	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	0.23	1	0.78	-	0.39	0.39	0.18	-	-
Manganese (Dissolved)	mg/L	-	0.37	0.65	0.61	0.42	0.53	0.53	0.36	-	-	-	-	-	-	-	0.4	0.67
Mercury	mg/L	-	-	-	-	-	-	-	-	0.0005 U	0.0005 U	0.0005 U	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	-	-	-	-	0.001 U	0.001 U	0.0005 U	0.0005 U	-	-	-	-	0.0002 U	0.0002 U	0.0002 U	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.02 U	0.02 U	-	0.01 U	0.032	0.051	-	-
Nickel (Dissolved)	mg/L	-	0.032	0.05	0.05 U	0.01	0.01 U	0.01 U	0.01 U	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	0.005 U	0.005 U	0.005 U	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	-	-	-	0.001 U	0.04 U	0.001 U	0.001 U	-	-	-	-	0.01 U	0.01 U	0.01 U	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.02 U	0.02 U	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	0.02 U	0.02 U	0.02 U	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	110	87	87	-	100	125	110	-	-
Sodium (Dissolved)	mg/L	-	82	90	78	87	112	84	96	-	-	-	-	-	-	-	110	102
Zinc	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.02 U	0.02 U	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	0.037	0.03	0.02	0.01 U	0.07	0.01 U	0.01 U	-	-	-	-	0.01 U	0.01 U	0.01 U	-	-
Pesticides																		
2,4,5-TP (Silvex)	mg/L	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	-	0.01 U	0.01 U	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	-	0.1 U	0.1 U	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	0.00001 U	0.00001 U	0.00001 U	0.00001 U	-	0.0002 U	0.0002 U	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	0.00001 U	0.00001 U	0.00001 U	0.00001 U	-	0.004 U	0.004 U	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	0.0001 U	0.0001 U	0.0001 U	0.0001 U	-	0.1 U	0.1 U	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	0.0005 U	0.0005 U	0.0005 U	0.0005 U	-	0.005 U	0.005 U	-	-	-	-	-	-
Bio																		
Total Coliform Bacteria	cfu/100mL	-	-	-	-	-	4 U	20 U	45	-	2000 U	8	-	-	-	-	-	-
Radiology																		
Gross Alpha Analytes	pci/L	-	-	-	-	0.7	0.1 U	0.8	0.1 U	-	1.	2 U	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	5	4.0	0	5	-	13.5	3 U	-	-	-	-	-	-
Radium	pci/L	-	-	-	-	-	-	2.0	0.2	-	1 U	1	-	-	-	-	-	-
Radium-226	pci/L	-	-	-	-	1.0	1.8	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																		
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	2.6	25	29	23	24	24	22	21	22	21	-	36	21	27	1 U	24
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-	-	-	-	-	870	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	-	-	-	-	0.31	0.39	0.48	1.1	0.45	0.39	0.42	-	0.43	0.66	0.44	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>
<i>Sample Name:</i>	<i>P-02</i>	<i>30.897</i>	<i>09/136426</i>	<i>12/142831</i>	<i>86-03509</i>	<i>86-05631</i>	<i>86-07821</i>	<i>86-09697</i>	<i>20075</i>	<i>23215</i>	<i>25966</i>	<i>P-2</i>	<i>47722</i>	<i>48345</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>
<i>Sample Date:</i>	<i>1/14/1985</i>	<i>6/28/1985</i>	<i>9/12/1985</i>	<i>12/18/1985</i>	<i>4/8/1986</i>	<i>6/17/1986</i>	<i>9/3/1986</i>	<i>11/12/1986</i>	<i>3/31/1987</i>	<i>6/16/1987</i>	<i>8/25/1987</i>	<i>12/15/1987</i>	<i>6/28/1988</i>	<i>8/31/1988</i>	<i>12/29/1988</i>	<i>1/20/1989</i>	<i>5/31/1989</i>	
<i>Parameters:</i>	<i>Units</i>																	
Nitrate (as N)	mg/L	-	-	-	-	2.6	0.014	0.02	0.03	0.04	0.02 U	0.06	-	0.05	0.55	0.19	-	-
Nitrite (as N)	mg/L	-	-	-	-	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (Average)	s.u.	-	-	-	-	-	-	-	-	-	-	6.73	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	0.01 U	0.008	0.01 U	0.004 U	0.004 U	0.005 U	0.005 U	0.002 U	0.002	0.004	-	0.027	0.01 U	0.01 U	0.01 U	0.006
Sulfate	mg/L	-	199	150	180	246	225	200	178	190	170	180	-	300	132	189	140	178
Temperature, Field	deg F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	1.4	2 U	1 U	6	38	6	4.5	8.5	4	3	4	-	1	8	9	1 U	1.9
Total Organic Carbon (3)	mg/L	1.4	2	1 U	5	32	6.5	5	9.6	4	3	4	-	1	4	10	1 U	1.9
Total Organic Carbon (4)	mg/L	1.4	2 U	1 U	6	40	5.5	5	9.3	4	3	4	-	1 U	5	5	1 U	1.8
Total Organic Carbon (TOC)	mg/L	1.3	2	1 U	7	36	7.5	8	8.9	4	3	4	2	6	5	11	2	1.8
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	0.1 U	0.3	0.03 U	0.03 U	0.009	0.018	0.016	0.013	0.018	0.015	0.01 U	-	0.03 U	0.03 U	0.03 U	0.07 U	0.005 U
Total Organic Halides (3)	mg/L	0.1 U	0.16	0.03 U	0.03 U	0.009	0.028	0.021	0.012	0.03 U	0.01	0.014	-	0.03 U	0.03 U	0.03 U	0.03 U	0.005 U
Total Organic Halides (4)	mg/L	0.1 U	0.12	0.03 U	0.03 U	0.01	0.021	0.006	0.014	0.03 U	0.01 U	0.01 U	-	0.03 U	0.03 U	0.03 U	0.03 U	0.005 U
Total Organic Halides (TOX)	mg/L	0.1 U	0.04	0.03 U	0.03 U	0.01	0.012	0.013	0.012	0.03 U	0.01 U	0.01	0.150	0.03 U	0.03 U	0.03 U	0.07 U	0.005 U
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	-	-	-	-	0.65	0.15	1.5	1.4	-	5	43	-	-	-	-	-	-
<i>Field Parameters</i>																		
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	1.025	0.640	1.000	1.100	0.921	1.058	1.060	1.018	0.71	1.130	1.000	-	1.040	1.00	1.1	1.1	0.972
Conductivity Field (2)	mmhos/cm	1.025	0.650	1.000	1.000	0.919	1.026	1.042	0.916	0.719	1.150	1.000	-	1.030	0.99	1.1	1.1	0.969
Conductivity Field (3)	mmhos/cm	1.050	0.650	0.980	1.000	0.896	0.918	1.052	0.927	0.708	1.150	1.000	-	1.040	0.99	1.1	1.1	0.969
Conductivity Field (4)	mmhos/cm	1.050	0.650	1.000	1.000	0.917	0.918	1.063	0.955	0.71	1.140	1.025	-	1.040	0.99	1.1	1.1	0.970
pH Field	S.U.	6.85	7.2	7.2	7.4	7.8	8.0	7.9	8.2	6.84	7.22	7.10	-	7.42	7.3	7.5	7.3	7.22
pH Field (2)	S.U.	6.84	7.2	7.2	7.4	7.9	8.1	7.7	8.1	6.87	7.23	7.15	-	7.41	-	7.5	7.3	7.21
pH Field (3)	S.U.	6.83	7.2	7.2	7.5	8.1	8.0	7.9	8.2	6.87	7.23	7.05	-	7.42	-	7.5	7.3	7.22
pH Field (4)	S.U.	6.83	7.2	7.2	7.5	8.1	8.1	7.4	8.2	6.86	7.24	7.00	-	7.42	-	7.5	7.3	7.23
Temperature, Field	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	11.1	-	-	-	-
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	11.0	-	-	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	11.0	-	-	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	11.0	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02
<i>Sample Name:</i>	8911G190-005		18	34	53	70	85	108	GW-2	GW-4	GW-2	GW-4	P-02	P-02	P-02	P-02	P-02	P-02
<i>Sample Date:</i>	11/21/1989	2/21/1990	7/27/1990	8/14/1990	2/21/1991	5/30/1991	8/8/1991	10/21/1991	1/21/1992	1/21/1992	1/22/1992	1/22/1992	5/20/1992	8/13/1992	11/24/1992	3/15/1993	7/21/1993	

<i>Parameters:</i>	<i>Units</i>																	
<i>Volatile Organic Compounds</i>																		
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	0.01 U	0.01 U	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	0.01 U	0.01 U	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	0.01 U	0.01 U	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	0.01 U	0.01 U	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	0.01 U	0.01 U	-	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	0.01 U	0.01 U	-	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	0.01 U	0.01 U	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	0.01 U	0.01 U	-	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
Formaldehyde	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-	0.01 U	0.01 U	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	0.01 U	0.01 U	-	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

<i>Metals</i>																		
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.1 U	0.389	0.1 U	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 K

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02
Sample Name:		8911G190-005	P-02	18	34	53	70	85	108	GW-2	GW-4	GW-2	GW-4	P-02	P-02	P-02	P-02	P-02
Sample Date:		11/21/1989	2/21/1990	7/27/1990	8/14/1990	2/21/1991	5/30/1991	8/8/1991	10/21/1991	1/21/1992	1/21/1992 Duplicate	1/22/1992	1/22/1992 Duplicate	5/20/1992	8/13/1992	11/24/1992	3/15/1993	7/21/1993
Parameters:	Units																	
Arsenic (Dissolved)	mg/L	0.004 U	-	-	-	-	-	-	-	-	-	-	-	0.1 U	0.1 U	0.1 U	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	0.05 U	-	-	-	-	-	-	-	-	-	-	-	0.063	0.05	0.044	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	0.01 U	-	-	-	-	-
Cadmium (Dissolved)	mg/L	0.004 U	-	-	-	-	-	-	-	-	-	0.01 U	0.01 U	0.005 U	0.005 U	0.005 U	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	210	200	155	122	100	-	-
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (Trivalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (Trivalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	0.01 U	-	-	0.01 U	-	-	-	-	-	0.02 U	0.02 U	-	-	-	-	0.01 K
Chromium Total (Dissolved)	mg/L	0.02 U	-	-	-	-	-	-	-	-	-	0.02 U	0.02 U	0.01 U	0.01 U	0.01 U	-	-
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	-	-	0.02 U	0.02 U	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	0.02 U	0.01 U	-	-	0.01 U	-	-	-	-	-	0.02 U	0.02 U	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 K
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U	0.01 U	0.01 U	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.665
Iron (Dissolved)	mg/L	0.17	0.441	-	-	0.248	-	-	-	-	-	-	-	0.703	1.05	0.324	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.003 K
Lead (Dissolved)	mg/L	0.002 U	-	-	-	-	-	-	-	-	-	-	-	0.005 U	0.005 U	0.003 U	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	57	53	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	50.5	36.5	33.5	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.508
Manganese (Dissolved)	mg/L	0.26	0.345	-	-	0.115	-	-	-	-	-	-	-	0.059	0.405	0.393	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	0.0002 U	-	-	-	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	0.04 U	0.04 U	-	-	-	0.01 U	0.02 K
Nickel (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	0.04 U	0.04 U	0.029	0.02 U	0.02 U	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	49	42	-	-	-	-	11.6
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	27.6	14	15.6	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	0.002 U	-	-	-	-	-	-	-	-	-	-	-	0.005 U	0.005 U	0.005 U	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	0.03 U	-	-	-	-	-	-	-	-	-	-	-	0.01 U	0.01 U	0.01 U	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	91	90	-	-	-	-	96.2
Sodium (Dissolved)	mg/L	101	94.5	-	-	73.5	-	-	-	-	-	-	-	86.3	81.3	83.8	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.02 U	0.03	0.02 U	-	-
Pesticides																		
2,4,5-TP (Silvex)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bio																		
Total Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radiology																		
Gross Alpha Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium-226	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																		
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-	-	-	-	330	390	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-	-	-	-	2 U	2 U	-	-	-	-	-
Chloride	mg/L	35.7	20.9	-	-	21.1	-	-	-	-	-	43	38	36.4	34.2	26.8	25.2	30.2
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	0.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02
<i>Sample Name:</i>		8911G190-005	P-02	18	34	53	70	85	108	GW-2	GW-4	GW-2	GW-4	P-02	P-02	P-02	P-02
<i>Sample Date:</i>		11/21/1989	2/21/1990	7/27/1990	8/14/1990	2/21/1991	5/30/1991	8/8/1991	10/21/1991	1/21/1992	1/21/1992 <i>Duplicate</i>	1/22/1992	1/22/1992 <i>Duplicate</i>	5/20/1992	8/13/1992	11/24/1992	3/15/1993
<i>Parameters:</i>	<i>Units</i>																
Nitrate (as N)	mg/L	0.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (Average)	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	0.01 U	0.04 U	-	-	0.5 U	-	-	-	-	-	-	-	0.067 U	0.067 U	0.067 U	0.067 K
Sulfate	mg/L	216	196	-	-	185	-	-	-	-	-	530	490	390	305	279	272
Temperature, Field	deg F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	2.1	2.49	5.5	2.6	3.98	5.6	5.37	1.91	-	-	5	7.9	8.77	3.01	2.65	2.25
Total Organic Carbon (3)	mg/L	2.2	2.18	5.73	2.61	4.03	4	4.41	1.9	-	-	4.6	8.1	8.34	2.95	2.69	2.25
Total Organic Carbon (4)	mg/L	2.2	2.98	5.75	2.65	4.09	5.3	5.68	2.4	-	-	4.6	8.1	8.13	2.88	2.67	2.3
Total Organic Carbon (TOC)	mg/L	2	2.02	5.46	2.47	3.82	4.5	5.35	2	-	-	4.6	8	8.85	3	2.65	2.22
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	-
Total Organic Halides (2)	mg/L	0.01 U	0.0143 J	0.032	U	0.01 U	-	0.11	-	-	-	0.032	0.2	0.01 U	0.01	0.01 U	0.01 K
Total Organic Halides (3)	mg/L	0.01 U	0.0064 J	0.092	U	0.01 U	-	0.03 U	-	-	-	0.026	0.27	0.01 U	0.01 U	0.01 U	0.01 K
Total Organic Halides (4)	mg/L	0.01 U	0.0109 J	0.129	0.007	0.01 U	-	0.03	-	-	-	0.031	0.19	0.01 U	0.01 U	0.01 U	0.01 K
Total Organic Halides (TOX)	mg/L	0.01 U	0.0088 J	0.026	U	0.01 U	-	0.03 U	-	-	-	0.079	0.26	0.01 U	0.01 U	0.01 U	0.01 K
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Field Parameters</i>																	
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	1.05	1.01	1.1	1.11	1.14	-	1.14	-	-	-	1.490	-	1.39	1.39	1.475	1.29
Conductivity Field (2)	mmhos/cm	1.05	1.02	1.0	1.13	1.15	-	1.11	-	-	-	1.436	-	1.46	1.36	1.467	1.27
Conductivity Field (3)	mmhos/cm	1.05	1.01	1.0	1.13	1.14	-	1.12	-	-	-	1.410	-	1.46	1.34	1.463	1.28
Conductivity Field (4)	mmhos/cm	1.05	1.02	1.1	1.13	1.14	-	1.13	-	-	-	1.394	-	1.44	1.334	1.46	1.26
pH Field	S.U.	7.41	7.25	6.59	7.8	6.99	7.19	8.51	6.84	-	-	7.65	-	6.80	6.57	7.84	7.23
pH Field (2)	S.U.	7.40	7.32	6.6	7.43	7.00	7.09	8.52	6.88	-	-	7.62	-	6.83	6.86	7.80	7.29
pH Field (3)	S.U.	7.38	7.24	6.63	7.67	6.98	7.03	8.45	6.9	-	-	7.63	-	6.92	6.91	7.73	7.18
pH Field (4)	S.U.	7.36	7.3	6.63	7.82	6.99	6.98	8.43	6.92	-	-	7.55	-	6.84	6.95	7.67	7.18
Temperature, Field	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02
Sample Name:	P-02	P-02	P-02	E90442	E98149	E107743	E113029	E121671	E128391	E134496	E141424	E146576	E152696	E160163	E165452	E165453	E171016	E176114	
Sample Date:	10/7/1993	12/20/1993	3/29/1994	6/20/1994	9/22/1994	12/28/1994	3/20/1995	6/27/1995	9/27/1995	12/14/1995	4/5/1996	6/11/1996	8/27/1996	11/25/1996	2/26/1997	2/26/1997	5/27/1997	8/19/1997	
Parameters:	Units																		
Volatile Organic Compounds																			
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,4-Dioxane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Hexanone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acetone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acetonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acrolein	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Allyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroprene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Di-n-octyl phthalate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Formaldehyde	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
m&p-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
o-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals																			
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	mg/L	-	0.01 K	-	0.001 U	-	0.001 U	-	0.001 U	-	0.001 U	-	-	-	-	-	-	-	

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02
Sample Name:		P-02	P-02	P-02	E90442	E98149	E107743	E113029	E121671	E128391	E134496	E141424	E146576	E152696	E160163	E165452	E165453	E171016	E176114
Sample Date:		10/7/1993	12/20/1993	3/29/1994	6/20/1994	9/22/1994	12/28/1994	3/20/1995	6/27/1995	9/27/1995	12/14/1995	4/5/1996	6/11/1996	8/27/1996	11/25/1996	2/26/1997	2/26/1997	5/27/1997	8/19/1997
Parameters:	Units																Duplicate		
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (Trivalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (Trivalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	0.6	-	-	-	0.035	-	-	-	0.54	-	-	-	-	0.68	-
Iron (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	0.003 K	-	0.001 U	-	0.0013	-	0.001 U	-	0.001 U	-	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	0.46	-	-	-	0.74	-	-	-	0.43	-	-	-	-	0.32	-
Manganese (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	0.02 K	0.02 K	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Nickel (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	10.3	-	8.4	-	8.7	-	8.5	-	6.5	-	-	-	-	-	-	-	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	85	-	-	-	92	-	-	-	88	-	-	-	-	76	-
Sodium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides																			
2,4,5-TP (Silvex)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bio																			
Total Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radiology																			
Gross Alpha Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium-226	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																			
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	26.8	24	-	30	30	29	28	27	30	28	27	29	29	29	29	28	30	30
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02
Sample Name:	P-02	P-02	P-02	E90442	E98149	E107743	E113029	E121671	E128391	E134496	E141424	E146576	E152696	E160163	E165452	E165453	E171016	E176114
Sample Date:	10/7/1993	12/20/1993	3/29/1994	6/20/1994	9/22/1994	12/28/1994	3/20/1995	6/27/1995	9/27/1995	12/14/1995	4/5/1996	6/11/1996	8/27/1996	11/25/1996	2/26/1997	2/26/1997	5/27/1997	8/19/1997
Parameters:	Units																	
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (Average)	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	-	-	0.01	-	-	0.01 U	-	-	-	0.01 U	-	-	-	-	0.01 U	-
Sulfate	mg/L	258	280	-	257	281	260	244	251	236	227	262	266	245	258	266	259	260
Temperature, Field	deg F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	2.49	-	2.6	-	2.2	-	2.7	-	2.4	-	1.9	-	2.1	-	-	2.2
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	-	0.01 K	-	0.01 U	-	0.01 U	-	0.01 U	-	0.01 U	-	0.01 U	-	0.01 U	-	-	0.01 U
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																		
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	9.84	1.26	2.06	0.975	1	-	0.85	0.95	0.889	0.81	0.929	0.892	0.832	0.808	0.876	-	0.808
Conductivity Field (2)	mmhos/cm	9.84	1.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	9.84	1.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	9.84	1.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	S.U.	6.91	6.76	6.86	6.33	6.62	7.5	7.43	8.82	7.25	6.98	7.07	7.18	7.06	6.86	7.12	-	7.29
pH Field (2)	S.U.	6.91	6.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (3)	S.U.	6.91	6.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (4)	S.U.	6.91	6.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field	Deg C	-	-	-	13	17	9.8	13.3	-	15.5	9.2	-	17.7	16.7	11.4	8.7	-	13.4
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02
Sample Name:	E176115	E183283	E189230	E189231	E196366	E205394	E210900	E210901	E216001	E222103	E222104	E228247	E228248	P-02	P-02-DUP	P-02	P-02-DUP	P-02
Sample Date:	8/19/1997	11/24/1997	2/25/1998	2/25/1998	5/13/1998	8/20/1998	11/9/1998	11/9/1998	2/3/1999	5/6/1999	5/6/1999	8/4/1999	8/4/1999	11/15/1999	11/15/1999	2/3/2000	2/3/2000	5/3/2000
Parameters:	Units	Duplicate		Duplicate				Duplicate			Duplicate		Duplicate		Duplicate		Duplicate	
Volatile Organic Compounds																		
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Formaldehyde	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals																		
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02
Sample Name:		E176115	E183283	E189230	E189231	E196366	E205394	E210900	E210901	E216001	E222103	E222104	E222104	E228247	E228248	P-02	P-02-DUP	P-02
Sample Date:		8/19/1997	11/24/1997	2/25/1998	2/25/1998	5/13/1998	8/20/1998	11/9/1998	11/9/1998	2/3/1999	5/6/1999	5/6/1999	5/6/1999	8/4/1999	8/4/1999	11/15/1999	11/15/1999	2/3/2000
		Duplicate			Duplicate				Duplicate			Duplicate	Duplicate		Duplicate	Duplicate		Duplicate
Parameters:	Units																	
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (Trivalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (Trivalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05 U
Chromium Total (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05 U
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05 U
Iron	mg/L	-	-	-	-	0.74	-	-	-	-	1.31 MS	1.12	-	-	-	-	-	1.5
Iron (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.59
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	0.51	-	-	-	-	0.62 MS	0.33	-	-	-	-	-	0.42
Manganese (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.42
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.012	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U MA	0.01 U	0.01 U	0.015	0.01 U	0.01 U	0.01 U	0.01 U
Nickel (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.011
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.1
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	92	-	-	-	-	71	75	-	-	-	-	-	93
Sodium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	94
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides																		
2,4,5-TP (Silvex)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bio																		
Total Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radiology																		
Gross Alpha Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium-226	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																		
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	30	31	30	30	33	30	30	30	30	30	30	30	31	30	30	29	29
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02
<i>Sample Name:</i>		E176115	E183283	E189230	E189231	E196366	E205394	E210900	E210901	E216001	E222103	E222104	E228247	E228248	P-02	P-02-DUP	P-02	P-02-DUP	P-2
<i>Sample Date:</i>		8/19/1997	11/24/1997	2/25/1998	2/25/1998	5/13/1998	8/20/1998	11/9/1998	11/9/1998	2/3/1999	5/6/1999	5/6/1999	8/4/1999	8/4/1999	11/15/1999	11/15/1999	2/3/2000	2/3/2000	5/3/2000
		Duplicate			Duplicate				Duplicate			Duplicate		Duplicate		Duplicate		Duplicate	
<i>Parameters:</i>	<i>Units</i>																		
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (Average)	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	-	-	-	0.01 U	-	-	-	-	0.01 U	0.01 U	-	-	-	-	-	-	0.01 U
Sulfate	mg/L	253	228	255	255	305	239	211	192	230	253	252	244	249	230	227	271	273	270
Temperature, Field	deg F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	7.6	-	-	2.3	-	3.2	3.5	-	2.5	2.5	-	-	2.4	2.6	-	-	7.3
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	-	0.01 U SI	-	-	0.01 U SI	-	0.01 U	0.01 U	-	0.01 U	0.01 U	-	-	0.01 U	0.01 U	-	-	0.01 U
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Field Parameters</i>																			
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	-	1.038	1.247	-	1.469	1.245	1.133	-	0.940	1.174	-	1.110	-	1.127	-	1.047	-	1.060
Conductivity Field (2)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	S.U.	-	7.11	7.14	-	7.39	6.93	6.57	-	6.73	7.20	-	7.32	-	6.89	-	6.89	-	6.77
pH Field (2)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (3)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (4)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field	Deg C	-	11.8	10.5	-	13.4	15.7	12.4	-	8.8	17.0	-	16.5	-	12.2	-	11.1	-	13.4
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02
Sample Name:	P-02	P-02-DUP	P-02	P-02-DUP	271743	271744	277754	277755	285479	292311	292312	P-02	P-02-DUP	GW-12616-01	GW-12616-082802-DCR-006	
Sample Date:	8/31/2000	8/31/2000	11/2/2000	11/2/2000	2/15/2001	2/15/2001	5/1/2001	5/1/2001	8/14/2001	11/6/2001	11/6/2001	2/5/2002	2/5/2002	6/25/2002	8/28/2002	
Parameters:	Units	Duplicate		Duplicate		Duplicate		Duplicate		Duplicate		Duplicate				
Volatile Organic Compounds																
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Formaldehyde	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals																
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02
Sample Name:		P-02	P-02-DUP	P-02	P-02-DUP	271743	271744	277754	277755	285479	292311	292312	P-02	P-02-DUP	P-02	P-02
Sample Date:		8/31/2000	8/31/2000 Duplicate	11/2/2000	11/2/2000 Duplicate	2/15/2001	2/15/2001 Duplicate	5/1/2001	5/1/2001 Duplicate	8/14/2001	11/6/2001	11/6/2001 Duplicate	2/5/2002	2/5/2002 Duplicate	6/23/2002	8/28/2002
Parameters:	Units															
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.051 J	0.053 J
Barium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.051 J	0.051 J
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	119	118 J
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	119	116
Chromium III (Trivalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (Trivalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.010 U	0.010 U
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.010 U	0.010 U
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	1.4	1.55	-	-	-	-	-	0.61	0.50
Iron (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.59	0.37
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	39.8	36.6
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	40.1	36.0
Manganese	mg/L	-	-	-	-	-	-	0.39	0.46	-	-	-	-	-	0.48	0.75
Manganese (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.48	0.69
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	0.01 U	0.01 U	0.029 J	0.042 J	0.011	0.012	0.013	0.015	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0079 J	0.0066 J
Nickel (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0080 J	0.0065 J
Potassium	mg/L	-	-	-	-	-	-	5.9	6.2	-	-	-	-	-	6.1	3.9 J
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	6.1	4.0 J
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	90	92	-	-	-	-	-	89.0	79.1
Sodium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	89.9	78.4
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides																
2,4,5-TP (Silvex)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bio																
Total Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radiology																
Gross Alpha Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium-226	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	31	31	30	30	30	30	32	32	29	30	30	31	31	29.1	21.0
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.010 U	0.010 U
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02	P-02
<i>Sample Name:</i>		P-02	P-02-DUP	P-02	P-02-DUP	271743	271744	277754	277755	285479	292311	292312	P-02	P-02-DUP	GW-12616-01	GW-12616-082802-DCR-006
<i>Sample Date:</i>		8/31/2000	8/31/2000	11/2/2000	11/2/2000	2/15/2001	2/15/2001	5/1/2001	5/1/2001	8/14/2001	11/6/2001	11/6/2001	2/5/2002	2/5/2002	6/25/2002	8/28/2002
			Duplicate		Duplicate		Duplicate		Duplicate		Duplicate		Duplicate			
<i>Parameters:</i>	<i>Units</i>															
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	7.780	-	-	-
pH Field (Average)	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	-	-	-	-	-	0.01 U	0.01 U	-	-	-	-	-	-	-
Sulfate	mg/L	340	276	257	256	290	291	291	289	268	326	321	311	307	287	248
Temperature, Field	deg F	-	-	-	-	-	-	-	-	-	-	-	11.5	-	-	-
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	-	2.9	2.9	-	-	3.1	2.8	-	3.1	3.1	-	-	-	-
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	-	-	0.01 U	0.01 U	-	-	0.01 U	0.01 U	-	0.01 U	0.01 U	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Field Parameters</i>																
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	1.280	-	0.891	0.94
Conductivity Field	mmhos/cm	1.061	-	1.118	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (2)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	S.U.	6.86	-	6.74	-	-	-	-	-	-	-	-	-	-	8.68	6.13
pH Field (2)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (3)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (4)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field	Deg C	15.9	-	14.8	-	-	-	-	-	-	-	-	-	-	13.61	17
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-02	P-02	P-02	P-02	P-02	P-02	P-02
Sample Name:		W-12616-112502-DEN-09	W-12616-022603-DEN-07	W-12616-052703-DEN-05E	W-12616-052803-DEN-05	W-12616-38-082603-DEN-06	W-12616-38-110503-DEN-05C	W-12616-38-111703-DEN-03
Sample Date:		11/25/2002	2/26/2003	5/27/2003	5/28/2003	8/26/2003	11/5/2003	11/17/2003
Parameters:	Units							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-
Di-n-octyl phthalate	mg/L	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-
Formaldehyde	mg/L	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-
Metals								
Aluminum	mg/L	-	-	-	-	-	-	-
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>
<i>Sample Name:</i>		<i>W-12616-112502-DEN-09</i>	<i>W-12616-022603-DEN-07</i>	<i>W-12616-052703-DEN-05E</i>	<i>W-12616-052803-DEN-05</i>	<i>W-12616-38-082603-DEN-06</i>	<i>W-12616-38-110503-DEN-05C</i>	<i>W-12616-38-111703-DEN-03</i>
<i>Sample Date:</i>		<i>11/25/2002</i>	<i>2/26/2003</i>	<i>5/27/2003</i>	<i>5/28/2003</i>	<i>8/26/2003</i>	<i>11/5/2003</i>	<i>11/17/2003</i>
<i>Parameters:</i>	<i>Units</i>							
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-	-
Barium	mg/L	0.057 J	0.084 J	-	0.080 J	0.059 J	-	0.060 J
Barium (Dissolved)	mg/L	0.055 J	0.086 J	-	0.070 J	0.060 J	-	0.058 J
Cadmium	mg/L	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-
Calcium	mg/L	99.1	143	-	142	109	-	114
Calcium (Dissolved)	mg/L	98.8	146	-	127	115	-	114
Chromium III (Trivalent)	mg/L	-	-	-	-	-	-	-
Chromium III (Trivalent) (Dissolved)	mg/L	-	-	-	-	-	-	-
Chromium Total	mg/L	0.010 U	0.010 U	-	0.010 U	0.010 U	-	0.010 U
Chromium Total (Dissolved)	mg/L	0.010 U	0.010 U	-	0.010 U	0.010 U	-	0.010 U
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-
Iron	mg/L	0.36	0.21	-	0.28	0.38	-	0.42
Iron (Dissolved)	mg/L	0.077 J	0.084 J	-	0.19	0.31	-	0.36
Lead	mg/L	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-
Magnesium	mg/L	30.8	50.7	-	48.9	36.9	-	37.6
Magnesium (Dissolved)	mg/L	30.7	51.9	-	43.8	38.7	-	37.7
Manganese	mg/L	0.31	0.30	-	0.70	0.70 J	-	0.58
Manganese (Dissolved)	mg/L	0.31	0.30	-	0.56	0.59	0.58	0.50
Mercury	mg/L	-	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	-	-	-	-	-	-	-
Nickel	mg/L	0.0060 J	0.0064 J	-	0.0073 J	0.0079 J	-	0.0061 J
Nickel (Dissolved)	mg/L	0.0066 J	0.0060 J	-	0.0068 J	0.0078 J	-	0.0056 J
Potassium	mg/L	19.4	27.3	-	25.1	13.9	-	16.1 J
Potassium (Dissolved)	mg/L	18.4	28.1	23.4	22.7	14.6	18.8	15.3
Selenium	mg/L	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-
Sodium	mg/L	26.9	43.7	-	62.9	85.4	-	92.0
Sodium (Dissolved)	mg/L	28.0	46.0	-	56.9	86.1	-	88.0
Zinc	mg/L	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-
<i>Pesticides</i>								
2,4,5-TP (Silvex)	mg/L	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	-	-	-
<i>Bio</i>								
Total Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-
<i>Radiology</i>								
Gross Alpha Analytes	pci/L	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	-	-	-
Radium	pci/L	-	-	-	-	-	-	-
Radium-226	pci/L	-	-	-	-	-	-	-
<i>General Chemistry</i>								
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-
Chloride	mg/L	14.3	15.8	-	18.0	25.8	-	17.6
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-
Cyanide (total)	mg/L	0.010 U	0.010 U	-	0.010 U	0.010 U	-	0.010 U
Fluoride	mg/L	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		P-02	P-02	P-02	P-02	P-02	P-02	P-02
<i>Sample Name:</i>		W-12616-112502-DEN-09	W-12616-022603-DEN-07	W-12616-052703-DEN-05E	W-12616-052803-DEN-05	W-12616-38-082603-DEN-06	W-12616-38-110503-DEN-05C	W-12616-38-111703-DEN-03
<i>Sample Date:</i>		11/25/2002	2/26/2003	5/27/2003	5/28/2003	8/26/2003	11/5/2003	11/17/2003
<i>Parameters:</i>	<i>Units</i>							
Nitrate (as N)	mg/L	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-
pH Field (Average)	s.u.	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	-	-	-	-	-	-
Sulfate	mg/L	213	430	349	339	273	313	248
Temperature, Field	deg F	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-
Turbidity	NTU	-	-	-	-	-	-	-
<i>Field Parameters</i>								
Conductivity	mmhos/cm	0.68	1.27	1.13	1.26	-	-	-
Conductivity Field	mmhos/cm	-	-	-	-	1.23	0.16	1.12
Conductivity Field (2)	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-	-	-	-	-
pH Field	S.U.	7.59	7.5	6.91	7.05	7.08	7.32	7.05
pH Field (2)	S.U.	-	-	-	-	-	-	-
pH Field (3)	S.U.	-	-	-	-	-	-	-
pH Field (4)	S.U.	-	-	-	-	-	-	-
Temperature, Field	Deg C	10.22	6.98	12.38	15.10	19.20	15.03	12.58
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-02	P-02	P-02	P-02	P-02	P-02	P-02
Sample Name:	W-12616-38-121503-DEN-06	W-12616-38-121603-ACL-015	W-12616-011404-DEN-04C	W-12616-011404-DEN-04S	W-12616-022504-DEN-05	W-12616-042204-DEN-05	W-12616-081704-DEN-06
Sample Date:	12/15/2003	12/16/2003	1/14/2004	1/14/2004	2/25/2004	4/22/2004	8/17/2004
Parameters:	Units						
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	mg/L	0.001 U	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	0.001 U	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	0.001 U	-	-	-	-	-
1,1-Dichloroethane	mg/L	0.001 U	-	-	-	-	-
1,1-Dichloroethene	mg/L	0.001 U	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	0.001 U	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.002 U	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.001 U	-	-	-	-	-
1,2-Dichloroethane	mg/L	0.001 U	-	-	-	-	-
1,2-Dichloropropane	mg/L	0.001 U	-	-	-	-	-
1,4-Dioxane	mg/L	0.2 U	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.01 U	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-
2-Hexanone	mg/L	0.01 U	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.01 U	-	-	-	-	-
Acetone	mg/L	0.01 U	-	-	-	-	-
Acetonitrile	mg/L	0.02 U	-	-	-	-	-
Acrolein	mg/L	0.02 U	-	-	-	-	-
Acrylonitrile	mg/L	0.02 U	-	-	-	-	-
Allyl chloride	mg/L	0.002 U	-	-	-	-	-
Benzene	mg/L	0.001 U	-	-	-	-	-
Bromodichloromethane	mg/L	0.001 U	-	-	-	-	-
Bromoform	mg/L	0.001 U	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	0.001 U	-	-	-	-	-
Carbon disulfide	mg/L	0.001 U	-	-	-	-	-
Carbon tetrachloride	mg/L	0.001 U	-	-	-	-	-
Chlorobenzene	mg/L	0.001 U	-	-	-	-	-
Chloroethane	mg/L	0.001 U	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	0.001 U	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	0.001 U	-	-	-	-	-
Chloroprene	mg/L	0.002 U	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	0.001 U	-	-	-	-	-
Dibromochloromethane	mg/L	0.001 U	-	-	-	-	-
Dibromomethane	mg/L	0.001 U	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	-	-	-	-	-
Di-n-octyl phthalate	mg/L	-	-	-	-	-	-
Ethyl methacrylate	mg/L	0.001 U	-	-	-	-	-
Ethylbenzene	mg/L	0.001 U	-	-	-	-	-
Formaldehyde	mg/L	-	-	-	-	-	-
Iodomethane	mg/L	0.001 U	-	-	-	-	-
Isobutyl alcohol	mg/L	0.05 U	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	0.002 U	-	-	-	-	-
Methyl methacrylate	mg/L	0.002 U	-	-	-	-	-
Methylene chloride	mg/L	0.001 U	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	0.004 U	-	-	-	-	-
Styrene	mg/L	0.001 U	-	-	-	-	-
Tetrachloroethene	mg/L	0.001 U	-	-	-	-	-
Toluene	mg/L	0.001 U	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	0.001 U	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	0.001 U	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	0.001 U	-	-	-	-	-
Trichloroethene	mg/L	0.001 U	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	-	-	-	-	-
Vinyl acetate	mg/L	0.002 U	-	-	-	-	-
Vinyl chloride	mg/L	0.001 U	-	-	-	-	-
Xylene (total)	mg/L	0.002 U	-	-	-	-	-
Metals							
Aluminum	mg/L	-	-	-	-	-	-
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		P-02	P-02	P-02	P-02	P-02	P-02	P-02
<i>Sample Name:</i>		W-12616-38-121503-DEN-06	W-12616-38-121603-ACL-015	W-12616-011404-DEN-04C	W-12616-011404-DEN-04S	W-12616-022504-DEN-05	W-12616-042204-DEN-05	W-12616-081704-DEN-06
<i>Sample Date:</i>		12/15/2003	12/16/2003	1/14/2004	1/14/2004	2/25/2004	4/22/2004	8/17/2004
<i>Parameters:</i>	<i>Units</i>							
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-	-
Barium	mg/L	0.066 J	-	-	0.067 J	0.063 J	-	0.048 J
Barium (Dissolved)	mg/L	0.068 J	-	-	0.066 J	0.063 J	-	0.047 J
Cadmium	mg/L	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-
Calcium	mg/L	118	-	-	-	124	-	112
Calcium (Dissolved)	mg/L	122	-	-	-	128	-	111
Chromium III (Trivalent)	mg/L	-	-	-	-	-	-	-
Chromium III (Trivalent) (Dissolved)	mg/L	-	-	-	-	-	-	-
Chromium Total	mg/L	0.010 U	-	-	-	0.010 U	-	0.010 U
Chromium Total (Dissolved)	mg/L	0.010 U	-	-	-	0.010 U	-	0.010 U
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	0.025 U
Copper (Dissolved)	mg/L	-	-	-	-	-	-	0.025 U
Cyanide (total)	mg/L	-	-	-	-	-	-	-
Iron	mg/L	0.35	-	-	-	0.16	-	0.26
Iron (Dissolved)	mg/L	0.31	-	-	-	0.095 J	-	0.28
Lead	mg/L	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-
Magnesium	mg/L	41.8	-	-	-	42.4	-	36.1
Magnesium (Dissolved)	mg/L	43.1	-	44.0	-	43.7	43.0	36.1
Manganese	mg/L	0.55	-	-	-	0.26	-	0.58
Manganese (Dissolved)	mg/L	0.50	-	0.28	-	0.24	-	0.49
Mercury	mg/L	-	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	-	-	-	-	-	-	-
Nickel	mg/L	0.0056 J	-	-	0.0089 J	0.0080 J	-	0.0066 J
Nickel (Dissolved)	mg/L	0.0062 J	-	-	0.010 J	0.0072 J	-	0.0071 J
Potassium	mg/L	13.7	-	-	-	13.0	-	8.0
Potassium (Dissolved)	mg/L	14.1 J	-	13.2	-	13.5	12.2	7.9
Selenium	mg/L	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-
Sodium	mg/L	86.4	-	-	-	88.6	-	105
Sodium (Dissolved)	mg/L	90.2	-	-	-	91.3	-	105
Zinc	mg/L	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-
<i>Pesticides</i>								
2,4,5-TP (Silvex)	mg/L	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	-	-	-
<i>Bio</i>								
Total Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-
<i>Radiology</i>								
Gross Alpha Analytes	pci/L	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	-	-	-
Radium	pci/L	-	-	-	-	-	-	-
Radium-226	pci/L	-	-	-	-	-	-	-
<i>General Chemistry</i>								
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-
Chloride	mg/L	22.4	-	-	-	21.5	-	24.4
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	0.002 J	-	0.010 U	0.010 U	-	0.010 U
Fluoride	mg/L	-	-	-	-	-	-	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location:		P-02	P-02	P-02	P-02	P-02	P-02	P-02
Sample Name:		W-12616-38-121503-DEN-06	W-12616-38-121603-ACL-015	W-12616-011404-DEN-04C	W-12616-011404-DEN-04S	W-12616-022504-DEN-05	W-12616-042204-DEN-05	W-12616-081704-DEN-06
Sample Date:		12/15/2003	12/16/2003	1/14/2004	1/14/2004	2/25/2004	4/22/2004	8/17/2004
Parameters:								
Nitrate (as N)	mg/L	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-
pH Field (Average)	s.u.	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	-	-	-	-	-	-
Sulfate	mg/L	285	-	299	-	275	-	234
Temperature, Field	deg F	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	760
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	4.0 UJ
Turbidity	NTU	-	-	-	-	-	-	-
Field Parameters								
Conductivity	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	1.23	-	-	-	-	-	-
Conductivity Field (2)	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-	-	-	-	-
pH Field	S.U.	7.15	-	-	-	-	-	-
pH Field (2)	S.U.	-	-	-	-	-	-	-
pH Field (3)	S.U.	-	-	-	-	-	-	-
pH Field (4)	S.U.	-	-	-	-	-	-	-
Temperature, Field	Deg C	9.53	-	-	-	-	-	-
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		P-02	P-02	P-02	P-02	P-02	P-02	P-02
<i>Sample Name:</i>		WG-12616-101904-DEN-05	WG-12616-101904-DEN-07	WG-12616-021505-DEN-06	WG-12616-033105-DEN-03	WG-12616-080305-DEN-06	WG-12616-100305-DN-06	WG-12616-021506-DN-04
<i>Sample Date:</i>		10/19/2004	10/19/2004 Duplicate	2/15/2005	3/31/2005	8/3/2005	10/3/2005	2/15/2006
<i>Parameters:</i>	<i>Units</i>							
<i>Volatile Organic Compounds</i>								
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-
Di-n-octyl phthalate	mg/L	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-
Formaldehyde	mg/L	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-
<i>Metals</i>								
Aluminum	mg/L	-	-	-	-	-	-	-
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>
<i>Sample Name:</i>		<i>WG-12616-101904-DEN-05</i>	<i>WG-12616-101904-DEN-07</i>	<i>WG-12616-021505-DEN-06</i>	<i>WG-12616-033105-DEN-03</i>	<i>WG-12616-080305-DEN-06</i>	<i>WG-12616-100305-DN-06</i>	<i>WG-12616-021506-DN-04</i>
<i>Sample Date:</i>		<i>10/19/2004</i>	<i>10/19/2004</i>	<i>2/15/2005</i>	<i>3/31/2005</i>	<i>8/3/2005</i>	<i>10/3/2005</i>	<i>2/15/2006</i>
<i>Parameters:</i>			<i>Duplicate</i>					
<i>Units</i>								
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-	-
Barium	mg/L	-	-	0.050 J	-	0.050 J	-	0.056 J
Barium (Dissolved)	mg/L	-	-	0.054 J	-	0.050 J	-	0.056 J
Cadmium	mg/L	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-
Calcium	mg/L	-	-	107	-	120	-	138
Calcium (Dissolved)	mg/L	-	-	112	-	121	-	136
Chromium III (Trivalent)	mg/L	-	-	-	-	-	-	-
Chromium III (Trivalent) (Dissolved)	mg/L	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	0.010 U	-	0.010 U	-	0.010 U
Chromium Total (Dissolved)	mg/L	-	-	0.010 U	-	0.010 U	-	0.010 U
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	0.025 U	-	-
Copper (Dissolved)	mg/L	-	-	-	-	0.025 U	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-
Iron	mg/L	-	-	0.13	-	0.29	-	0.30
Iron (Dissolved)	mg/L	-	-	0.11	-	0.25	-	0.16 U
Lead	mg/L	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	38.5	-	38.0	-	47.1
Magnesium (Dissolved)	mg/L	36.4	35.9	40.6	44.8	38.7	-	46.4
Manganese	mg/L	-	-	0.22	-	0.63	-	0.38
Manganese (Dissolved)	mg/L	1.1	0.82	0.26	-	0.56	0.73	0.35
Mercury	mg/L	-	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	-	-	-	-	-	-	-
Nickel	mg/L	-	-	0.0072 J	-	0.0079 J	-	0.010 J
Nickel (Dissolved)	mg/L	-	-	0.0070 J	-	0.0076 J	-	0.0097 J
Potassium	mg/L	-	-	7.9	-	5.7	-	6.6
Potassium (Dissolved)	mg/L	8.7	8.7	8.3	8.2	6.0	6.8	6.6
Selenium	mg/L	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-
Sodium	mg/L	-	-	103 J	-	84.5	-	82.5
Sodium (Dissolved)	mg/L	-	-	109	-	86.9	-	81.3
Zinc	mg/L	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-
<i>Pesticides</i>								
2,4,5-TP (Silvex)	mg/L	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	-	-	-
<i>Bio</i>								
Total Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-
<i>Radiology</i>								
Gross Alpha Analytes	pci/L	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	-	-	-
Radium	pci/L	-	-	-	-	-	-	-
Radium-226	pci/L	-	-	-	-	-	-	-
<i>General Chemistry</i>								
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-
Chloride	mg/L	-	-	25.0	-	22.9	-	29.5
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	0.010 U	-	0.010 U	-	0.010 U
Fluoride	mg/L	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>	<i>P-02</i>
<i>Sample Name:</i>		<i>WG-12616-101904-DEN-05</i>	<i>WG-12616-101904-DEN-07</i>	<i>WG-12616-021505-DEN-06</i>	<i>WG-12616-033105-DEN-03</i>	<i>WG-12616-080305-DEN-06</i>	<i>WG-12616-100305-DN-06</i>	<i>WG-12616-021506-DN-04</i>
<i>Sample Date:</i>		<i>10/19/2004</i>	<i>10/19/2004</i>	<i>2/15/2005</i>	<i>3/31/2005</i>	<i>8/3/2005</i>	<i>10/3/2005</i>	<i>2/15/2006</i>
<i>Parameters:</i>			<i>Duplicate</i>					
<i>Units</i>								
Nitrate (as N)	mg/L	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-
pH Field (Average)	s.u.	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	-	-	-	-	-	-
Sulfate	mg/L	-	-	271	-	261	-	349
Temperature, Field	deg F	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	730	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	8.0	-	-
Turbidity	NTU	-	-	-	-	-	-	-
<i>Field Parameters</i>								
Conductivity	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field (2)	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-	-	-	-	-
pH Field	S.U.	-	-	-	-	-	-	-
pH Field (2)	S.U.	-	-	-	-	-	-	-
pH Field (3)	S.U.	-	-	-	-	-	-	-
pH Field (4)	S.U.	-	-	-	-	-	-	-
Temperature, Field	Deg C	-	-	-	-	-	-	-
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

<i>Sample Location:</i>	P-02	P-02	P-02
<i>Sample Name:</i>	WG-12616-040406-DN-05	WG-12616-081506-DN-05	WG-12616-101206-DN-02
<i>Sample Date:</i>	4/4/2006	8/15/2006	10/12/2006

Parameters: *Units*

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	mg/L	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-
1,1-Dichloroethane	mg/L	-	-	-
1,1-Dichloroethene	mg/L	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-
1,2-Dichloroethane	mg/L	-	-	-
1,2-Dichloropropane	mg/L	-	-	-
1,4-Dioxane	mg/L	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-
2-Hexanone	mg/L	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-
Acetone	mg/L	-	-	-
Acetonitrile	mg/L	-	-	-
Acrolein	mg/L	-	-	-
Acrylonitrile	mg/L	-	-	-
Allyl chloride	mg/L	-	-	-
Benzene	mg/L	-	-	-
Bromodichloromethane	mg/L	-	-	-
Bromoform	mg/L	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-
Carbon disulfide	mg/L	-	-	-
Carbon tetrachloride	mg/L	-	-	-
Chlorobenzene	mg/L	-	-	-
Chloroethane	mg/L	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-
Chloroprene	mg/L	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-
Dibromochloromethane	mg/L	-	-	-
Dibromomethane	mg/L	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-
Di-n-octyl phthalate	mg/L	-	-	-
Ethyl methacrylate	mg/L	-	-	-
Ethylbenzene	mg/L	-	-	-
Formaldehyde	mg/L	-	-	-
Iodomethane	mg/L	-	-	-
Isobutyl alcohol	mg/L	-	-	-
m&p-Xylene	mg/L	-	-	-
Methyl acrylonitrile	mg/L	-	-	-
Methyl methacrylate	mg/L	-	-	-
Methylene chloride	mg/L	-	-	-
o-Xylene	mg/L	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-
Styrene	mg/L	-	-	-
Tetrachloroethene	mg/L	-	-	-
Toluene	mg/L	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-
Trichloroethene	mg/L	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-
Vinyl acetate	mg/L	-	-	-
Vinyl chloride	mg/L	-	-	-
Xylene (total)	mg/L	-	-	-

Metals

Aluminum	mg/L	-	-	-
Aluminum (Dissolved)	mg/L	-	-	-
Arsenic	mg/L	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-02</i>	<i>P-02</i>	<i>P-02</i>
<i>Sample Name:</i>		<i>WG-12616-040406-DN-05</i>	<i>WG-12616-081506-DN-05</i>	<i>WG-12616-101206-DN-02</i>
<i>Sample Date:</i>		<i>4/4/2006</i>	<i>8/15/2006</i>	<i>10/12/2006</i>
<i>Parameters:</i>	<i>Units</i>			
Arsenic (Dissolved)	mg/L	-	-	-
Barium	mg/L	-	0.054 J	-
Barium (Dissolved)	mg/L	-	0.051 J	-
Cadmium	mg/L	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-
Calcium	mg/L	-	124	-
Calcium (Dissolved)	mg/L	-	118	-
Chromium III (Trivalent)	mg/L	-	-	-
Chromium III (Trivalent) (Dissolved)	mg/L	-	-	-
Chromium Total	mg/L	-	0.0020 J	-
Chromium Total (Dissolved)	mg/L	-	0.010 U	-
Chromium VI (Hexavalent)	mg/L	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-
Copper	mg/L	-	0.0071 J	-
Copper (Dissolved)	mg/L	-	0.025 U	-
Cyanide (total)	mg/L	-	-	-
Iron	mg/L	-	0.31	-
Iron (Dissolved)	mg/L	-	0.17	-
Lead	mg/L	-	-	-
Lead (Dissolved)	mg/L	-	-	-
Magnesium	mg/L	-	43.6	-
Magnesium (Dissolved)	mg/L	45.6	41.3	38.0
Manganese	mg/L	-	0.76	-
Manganese (Dissolved)	mg/L	-	0.63	1.1
Mercury	mg/L	-	-	-
Mercury (Dissolved)	mg/L	-	-	-
Nickel	mg/L	-	0.010 J	-
Nickel (Dissolved)	mg/L	-	0.0077 J	-
Potassium	mg/L	-	6.4	-
Potassium (Dissolved)	mg/L	6.5	6.1	5.5
Selenium	mg/L	-	-	-
Selenium (Dissolved)	mg/L	-	-	-
Silver	mg/L	-	-	-
Silver (Dissolved)	mg/L	-	-	-
Sodium	mg/L	-	121	-
Sodium (Dissolved)	mg/L	-	117	-
Zinc	mg/L	-	-	-
Zinc (Dissolved)	mg/L	-	-	-
<i>Pesticides</i>				
2,4,5-TP (Silvex)	mg/L	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-
Endrin	mg/L	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-
Methoxychlor	mg/L	-	-	-
Toxaphene	mg/L	-	-	-
<i>Bio</i>				
Total Coliform Bacteria	cfu/100mL	-	-	-
<i>Radiology</i>				
Gross Alpha Analytes	pci/L	-	-	-
Gross Beta Analytes	pci/L	-	-	-
Radium	pci/L	-	-	-
Radium-226	pci/L	-	-	-
<i>General Chemistry</i>				
Alkalinity, Bicarbonate	mg/L	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-
Chloride	mg/L	-	27.9	-
Conductivity Field (Average)	umhos/cm	-	-	-
Cyanide (total)	mg/L	-	0.010 U	-
Fluoride	mg/L	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-02</i>	<i>P-02</i>	<i>P-02</i>
<i>Sample Name:</i>		WG-12616-040406-DN-05	WG-12616-081506-DN-05	WG-12616-101206-DN-02
<i>Sample Date:</i>		4/4/2006	8/15/2006	10/12/2006
<i>Parameters:</i>				
	<i>Units</i>			
Nitrate (as N)	mg/L	-	-	-
Nitrite (as N)	mg/L	-	-	-
pH Field	s.u.	-	-	-
pH Field (Average)	s.u.	-	-	-
Phenolics (Total)	mg/L	-	-	-
Sulfate	mg/L	342	246	-
Temperature, Field	deg F	-	-	-
Total Dissolved Solids (TDS)	mg/L	-	760	-
Total Organic Carbon (2)	mg/L	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-
Total Organic Carbon (TOC)	mg/L	-	-	-
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-
Total Organic Halides (2)	mg/L	-	-	-
Total Organic Halides (3)	mg/L	-	-	-
Total Organic Halides (4)	mg/L	-	-	-
Total Organic Halides (TOX)	mg/L	-	-	-
Total Suspended Solids (TSS)	mg/L	-	4.0	-
Turbidity	NTU	-	-	-
<i>Field Parameters</i>				
Conductivity	mmhos/cm	-	-	-
Conductivity Field	mmhos/cm	-	-	-
Conductivity Field (2)	mmhos/cm	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-
pH Field	S.U.	-	-	-
pH Field (2)	S.U.	-	-	-
pH Field (3)	S.U.	-	-	-
pH Field (4)	S.U.	-	-	-
Temperature, Field	Deg C	-	-	-
Temperature, Field (2)	Deg C	-	-	-
Temperature, Field (3)	Deg C	-	-	-
Temperature, Field (4)	Deg C	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T
Sample Name:	P-02T	P-02T	8908GS50-003	8911G190-006	2	17	33	54	86	109	GW-2T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T
Sample Date:	1/20/1989	5/31/1989	8/30/1989	11/21/1989	2/21/1990	7/27/1990	8/14/1990	2/21/1991	8/8/1991	10/21/1991	1/22/1992	5/20/1992	8/13/1992	11/24/1992	3/15/1993	7/21/1993	10/7/1993

Parameters: Units

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Metals

Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	49	0.1 U	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 K	-
Arsenic (Dissolved)	mg/L	0.05 U	0.004 U	0.0055	0.004 U	-	-	-	-	-	-	0.1 U	0.114	0.1 U	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	0.88	0.05 U	0.05 U	0.05 U	-	-	-	-	-	-	0.02 U	0.165	0.031	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T
Sample Name:	P-02T	P-02T	8908G550-003	8911G190-006	2	17	33	54	86	109	GW-2T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T
Sample Date:	1/20/1989	5/31/1989	8/30/1989	11/21/1989	2/21/1990	7/27/1990	8/14/1990	2/21/1991	8/8/1991	10/21/1991	1/22/1992	5/20/1992	8/13/1992	11/24/1992	3/15/1993	7/21/1993	10/7/1993	
Parameters:	Units																	
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	0.01 U	0.0041	0.004 U	0.004 U	-	-	-	-	-	0.01 U	0.005 U	0.005 U	0.005 U	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	700	151	1680	169	-	-	-	-
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	-	-	0.116	-	0.01 U	-	-	0.29	-	-	-	-	0.01 K	-	-
Chromium Total (Dissolved)	mg/L	0.37	0.02 U	0.02 U	0.02 U	-	-	-	-	-	0.02 U	0.01 U	0.071	0.01 U	-	-	-	-
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	-	0.02 U	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	0.01 U	0.02 U	0.02 U	0.02 U	0.095	-	0.033	-	-	0.02 U	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.029	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	0.205	0.01 U	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	0.02 U	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 K	-	-
Iron (Dissolved)	mg/L	310	0.081	0.035	0.053	0.912	-	4.92	-	-	-	0.1 U	209	0.1 U	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.003	-	-
Lead (Dissolved)	mg/L	0.073	0.002 U	0.002 U	0.002 U	-	-	-	-	-	-	0.005 U	0.067	0.022	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	240	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	57	129	63.4	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.431	-	-
Manganese (Dissolved)	mg/L	6	0.56	0.62	0.5	9.28	-	0.672	-	-	-	0.015	3.91	0.507	-	-	-	-
Mercury (Dissolved)	mg/L	0.0002 U	0.0005 U	0.0002 U	0.0002 U	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	0.53	-	-	-	0.01 U	0.02 K	0.02 K	-
Nickel (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	0.04 U	0.02 U	0.197	0.02 U	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-	40	-	-	-	-	2	-	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	2 U	11.4	2.03	-	-	-	-
Selenium (Dissolved)	mg/L	0.01 U	0.002 U	0.01 U	0.002 U	-	-	-	-	-	-	0.005 U	0.005 U	0.005 U	-	-	-	-
Silver (Dissolved)	mg/L	0.02 U	0.03 U	0.03 U	0.03 U	-	-	-	-	-	-	0.01 U	0.01 U	0.01 U	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	38	-	-	-	-	29	-	-
Sodium (Dissolved)	mg/L	15	39.2	38.2	36.3	51.5	-	31.3	-	-	-	31.2	32.5	36.8	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	0.02 U	0.484	0.02 U	-	-	-	-
General Chemistry																		
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-	-	-	320	-	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-	-	-	2 U	-	-	-	-	-	-	-
Chloride	mg/L	1 U	23	44.9	2	13.9	-	14.3	-	-	15	17.4	18	15.5	17.3	20.2	18.5	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	0.48	0.35	0.36	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	0.8	0.05 U	0.05 U	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	0.01 U	0.005 U	0.01 U	0.01 U	0.04 U	-	0.5 U	-	-	-	0.067 U	0.067 U	0.067 U	-	0.067 K	-	-
Sulfate	mg/L	280	374	320	330	323	-	290	-	-	27	412	397	365	353	515	395	-
Temperature, Field	deg F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	35	2	1.8	1.7	2.6	2.47	1.75	3.48	5.38	4.76	3	4.65	1.81	1.89	-	1.77	-
Total Organic Carbon (3)	mg/L	6	1.8	1.8	1.7	1.91	2.48	1.86	3.51	6.29	4.74	3	4.55	1.8	1.88	-	1.92	-
Total Organic Carbon (4)	mg/L	43	1.9	1.7	1.8	6.57	2.55	1.78	3.64	6.49	5.02	2.8	4.45	1.78	1.89	-	2.07	-
Total Organic Carbon (TOC)	mg/L	6	1.7	2.4	1.6	2.61	2.42	1.68	3.8	8	4.68	2.9	4.73	1.83	1.89	-	1.61	-
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	2.5	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	0.04	0.005 U	0.01 U	0.01 U	0.0107 J	-	U	0.01 U	0.03 U	-	0.077	0.01	0.02	0.01 U	-	0.01	-
Total Organic Halides (3)	mg/L	0.03 U	0.016	0.01 U	0.01 U	0.0008 J	-	U	0.01 U	0.03	-	0.068	0.01	0.02	0.01 U	-	0.01	-
Total Organic Halides (4)	mg/L	0.03 U	0.019	0.01 U	0.01 U	0.02 U	0.024	U	0.01 U	0.03	-	0.037	0.01 U	0.04	0.01 U	-	0.05	-
Total Organic Halides (TOX)	mg/L	0.03 U	0.007	0.01 U	0.01 U	0.017 J	-	U	0.01 U	0.06	-	0.071	0.01	0.02	0.01 U	-	0.01	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																		
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	1.2	1.01	1.07	1.09	1.06	1.2	1.03	1.22	1.27	-	1.108	1.345	1.57	1.279	-	1.24	1.062
Conductivity Field (2)	mmhos/cm	1.2	1.01	1.07	1.09	1.06	1.2	1.03	1.22	1.23	-	1.084	1.342	1.272	1.271	-	1.25	1.030
Conductivity Field (3)	mmhos/cm	1.2	1.00	1.07	1.09	1.06	1.2	1.02	1.21	1.23	-	1.098	1.34	1.268	1.264	-	1.23	1.023
Conductivity Field (4)	mmhos/cm	1.2	1.01	1.07	1.09	1.05	1.2	1.03	1.22	1.22	-	1.112	1.35	1.280	1.261	-	1.25	1.015
pH Field	S.U.	7.6	7.19	7.19	7.13	7.07	6.84	7.13	7.24	8.08	7.34	7.18	6.74	6.55	7.97	-	7.12	6.9
pH Field (2)	S.U.	7.6	7.20	7.21	7.15	6.95	6.86	7.21	7.23	8.28	7.30	7.18	6.79	7.45	7.89	-	7.30	6.9
pH Field (3)	S.U.	7.6	7.21	7.19	7.15	6.92	6.87	7.19	7.21	8.42	7.29	7.22	6.80	7.31	7.76	-	7.22	6.9
pH Field (4)	S.U.	7.6	7.25	7.19	7.16	7.04	6.96	7.20	7.23	8.46	7.38	7.25	6.92	7.23	7.68	-	7.22	6.9
Temperature, Field	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T
Sample Name:	P-02T	P-02T	E90443	E98150	E107742	E113030	E121670	E128392	E134497	E141431	E146577	E152697	E160170	E165454	E171017	E176116	E183284	E189232
Sample Date:	12/20/1993	3/29/1994	6/20/1994	9/22/1994	12/28/1994	3/20/1995	6/27/1995	9/27/1995	12/14/1995	4/5/1996	6/11/1996	8/27/1996	11/25/1996	2/26/1997	5/27/1997	8/19/1997	11/24/1997	2/25/1998

Parameters: Units

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Metals

Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	0.01 K	-	0.0017	-	0.0014	-	0.0047	-	0.001 U	-	-	-	-	-	-	-	-
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T
Sample Name:	P-02T	P-02T	E90443	E98150	E107742	E113030	E121670	E128392	E134497	E141431	E146577	E152697	E160170	E165454	E171017	E176116	E183284	E189232
Sample Date:	12/20/1993	3/29/1994	6/20/1994	9/22/1994	12/28/1994	3/20/1995	6/27/1995	9/27/1995	12/14/1995	4/5/1996	6/11/1996	8/27/1996	11/25/1996	2/26/1997	5/27/1997	8/19/1997	11/24/1997	2/25/1998
Parameters:	Units																	
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	0.12	-	-	-	0.3	-	-	0.033	-	-	-	18.3	-	-	-
Iron (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	0.003 K	-	0.001 U	-	0.001 U	-	0.001 U	-	0.001 U	-	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	0.45	-	-	-	0.44	-	-	0.401	-	-	-	0.68	-	-	-
Manganese (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	0.02 K	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.016	0.01 U	0.01 U	0.01 U	0.011	0.01 U	0.01 U	0.011	0.01 U
Nickel (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	2 K	-	1.6	-	1.5	-	1.7	-	1.6	-	-	-	-	-	-	-	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	32	-	-	-	34	-	-	31	-	-	-	34	-	-	-
Sodium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																		
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	15.8	-	20	19	21	23	21	21	23	23	24	23	25	27	27	27	29
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	-	0.009	-	-	-	0.01 U	-	-	0.01	-	-	-	0.01 U	-	-	-
Sulfate	mg/L	384	-	352	332	381	388	382	367	338	402	393	394	363	411	393	387	372
Temperature, Field	deg F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	1.75	-	1.8	-	1.6	-	2.2	-	2.2	-	1.4	-	1.6	-	2.1	-	-
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	0.01 K	-	0.01 U	-	0.01 U	-	0.01 U	-	0.01 U	-	0.01 U	-	0.01 U	-	0.01 U	-	0.01 U SI
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																		
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	1.30	1.99	1	-	1.1	0.9	0.92	0.844	0.875	0.986	0.719	0.833	0.816	0.926	0.832	0.759	0.967
Conductivity Field (2)	mmhos/cm	1.32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	1.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	1.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	S.U.	7.09	7.14	6.2	-	7.99	7.02	7.89	7.12	7.01	6.93	7.23	6.88	6.68	7.05	7.3	6.87	6.73
pH Field (2)	S.U.	6.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (3)	S.U.	6.94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (4)	S.U.	6.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field	Deg C	-	-	14	-	9.1	11.7	-	16.8	8.6	-	15.4	16.8	10.8	7.9	12.3	16	11.2

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location:	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T
Sample Name:	E196367	E205399	E210902	E216002	E222105	E228249	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T
Sample Date:	5/13/1998	8/20/1998	11/9/1998	2/3/1999	5/6/1999	8/4/1999	11/15/1999	2/3/2000	5/3/2000	8/31/2000	11/2/2000	2/15/2001	5/1/2001	8/14/2001	11/6/2001	2/5/2002	GW-12616-02 6/25/2002

Parameters: Units

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Metals

Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.026 J
Barium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.023 J

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T
Sample Name:	E196367	E205399	E210902	E216002	E222105	E228249	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T
Sample Date:	5/13/1998	8/20/1998	11/9/1998	2/3/1999	5/6/1999	8/4/1999	11/13/1999	2/3/2000	5/3/2000	8/31/2000	11/2/2000	2/13/2001	5/1/2001	8/14/2001	11/6/2001	2/5/2002	6/25/2002	GW-12616-02
Parameters:	Units																	
Cadmium	mg/L	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	184
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	182
Chromium Total	mg/L	-	-	-	-	-	-	-	0.05 U	-	-	-	-	-	-	-	-	0.010 U
Chromium Total (Dissolved)	mg/L	-	-	-	-	-	-	-	0.05 U	-	-	-	-	-	-	-	-	0.010 U
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	0.05 U	-	-	-	-	-	-	-	-	-
Iron	mg/L	6.67	-	-	-	23.8	-	-	33.1	-	-	-	49.8	-	-	-	-	0.91
Iron (Dissolved)	mg/L	-	-	-	-	-	-	-	0.1 U	-	-	-	-	-	-	-	-	0.45
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	76.4
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75.8
Manganese	mg/L	0.79	-	-	-	1.16	-	-	0.86 J	-	-	-	1.1	-	-	-	-	0.28
Manganese (Dissolved)	mg/L	-	-	-	-	-	-	-	0.39	-	-	-	-	-	-	-	-	0.29
Mercury (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	0.01 U	0.15	0.033	0.028	0.01 U	0.08	0.019	0.025	0.03	0.01 U	0.057	0.099	0.051	0.01 U	0.025	0.14	0.0050 J
Nickel (Dissolved)	mg/L	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-	-	0.0050 J
Potassium	mg/L	-	-	-	-	4	-	-	-	9.2	-	-	-	6	-	-	-	1.3 J
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	1.2	-	-	-	-	-	-	-	1.1 J
Selenium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	35	-	-	-	31	-	-	-	35 J	-	-	-	34	-	-	-	37.6
Sodium (Dissolved)	mg/L	-	-	-	-	-	-	-	35	-	-	-	-	-	-	-	-	37.2
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																		
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	29	30	32	29	33	33	33	34	34	36	37	44	42	50	46	53	54.3
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.010 U
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.580	-
Phenolics (Total)	mg/L	0.01 U	-	-	-	0.01 U	-	-	-	0.01 U	-	-	-	0.01 U	-	-	-	-
Sulfate	mg/L	404	403	319	363	380	398	374	417	427	427	394	444	418	457	466	488	508
Temperature, Field	deg F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.6	-
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	2.4	-	3.8	-	2.5	-	2	-	2.4	-	2.9	-	2.4	-	2.8	-	-
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	0.01 U SI	-	0.0154	-	0.01 U	-	0.01 U	-	0.01 U	-	0.01 U	-	0.01 U	-	0.01 U	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																		
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.450	1.43
Conductivity Field	mmhos/cm	1.287	1.194	1.219	1.227	1.117	1.168	1.027	1.088	0.993	1.292	1.236	-	-	-	-	-	-
Conductivity Field (2)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	S.U.	7.34	6.57	6.81	6.69	6.67	7.20	6.60	6.94	6.66	6.68	6.75	-	-	-	-	-	8.26
pH Field (2)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (3)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (4)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field	Deg C	12.7	18.7	13.5	8.0	14.0	18.1	11.7	7.1	13.2	19.6	15.6	-	-	-	-	-	17.48

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T
Sample Name:	GW-12616-082802-DCR-007	W-12616-112502-DEN-010	W-12616-022603-DEN-06	W-12616-052703-DEN-06E	W-12616-052803-DEN-06	W-12616-38-082603-DEN-05	W-12616-38-110503-DEN-04C
Sample Date:	8/28/2002	11/25/2002	2/26/2003	5/27/2003	5/28/2003	8/26/2003	11/5/2003

Parameters: **Units**

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-

Metals

Aluminum (Dissolved)	mg/L	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-
Barium	mg/L	0.024 J	0.027 J	0.032 J	-	0.023 J	-
Barium (Dissolved)	mg/L	0.024 J	0.025 J	0.021 J	-	0.023 J	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-02T</i>	<i>P-02T</i>	<i>P-02T</i>	<i>P-02T</i>	<i>P-02T</i>	<i>P-02T</i>	<i>P-02T</i>
<i>Sample Name:</i>		<i>GW-12616-082802-DCR-007</i>	<i>W-12616-112502-DEN-010</i>	<i>W-12616-022603-DEN-06</i>	<i>W-12616-052703-DEN-06E</i>	<i>W-12616-052803-DEN-06</i>	<i>W-12616-38-082603-DEN-05</i>	<i>W-12616-38-110503-DEN-04C</i>
<i>Sample Date:</i>		<i>8/28/2002</i>	<i>11/25/2002</i>	<i>2/26/2003</i>	<i>5/27/2003</i>	<i>5/28/2003</i>	<i>8/26/2003</i>	<i>11/3/2003</i>
<i>Parameters:</i>	<i>Units</i>							
Cadmium	mg/L	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-
Calcium	mg/L	177 J	205	202	-	214	202	-
Calcium (Dissolved)	mg/L	183	193	189	212	201	198	206
Chromium Total	mg/L	0.010 U	0.010 U	0.010 U	-	0.010 U	0.010 U	-
Chromium Total (Dissolved)	mg/L	0.010 U	0.010 U	0.010 U	-	0.010 U	0.010 U	-
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-
Iron	mg/L	0.60	0.66	3.3	-	0.36	0.76	-
Iron (Dissolved)	mg/L	0.38	0.49	0.25	-	0.28	0.36	-
Lead	mg/L	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-
Magnesium	mg/L	72.6	81.4	83.9	-	86.8	81.4	-
Magnesium (Dissolved)	mg/L	75.5	76.9	78.2	85.9	81.5	80.2	84.2
Manganese	mg/L	0.37	0.31	0.25	-	0.20	0.26 J	-
Manganese (Dissolved)	mg/L	0.34	0.31	0.19	-	0.20	0.25	-
Mercury (Dissolved)	mg/L	-	-	-	-	-	-	-
Nickel	mg/L	0.0053 J	0.0076 J	0.010 J	-	0.0069 J	0.0081 J	-
Nickel (Dissolved)	mg/L	0.0039 J	0.0064 J	0.0071 J	-	0.0063 J	0.0075 J	-
Potassium	mg/L	1.2 J	1.7 J	1.8 J	-	1.3 J	1.4 J	-
Potassium (Dissolved)	mg/L	1.3 J	1.6 J	1.1 J	-	1.2 J	1.3 J	-
Selenium (Dissolved)	mg/L	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-
Sodium	mg/L	37.4	40.4	41.3	-	41.5	41.6	-
Sodium (Dissolved)	mg/L	38.9	38.2	38.8	-	38.9	40.6	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-
<i>General Chemistry</i>								
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-
Chloride	mg/L	43.1	44.8	52.7	57.8	53.5	58.3	62.4
Cyanide (total)	mg/L	0.010 U	0.010 U	0.010 U	-	0.010 U	0.010 U	-
Fluoride	mg/L	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	-	-	-	-	-	-
Sulfate	mg/L	470	468	512	-	515	530	508
Temperature, Field	deg F	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-
<i>Field Parameters</i>								
Conductivity	mmhos/cm	1.429	1.49	1.57	1.67	1.49	-	-
Conductivity Field	mmhos/cm	-	-	-	-	-	1.65	1.65
Conductivity Field (2)	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-	-	-	-	-
pH Field	S.U.	6.82	7.16	6.91	6.76	6.71	6.85	7.02
pH Field (2)	S.U.	-	-	-	-	-	-	-
pH Field (3)	S.U.	-	-	-	-	-	-	-
pH Field (4)	S.U.	-	-	-	-	-	-	-
Temperature, Field	Deg C	17.5	11.22	7.49	12.69	13.66	19.15	15.99

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T
Sample Name:	W-12616-38-110503-DEN-06C	W-12616-38-111703-DEN-04	W-12616-38-121503-DEN-07	W-12616-38-121603-ACL-014	W-12616-011404-DEN-03C	W-12616-011404-DEN-03S	W-12616-022504-DEN-06
Sample Date:	11/5/2003	11/17/2003	12/15/2003	12/16/2003	1/14/2004	1/14/2004	2/25/2004
	Duplicate						
Parameters:	Units						
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	mg/L	-	-	0.001 U	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	0.001 U	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	0.001 U	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	0.001 U	-	-	-
1,1-Dichloroethane	mg/L	-	-	0.001 U	-	-	-
1,1-Dichloroethene	mg/L	-	-	0.001 U	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	0.001 U	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	0.002 U	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	0.001 U	-	-	-
1,2-Dichloroethane	mg/L	-	-	0.001 U	-	-	-
1,2-Dichloropropane	mg/L	-	-	0.001 U	-	-	-
1,4-Dioxane	mg/L	-	-	0.2 U	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	0.01 U	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	0.01 U	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	0.01 U	-	-	-
Acetone	mg/L	-	-	0.01 U	-	-	-
Acetonitrile	mg/L	-	-	0.02 U	-	-	-
Acrolein	mg/L	-	-	0.02 U	-	-	-
Acrylonitrile	mg/L	-	-	0.02 U	-	-	-
Allyl chloride	mg/L	-	-	0.002 U	-	-	-
Benzene	mg/L	-	-	0.001 U	-	-	-
Bromodichloromethane	mg/L	-	-	0.001 U	-	-	-
Bromoform	mg/L	-	-	0.001 U	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	0.001 U	-	-	-
Carbon disulfide	mg/L	-	-	0.001 U	-	-	-
Carbon tetrachloride	mg/L	-	-	0.001 U	-	-	-
Chlorobenzene	mg/L	-	-	0.001 U	-	-	-
Chloroethane	mg/L	-	-	0.001 U	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	0.001 U	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	0.001 U	-	-	-
Chloroprene	mg/L	-	-	0.002 U	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	0.001 U	-	-	-
Dibromochloromethane	mg/L	-	-	0.001 U	-	-	-
Dibromomethane	mg/L	-	-	0.001 U	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	0.001 U	-	-	-
Ethyl methacrylate	mg/L	-	-	0.001 U	-	-	-
Ethylbenzene	mg/L	-	-	0.001 U	-	-	-
Iodomethane	mg/L	-	-	0.001 U	-	-	-
Isobutyl alcohol	mg/L	-	-	0.05 U	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	0.002 U	-	-	-
Methyl methacrylate	mg/L	-	-	0.002 U	-	-	-
Methylene chloride	mg/L	-	-	0.001 U	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	0.004 U	-	-	-
Styrene	mg/L	-	-	0.001 U	-	-	-
Tetrachloroethene	mg/L	-	-	0.001 U	-	-	-
Toluene	mg/L	-	-	0.001 U	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	0.001 U	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	0.001 U	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	0.001 U	-	-	-
Trichloroethene	mg/L	-	-	0.001 U	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	0.001 U	-	-	-
Vinyl acetate	mg/L	-	-	0.002 U	-	-	-
Vinyl chloride	mg/L	-	-	0.001 U	-	-	-
Xylene (total)	mg/L	-	-	0.002 U	-	-	-
Metals							
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-
Barium	mg/L	-	0.022 J	0.025 J	-	0.023 J	0.023 J
Barium (Dissolved)	mg/L	-	0.021 J	0.026 J	-	0.024 J	0.023 J

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-02T</i>	<i>P-02T</i>	<i>P-02T</i>	<i>P-02T</i>	<i>P-02T</i>	<i>P-02T</i>	<i>P-02T</i>
<i>Sample Name:</i>		W-12616-38-110503-DEN-06C	W-12616-38-111703-DEN-04	W-12616-38-121503-DEN-07	W-12616-38-121603-ACL-014	W-12616-011404-DEN-03C	W-12616-011404-DEN-03S	W-12616-022504-DEN-06
<i>Sample Date:</i>		11/5/2003	11/17/2003	12/15/2003	12/16/2003	1/14/2004	1/14/2004	2/25/2004
		<i>Duplicate</i>						
<i>Parameters:</i>	<i>Units</i>							
Cadmium	mg/L	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-
Calcium	mg/L	-	199	193	-	-	-	234
Calcium (Dissolved)	mg/L	215	198	198	-	220	-	230
Chromium Total	mg/L	-	0.010 U	0.010 U	-	-	-	0.010 U
Chromium Total (Dissolved)	mg/L	-	0.010 U	0.010 U	-	-	-	0.010 U
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-
Iron	mg/L	-	0.37	0.33	-	-	-	0.33
Iron (Dissolved)	mg/L	-	0.28	0.41	-	-	-	0.35
Lead	mg/L	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-
Magnesium	mg/L	-	76.1	81.2	-	-	-	93.4
Magnesium (Dissolved)	mg/L	87.5	76.0	83.2	-	86.9	-	91.8
Manganese	mg/L	-	0.20	0.25	-	-	-	0.19
Manganese (Dissolved)	mg/L	-	0.19	0.28	-	-	-	0.26
Mercury (Dissolved)	mg/L	-	-	-	-	-	-	-
Nickel	mg/L	-	0.0078 J	0.0068 J	-	-	0.0080 J	0.0077 J
Nickel (Dissolved)	mg/L	-	0.0069 J	0.0059 J	-	-	0.0074 J	0.0077 J
Potassium	mg/L	-	1.6 J	1.4 J	-	-	-	5.0 U
Potassium (Dissolved)	mg/L	-	1.5 J	1.5 J	-	-	-	5.0 U
Selenium (Dissolved)	mg/L	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-
Sodium	mg/L	-	43.6	42.4	-	-	-	45.7
Sodium (Dissolved)	mg/L	-	42.7	43.1	-	-	-	44.5
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-
<i>General Chemistry</i>								
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-
Chloride	mg/L	60.9	56.1	55.6	-	62.0	-	61.8
Cyanide (total)	mg/L	-	0.060	-	0.010 U	0.010 U	-	0.010 U
Fluoride	mg/L	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	-	-	-	-	-	-
Sulfate	mg/L	501	516	499	-	521	-	526
Temperature, Field	deg F	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-
<i>Field Parameters</i>								
Conductivity	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	-	1.47	-	-	-	-	-
Conductivity Field (2)	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-	-	-	-	-
pH Field	S.U.	-	6.95	-	-	-	-	-
pH Field (2)	S.U.	-	-	-	-	-	-	-
pH Field (3)	S.U.	-	-	-	-	-	-	-
pH Field (4)	S.U.	-	-	-	-	-	-	-
Temperature, Field	Deg C	-	12.91	-	-	-	-	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location:		P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T
Sample Name:		W-12616-022504-DEN-07	W-12616-042204-DEN-06	W-12616-081704-DEN-05	WG-12616-101904-DEN-06	WG-12616-021505-DEN-07	WG-12616-033105-DEN-04	WG-12616-080305-DEN-05
Sample Date:		2/25/2004	4/22/2004	8/17/2004	10/19/2004	2/15/2005	3/31/2005	8/3/2005
Parameters:		Duplicate						
	Units							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-
Metals								
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-	-
Barium	mg/L	0.023 J	-	0.022 J	-	0.019 J	-	0.019 J
Barium (Dissolved)	mg/L	0.023 J	-	0.022 J	-	0.021 J	-	0.022 J

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-02T	P-02T	P-02T	P-02T	P-02T	P-02T	P-02T
Sample Name:		W-12616-022504-DEN-07	W-12616-042204-DEN-06	W-12616-081704-DEN-05	WG-12616-101904-DEN-06	WG-12616-021505-DEN-07	WG-12616-033105-DEN-04	WG-12616-080305-DEN-05
Sample Date:		2/25/2004	4/22/2004	8/17/2004	10/19/2004	2/15/2005	3/31/2005	8/3/2005
		Duplicate						
Parameters:	Units							
Cadmium	mg/L	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-
Calcium	mg/L	230	-	246	-	203	-	200
Calcium (Dissolved)	mg/L	221	226	247	214	219	228	224
Chromium Total	mg/L	0.010 U	-	0.010 U	-	0.010 U	-	0.010 U
Chromium Total (Dissolved)	mg/L	0.010 U	-	0.010 U	-	0.010 U	-	0.010 U
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-
Copper	mg/L	-	-	0.025 U	-	-	-	0.025 U
Copper (Dissolved)	mg/L	-	-	0.025 U	-	-	-	0.025 U
Cyanide (total)	mg/L	-	-	-	-	-	-	-
Iron	mg/L	0.43	-	0.54	-	0.16	-	0.39
Iron (Dissolved)	mg/L	0.31	-	0.33	-	0.13	-	0.23
Lead	mg/L	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-
Magnesium	mg/L	92.0	-	85.8	-	83.6	-	79.6
Magnesium (Dissolved)	mg/L	88.5	89.2	82.8	87.1	90.8	91.6	90.3
Manganese	mg/L	0.21	-	0.27	-	0.099	-	0.29
Manganese (Dissolved)	mg/L	0.24	-	0.27	-	0.14	-	0.29
Mercury (Dissolved)	mg/L	-	-	-	-	-	-	-
Nickel	mg/L	0.0074 J	-	0.0086 J	-	0.0065 J	-	0.0076 J
Nickel (Dissolved)	mg/L	0.0073 J	-	0.0084 J	-	0.0082 J	-	0.0079 J
Potassium	mg/L	5.0 U	-	1.3 J	-	1.2 J	-	1.2 J
Potassium (Dissolved)	mg/L	5.0 U	-	1.3 J	-	1.2 J	-	1.3 J
Selenium (Dissolved)	mg/L	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-
Sodium	mg/L	45.0	-	45.4	-	46.0 J	-	42.0
Sodium (Dissolved)	mg/L	42.8	-	44.1	-	49.7	-	46.9
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-
General Chemistry								
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-
Chloride	mg/L	62.0	67.6	62.6	63.3	72.7	78.9	76.4
Cyanide (total)	mg/L	0.010 U	-	0.010 U	-	0.010 U	-	0.010 U
Fluoride	mg/L	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	-	-	-	-	-	-
Sulfate	mg/L	525	556	537	520	568	591	595
Temperature, Field	deg F	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	mg/L	-	-	1400	-	-	-	1400
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	11 J	-	-	-	14
Field Parameters								
Conductivity	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field (2)	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-	-	-	-	-
pH Field	S.U.	-	-	-	-	-	-	-
pH Field (2)	S.U.	-	-	-	-	-	-	-
pH Field (3)	S.U.	-	-	-	-	-	-	-
pH Field (4)	S.U.	-	-	-	-	-	-	-
Temperature, Field	Deg C	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-02T	P-02T	P-02T	P-02T	P-02T
Sample Name:		WG-12616-100305-DN-05	WG-12616-021506-DN-03	WG-12616-040406-DN-04	WG-12616-081506-DN-06	WG-12616-101206-DN-01
Sample Date:		10/3/2005	2/15/2006	4/4/2006	8/15/2006	10/12/2006
Parameters:	Units					
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-
Metals						
Aluminum (Dissolved)	mg/L	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-
Arsenic (Dissolved)	mg/L	-	-	-	-	-
Barium	mg/L	-	0.022 J	-	0.024 J	-
Barium (Dissolved)	mg/L	-	0.021 J	-	0.023 J	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-02T</i>	<i>P-02T</i>	<i>P-02T</i>	<i>P-02T</i>	<i>P-02T</i>
<i>Sample Name:</i>		<i>WG-12616-100305-DN-05</i>	<i>WG-12616-021506-DN-03</i>	<i>WG-12616-040406-DN-04</i>	<i>WG-12616-081506-DN-06</i>	<i>WG-12616-101206-DN-01</i>
<i>Sample Date:</i>		<i>10/3/2005</i>	<i>2/15/2006</i>	<i>4/4/2006</i>	<i>8/15/2006</i>	<i>10/12/2006</i>
<i>Parameters:</i>	<i>Units</i>					
Cadmium	mg/L	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-
Calcium	mg/L	-	246	-	253	-
Calcium (Dissolved)	mg/L	237	240	251	242	242
Chromium Total	mg/L	-	0.010 U	-	0.010 U	-
Chromium Total (Dissolved)	mg/L	-	0.010 U	-	0.010 U	-
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-
Copper	mg/L	-	-	-	0.0027 J	-
Copper (Dissolved)	mg/L	-	-	-	0.025 U	-
Cyanide (total)	mg/L	-	-	-	-	-
Iron	mg/L	-	0.15 U	-	0.30	-
Iron (Dissolved)	mg/L	-	0.15 U	-	0.30	-
Lead	mg/L	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-
Magnesium	mg/L	-	102	-	102	-
Magnesium (Dissolved)	mg/L	97.9	100	96.5	97.7	97.8
Manganese	mg/L	-	0.16	-	0.35	-
Manganese (Dissolved)	mg/L	-	0.17	-	0.33	-
Mercury (Dissolved)	mg/L	-	-	-	-	-
Nickel	mg/L	-	0.0091 J	-	0.011 J	-
Nickel (Dissolved)	mg/L	-	0.0089 J	-	0.0082 J	-
Potassium	mg/L	-	1.3 J	-	1.3 J	-
Potassium (Dissolved)	mg/L	-	1.3 J	-	1.3 J	-
Selenium (Dissolved)	mg/L	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-
Sodium	mg/L	-	50.0	-	51.5	-
Sodium (Dissolved)	mg/L	-	48.5	-	49.1	-
Zinc (Dissolved)	mg/L	-	-	-	-	-
<i>General Chemistry</i>						
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-
Chloride	mg/L	72.9	97.1	99.8	86.5	83.8
Cyanide (total)	mg/L	-	0.010 U	-	0.010 U	-
Fluoride	mg/L	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-
Phenolics (Total)	mg/L	-	-	-	-	-
Sulfate	mg/L	577	627	602	633	576
Temperature, Field	deg F	-	-	-	-	-
Total Dissolved Solids (TDS)	mg/L	-	-	-	1400	-
Total Organic Carbon (2)	mg/L	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	7.0	-
<i>Field Parameters</i>						
Conductivity	mmhos/cm	-	-	-	-	-
Conductivity Field	mmhos/cm	-	-	-	-	-
Conductivity Field (2)	mmhos/cm	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-	-	-
pH Field	S.U.	-	-	-	-	-
pH Field (2)	S.U.	-	-	-	-	-
pH Field (3)	S.U.	-	-	-	-	-
pH Field (4)	S.U.	-	-	-	-	-
Temperature, Field	Deg C	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-03	P-03	P-03	P-03	P-03	P-03	P-03	P-03	P-03	P-03
Sample Name:	7637	P-3	P-03	25970	P-3	P-3	47723	48346	P-03	GW-3
Sample Date:	10/17/1984	10/17/1984	6/18/1986	8/25/1987	12/15/1987	3/22/1988	6/28/1988	8/31/1988	12/29/1988	1/21/1992

Parameters: **Units**

Volatile Organic Compounds

1,1,1-Trichloroethane	mg/L	-	0.002 U	0.005 U	U	-	-	-	-	-	0.005 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.002 U	-	U	-	-	-	-	-	0.005 U
1,1,2-Trichloroethane	mg/L	-	0.002 U	-	U	-	-	-	-	-	0.005 U
1,1-Dichloroethane	mg/L	-	0.002 U	-	U	-	-	-	-	-	0.005 U
1,1-Dichloroethene	mg/L	-	0.002 U	-	U	-	-	-	-	-	0.005 U
1,2-Dichloroethane	mg/L	-	0.002 U	-	U	-	-	-	-	-	0.005 U
1,2-Dichloropropane	mg/L	-	0.002 U	-	U	-	-	-	-	-	0.005 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	0.05 U	-	-	-	-	-	0.01 U
2-Chloroethyl vinyl ether	mg/L	-	0.01 U	-	U	-	-	-	-	-	0.01 U
2-Hexanone	mg/L	-	-	-	-	-	-	-	-	-	0.01 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	0.01 U
Acetone	mg/L	-	-	-	-	-	-	-	-	-	0.01 U
Acrolein	mg/L	-	-	-	U	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	U	-	-	-	-	-	-
Benzene	mg/L	-	-	-	U	-	-	-	-	-	0.005 U
Bromodichloromethane	mg/L	-	0.002 U	-	U	-	-	-	-	-	0.005 U
Bromoform	mg/L	-	0.002 U	-	U	-	-	-	-	-	0.005 U
Bromomethane (Methyl Bromide)	mg/L	-	0.002 U	-	U	-	-	-	-	-	0.01 U
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-	-	0.005 U
Carbon tetrachloride	mg/L	-	0.002 U	-	U	-	-	-	-	-	0.005 U
Chlorobenzene	mg/L	-	0.002 U	-	U	-	-	-	-	-	0.005 U
Chloroethane	mg/L	-	0.002 U	-	U	-	-	-	-	-	0.01 U
Chloroform (Trichloromethane)	mg/L	-	0.002 U	-	U	-	-	-	-	-	0.005 U
Chloromethane (Methyl Chloride)	mg/L	-	0.002 U	-	U	-	-	-	-	-	0.01 U
cis-1,3-Dichloropropene	mg/L	-	0.002 U*	-	U*	-	-	-	-	-	0.005 U
Dibromochloromethane	mg/L	-	0.002 U	-	U	-	-	-	-	-	0.005 U
Dichlorodifluoromethane (CFC-12)	mg/L	-	0.002 U	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	mg/L	-	-	-	0.002	-	-	-	-	-	-
Ethylbenzene	mg/L	-	0.005 U	-	U	-	-	-	-	-	0.005 U
Formaldehyde	mg/L	-	-	0.05 U	1 U	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	0.1 U	-	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-	-	-	-	0.005 U
Methylene chloride	mg/L	-	0.01 U	0.005 U	U	-	-	-	-	-	0.005 U
o-Xylene	mg/L	-	-	-	-	-	-	-	-	-	0.005 U
Styrene	mg/L	-	-	-	-	-	-	-	-	-	0.005 U
Tetrachloroethene	mg/L	-	0.002 U	-	U	-	-	-	-	-	0.005 U
Toluene	mg/L	-	-	-	U	-	-	-	-	-	0.005 U
trans-1,2-Dichloroethene	mg/L	-	0.002 U	-	U	-	-	-	-	-	0.005 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	0.005 U
Trichloroethene	mg/L	-	0.002 U	0.44	U	-	-	-	-	-	0.005 U
Trichlorofluoromethane (CFC-11)	mg/L	-	0.002 U	-	U	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-	-	0.01 U
Vinyl chloride	mg/L	-	0.002 U	-	U	-	-	-	-	-	0.01 U

Metals

Aluminum	mg/L	-	-	-	3	-	-	0.59	0.91	1	-
Aluminum (Dissolved)	mg/L	-	-	0.03	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	0.005	-	-	-	-	-	-
Arsenic (Dissolved)	mg/L	-	-	0.03 U	-	-	-	0.05 U	0.05 U	0.05 U	-
Barium (Dissolved)	mg/L	-	-	0.20	0.05 U	-	-	0.5 U	0.097	0.2 U	-
Cadmium	mg/L	-	-	-	0.01 U	-	-	-	-	-	0.01 U
Cadmium (Dissolved)	mg/L	-	-	0.01 U	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U
Calcium	mg/L	-	-	-	-	-	-	180	140	210	300
Chromium III (Trivalent)	mg/L	0.026	-	-	0.03	-	-	-	-	-	-
Chromium III (Trivalent) (Dissolved)	mg/L	-	-	0.01 U	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-03</i>	<i>P-03</i>	<i>P-03</i>	<i>P-03</i>	<i>P-03</i>	<i>P-03</i>	<i>P-03</i>	<i>P-03</i>	<i>P-03</i>	<i>P-03</i>
<i>Sample Name:</i>		<i>7637</i>	<i>P-3</i>	<i>P-03</i>	<i>25970</i>	<i>P-3</i>	<i>P-3</i>	<i>47723</i>	<i>48346</i>	<i>P-03</i>	<i>GW-3</i>
<i>Sample Date:</i>		<i>10/17/1984</i>	<i>10/17/1984</i>	<i>6/18/1986</i>	<i>8/25/1987</i>	<i>12/15/1987</i>	<i>3/22/1988</i>	<i>6/28/1988</i>	<i>8/31/1988</i>	<i>12/29/1988</i>	<i>1/21/1992</i>
<i>Parameters:</i>	<i>Units</i>										
Chromium Total	mg/L	-	-	-	0.03	-	-	0.046	0.032	0.03 U	0.02 U
Chromium Total (Dissolved)	mg/L	-	-	0.01 U	-	-	-	-	-	-	0.02 U
Chromium VI (Hexavalent)	mg/L	0.002 U	-	-	0.05 U	-	-	-	-	-	0.02 U
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	0.02 U	-	-	-	0.01 U	0.01 U	0.01 U	0.02 U
Copper	mg/L	-	-	-	0.02 U	-	-	-	-	-	-
Copper (Dissolved)	mg/L	0.017	-	0.01	-	-	-	0.01 U	0.029	0.01 U	-
Cyanide (total)	mg/L	-	-	-	0.02	-	-	0.01 U	0.01 U	0.01 U	0.005 U
Iron	mg/L	-	-	-	4.3	-	0.76	1.9	1.9	1.3	-
Iron (Dissolved)	mg/L	12	-	0.46	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	0.05 U	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	0.01	-	-	-	0.02 U	0.02 U	0.02 U	-
Magnesium	mg/L	-	-	-	72	-	-	-	-	53	92
Magnesium (Dissolved)	mg/L	-	-	76	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	0.71	-	-	0.58	0.58	0.42	-
Manganese (Dissolved)	mg/L	0.025	-	0.34	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	0.0005 U	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	-	-	0.001 U	-	-	-	0.0002 U	0.0002 U	0.0002 U	-
Nickel	mg/L	-	-	-	0.42	-	-	0.31	0.54	0.43	0.67
Nickel (Dissolved)	mg/L	0.392	-	0.01 U	-	-	-	-	-	-	0.68
Potassium	mg/L	-	-	-	-	-	-	-	-	-	6
Selenium	mg/L	-	-	-	0.005 U	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	-	0.04 U	-	-	-	0.01 U	0.01 U	0.01 U	-
Silver	mg/L	-	-	-	0.02 U	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	0.01 U	-	-	-	0.02 U	0.02 U	0.02 U	-
Sodium	mg/L	-	-	-	80	-	-	92	91	120	78
Sodium (Dissolved)	mg/L	53.8	-	100	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	0.02 U	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	0.128	-	0.14	-	-	-	0.01 U	0.03	0.01 U	-
<i>Pesticides</i>											
2,4,5-TP (Silvex)	mg/L	-	-	0.001 U	0.01 U	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	0.001 U	0.1 U	-	-	-	-	-	-
Endrin	mg/L	-	-	0.00001 U	0.0002 U	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	0.00001 U	0.004 U	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	0.0001 U	0.1 U	-	-	-	-	-	-
Toxaphene	mg/L	-	-	0.0005 U	0.005 U	-	-	-	-	-	-
<i>Bio</i>											
Total Coliform Bacteria	cfu/100mL	-	-	1200	80	-	-	-	-	-	-
<i>Radiology</i>											
Gross Alpha Analytes	pci/L	-	-	5.4	5	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	6.0	3	-	-	-	-	-	-
Radium	pci/L	-	-	-	1	-	-	-	-	-	-
Radium-226	pci/L	-	-	3.8	-	-	-	-	-	-	-
<i>General Chemistry</i>											
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-	-	-	320
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-	-	-	2 U
Chloride	mg/L	52.8	-	142	56	-	-	63	50	40	63
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	1445	-	-	-	-
Fluoride	mg/L	-	-	0.14	0.38	-	-	0.4	2.45	0.39	-
Nitrate (as N)	mg/L	-	-	0.012	0.02 U	-	-	0.09	0.25	0.083	-
pH Field (Average)	s.u.	-	-	-	-	-	7.4	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-03	P-03	P-03	P-03	P-03	P-03	P-03	P-03	P-03	P-03
Sample Name:	7637	P-3	P-03	25970	P-3	P-3	47723	48346	P-03	GW-3
Sample Date:	10/17/1984	10/17/1984	6/18/1986	8/25/1987	12/15/1987	3/22/1988	6/28/1988	8/31/1988	12/29/1988	1/21/1992

Parameters:	Units										
Phenolics (Total)	mg/L	0.03	-	0.004 U	0.004	-	-	0.021	0.01 U	0.01 U	-
Sulfate	mg/L	408	-	389	450	-	-	5500	380	440	1100
Sulfates	mg/L	-	-	-	-	493	460	-	-	-	-
Total Coliform Bacteria	/100mL	-	-	-	-	-	85	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	5	-	-	1	26	12	7.9
Total Organic Carbon (3)	mg/L	-	-	-	5	-	-	5	18	10	7.9
Total Organic Carbon (4)	mg/L	-	-	-	5	-	-	1	25	16	7.9
Total Organic Carbon (TOC)	mg/L	6.6	-	-	5	-	5.5	5	20	9	7.8
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	21
Total Organic Halides (2)	mg/L	-	-	-	0.01 U	-	-	0.04	0.04	0.04	0.031
Total Organic Halides (3)	mg/L	-	-	-	0.01 U	-	-	0.04	0.35	0.04	0.039
Total Organic Halides (4)	mg/L	-	-	-	0.01 U	-	-	0.05	0.02	0.04	0.064
Total Organic Halides (TOX)	mg/L	0.11	-	-	0.01 U	-	0.047	0.05	0.04	0.03	0.05
Turbidity	NTU	-	-	0.22	69	-	-	-	-	-	-

Field Parameters

Conductivity Field	mmhos/cm	1.500	-	-	1.400	-	-	1.450	1.45	1.7	1.793
Conductivity Field (2)	mmhos/cm	-	-	-	1.425	-	-	1.460	1.45	1.7	1.825
Conductivity Field (3)	mmhos/cm	-	-	-	1.400	-	-	1.450	1.46	1.7	1.750
Conductivity Field (4)	mmhos/cm	-	-	-	1.425	-	-	1.450	1.45	1.7	1.750
pH Field	S.U.	7.2	-	-	6.95	-	-	7.32	7.4	7.4	7.54
pH Field (2)	S.U.	-	-	-	6.95	-	-	7.31	-	7.4	7.47
pH Field (3)	S.U.	-	-	-	6.95	-	-	7.31	-	7.4	7.56
pH Field (4)	S.U.	-	-	-	6.95	-	-	7.32	-	7.4	7.52
Temperature, Field	Deg C	-	-	-	-	-	-	8.6	-	-	-
Temperature, Field (2)	Deg C	-	-	-	-	-	-	8.6	-	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	8.6	-	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	8.5	-	-	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Page 1 of 2

<i>Sample Location:</i>	<i>P-04R</i>	<i>P-04R</i>
<i>Sample Name:</i>	<i>P-4R</i>	<i>GW-4R</i>
<i>Sample Date:</i>	<i>12/15/1987</i>	<i>1/22/1992</i>

<i>Parameters:</i>	<i>Units</i>		
<i>Volatile Organic Compounds</i>			
1,1,1-Trichloroethane	mg/L	-	0.005 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.005 U
1,1,2-Trichloroethane	mg/L	-	0.005 U
1,1-Dichloroethane	mg/L	-	0.005 U
1,1-Dichloroethene	mg/L	-	0.005 U
1,2-Dichloroethane	mg/L	-	0.005 U
1,2-Dichloropropane	mg/L	-	0.005 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	0.01 U
2-Chloroethyl vinyl ether	mg/L	-	0.01 U
2-Hexanone	mg/L	-	0.01 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	0.01 U
Acetone	mg/L	-	0.01 U
Benzene	mg/L	-	0.005 U
Bromodichloromethane	mg/L	-	0.005 U
Bromoform	mg/L	-	0.005 U
Bromomethane (Methyl Bromide)	mg/L	-	0.01 U
Carbon disulfide	mg/L	-	0.005 U
Carbon tetrachloride	mg/L	-	0.005 U
Chlorobenzene	mg/L	-	0.005 U
Chloroethane	mg/L	-	0.01 U
Chloroform (Trichloromethane)	mg/L	-	0.005 U
Chloromethane (Methyl Chloride)	mg/L	-	0.01 U
cis-1,3-Dichloropropene	mg/L	-	0.005 U
Dibromochloromethane	mg/L	-	0.005 U
Ethylbenzene	mg/L	-	0.005 U
m&p-Xylene	mg/L	-	0.005 U
Methylene chloride	mg/L	-	0.005 U
o-Xylene	mg/L	-	0.005 U
Styrene	mg/L	-	0.005 U
Tetrachloroethene	mg/L	-	0.005 U
Toluene	mg/L	-	0.005 U
trans-1,2-Dichloroethene	mg/L	-	0.005 U
trans-1,3-Dichloropropene	mg/L	-	0.005 U
Trichloroethene	mg/L	-	0.005 U
Vinyl acetate	mg/L	-	0.01 U
Vinyl chloride	mg/L	-	0.01 U
<i>Metals</i>			
Cadmium	mg/L	-	0.01 U
Cadmium (Dissolved)	mg/L	-	0.01 U
Calcium	mg/L	-	97
Chromium Total	mg/L	0.084	0.14
Chromium Total (Dissolved)	mg/L	-	0.02 U
Chromium VI (Hexavalent)	mg/L	-	0.02 U
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	0.02 U
Cyanide (total)	mg/L	-	0.02 U
Magnesium	mg/L	-	31
Nickel	mg/L	-	0.18
Nickel (Dissolved)	mg/L	-	0.04 U
Potassium	mg/L	-	17
Sodium	mg/L	-	140

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location:	P-04R	P-04R
Sample Name:	P-4R	GW-4R
Sample Date:	12/15/1987	1/22/1992

<i>Parameters:</i>	<i>Units</i>		
<i>General Chemistry</i>			
Alkalinity, Bicarbonate	mg/L	-	460
Alkalinity, Carbonate	mg/L	-	2 U
Chloride	mg/L	-	120
Sulfate	mg/L	-	6.7
Total Organic Carbon (2)	mg/L	-	5.2
Total Organic Carbon (3)	mg/L	-	5.1
Total Organic Carbon (4)	mg/L	-	5.1
Total Organic Carbon (TOC)	mg/L	-	5.2
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	5.5
Total Organic Halides (2)	mg/L	-	0.019
Total Organic Halides (3)	mg/L	-	0.019
Total Organic Halides (4)	mg/L	-	0.035
Total Organic Halides (TOX)	mg/L	-	0.024

<i>Field Parameters</i>			
Conductivity Field	mmhos/cm	-	0.959
Conductivity Field (2)	mmhos/cm	-	0.966
Conductivity Field (3)	mmhos/cm	-	0.959
Conductivity Field (4)	mmhos/cm	-	0.952
pH Field	S.U.	-	7.57
pH Field (2)	S.U.	-	7.58
pH Field (3)	S.U.	-	7.52
pH Field (4)	S.U.	-	7.60

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05
Sample Name:	FBE-5	FBE-5	FBE-5	FBE-5	FBE-5	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-5	P-5	P-5	P-05
Sample Date:	1/25/1982	5/5/1982	8/24/1982	11/16/1982	5/13/1983	11/23/1983	84-24677A	84-24677B	84-24677C	84-24677D	84-24896A	84-24896B	84-24896C	84-24896D	25440	7638	10/17/1984	10/17/1984	11/7/1984
Parameters:	Units																		
Volatile Organic Compounds																			
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U	-
Acrolein	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U*	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Formaldehyde	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Toluene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.37	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.052	-
Metals																			
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-	-	0.03 U
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (Dissolved)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	0.52	0.1 U	0.1 U	0.1 U	-	-	-	-	-	-	-	-	-	0.2 U(###)	-	-	-	1 U
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	0.002	0.002 U	0.003	0.002 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (Trivalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.052	-	-
Chromium III (Trivalent) (Dissolved)	mg/L	-	-	-	-	0.02 U	0.02 U	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total (Dissolved)	mg/L	0.02	0.01 U	0.01 U	0.01 U	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	0.03 U
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.004	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	0.02 U	0.02 U	-	-	-	-	-	-	-	0.01 U(###)	-	-	-	0.01 U(###)
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	0.02 U	0.02 U	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.013	0.542	-	-	0.01 U
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (Dissolved)	mg/L	0.26	0.34	0.69	0.28	0.1 U	0.1 U	-	-	-	-	-	-	-	-	-	0.068	14	0.88
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	0.01	0.01 U	0.02	0.01 U	-	-	-	-	-	-	-	-	-	0.024	-	-	-	0.03
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	30	-	-	-	73
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (Dissolved)	mg/L	0.03 U	0.12	0.27	0.29	0.24	0.29	-	-	-	-	-	-	-	0.076	0.018	-	-	0.33
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (Dissolved)	mg/L	-	-	-	-	0.02 U	0.02 U	-	-	-	-	-	-	-	0.015	0.078	-	-	0.02 U

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

<i>Sample Location:</i>		P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05
<i>Sample Name:</i>		FBE-5	FBE-5	FBE-5	FBE-5	FBE-5	P-05	84-24677A	84-24677B	84-24677C	84-24677D	84-24896A	84-24896B	84-24896C	84-24896D	25440	7638	P-5	27841
<i>Sample Date:</i>		1/25/1982	5/5/1982	8/24/1982	11/16/1982	5/13/1983	11/23/1983	4/18/1984	4/18/1984	4/18/1984	4/18/1984	5/8/1984	5/8/1984	5/8/1984	5/8/1984	5/30/1984	10/17/1984	10/17/1984	11/7/1984
<i>Parameters:</i>	<i>Units</i>																		
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	0.007	0.005 U	0.005 U	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	-	-	-	-	-	0.002 U	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium (Dissolved)	mg/L	0.66	0.96	1.04	1.55	2.49	2.61	-	-	-	-	-	-	-	-	86	61.1	-	97
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	0.02 U	0.29	-	-	-	-	-	-	-	-	0.015	1.32	-	0.02
<i>Pesticides</i>																			
2,4,5-TP (Silvex)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Bio</i>																			
Total Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Radiology</i>																			
Gross Alpha Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium-226	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>General Chemistry</i>																			
Chloride	mg/L	10 U	10 U	10 U	10 U	10 U	10 U	-	-	-	-	-	-	-	-	140	137	-	29
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	0.12	0.2	0.15	0.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	0.2 U	0.2	0.2	0.2 U	-	-	-	-	0.2	0.2 U	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (Average)	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-	-	-	-	-	-	0.01 U	0.02	-	0.01 U
Sulfate	mg/L	242	161	275	212	220	230	-	-	-	-	-	-	-	-	260	248	-	290
Sulfates	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Coliform Bacteria	/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-	1 U	1 U	-	-	-	-	-	-	-	-	4	-	-	4
Total Organic Carbon (3)	mg/L	-	-	-	-	1 U	1 U	-	-	-	-	-	-	-	-	3	-	-	4
Total Organic Carbon (4)	mg/L	-	-	-	-	1 U	1 U	-	-	-	-	-	-	-	-	3	-	-	4
Total Organic Carbon (TOC)	mg/L	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-	-	-	-	3	7.3	-	4
Total Organic Halides (2)	mg/L	-	-	-	-	0.1 U	0.1 U	-	-	-	-	-	-	-	-	0.339	-	-	0.324
Total Organic Halides (3)	mg/L	-	-	-	-	0.1 U	0.1 U	-	-	-	-	-	-	-	-	0.329	-	-	0.312
Total Organic Halides (4)	mg/L	-	-	-	-	0.1 U	0.1 U	-	-	0.208	-	-	-	-	-	0.208	-	-	0.251
Total Organic Halides (TOX)	mg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	-	-	-	-	-	-	-	-	0.298	2.98	-	0.385
Turbidity	NTU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Field Parameters</i>																			
Conductivity Field	mmhos/cm	1.350	1.375	1.525	1.325	1.275	1.275	990	-	-	-	970	-	-	-	0.890	1.525	-	1.2
Conductivity Field (2)	mmhos/cm	1.300	1.375	1.500	1.300	1.275	1.275	-	1000	-	-	-	970	-	-	0.890	-	-	1.2
Conductivity Field (3)	mmhos/cm	1.375	1.400	1.525	1.350	1.3	1.200	-	-	1000	-	-	-	970	-	0.890	-	-	1.2
Conductivity Field (4)	mmhos/cm	1.300	1.350	1.500	1.325	1.3	1.250	-	-	-	1000	-	-	-	970	0.880	-	-	1.2
pH Field	S.U.	7.25	7.10	6.96	7.01	7.02	6.82	10.7	-	-	-	7.4	-	-	-	7.6	7.0	-	6.9
pH Field (2)	S.U.	7.35	7.14	7.02	7.01	7.02	6.87	-	10.7	-	-	-	7.4	-	-	7.6	-	-	6.9
pH Field (3)	S.U.	7.40	7.10	7.01	7.04	7.03	6.80	-	-	10.7	-	-	-	7.5	-	7.6	-	-	6.9
pH Field (4)	S.U.	7.35	7.10	6.98	7.01	7.01	6.81	-	-	-	10.7	-	-	-	7.4	7.6	-	-	6.9
Temperature, Field	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05
Sample Name:	P-05	P-05	09/136430	12/142835	86-03510	P-05	86-07822	86-09698	20077	23216	25968	P-5	P-5	47724	48347	P-05	P-05	P-05	8906G827-007
Sample Date:	1/14/1985	6/28/1985	9/12/1985	12/18/1985	4/8/1986	6/18/1986	9/4/1986	11/12/1986	3/31/1987	6/16/1987	8/25/1987	12/15/1987	3/22/1988	6/28/1988	8/31/1988	12/29/1988	1/20/1989	5/31/1989	
Parameters:	Units																		
Volatile Organic Compounds																			
1,1,1-Trichloroethane	mg/L	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	U	U	U	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	0.05 U	0.05 U	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	0.005 U	-	0.005 U	-	U	U	U	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	0.005 U	-	-	-	U*	U*	U*	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-	-
Formaldehyde	mg/L	-	-	-	-	0.05 U	0.05 U	0.05 U	0.05 U	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	0.005 U	0.005 U	0.034	0.005 U	U	U	U	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	0.005 U	-	-	-	U	U	U	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	0.267	-	-	-	0.285	0.37	0.27	0.28	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	0.4	0.44	0.522	0.261	0.31	0.525	0.435	0.38	0.25	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	U	U	U	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	0.03	-	-	-	U	0.053	0.035	0.071	-	-	-	-	-	-
Metals																			
Aluminum	mg/L	-	-	-	-	-	-	-	0.11	0.05 U	0.08	-	-	0.2 U	0.2 U	0.19	-	-	-
Aluminum (Dissolved)	mg/L	-	1.2	12	0.4	0.18	0.03	0.2	0.38	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	0.005 U	0.005 U	0.005 U	-	-	-	-	-	-	-	-
Arsenic (Dissolved)	mg/L	-	-	-	-	0.002 U	0.03 U	0.001 U	0.001 U	-	-	-	-	0.05 U	0.05 U	0.05 U	-	-	-
Barium (Dissolved)	mg/L	-	1 U	0.5 U	1.5	0.21	0.2	0.18	0.17	0.18	0.19	0.2	-	0.5 U	0.23	0.2 U	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	0.02 U	0.01 U	0.01 U	-	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	0.01 U	0.01 U	0.01 U	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	240	150	220	-	-	-
Chromium III (Trivalent)	mg/L	-	-	-	-	-	-	-	0.02 U	0.05 U	0.02 U	-	-	-	-	-	-	-	-
Chromium III (Trivalent) (Dissolved)	mg/L	-	-	0.02 U	0.02	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	-	-	-	-	-	0.02 U	0.02 U	0.02 U	-	-	0.03 U	0.03 U	0.03 U	-	-	-
Chromium Total (Dissolved)	mg/L	-	0.02 U	-	0.02	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	-	-	-	0.03 U	-	-
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	0.05 U	0.05 U	0.05 U	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	0.01 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.01 U	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	-
Copper	mg/L	-	-	-	-	-	-	-	0.02 U	0.02 U	0.02 U	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	0.036	0.09	0.07	0.02	0.01	0.02	-	-	-	-	-	0.01 U	0.066	0.046	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	0.03	0.02 U	0.03	-	-	0.01 U	0.01 U	0.01 U	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	0.46	0.61	0.8	2.5	0.47	0.58	0.58	0.68	-	-	-
Iron (Dissolved)	mg/L	-	1.4	28	0.87	0.18	0.46	0.23	0.27	-	-	-	-	-	-	-	1.4	0.26	-
Lead	mg/L	-	-	-	-	-	-	-	0.05 U	0.05 U	0.05 U	-	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	0.081	0.05 U	0.05 U	0.01 U	0.01	0.01 U	0.01 U	-	-	-	-	0.02 U	0.02 U	0.02 U	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	39	39	42	-	-	-	-	28	-	-	-
Magnesium (Dissolved)	mg/L	-	47	62	32	33	76	42	41	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	0.38	0.3	0.31	-	-	0.28	0.28	0.21	-	-	-
Manganese (Dissolved)	mg/L	-	0.14	0.46	0.25	0.32	0.34	0.27	0.26	-	-	-	-	-	-	-	0.35	0.36	-
Mercury	mg/L	-	-	-	-	-	-	-	0.0005 U	0.0005 U	0.0005 U	-	-	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	-	-	-	-	0.001 U	0.001 U	0.0005 U	0.0005 U	-	-	-	-	0.0002 U	0.0002 U	0.0002 U	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	0.02 U	0.02 U	0.02 U	-	-	0.01 U	0.01 U	0.01 U	-	-	-
Nickel (Dissolved)	mg/L	-	0.043	0.05 U	0.05 U	0.01	0.01 U	0.01 U	0.01 U	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05
<i>Sample Name:</i>		P-05	P-05	09/136430	12/142835	86-03510	P-05	86-07822	86-09688	20077	23216	25968	P-5	P-5	47724	48347	P-05	P-05	P-05
<i>Sample Date:</i>		1/14/1985	6/28/1985	9/12/1985	12/18/1985	4/8/1986	6/18/1986	9/4/1986	11/12/1986	3/31/1987	6/16/1987	8/25/1987	12/15/1987	3/22/1988	6/28/1988	8/31/1988	12/29/1988	1/20/1989	5/31/1989
<i>Parameters:</i>	<i>Units</i>																		
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	0.005 U	0.005 U	0.005 U	-	0.067	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	-	-	-	0.001 U	0.04 U	0.001 U	0.001 U	-	-	-	-	-	0.01 U	0.01 U	0.01 U	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.02 U	0.02 U	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	-	0.02 U	0.02 U	0.02 U	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	88	91	88	-	-	100	125	120	-	-
Sodium (Dissolved)	mg/L	-	39	56	86	87	100	80	95	-	-	-	-	-	-	-	-	140	97.9
Zinc	mg/L	-	-	-	-	-	-	-	-	0.02	0.02 U	0.02 U	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	0.043	0.14	0.15	0.12	0.14	0.04	0.04	-	-	-	-	-	0.01 U	0.056	0.1	-	-
<i>Pesticides</i>																			
2,4,5-TP (Silvex)	mg/L	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	-	0.01 U	0.01 U	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	-	0.1 U	0.1 U	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	0.00001 U	0.00001 U	0.00001 U	0.00001 U	-	0.0002 U	0.0002 U	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	0.00001 U	0.00001 U	0.00001 U	0.00001 U	-	0.004 U	0.004 U	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	0.0001 U	0.0001 U	0.0001 U	0.0001 U	-	0.1 U	0.1 U	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	0.0005 U	0.0005 U	0.0005 U	0.0005 U	-	0.005 U	0.005 U	-	-	-	-	-	-	-
<i>Bio</i>																			
Total Coliform Bacteria	cfu/100mL	-	-	-	-	-	1200	20 U	1005	-	140	320	-	-	-	-	-	-	-
<i>Radiology</i>																			
Gross Alpha Analytes	pci/L	-	-	-	-	16	5.4	5	14	-	7.4	2 U	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	13	6.0	12	16	-	5.5	11	-	-	-	-	-	-	-
Radium	pci/L	-	-	-	-	-	-	6.7	4.2	-	5.8	5	-	-	-	-	-	-	-
Radium-226	pci/L	-	-	-	-	5.0	3.8	-	-	-	-	-	-	-	-	-	-	-	-
<i>General Chemistry</i>																			
Chloride	mg/L	-	0.88	41	110	139	142	146	146	160	150	170	-	-	130	150	150	1 U	190
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-	-	-	-	-	1600	1582	-	-	-	-	-
Fluoride	mg/L	-	-	-	-	0.09	0.14	0.39	0.25	0.21	0.18	0.16	-	-	0.16	0.185	0.2	-	-
Nitrate (as N)	mg/L	-	-	-	-	2.5	0.012	0.02	0.03	0.02 U	0.02 U	0.02 U	-	-	0.05	0.17	0.12	-	-
Nitrite (as N)	mg/L	-	-	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (Average)	s.u.	-	-	-	-	-	-	-	-	-	-	-	6.72	7.4	-	-	-	-	-
Phenolics (Total)	mg/L	-	0.01 U	0.005	0.15	0.004 U	0.004 U	0.005 U	0.005 U	0.002 U	0.002	0.004	-	-	0.022	0.01 U	0.01 U	0.01 U	0.005 U
Sulfate	mg/L	-	288	320	270	334	389	291	275	290	290	280	-	-	350	220	264	210	330
Sulfates	mg/L	-	-	-	-	-	-	-	-	-	-	-	310	330	-	-	-	-	-
Total Coliform Bacteria	/100mL	-	-	-	-	-	-	-	-	-	-	-	-	28	-	-	-	-	-
Total Organic Carbon (2)	mg/L	1 U	3	1 U	7	27	20	5.2	7.7	6	7	10	-	-	6	6	9	5	4.2
Total Organic Carbon (3)	mg/L	1 U	3	1 U	10	26	16	8.2	6.2	6	7	10	-	-	5	6	9	3	4.2
Total Organic Carbon (4)	mg/L	1 U	2	8	10	26	12	8	9.6	6	7	9	-	-	6	8	8	4	4.2
Total Organic Carbon (TOC)	mg/L	1 U	2	1 U	9	26	5	8.5	16	6	7	10	6	7.75	5	6	9	4	4.4
Total Organic Halides (2)	mg/L	0.1 U	0.09	0.03 U	0.32	0.012	0.03	0.03	0.47	0.54	0.53	0.47	-	-	0.32	0.4	0.35	0.62	0.53
Total Organic Halides (3)	mg/L	0.1 U	0.17	0.03 U	0.27	0.015	0.029	0.023	0.46	0.53	0.53	0.5	-	-	0.29	0.4	0.62	0.57	0.73
Total Organic Halides (4)	mg/L	0.1 U	0.19	0.03 U	0.27	0.018	0.023	0.019	0.52	0.24	0.33	0.23	-	-	0.26	0.4	0.55	0.47	0.76
Total Organic Halides (TOX)	mg/L	0.1 U	0.15	0.03 U	0.29	0.012	0.008	0.019	0.049	0.47	0.51	0.45	4.60	0.515	0.29	0.29	0.55	0.47	0.5
Turbidity	NTU	-	-	-	-	0.30	0.22	3.0	0.4	-	2	10	-	-	-	-	-	-	-
<i>Field Parameters</i>																			
Conductivity Field	mmhos/cm	1.225	0.820	1.500	1.500	1.439	1.564	1.596	1.507	1.07	1.460	1.600	-	-	1.45	1.41	1.7	1.7	1.61
Conductivity Field (2)	mmhos/cm	1.300	0.820	1.500	1.500	1.453	1.483	1.587	1.475	1.08	1.480	1.575	-	-	1.46	1.41	1.7	1.7	1.62
Conductivity Field (3)	mmhos/cm	1.300	0.840	1.500	1.500	1.475	1.442	1.579	1.501	1.08	1.470	1.600	-	-	1.46	1.42	1.7	1.7	1.62
Conductivity Field (4)	mmhos/cm	1.325	0.820	1.500	1.500	1.496	1.559	1.589	1.398	1.08	1.470	1.575	-	-	1.46	1.42	1.7	1.7	1.61
pH Field	S.U.	6.68	6.7	6.8	7.6	7.6	7.4	7.5	7.9	6.65	7.00	6.85	-	-	7.24	7	7.2	7.3	7.13
pH Field (2)	S.U.	6.68	6.7	6.7	7.4	7.6	7.7	7.3	7.9	6.66	7.05	6.85	-	-	7.25	-	7.2	7.3	7.14
pH Field (3)	S.U.	6.67	6.7	6.8	7.6	7.4	7.8	7.5	8.0	6.7	7.03	6.85	-	-	7.24	-	7.2	7.3	7.14
pH Field (4)	S.U.	6.67	6.7	6.8	7.6	7.5	7.4	8.0	6.7	7.03	6.85	-	-	-	7.24	-	7.2	7.3	7.15
Temperature, Field	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	9.1	-	-	-	-
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0	-	-	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0	-	-	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0	-	-	-	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location:	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05	P-05
Sample Name:	8911G190-007	7	22	35	57	66	80	111	P-05	P-05	P-05	P-05	P-05	P-05	P-05
Sample Date:	11/21/1989	2/21/1990	7/27/1990	8/14/1990	2/21/1991	5/30/1991	8/8/1991	10/21/1991	5/20/1992	8/13/1992	11/24/1992	7/21/1993	10/7/1993	12/20/1993	

Parameters: Units

Volatile Organic Compounds

1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Formaldehyde	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Metals

Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	0.1 U	4.05	0.1 U	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 K	-	0.01 K	-
Arsenic (Dissolved)	mg/L	0.004 U	-	-	-	-	-	-	0.1 U	0.1 U	0.1 U	-	-	-	-
Barium (Dissolved)	mg/L	0.21	-	-	-	-	-	-	0.112	0.273	0.249	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	0.0066	-	-	-	-	-	-	0.005 U	0.005 U	0.005 U	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	187	233	218	-	-	-	-
Chromium III (Trivalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (Trivalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	0.01 U	-	-	0.01 U	-	-	-	-	-	-	0.01 K	-	-
Chromium Total (Dissolved)	mg/L	0.02 U	-	-	-	-	-	-	0.01 U	0.011	0.01 U	-	-	-	-
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	0.02 U	0.01 U	-	-	0.01 U	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.01 K	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	0.01 U	0.181	0.01 U	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	0.688	-	-	-
Iron (Dissolved)	mg/L	0.3	0.636	-	-	0.1 U	-	-	0.1 U	4.61	0.475	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	0.004	-	0.003 K	-
Lead (Dissolved)	mg/L	0.002 U	-	-	-	-	-	-	0.005 U	0.005	0.036	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	39.8	50.4	48.6	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	0.339	-	-	-
Manganese (Dissolved)	mg/L	0.33	0.299	-	-	0.012	-	-	0.015	0.453	0.381	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	0.0002 U	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	0.02 K	0.02 K	0.02 K	-
Nickel (Dissolved)	mg/L	-	-	-	-	-	-	-	0.02 U	0.02	0.02 U	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-05</i>	<i>P-05</i>	<i>P-05</i>	<i>P-05</i>	<i>P-05</i>	<i>P-05</i>	<i>P-05</i>	<i>P-05</i>	<i>P-05</i>	<i>P-05</i>	<i>P-05</i>	<i>P-05</i>	<i>P-05</i>	<i>P-05</i>
<i>Sample Name:</i>		8911G190-007	7	22	35	57	66	80	111	P-05	P-05	P-05	P-05	P-05	P-05
<i>Sample Date:</i>		11/21/1989	2/21/1990	7/27/1990	8/14/1990	2/21/1991	5/30/1991	8/8/1991	10/21/1991	5/20/1992	8/13/1992	11/24/1992	7/21/1993	10/7/1993	12/20/1993
<i>Parameters:</i>															
	<i>Units</i>														
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	2.44	-	2.61
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	2.15	3.23	3.04	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	0.002 U	-	-	-	-	-	-	-	0.005 U	0.005 U	0.005 U	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	0.03 U	-	-	-	-	-	-	-	0.01 U	0.01 U	0.01 U	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	90.3	-	-
Sodium (Dissolved)	mg/L	87.3	93.6	-	-	104	-	-	-	91.1	117	115	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.3	0.02 U	-	-	-
<i>Pesticides</i>															
2,4,5-TP (Silvex)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Bio</i>															
Total Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Radiology</i>															
Gross Alpha Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium-226	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>General Chemistry</i>															
Chloride	mg/L	193	201	-	-	153	-	-	-	223	257	264	264	254	238
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	0.16	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	0.16	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (Average)	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	0.01 U	0.04 U	-	-	0.5 U	-	-	-	0.067 U	0.067 U	0.293	0.067 K	-	-
Sulfate	mg/L	318	300	-	-	218	-	-	-	285	315	304	295	277	307
Sulfates	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Coliform Bacteria	/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	4.3	4.46	5.69	17.4	7.85	5.5	6.5	4.38	4.64	4.89	5.46	3.84	-	-
Total Organic Carbon (3)	mg/L	4.3	4.62	5.84	17.4	7.98	5.2	6.05	4.33	4.53	4.84	5.43	4.62	-	-
Total Organic Carbon (4)	mg/L	4.4	4.74	5.89	17.6	8	5.8	7.04	4.31	4.57	4.87	5.31	4.33	-	-
Total Organic Carbon (TOC)	mg/L	4.6	4.87	5.61	17.3	7.84	5.4	7.73	4.44	4.52	4.83	5.42	3.85	-	4.05
Total Organic Halides (2)	mg/L	0.54	0.4937	0.049	0.464	0.01 U	-	0.699	0.48	0.31	0.71	0.46	0.35	-	-
Total Organic Halides (3)	mg/L	0.51	0.5047	0.0501	0.492	0.01 U	-	0.46	0.64	0.27	0.59	0.39	0.41	-	-
Total Organic Halides (4)	mg/L	0.48	0.5136	0.0528	0.515	0.01 U	-	0.54	0.49	0.28	0.58	0.53	0.45	-	-
Total Organic Halides (TOX)	mg/L	0.53	0.4327	0.0446	0.431	0.01 U	-	0.28	0.48	0.2	0.56	0.35	0.44	-	0.253
Turbidity	NTU	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Field Parameters</i>															
Conductivity Field	mmhos/cm	1.64	1.64	1.8	1.82	1.58	2.55	1.92	1.93	1.49	1.525	1.912	1.35	1.557	2.14
Conductivity Field (2)	mmhos/cm	1.64	1.63	1.8	1.80	1.59	1.80	1.93	1.92	1.55	1.505	1.917	1.31	1.538	2.08
Conductivity Field (3)	mmhos/cm	1.64	1.63	1.8	1.83	1.58	1.80	1.84	1.91	1.50	1.530	1.911	1.31	1.528	2.06
Conductivity Field (4)	mmhos/cm	1.65	1.63	1.9	1.83	1.58	1.80	1.85	1.92	1.525	1.495	1.914	1.31	1.521	2.06
pH Field	S.U.	7.25	6.79	7.01	7.83	7.24	6.60	7.6	-	6.87	7.02	7.05	7.41	6.87	7.08
pH Field (2)	S.U.	7.24	6.80	7.02	7.84	7.25	6.83	7.82	-	6.64	6.78	6.98	7.21	6.87	6.90
pH Field (3)	S.U.	7.23	6.80	7.02	7.22	7.23	6.86	7.68	-	6.66	6.66	6.93	7.35	6.89	6.81
pH Field (4)	S.U.	7.23	6.76	7.04	7.64	7.24	6.92	7.66	-	7.01	6.71	6.90	7.42	6.92	6.85
Temperature, Field	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-05S	P-05S	P-05S	P-05S	P-05S	P-05S	P-05S	P-05S	P-05S	P-05S	P-05S	P-05S	P-05S
Sample Name:		P-5S	P-5S	47725	48348	P-05S	P-05S	8906G827-008	8908G550-004	8911G190-008	6	21	37	56
Sample Date:		12/15/1987	3/22/1988	6/28/1988	8/31/1988	12/29/1988	1/20/1989	5/31/1989	8/30/1989	11/21/1989	2/21/1990	7/27/1990	8/14/1990	2/21/1991
Parameters:	Units													
Volatile Organic Compounds														
trans-1,2-Dichloroethene	mg/L	0.022	0.011	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	0.062	-	-	-	-	-	-	-	-	-	-	-	-
Metals														
Aluminum (Dissolved)	mg/L	-	-	0.23	0.2 U	0.31	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (Dissolved)	mg/L	-	-	0.05 U	0.05 U	0.05 U	0.05 U	0.004 U	0.0079	0.0055	-	-	-	-
Barium (Dissolved)	mg/L	-	-	0.5 U	0.23	0.2 U	0.2 U	0.07	0.07	0.055	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.004 U	0.0043	0.004 U	-	-	-	-
Calcium	mg/L	-	-	200	195	200	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	0.041	0.03 U	0.03 U	-	-	-	-	0.01 U	-	-	0.01 U
Chromium Total (Dissolved)	mg/L	-	-	-	-	-	0.03	0.02 U	0.02 U	0.02 U	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.02 U	0.02 U	0.01 U	-	-	0.01 U
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	0.01 U	0.048	0.01 U	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	0.01 U	0.01 U	0.01 U	-	-	-	-	-	-	-	-
Iron	mg/L	1.72	1.1	18	18	1	-	-	-	-	-	-	-	-
Iron (Dissolved)	mg/L	-	-	-	-	-	23	5.1	4.3	3.4	8.21	-	-	10.4
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	0.02 U	0.02 U	0.02 U	0.02 U	0.002 U	0.002 U	0.002 U	-	-	-	-
Magnesium	mg/L	-	-	-	-	21	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	6.4	-	-	-	-	-	-	-	-
Manganese (Dissolved)	mg/L	-	-	11	11	-	9.6	9.6	9	7.4	8.53	-	-	7.6
Mercury (Dissolved)	mg/L	-	-	0.0002 U	0.0002 U	0.0003	0.0002 U	0.0005 U	0.0002 U	0.0002 U	-	-	-	-
Nickel	mg/L	-	-	-	-	0.03	-	-	-	-	-	-	-	-
Nickel (Dissolved)	mg/L	-	-	0.01 U	0.055	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.002 U	0.01 U	0.002 U	-	-	-	-
Silver (Dissolved)	mg/L	-	-	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U	0.03 U	0.03 U	-	-	-	-
Sodium	mg/L	-	-	-	-	110	-	-	-	-	-	-	-	-
Sodium (Dissolved)	mg/L	-	-	76	108	-	120	80.5	111	80	76.3	-	-	53.8
Zinc (Dissolved)	mg/L	-	-	0.01 U	0.033	0.01 U	-	-	-	-	-	-	-	-
General Chemistry														
Chloride	mg/L	-	-	19	50	8	1 U	60	51.8	133	45.4	-	-	27.9
Conductivity Field (Average)	umhos/cm	-	1250	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	-	-	0.28	0.324	0.3	0.35	0.23	0.22	0.28	-	-	-	-
Nitrate (as N)	mg/L	-	-	0.09	0.073	0.098	0.19	0.05 U	0.05 U	0.15	-	-	-	-
pH Field (Average)	s.u.	-	7.1	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	-	0.016	0.01 U	0.01 U	0.01 U	0.005	0.04	0.01 U	0.04 U	-	-	0.752
Sulfate	mg/L	-	-	90	52	92	92	118	116	142	112	-	-	97.2
Total Coliform Bacteria	/100mL	-	2000	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	14	30	25	18	21.9	23.1	22.6	18.7	2.8	18.4	24.5
Total Organic Carbon (3)	mg/L	-	-	14	24	21	17	21.6	21.6	22.9	18.5	2.82	18.5	24.5
Total Organic Carbon (4)	mg/L	-	-	14	26	23	16	21.3	20.9	22.5	18.5	2.84	18.6	24.6
Total Organic Carbon (TOC)	mg/L	-	12.75	15	28	24	19	21.7	21.8	22.5	18.6	2.79	18.4	24.4
Total Organic Halides (2)	mg/L	-	-	0.15	0.04	0.03	0.1	0.045	0.046	0.047	0.0911	0.026	0.103	0.15
Total Organic Halides (3)	mg/L	-	-	0.2	0.09	0.07	0.14	0.046	0.044	0.046	0.0934	0.068	0.114	0.13
Total Organic Halides (4)	mg/L	-	-	0.1	0.06	0.12	0.17	0.048	0.058	0.048	0.1415	0.097	0.148	0.15
Total Organic Halides (TOX)	mg/L	-	0.213	0.23	0.06	0.03 U	0.1	0.044	0.052	0.05	0.089	0.022	0.103	0.1

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-05S	P-05S	P-05S	P-05S	P-05S	P-05S	P-05S	P-05S	P-05S	P-05S	P-05S	P-05S	P-05S	P-05S
Sample Name:	P-5S	P-5S	47725	48348	P-05S	P-05S	8906G827-008	8908G550-004	8911G190-008	6	21	37	56	67
Sample Date:	12/15/1987	3/22/1988	6/28/1988	8/31/1988	12/29/1988	1/20/1989	5/31/1989	8/30/1989	11/21/1989	2/21/1990	7/27/1990	8/14/1990	2/21/1991	5/30/1991

Parameters: **Units**

Field Parameters

Conductivity Field	mmhos/cm	-	-	1.280	1.61	1.55	1.4	1.4	1.41	1.41	1.16	1.8	1.21	1.5	1.61
Conductivity Field (2)	mmhos/cm	-	-	1.280	1.61	1.55	1.4	1.4	1.41	1.41	1.15	1.8	1.21	1.5	1.50
Conductivity Field (3)	mmhos/cm	-	-	1.280	1.60	1.54	1.4	1.4	1.40	1.41	1.16	1.8	1.21	1.51	1.45
Conductivity Field (4)	mmhos/cm	-	-	1.280	1.60	1.54	1.4	1.4	1.41	1.41	1.17	1.6	1.21	1.5	1.45
pH Field	S.U.	-	-	6.88	7.1	7.0	7.0	6.96	6.77	6.96	6.78	6.44	7.74	7.04	6.54
pH Field (2)	S.U.	-	-	6.87	-	7.0	7.0	6.98	6.78	6.97	6.87	6.43	7.81	7.05	6.60
pH Field (3)	S.U.	-	-	6.88	-	7.0	7.0	6.99	6.80	6.96	6.92	6.43	7.76	7.03	6.69
pH Field (4)	S.U.	-	-	6.88	-	7.0	7.0	6.99	6.80	6.95	6.89	7.02	7.9	7.03	6.71
Temperature, Field	Deg C	-	-	10	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (2)	Deg C	-	-	10	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (3)	Deg C	-	-	10	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (4)	Deg C	-	-	10	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-05S	P-05S	P-05S	P-05S	P-05S	P-05S	P-05S	P-05S
Sample Name:	81	112	P-05S	P-05S	P-05S	P-05S	P-05S	P-05S
Sample Date:	8/8/1991	10/21/1991	5/20/1992	8/13/1992	11/24/1992	7/21/1993	10/7/1993	12/20/1993

Parameters: **Units**

Volatile Organic Compounds

trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-

Metals

Aluminum (Dissolved)	mg/L	-	-	0.1 U	0.147	0.213	-	-	-
Arsenic	mg/L	-	-	-	-	-	0.01 K	-	0.01 K
Arsenic (Dissolved)	mg/L	-	-	0.1 U	0.1 U	0.1 U	-	-	-
Barium (Dissolved)	mg/L	-	-	0.053	0.083	0.057	-	-	-
Cadmium (Dissolved)	mg/L	-	-	0.005 U	0.005 U	0.005 U	-	-	-
Calcium	mg/L	-	-	162	199	143	-	-	-
Chromium Total	mg/L	-	-	-	-	-	0.01 K	-	-
Chromium Total (Dissolved)	mg/L	-	-	0.01 U	0.01 U	0.01 U	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	0.01 K	-	-
Copper (Dissolved)	mg/L	-	-	0.01 U	0.01 U	0.01 U	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	8.49	-	-
Iron (Dissolved)	mg/L	-	-	7.33	7.33	6	-	-	-
Lead	mg/L	-	-	-	-	-	0.005	-	0.003 K
Lead (Dissolved)	mg/L	-	-	0.005 U	0.005 U	0.003 U	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	43.8	43.8	42.9	-	-	-
Manganese	mg/L	-	-	-	-	-	7.64	-	-
Manganese (Dissolved)	mg/L	-	-	8.07	8.07	7.69	-	-	-
Mercury (Dissolved)	mg/L	-	-	0.001 U	0.001 U	0.001 U	-	-	-
Nickel	mg/L	-	-	-	-	-	0.02 K	0.046	0.042
Nickel (Dissolved)	mg/L	-	-	0.03	0.03	0.022	-	-	-
Potassium	mg/L	-	-	-	-	-	2 K	-	2 K
Potassium (Dissolved)	mg/L	-	-	2 U	2 U	2 U	-	-	-
Selenium (Dissolved)	mg/L	-	-	0.005 U	0.005 U	0.005 U	-	-	-
Silver (Dissolved)	mg/L	-	-	0.01 U	0.01 U	0.01 U	-	-	-
Sodium	mg/L	-	-	-	-	-	82	-	-
Sodium (Dissolved)	mg/L	-	-	82.5	131	89.1	-	-	-
Zinc (Dissolved)	mg/L	-	-	0.02 U	0.056	0.02 U	-	-	-

General Chemistry

Chloride	mg/L	-	-	78.2	87.4	74	63	126	101
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-	-
Fluoride	mg/L	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-
pH Field (Average)	s.u.	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	-	0.067 U	0.067 U	0.067 U	0.067 K	-	-
Sulfate	mg/L	-	-	139	110	126	104	91.6	101
Total Coliform Bacteria	/100mL	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	32.6	29.7	24.4	29.4	28.1	29.1	-	-
Total Organic Carbon (3)	mg/L	38.4	29	24.3	29.7	28.1	26.6	-	-
Total Organic Carbon (4)	mg/L	35.1	29.2	24.5	29.5	27.9	26.8	-	-
Total Organic Carbon (TOC)	mg/L	32.8	28.9	24.6	29.4	28.3	28.2	-	32.2
Total Organic Halides (2)	mg/L	0.2	0.14	0.13	0.09	0.01 U	0.09	-	-
Total Organic Halides (3)	mg/L	0.15	0.17	0.17	0.11	0.01	0.05	-	-
Total Organic Halides (4)	mg/L	0.18	0.16	0.05	0.16	0.02	0.1	-	-
Total Organic Halides (TOX)	mg/L	0.15	0.17	0.03	0.1	0.01 U	0.08	-	0.24

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

<i>Sample Location:</i>	<i>P-05S</i>	<i>P-05S</i>	<i>P-05S</i>	<i>P-05S</i>	<i>P-05S</i>	<i>P-05S</i>	<i>P-05S</i>	<i>P-05S</i>
<i>Sample Name:</i>	81	112	<i>P-05S</i>	<i>P-05S</i>	<i>P-05S</i>	<i>P-05S</i>	<i>P-05S</i>	<i>P-05S</i>
<i>Sample Date:</i>	8/8/1991	10/21/1991	5/20/1992	8/13/1992	11/24/1992	7/21/1993	10/7/1993	12/20/1993

Parameters: *Units*

Field Parameters

Conductivity Field	mmhos/cm	1.63	1.85	1.58	1.70	1.598	1.35	1.425	1.80
Conductivity Field (2)	mmhos/cm	1.64	1.86	1.54	1.67	1.60	1.31	1.42	1.81
Conductivity Field (3)	mmhos/cm	1.64	1.84	1.565	1.66	1.601	1.31	1.419	1.80
Conductivity Field (4)	mmhos/cm	1.65	1.85	1.55	1.66	1.604	1.31	1.424	1.77
pH Field	S.U.	7.38	-	6.65	6.66	7.10	7.41	6.75	5.75
pH Field (2)	S.U.	7.5	-	6.74	6.68	7.07	7.21	6.74	5.67
pH Field (3)	S.U.	7.77	-	6.66	6.72	7.0	7.35	6.75	5.76
pH Field (4)	S.U.	7.83	-	6.80	6.74	6.95	7.42	6.75	5.72
Temperature, Field	Deg C	-	-	-	-	-	-	-	-
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06
Sample Name:	FBE-6	FBE-6	FBE-6	FBE-6	FBE-6	P-06	84-24675A	84-24675B	84-24675C	84-24675D	84-24897A	84-24897B	84-24897C	84-24897D	25441	7639	P-6	P-06
Sample Date:	1/26/1982	5/5/1982	8/24/1982	11/16/1982	5/13/1983	11/23/1983	4/18/1984	4/18/1984	4/18/1984	4/18/1984	5/8/1984	5/8/1984	5/8/1984	5/8/1984	5/30/1984	10/18/1984	10/18/1984	11/7/1984
Parameters:	Units																	
Volatile Organic Compounds																		
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U	-
Acrolein	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U*	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Di-n-octyl phthalate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Formaldehyde	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Toluene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Metals																		
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.52	-	-	0.03 U
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (Dissolved)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	0.64	0.1 U	0.1 U	0.1 U	-	-	-	-	-	-	-	-	-	0.2 U	-	-	1 U
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	0.002	0.002 U	0.003	0.002 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (Trivalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (Trivalent) (Dissolved)	mg/L	-	-	-	-	0.02 U	0.02 U	-	-	-	-	-	-	-	-	0.052	-	-
Chromium Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total (Dissolved)	mg/L	0.02	0.01 U	0.01 U	0.01 U	-	-	-	-	-	-	-	-	-	0.01 U	-	-	0.03 U
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	0.02 U	0.02 U	-	-	-	-	-	-	-	0.01 U(###)	0.008	-	0.01 U(###)
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	0.02 U	0.02 U	-	-	-	-	-	-	-	0.01 U	0.072	-	0.01 U
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (Dissolved)	mg/L	0.22	0.37	0.54	0.42	0.1 U	0.1 U	-	-	-	-	-	-	-	0.1	42	-	1.8
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	0.03	0.01 U	0.01	0.01 U	-	-	-	-	-	-	-	-	-	0.012	-	-	0.03
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	30	-	-	65
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (Dissolved)	mg/L	0.03 U	0.11	0.24	0.4	0.44	0.65	-	-	-	-	-	-	-	0.024	1.7	-	0.39
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	-	-	-	-	-	-	-	-	-	-	-	-	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location:		P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06
Sample Name:		FBE-6	FBE-6	FBE-6	FBE-6	FBE-6	P-06	84-24675A	84-24675B	84-24675C	84-24675D	84-24897A	84-24897B	84-24897C	84-24897D	25441	7639	P-6	P-06
Sample Date:		1/26/1982	5/5/1982	8/24/1982	11/16/1982	5/13/1983	11/23/1983	4/18/1984	4/18/1984	4/18/1984	4/18/1984	5/8/1984	5/8/1984	5/8/1984	5/8/1984	5/30/1984	10/18/1984	10/18/1984	11/7/1984
Parameters:	Units																		
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (Dissolved)	mg/L	-	-	-	-	0.02 U	0.02 U	-	-	-	-	-	-	-	-	0.01 U	0.121	-	0.02 U
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	0.009	0.005 U	0.005 U	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	0.002	0.002 U	0.002 U	0.002 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium (Dissolved)	mg/L	0.67	0.82	1.07	0.8	1.78	1.44	-	-	-	-	-	-	-	-	18	8.78	-	26
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	0.02 U	0.02 U	-	-	-	-	-	-	-	-	0.01 U	0.538	-	0.01
Pesticides																			
2,4,5-TP (Silvex)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bio																			
Total Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radiology																			
Gross Alpha Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium-226	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																			
Chloride	mg/L	10 U	10 U	10 U	10 U	10 U	10 U	-	-	-	-	-	-	-	-	1 U	7.1	-	1 U
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	0.11	0.2	0.15	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	0.2 U	0.3	0.2	0.2 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (Average)	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-	-	-	-	-	-	0.01 U	0.03	-	0.01 U
Sulfate	mg/L	228	143	193	182	198	215	-	-	-	-	-	-	-	-	140	97	-	190
Total Coliform Bacteria	/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-	1 U	1 U	-	-	-	-	-	-	-	-	2	-	-	2 U
Total Organic Carbon (3)	mg/L	-	-	-	-	1 U	1 U	-	-	-	-	-	-	-	-	2	-	-	2 U
Total Organic Carbon (4)	mg/L	-	-	-	-	1 U	1 U	-	-	-	-	-	-	-	-	3	-	-	2 U
Total Organic Carbon (TOC)	mg/L	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-	-	-	-	2 U	11.5	-	2 U
Total Organic Halides (2)	mg/L	-	-	-	-	0.1 U	0.1 U	-	-	-	-	-	-	-	-	0.104	-	-	0.014 U
Total Organic Halides (3)	mg/L	-	-	-	-	0.1 U	0.1 U	-	-	-	-	-	-	-	-	0.054	-	-	0.014 U
Total Organic Halides (4)	mg/L	-	-	-	-	0.1 U	0.1 U	-	-	-	-	-	-	-	-	0.046	-	-	0.014 U
Total Organic Halides (TOX)	mg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	-	-	-	-	-	-	-	-	0.056	0.07	-	0.014 U
Turbidity	NTU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																			
Conductivity Field	mmhos/cm	1.050	0.950	1.075	1.025	1.0	1.200	760	-	-	-	970	-	-	-	0.500	1.050	-	0.64
Conductivity Field (2)	mmhos/cm	1.025	1.025	1.100	1.000	1.025	1.200	-	770	-	-	-	970	-	-	0.490	-	-	0.64
Conductivity Field (3)	mmhos/cm	1.075	1.025	1.125	1.050	1.05	1.000	-	-	780	-	-	-	970	-	0.490	-	-	0.65
Conductivity Field (4)	mmhos/cm	1.100	1.050	1.100	1.050	1.05	1.000	-	-	-	780	-	-	-	970	0.500	-	-	0.65
pH Field	S.U.	7.40	7.20	7.03	7.15	7.11	6.91	7.5	-	-	-	7.1	-	-	-	7.3	7.1	-	7.1
pH Field (2)	S.U.	7.25	7.15	7.05	7.15	7.12	6.92	-	7.5	-	-	-	7.1	-	-	7.2	-	-	7.1
pH Field (3)	S.U.	7.40	7.19	7.10	7.16	7.13	6.93	-	-	7.5	-	-	-	7.1	-	7.3	-	-	7.1
pH Field (4)	S.U.	7.35	7.20	7.07	7.14	7.12	6.90	-	-	-	7.5	-	-	-	7.1	7.3	-	-	7.1
Temperature, Field	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06	P-06
Sample Name:	30899	09/136434	12/142839	86-03511	86-05633	86-07824	86-07824	86-09699	20078	23217	25969	P-6	P-6	47726	48349	P-06
Sample Date:	6/28/1985	9/12/1985	12/18/1985	4/8/1986	6/18/1986	9/3/1986	9/4/1986	11/12/1986	3/31/1987	6/16/1987	8/25/1987	12/15/1987	3/22/1988	6/28/1988	8/31/1988	12/29/1988

Parameters: **Units**

Volatile Organic Compounds

1,1,1-Trichloroethane	mg/L	-	-	-	0.005 U	0.005 U	0.005 U	-	0.005 U	U	U	U	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	0.005 U	-	-	-	-	U	U	U	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	0.005 U	-	-	-	-	U	U	U	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	0.005 U	-	-	-	-	U	U	U	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	0.005 U	-	-	-	-	U	U	U	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	0.005 U	-	-	-	-	U	U	U	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	0.005 U	-	-	-	-	U	U	U	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	0.05 U	0.05 U	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	0.005 U	-	-	-	-	U	U	U	-	-	-	-
Acrolein	mg/L	-	-	-	0.005 U	-	-	-	-	U	U	U	-	-	-	-
Acrylonitrile	mg/L	-	-	-	0.005 U	-	-	-	-	U	U	U	-	-	-	-
Benzene	mg/L	-	-	-	0.005 U	-	-	-	-	U	U	U	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	0.005 U	-	-	-	-	U	U	U	-	-	-	-
Bromoform	mg/L	-	-	-	0.005 U	-	-	-	-	U	U	U	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	0.005 U	-	-	-	-	U	U	U	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	0.005 U	-	-	-	-	U	U	U	-	-	-	-
Chlorobenzene	mg/L	-	-	-	0.005 U	-	-	-	-	U	U	U	-	-	-	-
Chloroethane	mg/L	-	-	-	0.005 U	-	-	-	-	U	U	U	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	0.005 U	-	0.005 U	-	-	U	U	U	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	0.005 U	-	-	-	-	U	U	U	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	0.005 U	-	-	-	-	U*	U*	U*	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	0.005 U	-	-	-	-	U	U	U	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.002	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	0.005 U	-	-	-	-	U	U	U	-	-	-	-
Formaldehyde	mg/L	-	-	-	0.05 U	0.05 U	0.05 U	-	0.05 U	-	0.1 U	1 U	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-	-	0.5 U	0.1 U	-	-	-	-
Methylene chloride	mg/L	-	-	-	0.013	0.005 U	0.025	-	0.005 U	U	U	U	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	0.005 U	-	-	-	-	U	U	U	-	-	-	-
Toluene	mg/L	-	-	-	0.005 U	-	-	-	-	U	U	U	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	0.005 U	-	-	-	-	0.31	U	U	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	0.005 U	0.005 U	0.005 U	-	0.005 U	0.425	U	U	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	U	U	U	-	-	-	-
Vinyl chloride	mg/L	-	-	-	0.005 U	-	-	-	-	U	U	U	-	-	-	-

Metals

Aluminum	mg/L	-	-	-	-	-	-	-	0.36	1.7	0.46	-	-	-	-	0.79
Aluminum (Dissolved)	mg/L	1.8	8.1	0.6	0.24	0.05	-	0.16	0.29	-	-	-	-	0.2 U	0.35	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	0.005 U	0.005 U	0.005 U	-	-	-	-
Arsenic (Dissolved)	mg/L	-	-	-	0.002 U	0.03 U	-	0.001 U	0.001 U	-	-	-	-	0.05 U	0.05 U	0.05 U
Barium (Dissolved)	mg/L	1 U	0.5 U	1.1	0.1	0.06	-	0.06	0.04	0.05 U	0.06	0.06	-	0.5 U	0.27	0.27
Cadmium	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.01 U	0.01 U	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	0.01 U	0.01 U	-	0.01 U	0.01 U	-	-	-	-	0.01 U	0.01 U	0.01 U
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	170	74	250
Chromium III (Trivalent)	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.05 U	0.02 U	-	-	-	-
Chromium III (Trivalent) (Dissolved)	mg/L	-	0.02 U	0.02 U	0.01 U	0.01 U	-	0.01 U	0.01 U	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.02 U	0.02 U	-	-	-	0.03 U
Chromium Total (Dissolved)	mg/L	0.18	-	0.02 U	0.01 U	0.01 U	-	0.01 U	0.01 U	-	-	-	-	0.035	0.03 U	-
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	0.05 U	0.05 U	0.05 U	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	0.01 U	0.03	0.02 U	0.02 U	0.02 U	-	0.02 U	0.01 U	-	-	-	-	0.01 U	0.01 U	0.01 U
Copper	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.02 U	0.02 U	-	-	-	-
Copper (Dissolved)	mg/L	0.015	0.05	0.02 U	0.01	0.01 U	-	0.01 U	0.01 U	-	-	-	-	0.01 U	0.012	0.01 U
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.02 U	0.03	-	0.01 U	0.01 U	0.01 U
Iron	mg/L	-	-	-	-	-	-	-	-	0.81	3.5	1.2	0.53	-	-	1.1
Iron (Dissolved)	mg/L	3.5	35	0.78	0.15	0.17	-	0.08	0.28	-	-	-	-	0.48	0.48	-
Lead	mg/L	-	-	-	-	-	-	-	-	0.05 U	0.05 U	0.05 U	-	-	-	-
Lead (Dissolved)	mg/L	0.084	0.05 U	0.05	0.01 U	0.01	-	0.01 U	0.01 U	-	-	-	-	0.02 U	0.02 U	0.02 U
Magnesium	mg/L	-	-	-	-	-	-	-	-	37	39	40	-	-	-	45
Magnesium (Dissolved)	mg/L	43	47	34	32	87	-	42	31	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	0.4	0.52	0.6	-	-	-	0.29
Manganese (Dissolved)	mg/L	0.69	1.8	0.17	0.47	0.8	-	0.1	0.28	-	-	-	-	0.036	0.036	-
Mercury	mg/L	-	-	-	-	-	-	-	-	0.0005 U	0.0005 U	0.0005 U	-	-	-	-
Mercury (Dissolved)	mg/L	-	-	-	0.001 U	0.001 U	-	0.0005 U	0.0005 U	-	-	-	-	0.0002 U	0.0002 U	0.0003

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-06</i>	<i>P-06</i>	<i>P-06</i>	<i>P-06</i>	<i>P-06</i>	<i>P-06</i>	<i>P-06</i>	<i>P-06</i>	<i>P-06</i>	<i>P-06</i>	<i>P-06</i>	<i>P-06</i>	<i>P-06</i>	<i>P-06</i>	<i>P-06</i>	<i>P-06</i>
<i>Sample Name:</i>		30899	09/136434	12/142839	86-03511	86-05633	86-07824	86-07824	86-09699	20078	23217	25969	P-6	P-6	47726	48349	P-06
<i>Sample Date:</i>		6/28/1985	9/12/1985	12/18/1985	4/8/1986	6/18/1986	9/3/1986	9/4/1986	11/12/1986	3/31/1987	6/16/1987	8/25/1987	12/15/1987	3/22/1988	6/28/1988	8/31/1988	12/29/1988
<i>Parameters:</i>	<i>Units</i>																
Nickel	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.02 U	0.02 U	-	-	-	-	0.032
Nickel (Dissolved)	mg/L	0.034	0.05	0.05 U	0.01	0.01 U	-	0.01 U	0.01 U	-	-	-	-	-	0.01 U	0.017	-
Selenium	mg/L	-	-	-	-	-	-	-	-	0.005 U	0.005 U	0.005 U	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	-	-	0.001 U	0.04 U	-	0.001 U	0.001 U	-	-	-	-	-	0.01 U	0.01 U	0.01 U
Silver	mg/L	-	-	-	-	-	-	-	-	0.02 U	0.02 U	0.02 U	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	0.01 U	0.01 U	-	0.01 U	0.01 U	-	-	-	-	-	0.02 U	0.02 U	0.02 U
Sodium	mg/L	-	-	-	-	-	-	-	-	8.1	8.7	11	-	-	-	-	14
Sodium (Dissolved)	mg/L	8.2	14	7.5	5	14	-	10	6	-	-	-	-	-	94	12	-
Zinc	mg/L	-	-	-	-	-	-	-	-	0.02	0.02	0.02 U	-	-	-	-	-
Zinc (Dissolved)	mg/L	0.028	0.15	0.03	0.01 U	0.05	-	0.01 U	0.01 U	-	-	-	-	-	0.01 U	0.01	0.01 U
<i>Pesticides</i>																	
2,4,5-TP (Silvex)	mg/L	-	-	-	0.001 U	0.001 U	0.001 U	-	0.001 U	-	0.01 U	0.01 U	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	0.001 U	0.001 U	0.001 U	-	0.001 U	-	0.1 U	0.1 U	-	-	-	-	-
Endrin	mg/L	-	-	-	0.00001 U	0.00001 U	0.00001 U	-	0.00001 U	-	0.0002 U	0.0002 U	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	0.00001 U	0.00001 U	0.00001 U	-	0.00001 U	-	0.004 U	0.004 U	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	0.0001 U	0.0001 U	0.0001 U	-	0.0001 U	-	0.1 U	0.1 U	-	-	-	-	-
Toxaphene	mg/L	-	-	-	0.0005 U	0.0005 U	0.0005 U	-	0.0005 U	-	0.005 U	0.005 U	-	-	-	-	-
<i>Bio</i>																	
Total Coliform Bacteria	cfu/100mL	-	-	-	-	2750	20 U	-	258	-	2000 U	2 U	-	-	-	-	-
<i>Radiology</i>																	
Gross Alpha Analytes	pci/L	-	-	-	8.7	2.8	8	-	3.7	-	2.8	2 U	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	7	0.1 U	10	-	5	-	3 U	3 U	-	-	-	-	-
Radium	pci/L	-	-	-	-	-	1.2	-	0.04	-	1 U	1	-	-	-	-	-
Radium-226	pci/L	-	-	-	0.5	1.2	-	-	-	-	-	-	-	-	-	-	-
<i>General Chemistry</i>																	
Chloride	mg/L	2.6	4	4	4	3	-	6	13	4	9	1	-	-	28	19	110
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-	-	-	-	-	820	950	-	-	-
Fluoride	mg/L	-	-	-	0.09	0.31	-	0.2	0.33	0.18	0.16	0.16	-	-	0.16	0.268	0.15
Nitrate (as N)	mg/L	-	-	-	2.6	0.02	-	0.04	0.02	0.02 U	0.02 U	0.04	-	-	0.05	0.55	8
Nitrite (as N)	mg/L	-	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (Average)	s.u.	-	-	-	-	-	-	-	-	-	-	-	6.63	7.4	-	-	-
Phenolics (Total)	mg/L	0.01 U	0.004 U	0.1	0.004 U	0.004 U	-	0.005 U	0.005 U	0.002 U	0.002 U	0.004	-	-	0.018	0.01 U	0.01 U
Sulfate	mg/L	140	88	200	174	146	-	204	157	150	120	120	-	-	130	90	400
Total Coliform Bacteria	/100mL	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-
Total Organic Carbon (2)	mg/L	2 U	7	6	32	6.5	-	8	8.5	6	6	7	-	-	6	7	11
Total Organic Carbon (3)	mg/L	2 U	1 U	6	33	8	-	9.5	7.4	6	6	7	-	-	5	7	9
Total Organic Carbon (4)	mg/L	2 U	1 U	8	34	8	-	8.6	8.2	6	6	7	-	-	5	7	11
Total Organic Carbon (TOC)	mg/L	2 U	1 U	7	28	5.5	-	10	8.1	6	6	6	9	1.63	4	8	8
Total Organic Halides (2)	mg/L	0.28	0.03 U	0.04	0.015	0.02	-	0.018	0.044	0.01 U	0.014	0.01 U	-	-	0.03	0.03 U	0.03
Total Organic Halides (3)	mg/L	0.16	0.03 U	0.04	0.018	0.014	-	0.015	0.019	0.018	0.01	0.01 U	-	-	0.03 U	0.06	0.03
Total Organic Halides (4)	mg/L	0.16	0.03 U	0.05	0.014	0.018	-	0.009 (#)	0.018	0.04	0.012	0.01 U	-	-	0.03 U	0.05	0.03
Total Organic Halides (TOX)	mg/L	0.2	0.03 U	0.04	0.013	0.023	-	0.016	0.033	0.011	0.01 U	0.01 U	0.10 U	0.045	0.03	0.03 U	0.03
Turbidity	NTU	-	-	-	0.65	0.25	-	1.0	0.5	-	9	93	-	-	-	-	-
<i>Field Parameters</i>																	
Conductivity Field	mmhos/cm	0.590	0.870	0.980	0.841	0.876	-	0.980	0.795	0.472	0.960	1.000	-	-	0.980	0.91	1.5
Conductivity Field (2)	mmhos/cm	0.600	0.870	0.980	0.784	0.926	-	1.000	0.701	0.464	0.970	1.000	-	-	0.980	0.92	1.5
Conductivity Field (3)	mmhos/cm	0.590	0.870	0.980	0.796	0.757	-	0.977	0.796	0.467	0.990	1.000	-	-	0.980	0.92	1.5
Conductivity Field (4)	mmhos/cm	0.600	0.880	0.980	0.817	0.921	-	0.941	0.751	0.468	0.970	1.000	-	-	0.980	0.92	1.5
pH Field	S.U.	7.2	7.1	7.4	7.7	7.8	-	7.5	7.4	6.28	6.80	6.90	-	-	7.2	7.2	7.4
pH Field (2)	S.U.	7.2	7.1	7.3	7.9	7.6	-	7.6	8.1	6.35	6.85	6.75	-	-	7.2	-	7.4
pH Field (3)	S.U.	7.2	7.1	7.3	7.9	7.8	-	7.5	7.6	6.48	6.85	6.70	-	-	7.2	-	7.4
pH Field (4)	S.U.	7.2	7.1	7.4	7.7	7.3	-	7.8	8.1	6.48	6.83	6.70	-	-	7.2	-	7.4
Temperature, Field	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	8.6	-	-
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	8.6	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	8.5	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	8.5	-	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location:	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	
Sample Name:	P-7	47727	48350	P-07	01/199281	01/199281	8906G827-009	P-07	8911G190-009	12	13	27	28	50	51	72	88	
Sample Date:	3/22/1988	6/28/1988	8/31/1988	12/29/1988	1/20/1989	2/21/1989	5/31/1989	8/30/1989	11/11/1989	2/22/1990	Duplicate	2/22/1990	7/27/1990	8/14/1990	2/21/1991	2/21/1991	5/30/1991	8/8/1991
Parameters:	Units																	
Volatile Organic Compounds																		
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals																		
Aluminum	mg/L	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminum (Dissolved)	mg/L	-	0.63	4.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (Dissolved)	mg/L	-	0.05 U	0.05 U	0.05 U	0.05 U	0.004 U	0.002 U	0.004 U	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	-	0.5 U	0.2	0.2 U	0.2 U	0.06	0.061	0.053	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	0.01 U	0.01 U	0.01 U	0.01 U	0.004 U	0.004 U	0.004 U	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	51	25	100	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	-	0.03 U	-	-	-	-	0.01 U	0.01 U	-	-	-	0.01 U	0.01 U	-	-
Chromium Total (Dissolved)	mg/L	-	0.031	0.03 U	-	0.038	0.02 U	0.02 U	0.02 U	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.02 U	0.02 U	0.01 U	0.01 U	-	-	-	0.01 U	0.01 U	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	0.01 U	0.01 U	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	0.01 U	0.01 U	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	0.21	-	-	6.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (Dissolved)	mg/L	-	2.6	2.6	-	22	0.03 U	0.03 U	0.03 U	0.407	11.6	-	-	-	0.1 U	0.294	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	0.02 U	0.02 U	0.02 U	0.02 U	0.002 U	0.002 U	0.002 U	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	21	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	0.18	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (Dissolved)	mg/L	-	0.067	0.067	-	0.28	0.01 U	0.032	0.014	0.01 U	0.19	-	-	-	0.01 U	0.226	-	-
Mercury (Dissolved)	mg/L	-	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0005 U	0.0002 U	0.0002 U	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	0.034	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (Dissolved)	mg/L	-	0.01 U	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	0.01 U	0.01 U	0.01 U	0.01 U	0.002 U	0.01 U	0.002 U	-	-	-	-	-	-	-	-	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

<i>Sample Location:</i>		<i>P-07</i>	<i>P-07</i>	<i>P-07</i>	<i>P-07</i>	<i>P-07</i>	<i>P-07</i>	<i>P-07</i>	<i>P-07</i>	<i>P-07</i>	<i>P-07</i>	<i>P-07</i>	<i>P-07</i>	<i>P-07</i>	<i>P-07</i>	<i>P-07</i>	<i>P-07</i>	<i>P-07</i>
<i>Sample Name:</i>		<i>P-7</i>	<i>47727</i>	<i>48350</i>	<i>P-07</i>	<i>01/199281</i>	<i>01/199281</i>	<i>8906G827-009</i>	<i>P-07</i>	<i>8911G190-009</i>	<i>12</i>	<i>13</i>	<i>27</i>	<i>28</i>	<i>50</i>	<i>51</i>	<i>72</i>	<i>88</i>
<i>Sample Date:</i>		<i>3/22/1988</i>	<i>6/28/1988</i>	<i>8/31/1988</i>	<i>12/29/1988</i>	<i>1/20/1989</i>	<i>2/21/1989</i>	<i>5/31/1989</i>	<i>8/30/1989</i>	<i>11/11/1989</i>	<i>2/22/1990</i>	<i>2/22/1990</i>	<i>7/27/1990</i>	<i>8/14/1990</i>	<i>2/21/1991</i>	<i>2/21/1991</i>	<i>5/30/1991</i>	<i>8/8/1991</i>
<i>Parameters:</i>	<i>Units</i>											<i>Duplicate</i>				<i>Duplicate</i>		
Silver (Dissolved)	mg/L	-	0.02 U	0.02 U	0.02 U	0.02 U	-	0.03 U	0.03 U	0.03 U	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	140	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium (Dissolved)	mg/L	-	200	16	-	250	-	214	229	197	214	253	-	-	168	68.7	-	-
Zinc (Dissolved)	mg/L	-	0.01 U	0.01	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Pesticides</i>																		
2,4,5-TP (Silvex)	mg/L	-	-	-	-	-	0.0005 U	0.001 U	0.001 U	0.001 U	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	-	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	-	0.0001 U	0.00009 U	0.000093 U	0.0001 U	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	-	0.0001 U	0.000045 U	0.000046 U	0.00005 U	-	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	-	0.0005 U	0.00045 U	0.00046 U	0.00005 U	-	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	-	0.001 U	0.0009 U	0.00093 U	0.001 U	-	-	-	-	-	-	-	-
<i>Bio</i>																		
Fecal Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-	2 U	2 U	-	-	-	-	-	-	-	-
Total Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-	7	2 U	-	-	-	-	-	-	-	-
<i>Radiology</i>																		
Gross Alpha Analytes	pci/L	-	-	-	-	-	5 U	11	0	-	-	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	-	6	11	0	-	-	-	-	-	-	-	-	-
Radium-226	pci/L	-	-	-	-	-	-	0.3	0.1	-	-	-	-	-	-	-	-	-
Radium-228	pci/L	-	-	-	-	-	-	0.0	0.1	-	-	-	-	-	-	-	-	-
<i>General Chemistry</i>																		
Chloride	mg/L	-	5.8	5	4	1 U	-	1 U	12.5	2 U	5.56	5.2	-	-	4.64	5.28	-	-
Conductivity Field	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (Average)	umhos/cm	940	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	-	0.32	1.61	0.25	0.28	-	0.19	0.22	0.25	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	0.28	1.6	1.8	1.2	-	0.46	0.36	1.9	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (Average)	s.u.	7.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	0.021	0.01 U	0.01 U	0.01 U	-	0.005 U	0.01 U	0.01 U	0.04 U	0.04 U	-	-	0.5 U	0.5 U	-	-
Sulfate	mg/L	-	260	52	330	200	-	208	195	200	162	162	-	-	126	300	-	-
Temperature, Field	deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Coliform Bacteria	/100mL	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	1	49	7	1 U	-	2.3	2	2	1.12	1.2	4.29	4.02	5.62	-	3.7	4.01
Total Organic Carbon (3)	mg/L	-	1 U	69	4	6	-	2.2	2.1	2.1	U	5.11	4.61	4.03	5.63	-	3.4	6.28
Total Organic Carbon (4)	mg/L	-	5	41	5	3	-	2.3	2.4	2.4	9.07	3.51	4.85	4.04	5.91	-	3.5	5.07
Total Organic Carbon (TOC)	mg/L	2.5	1	46	5	2	-	2.1	2.3	2.1	1.28	2.09	4.25	4	5.5	-	3.7	4.18
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	0.03 U	0.03	0.03	0.03 U	-	0.011	0.01 U	0.01 U	0.012 J	0.0196	0.005 U	U	0.01 U	-	-	0.03 U
Total Organic Halides (3)	mg/L	-	0.03 U	0.03 U	0.03	0.03 U	-	0.005 U	0.01 U	0.01 U	0.0202	0.0502	0.005 U	U	0.02	-	-	0.03 U
Total Organic Halides (4)	mg/L	-	0.03 U	0.03 U	0.03	0.03 U	-	0.005 U	0.01 U	0.01 U	0.045	0.0577	0.007	U	0.01 U	-	-	0.03 U
Total Organic Halides (TOX)	mg/L	0.01 U	0.03 U	0.03 U	0.03 U	0.03 U	-	0.007	0.01 U	0.01 U	0.0112 J	0.02 U	0.005 U	U	0.01 U	-	-	0.03 U
<i>Field Parameters</i>																		
Conductivity Field	mmhos/cm	-	0.980	0.99	16.1	1.400	-	1.16	1.15	1.17	1.09	-	1.3	1.12	1.30	-	-	1.26
Conductivity Field (2)	mmhos/cm	-	0.970	1.00	1.61	1.400	-	1.16	1.15	1.17	1.09	-	1.3	1.12	1.29	-	-	1.27
Conductivity Field (3)	mmhos/cm	-	0.980	1.00	1.61	1.400	-	1.15	1.15	1.17	1.09	-	1.3	1.11	1.31	-	-	1.28
Conductivity Field (4)	mmhos/cm	-	0.980	1.00	1.61	1.400	-	1.15	1.15	1.17	1.09	-	1.2	1.12	1.29	-	-	1.26
pH Field	S.U.	-	7.52	7.8	7.5	7.6	-	7.46	7.64	7.83	6.95	-	7.1	7.23	7.20	-	-	7.62
pH Field (2)	S.U.	-	7.42	-	7.5	7.6	-	7.47	7.63	7.80	6.95	-	7.1	7.18	7.16	-	-	7.43
pH Field (3)	S.U.	-	7.48	-	7.5	7.6	-	7.56	7.64	7.79	7.0	-	7.1	7.16	7.22	-	-	7.35
pH Field (4)	S.U.	-	7.50	-	7.5	7.6	-	7.61	7.65	7.77	7.0	-	7.53	7.21	7.23	-	-	7.32
Temperature, Field	Deg C	-	9.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (2)	Deg C	-	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (3)	Deg C	-	7.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (4)	Deg C	-	7.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07
Sample Name:		110	GW-7	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	E90444	E98151	E107733	E113024	E121668	E128393	E134498	E141429
Sample Date:		10/21/1991	1/21/1992	5/20/1992	8/13/1992	11/24/1992	3/15/1993	7/21/1993	10/1/1993	12/20/1993	3/29/1994	6/20/1994	9/22/1994	12/28/1994	3/20/1995	6/27/1995	9/27/1995	12/14/1995	4/5/1996
Parameters:	Units																		
Volatile Organic Compounds																			
1,1,1-Trichloroethane	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/L	-	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m&p-Xylene	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals																			
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminum (Dissolved)	mg/L	-	-	-	0.1 U	0.1 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	0.01 K	-	0.01 K	-	0.001 U	-	0.001 U	-	0.001 U	-	0.001 U	-
Arsenic (Dissolved)	mg/L	-	-	-	0.1 U	0.1 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	-	-	-	0.03	0.032	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	126	84	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	-	-	-	-	0.01 K	-	-	-	-	-	-	-	-	-	-	-
Chromium Total (Dissolved)	mg/L	-	-	0.01 U	0.01 U	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	0.023	-	-	-	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	0.01 U	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	0.1 U	0.1 U	-	2.29	-	-	-	0.01 U	-	-	-	0.011	-	-	-
Iron (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	0.005 U	0.003 U	-	0.003	-	0.003 K	-	0.001 U	-	0.0047	-	0.001 U	-	0.0041	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	30.7	22.6	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	0.015	0.023	-	0.109	-	-	-	0.01 U	-	-	-	0.021	-	-	-
Manganese (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	-	-	-	0.001 U	0.001 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	0.01 U	0.02 K	-	0.02 K	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Nickel (Dissolved)	mg/L	-	-	-	0.02 U	0.02 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	5.48	-	6.1	-	6.6	-	6.5	-	6.1	-	5.9	-
Potassium (Dissolved)	mg/L	-	-	6.55	6.78	5.93	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	-	-	0.005 U	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07
Sample Name:		110	GW-7	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	E90444	E98151	E107735	E113024	E121668	E128393	E134498	E141429
Sample Date:		10/21/1991	1/21/1992	5/20/1992	8/13/1992	11/24/1992	3/15/1993	7/21/1993	10/1/1993	12/20/1993	3/29/1994	6/20/1994	9/22/1994	12/28/1994	3/20/1995	6/27/1995	9/27/1995	12/14/1995	4/5/1996
Parameters:	Units																		
Silver (Dissolved)	mg/L	-	-	-	0.01 U	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	202	-	-	-	227	-	-	-	236	-	-	-
Sodium (Dissolved)	mg/L	-	-	-	238	225	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	0.023	0.02 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides																			
2,4,5-TP (Silvex)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bio																			
Fecal Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radiology																			
Gross Alpha Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium-226	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium-228	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																			
Chloride	mg/L	-	-	5.6	4.8	5.16	5	6.62	-	5.21	-	5.6	5.2	5.3	4.5	4.4	5.6	5.6	5.6
Conductivity Field	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (Average)	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	-	0.152	-	0.067 U	-	0.01 K	-	-	-	0.01	-	-	-	0.01 U	-	-	-
Sulfate	mg/L	-	-	713	464	342	318	272	-	624	-	292	305	337	320	295	269	240	248
Temperature, Field	deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Coliform Bacteria	/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	4.88	-	4.82	2.78	2.73	-	2.35	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	4.93	-	4.79	2.43	2.73	-	2.2	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	4.86	-	4.65	2.39	2.75	-	2.25	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	4.88	-	4.87	3.07	2.68	-	2.29	-	2.03	-	3.3	-	2.6	-	1.9	-	5.5	-
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	3.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	0.06	0.01 U	-	0.01	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	0.01 U	0.03	0.01 U	-	0.01 K	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	0.01 U	0.02	0.01 U	-	0.03	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	-	-	0.01 U	0.01	0.01 U	-	0.01 K	-	0.01 K	-	0.01 U	-	0.01 U	-	0.01 U	-	0.01 U	-
Field Parameters																			
Conductivity Field	mmhos/cm	-	1.215	1.70	1.91	2.05	-	1.35	1.32	2.10	2.39	-	-	1.2	1.1	-	1.101	0.956	1.086
Conductivity Field (2)	mmhos/cm	-	-	1.666	1.91	2.05	-	1.31	-	2.11	-	-	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	1.71	1.91	2.05	-	1.31	-	2.13	-	-	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	1.69	1.90	2.09	-	1.31	-	2.11	-	-	-	-	-	-	-	-	-
pH Field	S.U.	7.38	7.00	6.76	7.15	8.2	-	7.41	-	7.11	7.28	6.35	-	7.86	7.34	-	7.37	6.91	7.08
pH Field (2)	S.U.	7.41	-	6.79	7.20	8.1	-	7.21	-	7.15	-	-	-	-	-	-	-	-	-
pH Field (3)	S.U.	7.43	-	6.70	7.21	8.06	-	7.35	-	7.13	-	-	-	-	-	-	-	-	-
pH Field (4)	S.U.	7.48	-	6.74	7.18	8.0	-	7.42	-	7.19	-	-	-	-	-	-	-	-	-
Temperature, Field	Deg C	-	-	-	-	-	-	-	-	-	-	16	-	9	13.2	-	15.4	10.4	-
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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3/2/2007

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07	P-07
<i>Sample Name:</i>		E146581	E152699	E160175	E165458	E171019	E176118	E183290	E189236	E196374	E205400	E210907	E216004	E222110	E222118	E228254	P-07	P-07
<i>Sample Date:</i>		6/11/1996	8/27/1996	11/23/1996	2/26/1997	5/27/1997	8/19/1997	11/24/1997	2/23/1998	5/13/1998	8/20/1998	11/10/1998	2/3/1999	5/6/1999	5/6/1999	8/4/1999	2/3/2000	5/3/2000
<i>Parameters:</i>	<i>Units</i>														<i>Duplicate</i>			
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	189	-	-	-	198	-	-	-	180	-	-	-	243	-	-	-	257
Sodium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	244
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Pesticides</i>																		
2,4,5-TP (Silvex)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Bio</i>																		
Fecal Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Radiology</i>																		
Gross Alpha Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium-226	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium-228	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>General Chemistry</i>																		
Chloride	mg/L	5.3	5.3	5.6	5.6	6.1	6.7	5.5	5.5	5.1	5	6.2	5.4	5.2	-	5.2	4.3	5
Conductivity Field	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.607
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.91
pH Field (Average)	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	0.01	-	-	-	0.01 U	-	-	-	0.01 U	-	-	-	0.01 U	-	-	-	0.01 U
Sulfate	mg/L	215	212	206	220	198	205	189	197	185	176	180	149	679	-	636	1010	719
Temperature, Field	deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1
Total Coliform Bacteria	/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	1.8	-	3.5	-	6.8	-	11	-	7.8	-	2.2	-	5.3	7	-	-	2.9
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	0.01 U	-	0.01 U	-	0.01 U	-	0.01 U SI	-	0.01 U SI	-	0.01 U	-	0.01 U	-	-	-	0.01 U
<i>Field Parameters</i>																		
Conductivity Field	mmhos/cm	0.933	0.921	0.831	0.865	0.851	0.796	1.23	1.048	0.959	1.243	1.334	1.209	1.561	-	1.501	1.597	-
Conductivity Field (2)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	S.U.	7.18	7.12	6.89	7.33	7.47	7.19	6.96	7.08	7.45	6.71	6.71	6.74	6.49	-	7.07	6.78	-
pH Field (2)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (3)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (4)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field	Deg C	11.8	14.4	12.9	8.2	12.8	15.9	11.4	9.7	14.6	15.7	12	10.3	13.8	-	16.2	9.3	-
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>	<i>P-07</i>	<i>P-07</i>	<i>P-07</i>	<i>P-07</i>
<i>Sample Name:</i>	<i>P-07</i>	<i>271750</i>	<i>277762</i>	<i>285483</i>
<i>Sample Date:</i>	<i>11/2/2000</i>	<i>2/15/2001</i>	<i>5/1/2001</i>	<i>8/14/2001</i>

Parameters: *Units*

Volatile Organic Compounds

1,1,1-Trichloroethane	mg/L	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-
2-Hexanone	mg/L	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-
Acetone	mg/L	-	-	-	-
Benzene	mg/L	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-
Bromoform	mg/L	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-
Chloroethane	mg/L	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-
Methylene chloride	mg/L	-	-	-	-
o-Xylene	mg/L	-	-	-	-
Styrene	mg/L	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-
Toluene	mg/L	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-
Trichloroethene	mg/L	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-

Metals

Aluminum	mg/L	-	-	-	-
Aluminum (Dissolved)	mg/L	-	-	-	-
Arsenic	mg/L	-	-	-	-
Arsenic (Dissolved)	mg/L	-	-	-	-
Barium (Dissolved)	mg/L	-	-	-	-
Cadmium	mg/L	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-
Calcium	mg/L	-	-	-	-
Chromium Total	mg/L	-	-	-	-
Chromium Total (Dissolved)	mg/L	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-
Copper	mg/L	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-
Iron	mg/L	-	-	0.91	-
Iron (Dissolved)	mg/L	-	-	-	-
Lead	mg/L	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-
Magnesium	mg/L	-	-	-	-
Manganese	mg/L	-	-	0.028	-
Manganese (Dissolved)	mg/L	-	-	-	-
Mercury (Dissolved)	mg/L	-	-	-	-
Nickel	mg/L	0.015 J	0.011	0.016	0.029
Nickel (Dissolved)	mg/L	-	-	-	-
Potassium	mg/L	-	-	5.9	-
Potassium (Dissolved)	mg/L	-	-	-	-
Selenium (Dissolved)	mg/L	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>	<i>P-07</i>	<i>P-07</i>	<i>P-07</i>	<i>P-07</i>
<i>Sample Name:</i>	<i>P-07</i>	<i>271750</i>	<i>277762</i>	<i>285483</i>
<i>Sample Date:</i>	<i>11/2/2000</i>	<i>2/15/2001</i>	<i>5/1/2001</i>	<i>8/14/2001</i>

<i>Parameters:</i>	<i>Units</i>				
Silver (Dissolved)	mg/L	-	-	-	-
Sodium	mg/L	-	-	238	-
Sodium (Dissolved)	mg/L	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-

Pesticides

2,4,5-TP (Silvex)	mg/L	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-
Endrin	mg/L	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-
Methoxychlor	mg/L	-	-	-	-
Toxaphene	mg/L	-	-	-	-

Bio

Fecal Coliform Bacteria	cfu/100mL	-	-	-	-
Total Coliform Bacteria	cfu/100mL	-	-	-	-

Radiology

Gross Alpha Analytes	pci/L	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-
Radium-226	pci/L	-	-	-	-
Radium-228	pci/L	-	-	-	-

General Chemistry

Chloride	mg/L	5.1	5	5.1	5.2
Conductivity Field	mmhos/cm	-	-	-	-
Conductivity Field (Average)	umhos/cm	-	-	-	-
Fluoride	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-
pH Field	s.u.	-	-	-	-
pH Field (Average)	s.u.	-	-	-	-
Phenolics (Total)	mg/L	-	-	0.01 U	-
Sulfate	mg/L	568	571	379	450 MS
Temperature, Field	deg C	-	-	-	-
Total Coliform Bacteria	/100mL	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-
Total Organic Carbon (TOC)	mg/L	2.4	-	8.6	2.4
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-
Total Organic Halides (TOX)	mg/L	0.01 U	-	0.01 U	0.01 U

Field Parameters

Conductivity Field	mmhos/cm	1.744	-	-	-
Conductivity Field (2)	mmhos/cm	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-	-
pH Field	S.U.	6.83	-	-	-
pH Field (2)	S.U.	-	-	-	-
pH Field (3)	S.U.	-	-	-	-
pH Field (4)	S.U.	-	-	-	-
Temperature, Field	Deg C	14.9	-	-	-
Temperature, Field (2)	Deg C	-	-	-	-
Temperature, Field (3)	Deg C	-	-	-	-
Temperature, Field (4)	Deg C	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T
Sample Name:	01/199285	01/199285	8906GS27-010	P-07T	8911G190-010	11	25	29	52	73	89	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T
Sample Date:	1/20/1989	2/21/1989	5/31/1989	8/30/1989	11/11/1989	2/22/1990	7/27/1990	8/14/1990	2/21/1991	5/30/1991	8/8/1991	5/20/1992	8/13/1992	11/24/1992	3/15/1993	7/21/1993	12/20/1993	3/29/1994	
Parameters: Units																			
Metals																			
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	121	0.1 U	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 K	0.01 K	-
Arsenic (Dissolved)	mg/L	0.05 U	-	0.004 U	0.0029	0.004 U	-	-	-	-	-	-	-	0.1 U	0.1 U	-	-	-	-
Barium (Dissolved)	mg/L	0.26	-	0.05 U	0.05 U	0.05 U	-	-	-	-	-	-	-	0.026	0.021	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	0.01 U	-	0.004 U	0.004 U	0.004 U	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	1680	158	-	-	-	-
Chromium Total	mg/L	-	-	-	-	-	0.018	-	-	0.01 U	-	-	-	-	-	-	0.01 K	-	-
Chromium Total (Dissolved)	mg/L	0.055	-	0.02 U	0.02 U	0.02 U	-	-	-	-	-	-	0.01 U	0.01	0.01 U	-	-	-	-
Chromium VI (Hexavalent)	mg/L	0.01 U	-	0.02 U	0.02 U	0.02 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	0.01 U	-	-	0.01 U	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 K	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U	0.01 U	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (Dissolved)	mg/L	62	-	0.03 U	0.03 U	0.03 U	2.19	-	-	0.259	-	-	-	1.6	0.1 U	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.003 K	0.003 K	-
Lead (Dissolved)	mg/L	-	-	0.002 U	0.002 U	0.002 U	-	-	-	-	-	-	-	0.005 U	0.003 U	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	39.7	32.7	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.424	-	-
Manganese (Dissolved)	mg/L	1.1	-	0.39	0.34	0.26	0.905	-	-	0.189	-	-	-	0.309	0.133	-	-	-	-
Mercury (Dissolved)	mg/L	0.0002 U	-	0.0005 U	0.0002 U	0.0002 U	-	-	-	-	-	-	-	0.001 U	0.001 U	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U	0.02 K	0.02 K	-
Nickel (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.02 U	0.02 U	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.38	4.75	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	5.53	6.51	5.77	-	-	-	-
Selenium (Dissolved)	mg/L	0.01 U	-	0.002 U	0.01 U	0.002 U	-	-	-	-	-	-	-	0.005 U	0.005 U	-	-	-	-
Silver (Dissolved)	mg/L	0.02 U	-	0.03 U	0.03 U	0.03 U	-	-	-	-	-	-	-	0.01 U	0.01 U	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	91.7	-	-
Sodium (Dissolved)	mg/L	130	-	87.2	110	100	76.6	-	-	67.5	-	-	-	71.6	67.9	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.029	0.02 U	-	-	-	-
Pesticides																			
2,4,5-TP (Silvex)	mg/L	-	0.0005 U	0.001 U	0.001 U	0.001 U	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	0.001 U	0.001 U	0.001 U	0.001 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	mg/L	-	0.0001 U	0.000096 U	0.000096 U	0.00011 U	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	0.0001 U	0.000048 U	0.000048 U	0.000056 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	0.0005 U	0.00048 U	0.00048 U	0.00056 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	mg/L	-	0.001 U	0.00096 U	0.00096 U	0.0011 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Bio																			
Fecal Coliform Bacteria	cfu/100mL	-	-	2 U	2 U	2 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Coliform Bacteria	cfu/100mL	-	-	2 U	17	2 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Radiology																			
Gross Alpha Analytes	pci/L	-	5 U	6.1	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	4 U	10	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium-226	pci/L	-	-	0.1	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium-228	pci/L	-	-	0.0	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																			
Chloride	mg/L	1 U	-	1 U	10	5.9	6.85	-	-	5.22	-	-	6.3	5.67	5.57	5.5	5.36	5.38	-
Fluoride	mg/L	0.28	-	0.18	0.18	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	0.48	-	0.09	0.47	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	0.01 U	-	0.005 U	0.01 U	0.01 U	0.04 U	-	-	0.5 U	-	-	0.067 U	0.094	0.067 U	-	0.067 K	-	-
Sulfate	mg/L	280	-	329	309	289	316	-	-	293	-	-	441	448	361	399	448	399	-
Total Organic Carbon (2)	mg/L	2	-	2.6	2.5	2.7	1.99	1.21	2.76	4.19	3.5	-	2.89	2.18	3.88	-	1.84	-	-
Total Organic Carbon (3)	mg/L	1 U	-	2.6	2.6	3	1.6	1.24	2.87	4.25	3.5	-	2.78	1.96	3.82	-	1.78	-	-
Total Organic Carbon (4)	mg/L	2	-	2.5	2.7	3	1.99	1.26	3.11	4.46	3.3	-	2.85	2.72	3.8	-	1.85	-	-
Total Organic Carbon (TOC)	mg/L	1 U	-	2.6	2.4	2.9	1.47	1.18	2.7	4.1	3.4	-	2.84	3.11	3.95	-	1.83	2.25	-
Total Organic Halides (2)	mg/L	0.03 U	-	0.005 U	0.01 U	0.01 U	0.0198 J	U	0.008	0.01 U	-	0.03 U	0.01 U	0.01	0.01 U	-	0.01 K	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T
Sample Name:		01/199285	01/199285	8906G827-010		8911G190-010	11	25	29	52	73	89	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T
Sample Date:		1/20/1989	2/21/1989	5/31/1989	8/30/1989	11/11/1989	2/22/1990	7/27/1990	8/14/1990	2/21/1991	5/30/1991	8/8/1991	5/20/1992	8/13/1992	11/24/1992	3/15/1993	7/21/1993	12/20/1993
																		3/29/1994
Parameters:	Units																	
Total Organic Halides (3)	mg/L	0.03 U	-	0.005 U	0.01 U	0.01 U	0.0196 J	0.011	0.045	0.01 U	-	0.03 U	0.01 U	0.02	0.01 U	-	0.01	-
Total Organic Halides (4)	mg/L	0.03 U	-	0.005 U	0.01 U	0.01 U	0.0397	0.02	0.088	0.01 U	-	0.03 U	0.01 U	0.02	0.01 U	-	0.01 K	-
Total Organic Halides (TOX)	mg/L	0.03 U	-	0.005 U	0.01 U	0.01 U	0.015 J	U	U	0.01 U	-	0.03 U	0.01 U	0.01 U	0.01 U	-	0.01 K	0.01 K
Field Parameters																		
Conductivity Field	mmhos/cm	1.200	-	1.08	1.25	1.14	0.98	1.4	1.42	1.30	-	1.29	2.16	1.44	1.66	-	1.29	1.61
Conductivity Field (2)	mmhos/cm	1.200	-	1.08	1.24	1.14	0.98	1.4	1.42	1.29	-	1.27	2.60	1.42	1.67	-	1.40	1.39
Conductivity Field (3)	mmhos/cm	1.200	-	1.08	1.24	1.14	0.97	1.4	1.41	1.30	-	1.28	6.13	1.41	1.63	-	1.42	1.43
Conductivity Field (4)	mmhos/cm	1.200	-	1.09	1.24	1.14	0.97	1.4	1.4	1.29	-	1.30	2.16	1.41	1.64	-	1.39	1.43
pH Field	S.U.	7.4	-	7.27	7.24	7.21	6.9	6.81	7.11	7.24	-	8.37	7.07	6.48	7.86	-	6.83	6.95
pH Field (2)	S.U.	7.4	-	7.28	7.24	7.22	6.79	6.82	6.89	7.22	-	8.42	7.06	6.70	7.80	-	6.95	6.93
pH Field (3)	S.U.	7.4	-	7.29	7.23	7.24	6.84	6.84	6.96	7.25	-	8.54	7.05	6.88	7.77	-	6.98	6.85
pH Field (4)	S.U.	7.4	-	7.31	7.23	7.26	6.85	7.22	6.98	7.22	-	8.54	7.08	6.91	7.71	-	6.88	6.91
Temperature, Field	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T	P-07T
Sample Name:	E90445	E98152	E107745	E113022	E121678	E128394	E134499	E141430	E146582	E152698	E160176	E165459	E171020	E176119	E183291	E189237	E196375	E205401
Sample Date:	6/20/1994	9/22/1994	12/28/1994	3/20/1995	6/27/1995	9/27/1995	12/14/1995	4/5/1996	6/11/1996	8/27/1996	11/25/1996	2/26/1997	5/27/1997	8/19/1997	11/24/1997	2/25/1998	5/13/1998	8/20/1998
Parameters:	Units																	
Metals																		
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	0.001 U	-	0.001 U	-	0.001 U	-	0.001 U	-	-	-	-	-	-	-	-	-	-
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	0.01 U	-	-	-	0.01 U	-	-	0.01 U	-	-	-	0.48	-	-	-	0.32	-
Iron (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	0.001 U	-	0.001 U	-	0.001 U	-	0.0011	-	-	-	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	0.26	-	-	-	0.53	-	-	0.14	-	-	-	0.46	-	-	-	0.14	-
Manganese (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	0.01 U	0.01 U	0.011	0.01 U	0.01 U	0.01 U	0.013	0.01 U	0.01	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.038
Nickel (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	5.8	-	8	-	6.5	-	7.3	-	-	-	-	-	-	-	-	-	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	63	-	-	-	92	-	-	91	-	-	-	91	-	-	-	105	-
Sodium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides																		
2,4,5-TP (Silvex)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bio																		
Fecal Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radiology																		
Gross Alpha Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium-226	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radium-228	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																		
Chloride	mg/L	5.6	5.4	5.2	5	4.7	6.5	5.4	5.7	5.6	5.6	6.1	6.3	6.7	7	5.8	5.9	5.4
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	0.009	-	-	-	0.01 U	-	-	-	0.01 U	-	-	0.01 U	-	-	-	0.01 U	-
Sulfate	mg/L	426	378	622	668	613	505	517	475	449	473	420	495	411	448	377	363	344
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>
<i>Sample Name:</i>	<i>E90445</i>	<i>E98152</i>	<i>E107745</i>	<i>E113022</i>	<i>E121678</i>	<i>E128394</i>	<i>E134499</i>	<i>E141430</i>	<i>E146582</i>	<i>E152698</i>	<i>E160176</i>	<i>E165459</i>	<i>E171020</i>	<i>E176119</i>	<i>E183291</i>	<i>E189237</i>	<i>E196375</i>	<i>E205401</i>
<i>Sample Date:</i>	<i>6/20/1994</i>	<i>9/22/1994</i>	<i>12/28/1994</i>	<i>3/20/1995</i>	<i>6/27/1995</i>	<i>9/27/1995</i>	<i>12/14/1995</i>	<i>4/5/1996</i>	<i>6/11/1996</i>	<i>8/27/1996</i>	<i>11/25/1996</i>	<i>2/26/1997</i>	<i>5/27/1997</i>	<i>8/19/1997</i>	<i>11/24/1997</i>	<i>2/25/1998</i>	<i>5/13/1998</i>	<i>8/20/1998</i>
<i>Parameters:</i>	<i>Units</i>																	
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	0.01 U	-	0.01 U	-	0.01 U	-	0.01 U	-	0.01 U	-	0.01 U	-	0.01 U	-	0.01 U SI	-	0.01 U
<i>Field Parameters</i>																		
Conductivity Field	mmhos/cm	-	1.075	-	1.3	-	1.159	1.135	1.163	1.077	0.968	0.905	0.948	0.957	0.903	1.426	1.141	1.117
Conductivity Field (2)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	S.U.	6.22	6.47	-	7.12	-	6.89	6.23	6.92	6.71	6.72	6.78	7.26	7.04	6.71	6.61	6.97	6.91
pH Field (2)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (3)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (4)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field	Deg C	16	15.5	-	13.3	-	15.9	10	-	12.6	15.2	11.6	7.5	12.8	16.9	10	8.3	13.2

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>
<i>Sample Name:</i>	E222111	E228255	P-07T	P-07T	P-07T	P-07T	P-07T	271751	277763	285484
<i>Sample Date:</i>	5/6/1999	8/4/1999	2/3/2000	5/3/2000	8/31/2000	11/2/2000	2/15/2001	5/1/2001	8/14/2001	2/5/2002

Parameters: *Units*

Metals

Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	0.01 U	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	0.01 U	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	-	0.05 U	-	-	-	-	-
Chromium Total (Dissolved)	mg/L	-	-	-	0.05 U	-	-	-	-	-
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	0.05 U	-	-	-	-	-
Iron	mg/L	3.62	-	-	5.02	-	-	1.33	-	-
Iron (Dissolved)	mg/L	-	-	-	0.1 U	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-
Manganese	mg/L	0.64	-	-	0.67	-	-	0.17	-	-
Manganese (Dissolved)	mg/L	-	-	-	0.44	-	-	-	-	-
Mercury (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-
Nickel	mg/L	0.016 DI	0.05	0.01 U	0.01 U	0.015	0.074	0.013	0.011	0.02
Nickel (Dissolved)	mg/L	-	-	-	0.01 U	-	-	-	-	-
Potassium	mg/L	-	-	-	7.1	-	-	7	-	-
Potassium (Dissolved)	mg/L	-	-	-	6.8	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-
Sodium	mg/L	64	-	-	62	-	-	117]	-	-
Sodium (Dissolved)	mg/L	-	-	-	68	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-

Pesticides

2,4,5-TP (Silvex)	mg/L	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	-	-	-	-	-

Bio

Fecal Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-	-	-
Total Coliform Bacteria	cfu/100mL	-	-	-	-	-	-	-	-	-

Radiology

Gross Alpha Analytes	pci/L	-	-	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	-	-	-	-	-
Radium-226	pci/L	-	-	-	-	-	-	-	-	-
Radium-228	pci/L	-	-	-	-	-	-	-	-	-

General Chemistry

Chloride	mg/L	6.6	6.7	7.4	6.3	6.9	6.5	6.1	6	5.8	7.5
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	0.01 U	-	-	0.01 U	-	-	-	0.01 U	-	-
Sulfate	mg/L	905	1220	733	930	1130	994	988	826	955	1580
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	4.3	-	-	2.3	-	-	-	3.8	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-	-	-	-	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

<i>Sample Location:</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>
<i>Sample Name:</i>	<i>E222111</i>	<i>E228255</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>P-07T</i>	<i>271751</i>	<i>277763</i>	<i>285484</i>	<i>298110</i>
<i>Sample Date:</i>	<i>5/6/1999</i>	<i>8/4/1999</i>	<i>2/3/2000</i>	<i>5/3/2000</i>	<i>8/31/2000</i>	<i>11/2/2000</i>	<i>2/15/2001</i>	<i>5/1/2001</i>	<i>8/14/2001</i>	<i>2/5/2002</i>

<i>Parameters:</i>	<i>Units</i>									
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	0.01 U	-	-	0.01 U	-	-	0.01 U	-	-

Field Parameters

Conductivity Field	mmhos/cm	1.991	1.403	1.512	1.577	1.510	-	-	-	-
Conductivity Field (2)	mmhos/cm	-	-	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-	-	-	-	-	-	-
pH Field	S.U.	6.21	6.62	6.82	6.57	6.54	-	-	-	-
pH Field (2)	S.U.	-	-	-	-	-	-	-	-	-
pH Field (3)	S.U.	-	-	-	-	-	-	-	-	-
pH Field (4)	S.U.	-	-	-	-	-	-	-	-	-
Temperature, Field	Deg C	12.5	16.7	8.8	15.1	16.9	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08
Sample Name:	P-8	47728	48351	P-08	01/199289	01/199289	8906G827-011	8906G550-007	8911G190-011	9	24	30	60	69	82	106	GW-8
Sample Date:	3/22/1988	6/28/1988	8/31/1988	12/29/1988	1/20/1989	2/21/1989	5/31/1989	8/30/1989	11/21/1989	2/21/1990	7/27/1990	8/14/1990	2/21/1991	5/30/1991	8/8/1991	10/21/1991	1/22/1992
Parameters:	Units																
Volatile Organic Compounds																	
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U
2-Hexanone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U
Acetone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U
Benzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
m&p-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
o-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
Styrene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
Toluene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005 U
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U
Metals																	
Aluminum	mg/L	-	-	-	0.22	-	-	-	-	-	-	-	-	-	-	-	-
Aluminum (Dissolved)	mg/L	-	0.2 U	0.32	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (Dissolved)	mg/L	-	0.05 U	0.05 U	0.05 U	0.05 U	-	0.004 U	0.0026	0.004 U	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	-	0.5 U	0.23	0.2 U	0.2 U	-	0.083	0.088	0.097	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	0.01 U	0.01 U	0.01 U	0.01 U	-	0.004 U	0.004 U	0.004 U	-	-	-	-	-	-	0.01 U
Calcium	mg/L	-	160	94	140	-	-	-	-	-	-	-	-	-	-	-	270
Chromium Total	mg/L	-	-	-	0.03 U	-	-	-	-	-	0.01 U	-	-	-	-	-	0.03
Chromium Total (Dissolved)	mg/L	-	0.03 U	0.03 U	-	0.03 U	-	0.02 U	0.02 U	0.02 U	-	-	-	-	-	-	0.02 U
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02 U
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	0.01 U	0.01 U	0.01 U	0.01 U	-	0.02 U	0.02 U	0.02 U	0.01 U	-	-	0.01 U	-	-	0.02 U
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	0.01 U	0.01 U	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	0.01 U	0.01 U	0.01 U	-	-	-	-	-	-	-	-	-	-	-	0.02 U
Iron	mg/L	0.79	-	-	0.87	-	-	-	-	-	-	-	-	-	-	-	-
Iron (Dissolved)	mg/L	-	0.51	0.51	-	1.3	-	0.072	0.045	0.12	0.291	-	-	5.58	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	0.02 U	0.02 U	0.02 U	0.02 U	-	0.002 U	0.002 U	0.002 U	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	24	-	-	-	-	-	-	-	-	-	-	-	63
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	0.11	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (Dissolved)	mg/L	-	0.18	0.18	-	0.25	-	0.21	0.23	0.27	0.244	-	-	0.437	-	-	-
Mercury (Dissolved)	mg/L	-	0.0002 U	0.0002 U	0.0002 U	0.0002 U	-	0.0005 U	0.0002 U	0.0002 U	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	0.025	-	-	-	-	-	-	-	-	-	-	-	0.08
Nickel (Dissolved)	mg/L	-	0.01 U	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-	0.04 U

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08
Sample Name:		P-8	47728	48351	P-08	01/199289	01/199289	8906G827-011	8908G550-007	8911G190-011	9	24	30	60	69	82	106	GW-8
Sample Date:		3/22/1988	6/28/1988	8/31/1988	12/29/1988	1/20/1989	2/21/1989	5/31/1989	8/30/1989	11/21/1989	2/21/1990	7/27/1990	8/14/1990	2/21/1991	5/30/1991	8/8/1991	10/21/1991	1/22/1992
Parameters:	Units																	
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	0.01 U	0.01 U	0.01 U	0.01 U	-	0.002 U	0.01 U	0.002 U	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	0.02 U	0.02 U	0.02 U	0.02 U	-	0.03 U	0.03 U	0.03 U	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	58	-	-	-	-	-	-	-	-	-	-	-	-	70
Sodium (Dissolved)	mg/L	-	42	55	-	100	-	55.1	49.9	61.2	63.4	-	-	35.4	-	-	-	-
Zinc (Dissolved)	mg/L	-	0.01 U	0.01 U	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides																		
2,4,5-TP (Silvex)	mg/L	-	-	-	-	-	0.0005 U	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	-	0.001 U	-	-	-	-	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	-	0.0001 U	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	-	0.0001 U	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	-	0.0005 U	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	-	0.001 U	-	-	-	-	-	-	-	-	-	-	-
Radiology																		
Gross Alpha Analytes	pci/L	-	-	-	-	-	5 U	-	-	-	-	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	-	4 U	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																		
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	360
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2 U
Chloride	mg/L	-	4	51	75	1 U	-	77	67.8	113	81.4	-	-	57.3	-	-	-	93
Conductivity Field (Average)	umhos/cm	1000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	-	0.22	0.289	0.25	0.35	-	0.22	0.22	0.22	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	0.29	1.1	0.01 U	0.051	-	0.05 U	0.05 U	0.1 U	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (Average)	s.u.	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	0.035	0.01 U	0.01 U	0.01 U	-	0.005 U	0.01 U	0.01 U	0.04 U	-	-	0.5 U	-	-	-	-
Sulfate	mg/L	-	102	68	130	110	-	142	117	318	263	-	-	239	-	-	-	650
Temperature, Field	deg F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Coliform Bacteria	/100mL	3500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	4	4	5	1 U	-	2.1	2.2	2.4	3.07	3.17	2.8	10.2	3.1	5.59	18.5	5.1
Total Organic Carbon (3)	mg/L	-	1 U	4	4	1 U	-	2.1	2.1	2.5	2.2	3.23	2.82	10.3	2.9	6.33	18.5	5.1
Total Organic Carbon (4)	mg/L	-	1	5	5	1 U	-	2.1	2.1	2.7	2.27	3.27	3.07	10.5	3.2	6	18.2	5.1
Total Organic Carbon (TOC)	mg/L	1.13	4	7	4	1 U	-	2.2	2.1	2.8	4.34	3.13	2.79	10.1	2.9	6.41	18.4	5
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	0.03 U	0.03	0.03 U	0.03 U	-	0.007	0.01 U	0.01 U	0.02 U	0.059	U	0.01 U	-	0.05	0.01 U	0.088
Total Organic Halides (3)	mg/L	-	0.03 U	0.03	0.03 U	0.03 U	-	0.005 U	0.01 U	0.01 U	0.02 U	0.076	U	0.01 U	-	0.06	0.01 U	0.14
Total Organic Halides (4)	mg/L	-	0.03 U	0.07	0.03 U	0.03 U	-	0.005 U	0.01 U	0.01 U	0.0022 J	0.089	U	0.01 U	-	0.04	0.01 U	0.098
Total Organic Halides (TOX)	mg/L	0.01 U	0.03 U	0.03 U	0.03 U	0.03 U	-	0.008	0.01 U	0.01 U	0.02 U	0.015	U	0.01 U	-	0.06	0.01 U	0.11
Field Parameters																		
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	-	0.960	0.98	1.1	1.2	-	1.11	1.06	1.41	1.21	1.6	1.21	1.42	-	1.31	-	1.605
Conductivity Field (2)	mmhos/cm	-	0.960	0.98	1.1	1.2	-	1.11	1.06	1.41	1.21	1.6	1.22	1.43	-	1.24	-	1.608
Conductivity Field (3)	mmhos/cm	-	0.960	0.98	1.1	1.2	-	1.10	1.05	1.41	1.21	1.6	1.21	1.42	-	1.23	-	1.595
Conductivity Field (4)	mmhos/cm	-	0.960	0.98	1.1	1.2	-	1.10	1.05	1.41	1.21	1.5	1.21	1.42	-	1.22	-	1.609
pH Field	S.U.	-	7.5	7.6	7.4	7.6	-	7.25	7.19	7.18	7.10	6.9	7.49	7.24	6.74	6.89	-	7.09
pH Field (2)	S.U.	-	7.5	-	7.4	7.6	-	7.26	7.14	7.16	7.15	6.92	7.55	7.25	6.82	7.42	-	7.12
pH Field (3)	S.U.	-	7.5	-	7.4	7.6	-	7.28	7.15	7.15	7.12	7.0	7.38	7.25	6.83	7.43	-	7.10
pH Field (4)	S.U.	-	7.5	-	7.4	7.6	-	7.31	7.15	7.14	7.13	6.92	7.4	7.24	6.83	7.44	-	7.09
Temperature, Field	Deg C	-	11.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (2)	Deg C	-	11.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (3)	Deg C	-	11.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (4)	Deg C	-	11.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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3/2/2007

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08
Sample Name:		GW-8F	P-08	P-08-DUP	P-08	P-08-DUP	P-08	P-08-DUP	P-08	P-08-DUP	P-08	P-08	P-08-DUP	P-08	P-08-DUP	P-08	E90440	E98153	E107737	E113025
Sample Date:		1/22/1992	5/20/1992	5/20/1992	8/13/1992	8/13/1992	11/24/1992	11/24/1992	3/15/1993	7/21/1993	7/21/1993	10/7/1993	12/20/1993	12/20/1993	3/29/1994	6/20/1994	9/22/1994	12/28/1994	3/20/1995	
Parameters:	Units			Duplicate		Duplicate		Duplicate			Duplicate			Duplicate						
Potassium	mg/L	-	-	-	-	-	-	-	-	31.4	27.6	-	21.5	21.4	-	21	-	39	-	-
Potassium (Dissolved)	mg/L	-	7.74	10.5	62.4	47	72.9	3.04	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	46.8	47.6	-	-	-	-	51	-	-	-	-
Sodium (Dissolved)	mg/L	-	28.4	38.5	63.6	55.9	68.3	115	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	0.02 U	0.02 U	0.04	0.033	0.02 U	0.02 U	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides																				
2,4,5-TP (Silvex)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radiology																				
Gross Alpha Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																				
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	71.1	129	89.2	80.8	84.5	61	76.4	71	76	75.2	72	10	-	86	83	68	59	-
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (Average)	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	0.067 U	0.067 U	0.067 U	0.067 U	0.293	0.144	-	0.067 K	0.067 K	-	-	-	-	0.011	-	-	-	-
Sulfate	mg/L	-	337	392	448	350	435	775	281	-	279	258	348	343	-	268	285	286	295	-
Temperature, Field	deg F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Coliform Bacteria	/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	3.58	2.93	3.47	3.52	7.87	4.69	-	2.65	2.73	-	-	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	3.61	2.92	3.46	3.32	7.46	4.7	-	2.89	2.71	-	-	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	3.56	2.92	3.44	3.26	7.24	4.73	-	2.91	2.65	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	3.6	2.88	3.45	3.35	7.92	4.68	-	2.7	2.76	-	3.77	2.79	-	2.6	-	2.5	-	-
Total Organic Carbon (TOC) (Dissolved)	mg/L	6.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	0.01 U	0.01 U	0.02	0.06	0.01 U	0.01 U	-	0.03	0.03	-	-	-	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	0.01 U	0.01 U	0.02	0.02	0.01 U	0.01	-	0.06	0.04	-	-	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	0.01 U	0.01 U	0.02	0.1	0.01 U	0.01	-	0.01	0.01	-	-	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	-	0.01 U	0.01 U	0.02	0.03	0.01 U	0.01 U	-	0.08	0.03	-	0.01 K	0.01 K	-	0.01 U	-	0.01 U	-	-
Field Parameters																				
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	-	1.29	1.63	1.54	1.55	1.55	-	-	1.35	1.34	1.070	1.48	-	2.08	1.175	1.2	1.15	1	-
Conductivity Field (2)	mmhos/cm	-	1.29	1.60	1.55	1.55	1.502	-	-	1.38	1.36	1.065	1.47	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	1.63	1.59	1.55	1.55	1.571	-	-	1.38	1.34	1.040	1.50	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	1.56	1.560	1.55	1.55	1.565	-	-	1.34	1.26	1.070	1.51	-	-	-	-	-	-	-
pH Field	S.U.	-	6.83	6.94	6.87	6.69	7.45	-	-	5.91	7.25	6.82	6.70	-	7.40	5.88	6.44	7.66	7.15	-
pH Field (2)	S.U.	-	6.97	6.93	6.91	6.77	7.44	-	-	7.00	7.18	6.84	6.65	-	-	-	-	-	-	-
pH Field (3)	S.U.	-	6.93	6.89	6.93	6.85	7.36	-	-	7.20	7.17	6.86	6.64	-	-	-	-	-	-	-
pH Field (4)	S.U.	-	6.90	7.00	6.94	6.90	7.28	-	-	7.05	7.21	6.88	6.66	-	-	-	-	-	-	-
Temperature, Field	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	17	10	13.7	-
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08
Sample Name:	E121676	E128385	E134491	E134492	E141425	E146579	E152692	E160167	E165456	E171013	E171014	E176112	E183287	E183288	E189234	E196371	E196372	E205396	
Sample Date:	6/27/1995	9/27/1995	12/14/1995	12/14/1995	4/5/1996	6/11/1996	8/27/1996	11/25/1996	2/26/1997	5/27/1997	5/27/1997	8/19/1997	11/24/1997	11/24/1997	2/25/1998	5/13/1998	5/13/1998	8/20/1998	
Parameters:	Units																		
Volatile Organic Compounds																			
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Hexanone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acetone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
m&p-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
o-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals																			
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	0.001 U	-	0.001 U	0.001 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium Total (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Iron	mg/L	0.21	-	-	-	0.31	-	-	-	0.92	0.76	-	-	-	-	0.73	0.78	-	
Iron (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	0.001 U	-	0.001 U	0.001 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese	mg/L	0.25	-	-	-	0.23	-	-	-	0.3	0.28	-	-	-	-	0.28	0.29	-	
Manganese (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mercury (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	mg/L	0.038	0.026	0.032	0.034	0.043	0.023	0.037	0.039	0.027	0.043	0.04	0.037	0.026	0.027	0.037	0.045	0.044	
Nickel (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.026	

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08
Sample Name:		E121676	E128385	E134491	E134492	E141425	E146579	E152692	E160167	E165456	E171013	E171014	E176112	E183287	E183288	E189234	E196371	E196372	E205396
Sample Date:		6/27/1995	9/27/1995	12/14/1995	12/14/1995 Duplicate	4/5/1996	6/11/1996	8/27/1996	11/25/1996	2/26/1997	5/27/1997	5/27/1997 Duplicate	8/19/1997	11/24/1997	11/24/1997 Duplicate	2/25/1998	5/13/1998	5/13/1998 Duplicate	8/20/1998
Parameters:	Units																		
Potassium	mg/L	21	-	21	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	41	-	-	-	-	40	-	-	-	42	44	-	-	-	-	51	47	-
Sodium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides																			
2,4,5-TP (Silvex)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radiology																			
Gross Alpha Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																			
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	73	83	76	75	67	67	88	80	62	83	80	71	69	69	70	81	78	68
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (Average)	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	0.01 U	-	-	-	-	0.01	-	-	-	0.01 U	0.01 U	-	-	-	-	0.01 U	0.01 U	-
Sulfate	mg/L	241	234	238	241	255	233	224	215	209	196	198	206	190	192	205	218	224	187
Temperature, Field	deg F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Coliform Bacteria	/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	3	-	2.7	2.7	-	0.5 U	-	2.3	-	3	2.9	-	3.5	3.7	-	2.5	2.5	-
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	0.01 U	-	0.01 U	0.01 U	-	0.01 U	-	0.01 U	-	0.01 U	0.01 U	-	0.01 U SI	0.01 U SI	-	0.01 U SI	0.01 U SI	-
Field Parameters																			
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	0.92	1.056	0.899	-	0.983	0.882	0.86	0.782	0.809	0.815	-	0.711	1.122	-	1.302	1.148	-	1.264
Conductivity Field (2)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	S.U.	7.62	7.1	6.82	-	6.82	6.89	6.84	6.7	6.98	7.16	-	6.77	6.58	-	6.93	7.12	-	6.51
pH Field (2)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (3)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (4)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field	Deg C	-	17.2	11.6	-	-	13.9	15.9	11.3	9.3	11.5	-	16.9	11.2	-	10.2	13	-	16
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08
Sample Name:		E210905	E215998	E215999	E222108	E228252	P-08	P-08	P-08	P-08	P-08	P-08	271747	277760	285475	285476	292313	298106
Sample Date:		11/9/1998	2/3/1999	2/3/1999	5/6/1999	8/4/1999	11/15/1999	2/3/2000	5/3/2000	8/31/2000	11/2/2000	2/15/2001	5/1/2001	8/14/2001	8/14/2001	11/6/2001	2/5/2002	
Parameters:	Units			Duplicate												Duplicate		
Volatile Organic Compounds																		
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals																		
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	-	-	-	-	-	0.05 U	-	-	-	-	-	-	-	-	-
Chromium Total (Dissolved)	mg/L	-	-	-	-	-	-	-	0.05 U	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	0.05 U	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	0.61	-	-	-	0.96	-	-	-	0.66	-	-	-	-	-
Iron (Dissolved)	mg/L	-	-	-	-	-	-	-	0.29	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	0.21	-	-	-	0.25	-	-	-	0.3	-	-	-	-	-
Manganese (Dissolved)	mg/L	-	-	-	-	-	-	-	0.23	-	-	-	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	0.055	0.041	0.031	0.037	0.033	0.039	0.032	0.035	0.045	0.044 J	0.033	0.035	0.053	0.053	0.036	0.038	-
Nickel (Dissolved)	mg/L	-	-	-	-	-	-	-	0.041	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08	P-08
Sample Name:		E210905	E215998	E215999	E222108	E228252	P-08	P-08	P-08	P-08	P-08	P-08	271747	277760	285475	285476	292313	298106
Sample Date:		11/9/1998	2/3/1999	2/3/1999	5/6/1999	8/4/1999	11/15/1999	2/3/2000	5/3/2000	8/31/2000	11/2/2000	2/15/2001	5/1/2001	8/14/2001	8/14/2001	11/6/2001	2/5/2002	
Parameters:	Units	Duplicate																
Potassium	mg/L	-	-	-	-	-	-	-	11	-	-	-	11	-	-	-	-	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	40	-	-	-	53	-	-	-	47	-	-	-	-	-
Sodium (Dissolved)	mg/L	-	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides																		
2,4,5-TP (Silvex)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radiology																		
Gross Alpha Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross Beta Analytes	pci/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																		
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	81	67	65	72	60	66	62	68	66	61	58	70	68	74	63	64	
Conductivity Field (Average)	umhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.590
pH Field (Average)	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	-	-	0.01 U	-	-	-	0.01 U	-	-	-	0.01 U	-	-	-	-	-
Sulfate	mg/L	219	213	203	208	208	185	237	209	249	179	173	197	265	264	267	228	
Temperature, Field	deg F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.7
Total Coliform Bacteria	/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	2.7	-	-	2.8	-	4	-	3.2	-	3.9	-	3.6	-	-	3.5	-	-
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	0.01 U	-	-	0.01 U	-	0.01 U	-	0.01 U	-	0.01 U	-	0.01 U	-	-	0.01 U	-	-
Field Parameters																		
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.210
Conductivity Field	mmhos/cm	1.336	1.088	-	1.116	0.957	0.968	0.906	0.876	1.090	1.061	-	-	-	-	-	-	-
Conductivity Field (2)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	S.U.	6.71	6.48	-	6.63	6.85	6.58	6.67	6.59	6.64	7.37	-	-	-	-	-	-	-
pH Field (2)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (3)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (4)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field	Deg C	13	11.8	-	13.2	15.3	11.5	9.8	12.5	17.2	15.3	-	-	-	-	-	-	-
Temperature, Field (2)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (3)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field (4)	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-08R	P-08R	P-08R	P-08R	P-08R	P-08R	P-08R	P-08R
Sample Name:	GW-12616-09	GW-12616-082702-DCR-001	W-12616-112502-DEN-02	W-12616-022603-DEN-02	W-12616-022603-DEN-03	W-12616-052703-DEN-01E	W-12616-052803-DEN-01	W-12616-38-082603-DEN-01
Sample Date:	6/26/2002	8/27/2002	11/25/2002	2/26/2003	2/26/2003 Duplicate	5/27/2003	5/28/2003	8/26/2003
Parameters:	Units							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-
Metals								
Barium	mg/L	0.082 J	0.088 J	0.094 J	0.087 J	0.088 J	-	0.091 J
Barium (Dissolved)	mg/L	0.081 J	0.091 J	0.096 J	0.091 J	0.091 J	-	0.094 J
Calcium	mg/L	89.1	87.9 J	104	92.8	94.5	-	101
Calcium (Dissolved)	mg/L	87.8	91.1	106	99.2	100	-	104
Chromium Total	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	-	0.010 U
Chromium Total (Dissolved)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	-	0.010 U
Copper	mg/L	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-08R</i>	<i>P-08R</i>	<i>P-08R</i>	<i>P-08R</i>	<i>P-08R</i>	<i>P-08R</i>	<i>P-08R</i>	<i>P-08R</i>
<i>Sample Name:</i>		<i>GW-12616-09</i>	<i>GW-12616-082702-DCR-001</i>	<i>W-12616-112502-DEN-02</i>	<i>W-12616-022603-DEN-02</i>	<i>W-12616-022603-DEN-03</i>	<i>W-12616-032703-DEN-01E</i>	<i>W-12616-052803-DEN-01</i>	<i>W-12616-38-082603-DEN-01</i>
<i>Sample Date:</i>		<i>6/26/2002</i>	<i>8/27/2002</i>	<i>11/23/2002</i>	<i>2/26/2003</i>	<i>2/26/2003</i>	<i>5/27/2003</i>	<i>5/28/2003</i>	<i>8/26/2003</i>
						<i>Duplicate</i>			
<i>Parameters:</i>	<i>Units</i>								
Iron	mg/L	0.15	0.075 J	0.17	0.30	0.17	-	0.12	0.11
Iron (Dissolved)	mg/L	0.085 J	0.065 J	0.15	0.078 J	0.091 J	-	0.12	0.12
Magnesium	mg/L	18.9	18.5	21.8	19.7	20.0	-	21.0	18.8
Magnesium (Dissolved)	mg/L	18.6	19.1	22.1	21.0	21.1	-	21.6	18.6
Manganese	mg/L	0.042	0.036	0.053	0.042	0.043	-	0.043	0.039 J
Manganese (Dissolved)	mg/L	0.043	0.037	0.052	0.045	0.045	-	0.044	0.039
Nickel	mg/L	0.0043 J	0.040 U	0.0080 J	0.0058 J	0.0057 J	-	0.0037 J	0.0032 J
Nickel (Dissolved)	mg/L	0.0058 J	0.040 U	0.0083 J	0.0077 J	0.0068 J	-	0.0036 J	0.0034 J
Potassium	mg/L	3.5 J	3.8 J	4.4 J	3.7 J	3.8 J	-	4.3 J	3.9 J
Potassium (Dissolved)	mg/L	3.4 J	3.9 J	4.4 J	3.9 J	3.8 J	-	4.4 J	3.9 J
Sodium	mg/L	188	206	198	184	189	-	199	191
Sodium (Dissolved)	mg/L	179	208	197	192	192	188	204	188
<i>General Chemistry</i>									
Chloride	mg/L	215	205	176	186	181	193	195	209
Cyanide (total)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	-	0.010 U	0.010 U
Sulfate	mg/L	25.7	48.0	78.2	77.4	75.8	-	45.4	29.4
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-	-
<i>Field Parameters</i>									
Conductivity	mmhos/cm	1.57	1.287	1.48	1.51	-	1.55	1.12	-
Conductivity Field	mmhos/cm	-	-	-	-	-	-	-	1.19
pH Field	S.U.	7.61	7.29	7.59	7.67	-	7.26	7.19	6.89
Temperature, Field	Deg C	14.4	17.15	12.89	8.47	-	13.27	13.96	18.12

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-08R	P-08R	P-08R	P-08R	P-08R	P-08R	P-08R
Sample Name:		W-12616-38-110503-DEN-07C	W-12616-38-111803-DEN-12	W-12616-38-121503-DEN-02	W-12616-38-121703-ACL-022	W-12616-011404-DEN-01C	W-12616-011404-DEN-01S	W-12616-022504-DEN-01
Sample Date:		11/5/2003	11/18/2003	12/15/2003	12/17/2003	1/14/2004	1/14/2004	2/25/2004
Parameters:	Units							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/L	-	-	0.001 U	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	0.001 U	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	0.001 U	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	0.001 U	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	0.001 U	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	0.001 U	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	0.001 U	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	0.002 U	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	0.001 U	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	0.001 U	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	0.001 U	-	-	-	-
1,4-Dioxane	mg/L	-	-	0.2 U	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	0.01 U	-	-	-	-
2-Hexanone	mg/L	-	-	0.01 U	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	0.01 U	-	-	-	-
Acetone	mg/L	-	-	0.01 U	-	-	-	-
Acetonitrile	mg/L	-	-	0.02 U	-	-	-	-
Acrolein	mg/L	-	-	0.02 U	-	-	-	-
Acrylonitrile	mg/L	-	-	0.02 U	-	-	-	-
Allyl chloride	mg/L	-	-	0.002 U	-	-	-	-
Benzene	mg/L	-	-	0.001 U	-	-	-	-
Bromodichloromethane	mg/L	-	-	0.001 U	-	-	-	-
Bromoform	mg/L	-	-	0.001 U	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	0.001 U	-	-	-	-
Carbon disulfide	mg/L	-	-	0.001 U	-	-	-	-
Carbon tetrachloride	mg/L	-	-	0.001 U	-	-	-	-
Chlorobenzene	mg/L	-	-	0.001 U	-	-	-	-
Chloroethane	mg/L	-	-	0.001 U	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	0.001 U	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	0.001 U	-	-	-	-
Chloroprene	mg/L	-	-	0.002 U	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	0.001 U	-	-	-	-
Dibromochloromethane	mg/L	-	-	0.001 U	-	-	-	-
Dibromomethane	mg/L	-	-	0.001 U	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	0.001 U	-	-	-	-
Ethyl methacrylate	mg/L	-	-	0.001 U	-	-	-	-
Ethylbenzene	mg/L	-	-	0.001 U	-	-	-	-
Iodomethane	mg/L	-	-	0.001 U	-	-	-	-
Isobutyl alcohol	mg/L	-	-	0.05 U	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	0.002 U	-	-	-	-
Methyl methacrylate	mg/L	-	-	0.002 U	-	-	-	-
Methylene chloride	mg/L	-	-	0.001 U	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	0.004 U	-	-	-	-
Styrene	mg/L	-	-	0.001 U	-	-	-	-
Tetrachloroethene	mg/L	-	-	0.001 U	-	-	-	-
Toluene	mg/L	-	-	0.001 U	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	0.001 U	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	0.001 U	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	0.001 U	-	-	-	-
Trichloroethene	mg/L	-	-	0.001 U	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	0.001 U	-	-	-	-
Vinyl acetate	mg/L	-	-	0.002 U	-	-	-	-
Vinyl chloride	mg/L	-	-	0.001 U	-	-	-	-
Xylene (total)	mg/L	-	-	0.002 U	-	-	-	-
Metals								
Barium	mg/L	-	0.090 J	0.057 J	-	-	0.092 J	0.095 J
Barium (Dissolved)	mg/L	-	0.086 J	0.055 J	-	-	0.089 J	0.090 J
Calcium	mg/L	-	92.1	92.4	-	-	-	98.6
Calcium (Dissolved)	mg/L	-	88.1	92.8	-	-	-	95.5
Chromium Total	mg/L	-	0.0053 J	0.010 U	-	-	-	0.010 U
Chromium Total (Dissolved)	mg/L	-	0.010 U	0.010 U	-	-	-	0.010 U
Copper	mg/L	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-08R</i>	<i>P-08R</i>	<i>P-08R</i>	<i>P-08R</i>	<i>P-08R</i>	<i>P-08R</i>	<i>P-08R</i>
<i>Sample Name:</i>		<i>W-12616-38-110503-DEN-07C</i>	<i>W-12616-38-111803-DEN-12</i>	<i>W-12616-38-121503-DEN-02</i>	<i>W-12616-38-121703-ACL-022</i>	<i>W-12616-011404-DEN-01C</i>	<i>W-12616-011404-DEN-01S</i>	<i>W-12616-022504-DEN-01</i>
<i>Sample Date:</i>		<i>11/5/2003</i>	<i>11/18/2003</i>	<i>12/15/2003</i>	<i>12/17/2003</i>	<i>1/14/2004</i>	<i>1/14/2004</i>	<i>2/25/2004</i>
<i>Parameters:</i>	<i>Units</i>							
Iron	mg/L	-	0.12	0.12	-	-	-	0.48
Iron (Dissolved)	mg/L	-	0.087 J	0.10 U	-	-	-	0.11
Magnesium	mg/L	-	19.0	49.3	-	-	-	20.7
Magnesium (Dissolved)	mg/L	-	18.2	49.2	-	-	-	20.1
Manganese	mg/L	-	0.041	0.030	-	-	-	0.043
Manganese (Dissolved)	mg/L	-	0.037	0.016	-	-	-	0.040
Nickel	mg/L	-	0.0040 J	0.0045 J	-	-	0.0047 J	0.0048 J
Nickel (Dissolved)	mg/L	-	0.0034 J	0.0037 J	-	-	0.0043 J	0.0035 J
Potassium	mg/L	-	4.4 J	18.1	-	-	-	4.3 J
Potassium (Dissolved)	mg/L	-	4.3 J	18.1 J	-	-	-	4.1 J
Sodium	mg/L	-	192	11.8	-	-	-	214
Sodium (Dissolved)	mg/L	191	188	12.0	-	196	-	207
<i>General Chemistry</i>								
Chloride	mg/L	202	201	7.0	-	194	-	190
Cyanide (total)	mg/L	-	0.007 J	-	0.010 U	-	-	0.010 U
Sulfate	mg/L	-	51.3	167	-	-	-	31.5
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-
<i>Field Parameters</i>								
Conductivity	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	1.45	1.22	0.083	-	-	-	-
pH Field	S.U.	7.55	7.54	6.55	-	-	-	-
Temperature, Field	Deg C	14.86	14.43	8.04	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-08R	P-08R	P-08R	P-08R	P-08R	P-08R	P-08R
Sample Name:		W-12616-042204-DEN-01	W-12616-081704-DEN-02	WG-12616-101804-DEN-01	WG-12616-021505-DEN-01	WG-12616-021505-DEN-02	WG-12616-033105-DEN-07	WG-12616-080305-DEN-01
Sample Date:		4/22/2004	8/17/2004	10/18/2004	2/15/2005	2/15/2005 Duplicate	3/31/2005	8/3/2005
Parameters:	Units							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-
Metals								
Barium	mg/L	-	0.080 J	-	0.086 J	0.084 J	-	0.088 J
Barium (Dissolved)	mg/L	0.041 J	0.082 J	0.085 J	0.090 J	0.087 J	0.086 J	0.086 J
Calcium	mg/L	-	94.7	-	90.0	85.2	-	95.6
Calcium (Dissolved)	mg/L	-	98.0	-	93.3	90.6	-	94.7
Chromium Total	mg/L	-	0.010 U	-	0.010 U	0.010 U	-	0.010 U
Chromium Total (Dissolved)	mg/L	-	0.010 U	-	0.010 U	0.010 U	-	0.010 U
Copper	mg/L	-	0.025 U	-	-	-	-	0.025 U
Copper (Dissolved)	mg/L	-	0.025 U	-	-	-	-	0.025 U

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-08R</i>	<i>P-08R</i>	<i>P-08R</i>	<i>P-08R</i>	<i>P-08R</i>	<i>P-08R</i>	<i>P-08R</i>
<i>Sample Name:</i>		<i>W-12616-042204-DEN-01</i>	<i>W-12616-081704-DEN-02</i>	<i>WG-12616-101804-DEN-01</i>	<i>WG-12616-021505-DEN-01</i>	<i>WG-12616-021505-DEN-02</i>	<i>WG-12616-033105-DEN-07</i>	<i>WG-12616-080305-DEN-01</i>
<i>Sample Date:</i>		<i>4/22/2004</i>	<i>8/17/2004</i>	<i>10/18/2004</i>	<i>2/15/2005</i>	<i>2/15/2005</i>	<i>3/31/2005</i>	<i>8/3/2005</i>
<i>Parameters:</i>						<i>Duplicate</i>		
<i>Units</i>								
Iron	mg/L	-	0.15	-	0.13	0.13	-	0.13
Iron (Dissolved)	mg/L	-	0.12	-	0.091 J	0.098 J	-	0.093 J
Magnesium	mg/L	-	19.2	-	19.3	18.3	-	19.8
Magnesium (Dissolved)	mg/L	-	18.3	-	19.9	19.1	-	19.5
Manganese	mg/L	-	0.037	-	0.036	0.035	-	0.039
Manganese (Dissolved)	mg/L	-	0.038	-	0.038	0.037	-	0.038
Nickel	mg/L	-	0.0046 J	-	0.0037 J	0.0070 J	-	0.0058 J
Nickel (Dissolved)	mg/L	-	0.0060 J	-	0.0073 J	0.0067 J	-	0.0061 J
Potassium	mg/L	-	3.8 J	-	4.0 J	4.1 J	-	4.4 J
Potassium (Dissolved)	mg/L	-	3.8 J	-	4.3 J	4.2 J	-	4.2 J
Sodium	mg/L	-	193	-	200 J	197 J	-	201
Sodium (Dissolved)	mg/L	28.7	187	197	207	202	204	198
<i>General Chemistry</i>								
Chloride	mg/L	197	187	178	179	180	188	184
Cyanide (total)	mg/L	-	0.010 U	-	0.010 U	0.010 U	-	0.010 U
Sulfate	mg/L	-	24.6	-	33.1	34.0	-	28.6
Total Dissolved Solids (TDS)	mg/L	-	810	-	-	-	-	800
Total Suspended Solids (TSS)	mg/L	-	4.0 UJ	-	-	-	-	4.0 U
<i>Field Parameters</i>								
Conductivity	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	-	-	-	-	-	-	-
pH Field	S.U.	-	-	-	-	-	-	-
Temperature, Field	Deg C	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>	<i>P-08R</i>	<i>P-08R</i>	<i>P-08R</i>	<i>P-08R</i>	<i>P-08R</i>
<i>Sample Name:</i>	WG-12616-100305-DN-01	WG-12616-021706-DN-12	WG-12616-040406-DN-01	WG-12616-081506-DN-02	WG-12616-101206-DN-05
<i>Sample Date:</i>	10/3/2005	2/17/2006	4/4/2006	8/15/2006	10/12/2006

Parameters: *Units*

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-
2-Hexanone	mg/L	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-
Acetone	mg/L	-	-	-	-
Acetonitrile	mg/L	-	-	-	-
Acrolein	mg/L	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-
Allyl chloride	mg/L	-	-	-	-
Benzene	mg/L	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-
Bromoform	mg/L	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-
Chloroethane	mg/L	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-
Chloroprene	mg/L	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-
Dibromomethane	mg/L	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-
Iodomethane	mg/L	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-
Methylene chloride	mg/L	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-
Styrene	mg/L	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-
Toluene	mg/L	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-
Trichloroethene	mg/L	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-
Xylene (total)	mg/L	-	-	-	-

Metals

Barium	mg/L	-	0.089 J	-	0.092 J	-
Barium (Dissolved)	mg/L	0.089 J	0.090 J	0.082 J	0.097 J	0.084 J
Calcium	mg/L	-	91.4	-	99.0	-
Calcium (Dissolved)	mg/L	-	93.7	-	105	-
Chromium Total	mg/L	-	0.010 U	-	0.010 U	-
Chromium Total (Dissolved)	mg/L	-	0.010 U	-	0.010 U	-
Copper	mg/L	-	-	-	0.025 U	-
Copper (Dissolved)	mg/L	-	-	-	0.0027 J	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location:		P-08R	P-08R	P-08R	P-08R	P-08R
Sample Name:		WG-12616-100305-DN-01	WG-12616-021706-DN-12	WG-12616-040406-DN-01	WG-12616-081506-DN-02	WG-12616-101206-DN-05
Sample Date:		10/3/2005	2/17/2006	4/4/2006	8/15/2006	10/12/2006
Parameters:	Units					
Iron	mg/L	-	0.066 J	-	0.14	-
Iron (Dissolved)	mg/L	-	0.069 J	-	0.13	-
Magnesium	mg/L	-	19.4	-	21.2	-
Magnesium (Dissolved)	mg/L	-	20.0	-	22.5	-
Manganese	mg/L	-	0.041	-	0.042	-
Manganese (Dissolved)	mg/L	-	0.040	-	0.044	-
Nickel	mg/L	-	0.0073 J	-	0.010 J	-
Nickel (Dissolved)	mg/L	-	0.0078 J	-	0.011 J	-
Potassium	mg/L	-	4.1 J	-	4.2 J	-
Potassium (Dissolved)	mg/L	-	4.2 J	-	4.5 J	-
Sodium	mg/L	-	194	-	203	-
Sodium (Dissolved)	mg/L	201	199	198	215	169
General Chemistry						
Chloride	mg/L	12.6	177	190	164	170
Cyanide (total)	mg/L	-	0.010 U	-	0.010 U	-
Sulfate	mg/L	-	39.4	-	35.7	-
Total Dissolved Solids (TDS)	mg/L	-	-	-	770	-
Total Suspended Solids (TSS)	mg/L	-	-	-	2.0 J	-
Field Parameters						
Conductivity	mmhos/cm	-	-	-	-	-
Conductivity Field	mmhos/cm	-	-	-	-	-
pH Field	S.U.	-	-	-	-	-
Temperature, Field	Deg C	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T
Sample Name:	P-08T	8906G827-012	8908G550-008	8911G190-012	8	23	31	64	68	83	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T-DUP	P-08T
Sample Date:	1/20/1989	5/31/1989	8/30/1989	11/21/1989	2/21/1990	7/27/1990	8/14/1990	2/21/1991	5/30/1991	8/8/1991	5/20/1992	8/13/1992	11/24/1992	3/15/1993	7/21/1993	10/7/1993	10/7/1993	Duplicate
Parameters:	Units																	
Volatile Organic Compounds																		
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals																		
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	0.1 U	0.653	0.1 U	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 K	-	-	-
Arsenic (Dissolved)	mg/L	0.05 U	0.004 U	0.0024	-	-	-	-	-	-	0.1 U	0.1 U	0.1 U	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	0.34	0.05 U	0.05 U	-	-	-	-	-	-	0.024	0.051	0.04	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	0.01 U	0.004 U	0.004 U	-	-	-	-	-	-	0.005 U	0.005 U	0.005 U	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	888	619	265	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T
Sample Name:	P-08T	8906G827-012	8908G550-008	8911G190-012	8	23	31	64	68	83	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T-DUP
Sample Date:	1/20/1989	5/31/1989	8/30/1989	11/21/1989	2/21/1990	7/27/1990	8/14/1990	2/21/1991	5/30/1991	8/8/1991	5/20/1992	8/13/1992	11/24/1992	3/15/1993	7/21/1993	10/7/1993	10/7/1993	Duplicate
Parameters:	Units																	
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	-	-	0.01 U	-	-	0.041	-	-	-	-	-	-	0.01 K	-	-
Chromium Total (Dissolved)	mg/L	0.13	0.02 U	0.02 U	-	-	-	-	-	-	0.01 U	0.01 U	0.01 U	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	0.01 U	0.02 U	0.02 U	0.02 U	0.036	-	-	0.01 U	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 K	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	0.01 U	0.01 U	0.01 U	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.119	-	-
Iron (Dissolved)	mg/L	49	0.03 U	0.03 U	-	1.17	-	-	8.08	-	0.1 U	0.766	0.766	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.003 K	-	-
Lead (Dissolved)	mg/L	0.035	0.002 U	0.002 U	-	-	-	-	-	-	0.025 U	0.01 U	0.01 U	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	99.1	88.1	88.1	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-
Manganese (Dissolved)	mg/L	1.4	0.16	0.21	-	0.176	-	-	0.535	-	0.01 U	0.26	0.26	-	-	-	-	-
Mercury (Dissolved)	mg/L	0.0002 U	0.0005 U	0.0002 U	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.025	0.029	0.043	0.037	-
Nickel (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	0.047	0.04	0.04	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95.7	-	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	189	172	149	-	-	-	-	-
Selenium (Dissolved)	mg/L	0.01 U	0.002 U	0.01 U	-	-	-	-	-	-	0.005 U	0.005 U	0.005 U	-	-	-	-	-
Silver (Dissolved)	mg/L	0.02 U	0.03 U	0.03 U	-	-	-	-	-	-	0.01 U	0.01 U	0.01 U	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30.9	-	-
Sodium (Dissolved)	mg/L	170	90.1	42.3	-	64.8	-	-	63	-	50.9	55.9	47.2	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	0.02 U	0.095	0.02 U	-	-	-	-	-
General Chemistry																		
Chloride	mg/L	6.8	150	59.8	177	129	-	-	93.9	-	-	71.7	72.5	57	55	52.5	58.8	58.6
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	0.25	0.17	0.11	0.14	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	0.8	0.7	0.05 U	0.9	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	0.01 U	0.005 U	0.01 U	0.01 U	0.04 U	-	-	0.5 U	-	-	0.067 U	0.067 U	0.067 U	-	0.067 K	-	-
Sulfate	mg/L	400	688	250	1200	981	-	-	775	-	-	908	859	784	491	547	583	575
Temperature, Field	deg F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (TD5)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	16	2.9	1.6	4.1	2.85	4.53	5.67	U	4	3.12	14.3	5.36	4.7	-	4.38	-	-
Total Organic Carbon (3)	mg/L	14	3	1.7	4	3.2	4.53	5.76	U	3.6	2.78	13.8	5.48	4.71	-	4.37	-	-
Total Organic Carbon (4)	mg/L	13	3.1	1.7	4.1	3.14	4.94	5.82	U	4	2.47	13.7	5.38	4.7	-	4.13	-	-
Total Organic Carbon (TOC)	mg/L	14	3	1.4	4	3.16	4.49	5.57	U	3.2	4.05	14.7	5.4	4.67	-	4.35	-	-
Total Organic Halides (2)	mg/L	0.03 U	0.005	0.01 U	0.015	0.0062	0.033	0.026	0.01 U	-	0.03 U	0.02	0.04	0.01 U	-	0.03	-	-
Total Organic Halides (3)	mg/L	0.03 U	0.007	0.01 U	0.024	0.0087 J	0.034	0.029	0.01 U	-	0.03 U	0.03	0.04	0.01 U	-	0.07	-	-
Total Organic Halides (4)	mg/L	0.03 U	0.009	0.01 U	0.014	U	0.088	0.029	0.01 U	-	0.03 U	0.03	0.09	0.01 U	-	0.01 K	-	-
Total Organic Halides (TOX)	mg/L	0.03 U	0.008	0.01 U	0.014	0.0057 J	0.029	0.022	0.01 U	-	0.03 U	0.03	0.02	0.01	-	0.03	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																		
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	2.6	1.77	1.19	2.78	2.21	2.3	2.18	1.31	-	1.18	1.445	2.37	2.380	-	2.05	1.45	1.363
Conductivity Field (2)	mmhos/cm	2.6	1.77	1.19	2.77	2.21	2.3	2.19	1.30	-	1.18	1.50	2.39	2.37	-	2.04	1.45	-
Conductivity Field (3)	mmhos/cm	2.6	1.78	1.19	2.78	2.21	2.3	2.19	1.31	-	1.19	1.390	2.39	2.39	-	2.05	1.45	-
Conductivity Field (4)	mmhos/cm	2.6	1.78	1.19	2.77	2.2	2.0	2.2	1.31	-	1.19	1.458	2.40	2.4	-	2.01	1.45	-
pH Field	S.U.	7.2	6.90	6.91	6.76	6.24	6.75	6.91	7.11	-	8.16	6.84	6.97	7.44	-	6.93	6.95	7.2
pH Field (2)	S.U.	7.2	6.93	6.92	6.76	6.36	6.76	6.89	7.12	-	8.11	6.89	6.87	7.38	-	6.65	6.94	-
pH Field (3)	S.U.	7.2	6.94	6.94	6.75	6.42	6.76	6.85	7.10	-	8.09	6.87	6.83	7.34	-	6.64	6.95	-
pH Field (4)	S.U.	7.2	6.97	6.94	6.75	6.48	6.75	6.91	7.11	-	8.08	6.92	6.80	7.30	-	6.63	6.95	-
Temperature, Field	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T
Sample Name:	P-08T	P-08T	E90441	E90438	E98154	E98156	E107738	E107739	E113026	E113027	E121672	E121675	E128387	E134493	E141427	E141428	E146580	E152693	
Sample Date:	12/20/1993	3/29/1994	6/20/1994	6/21/1994	9/22/1994	9/22/1994	12/28/1994	12/28/1994	3/20/1995	3/20/1995	6/27/1995	6/27/1995	9/27/1995	12/14/1995	4/5/1996	4/5/1996	6/11/1996	8/27/1996	
Parameters:	Units																		
Volatile Organic Compounds																			
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-	-							

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T
Sample Name:	P-08T	P-08T	E90441	E90438	E98154	E98156	E107738	E107739	E113026	E113027	E121672	E121675	E128387	E134493	E141427	E141428	E146580	E152693
Sample Date:	12/20/1993	3/29/1994	6/20/1994	6/21/1994	9/22/1994	9/22/1994	12/28/1994	12/28/1994	3/20/1995	3/20/1995	6/27/1995	6/27/1995	9/27/1995	12/14/1995	4/5/1996	4/5/1996	6/11/1996	8/27/1996
Parameters:	Units				Duplicate			Duplicate		Duplicate		Duplicate				Duplicate		
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	0.072	0.059	-	-	-	-	-	0.027	0.016	-	-	-	-	0.01 U	-
Iron (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	0.003 K	-	0.0011	0.001 U	-	0.001 U	0.001 U	-	-	0.001 U	0.001 U	-	0.001 U	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	0.13	0.03	-	-	-	-	-	0.18	0.17	-	-	-	-	0.1	-
Manganese (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	0.033	-	0.01 U	0.01 U	0.042	0.044	0.02	0.018	0.01	0.012	0.043	0.04	0.04	0.01 U	0.023	0.024	0.038
Nickel (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	84.2	-	61	82	-	-	85	83	-	-	55	53	-	63	-	-	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	30	33	-	-	-	-	-	-	30	29	-	-	-	19	-
Sodium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																		
Chloride	mg/L	53.6	-	63	48	58	61	45	45	29	29	49	49	69	27	36	37	24
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	-	0.009	0.01	-	-	-	-	-	0.01 U	0.01 U	-	-	-	-	0.01	-
Sulfate	mg/L	738	-	328	548	397	364	613	590 F	368	364	276	335	251	351	277	270	266
Temperature, Field	deg F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (TD5)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	3.81	-	3.2	4.5	-	-	5	4.8	-	-	3.4	3.4	-	3.9	-	3.3	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	0.01 K	-	0.01 U	0.01 U	-	-	0.012	0.012	-	-	0.01 U	0.01 U	-	0.013	-	0.01 U	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																		
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	1.95	2.53	1.3	1.3	1.2	1.1	1.1	1.1	1	1	-	1.15	0.99	0.907	0.893	-	0.905
Conductivity Field (2)	mmhos/cm	2.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	1.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	1.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	S.U.	6.84	7.39	5.72	5.72	6.44	6.67	7.55	7.55	7.47	7.47	-	6.35	6.99	6.42	7.28	-	6.75
pH Field (2)	S.U.	6.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (3)	S.U.	6.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (4)	S.U.	6.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field	Deg C	-	-	17	17	17	16	9.4	9.4	12.4	12.4	-	-	17.1	9.7	-	-	13.3

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>
<i>Sample Name:</i>		<i>E160168</i>	<i>E160169</i>	<i>E165457</i>	<i>E171015</i>	<i>E176113</i>	<i>E183289</i>	<i>E189235</i>	<i>E196373</i>	<i>E205397</i>	<i>E205398</i>	<i>E210906</i>	<i>E216000</i>	<i>E222109</i>	<i>E228253</i>	<i>P-08T</i>	<i>P-08T</i>
<i>Sample Date:</i>		<i>11/25/1996</i>	<i>11/25/1996</i>	<i>2/26/1997</i>	<i>5/27/1997</i>	<i>8/19/1997</i>	<i>11/24/1997</i>	<i>2/25/1998</i>	<i>5/13/1998</i>	<i>8/20/1998</i>	<i>8/20/1998</i>	<i>11/9/1998</i>	<i>2/3/1999</i>	<i>5/6/1999</i>	<i>8/4/1999</i>	<i>11/15/1999</i>	<i>2/3/2000</i>
<i>Parameters:</i>	<i>Units</i>		<i>Duplicate</i>								<i>Duplicate</i>						
<i>Volatile Organic Compounds</i>																	
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Metals</i>																	
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T
Sample Name:	E160168	E160169	E165457	E171015	E176113	E183289	E189235	E196373	E205397	E205398	E210906	E216000	E222109	E228253	P-08T	P-08T	P-08T	P-08T
Sample Date:	11/25/1996	11/25/1996	2/26/1997	5/27/1997	8/19/1997	11/24/1997	2/25/1998	5/13/1998	8/20/1998	8/20/1998	11/9/1998	2/3/1999	5/6/1999	8/4/1999	11/15/1999	2/3/2000	5/3/2000	
Parameters:	Units																	
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05 U
Chromium Total (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05 U
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	0.41	-	-	0.018	-	-	-	-	0.01	-	-	-	-	0.05 U
Iron (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1 U
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	0.1	-	-	0.11	-	-	-	-	0.053	-	-	-	-	0.039
Manganese (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.039
Mercury (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	0.012	0.012	0.026	0.012	0.016	0.01 U	0.01 U	0.013 DI	0.01 U	0.038	0.01 U	0.01 U	0.012	0.01	0.01 U	0.01 U	0.01 U
Nickel (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	27	-	-	-	-	30
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28
Selenium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	15	-	-	19	-	-	-	-	17	-	-	-	-	17
Sodium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																		
Chloride	mg/L	21	22	22	17	24	32	29	28	52	52	57	33	30	37	27	20	19
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	-	-	0.01 U	-	-	0.01 U	-	-	-	-	0.01 U	-	-	-	-	0.01 U
Sulfate	mg/L	240	244	196	160	207	206	203	184	150	154	201	181	182	180	187	210	150
Temperature, Field	deg F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	3.4	3.3	-	3	-	4.6	2.6	-	-	2.6	-	2.7	-	3.7	-	3.2	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	0.01 U	0.01 U	-	0.01 U	-	0.01 U SI	0.01 U SI	-	-	0.01 U	-	0.01 U MA	-	0.01 U	-	0.01 U	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																		
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	0.784	-	0.702	0.635	0.675	1.204	0.897	0.869	0.875	-	1.191	0.798	0.757	0.845	0.785	0.797	0.638
Conductivity Field (2)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	S.U.	6.57	-	6.8	6.89	6.45	6.38	6.9	6.9	6.36	-	6.59	6.32	6.32	6.51	6.45	6.65	6.62
pH Field (2)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (3)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (4)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field	Deg C	9.4	-	6.6	11	16.7	9.9	7.9	13	19.1	-	12	9.1	16.9	19.3	10.0	7.7	13.8

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T
Sample Name:		P-08TD-DUP	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T
Sample Date:		5/3/2000	8/31/2000	11/2/2000	2/15/2001	5/1/2001	8/14/2001	11/6/2001	2/5/2002	GW-12616-08	GW-12616-082702-DCR-002	GW-12616-082702-DCR-003	W-12616-112502-DEN-01
		Duplicate								6/26/2002	8/27/2002	8/27/2002	11/25/2002
Parameters:	Units											Duplicate	
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Metals													
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	0.053 J	0.052 J	0.053 J	0.070 J
Barium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	0.050 J	0.052 J	0.054 J	0.069 J
Cadmium	mg/L	0.01 U	-	-	-	-	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	0.01 U	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	117	107 J	108 J	106

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T
Sample Name:		P-08TD-DUP	P-08T	P-08T	271749	277761	285477	292314	298105	GW-12616-08	GW-12616-082702-DCR-002	GW-12616-082702-DCR-003	W-12616-112502-DEN-01
Sample Date:		5/3/2000	8/31/2000	11/2/2000	2/15/2001	5/1/2001	8/14/2001	11/6/2001	2/5/2002	6/26/2002	8/27/2002	8/27/2002	11/25/2002
		Duplicate										Duplicate	
Parameters:	Units												
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	112	109	115	109
Chromium Total	mg/L	0.05 U	-	-	-	-	-	-	-	0.010 U	0.010 U	0.010 U	0.010 U
Chromium Total (Dissolved)	mg/L	0.05 U	-	-	-	-	-	-	-	0.010 U	0.010 U	0.010 U	0.010 U
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	0.05 U	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	0.01 U	-	-	-	2.67	-	-	-	0.10 U	0.10 U	0.10 U	0.094 J
Iron (Dissolved)	mg/L	0.1 U	-	-	-	-	-	-	-	0.10 U	0.10 U	0.10 U	0.10 U
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	47.1	43.0	43.4	60.2
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	44.8	42.8	44.0	60.0
Manganese	mg/L	0.04	-	-	-	0.13	-	-	-	0.065	0.011 J	0.015	0.029
Manganese (Dissolved)	mg/L	0.042	-	-	-	-	-	-	-	0.062	0.017	0.023	0.015 U
Mercury (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	0.01 U	0.01 U	0.02 J	0.01 U	0.01 U	0.052	0.01 U	0.01 U	0.049	0.025 J	0.024 J	0.0080 J
Nickel (Dissolved)	mg/L	0.01 U	-	-	-	-	-	-	-	0.046	0.027 J	0.029 J	0.0079 J
Potassium	mg/L	30	-	-	-	22	-	-	-	18.0	19.8	19.9	24.8
Potassium (Dissolved)	mg/L	29	-	-	-	-	-	-	-	17.0	19.7	19.7	24.5
Selenium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	17	-	-	-	18	-	-	-	45.8	57.5	58.4	15.3
Sodium (Dissolved)	mg/L	17	-	-	-	-	-	-	-	43.5	61.1	70.0	15.9
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry													
Chloride	mg/L	19	23	22	25	29	53	24	14	63.0	56.8	63.2	12.5
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	0.010 U	0.010 U	0.010 U	0.010 U
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	7.430	-	-	-	-
Phenolics (Total)	mg/L	0.01 U	-	-	-	0.01 U	-	-	-	-	-	-	-
Sulfate	mg/L	150	143	144	164	142	258	292	171	224	174	173	230
Temperature, Field	deg F	-	-	-	-	-	-	-	8.3	-	-	-	-
Total Dissolved Solids (TD5)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	3.1	-	4.1	-	3.4	-	4	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	0.01 U	-	0.01 U	-	0.01 U	-	0.01 U	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters													
Conductivity	mmhos/cm	-	-	-	-	-	-	-	0.760	1.21	1.087	-	0.949
Conductivity Field	mmhos/cm	-	0.892	0.880	-	-	-	-	-	-	-	-	-
Conductivity Field (2)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	S.U.	-	6.48	6.47	-	-	-	-	-	6.96	6.6	-	6.77
pH Field (2)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (3)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (4)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field	Deg C	-	19.6	15.7	-	-	-	-	-	15.2	18.09	-	11.09

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>
<i>Sample Name:</i>		W-12616-022603-DEN-01	W-12616-052703-DEN-02E	W-12616-052803-DEN-02	W-12616-38-082603-DEN-02	W-12616-38-110503-DEN-08C	W-12616-38-111803-DEN-13	W-12616-38-121503-DEN-01
<i>Sample Date:</i>		2/26/2003	5/27/2003	5/28/2003	8/26/2003	11/5/2003	11/18/2003	12/15/2003
<i>Parameters:</i>	<i>Units</i>							
<i>Volatile Organic Compounds</i>								
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	0.001 U
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	0.001 U
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	0.001 U
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	0.001 U
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	0.001 U
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	0.002 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	0.001 U
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	0.001 U
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	0.001 U
1,4-Dioxane	mg/L	-	-	-	-	-	-	0.2 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	0.01 U
2-Hexanone	mg/L	-	-	-	-	-	-	0.01 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	0.01 U
Acetone	mg/L	-	-	-	-	-	-	0.01 U
Acetonitrile	mg/L	-	-	-	-	-	-	0.02 U
Acrolein	mg/L	-	-	-	-	-	-	0.02 U
Acrylonitrile	mg/L	-	-	-	-	-	-	0.02 U
Allyl chloride	mg/L	-	-	-	-	-	-	0.002 U
Benzene	mg/L	-	-	-	-	-	-	0.001 U
Bromodichloromethane	mg/L	-	-	-	-	-	-	0.001 U
Bromoform	mg/L	-	-	-	-	-	-	0.001 U
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	0.001 U
Carbon disulfide	mg/L	-	-	-	-	-	-	0.001 U
Carbon tetrachloride	mg/L	-	-	-	-	-	-	0.001 U
Chlorobenzene	mg/L	-	-	-	-	-	-	0.001 U
Chloroethane	mg/L	-	-	-	-	-	-	0.001 U
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	0.001 U
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	0.001 U
Chloroprene	mg/L	-	-	-	-	-	-	0.002 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	0.001 U
Dibromochloromethane	mg/L	-	-	-	-	-	-	0.001 U
Dibromomethane	mg/L	-	-	-	-	-	-	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	0.001 U
Ethyl methacrylate	mg/L	-	-	-	-	-	-	0.001 U
Ethylbenzene	mg/L	-	-	-	-	-	-	0.001 U
Iodomethane	mg/L	-	-	-	-	-	-	0.001 U
Isobutyl alcohol	mg/L	-	-	-	-	-	-	0.05 U
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	0.002 U
Methyl methacrylate	mg/L	-	-	-	-	-	-	0.002 U
Methylene chloride	mg/L	-	-	-	-	-	-	0.001 U
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	0.004 U
Styrene	mg/L	-	-	-	-	-	-	0.001 U
Tetrachloroethene	mg/L	-	-	-	-	-	-	0.001 U
Toluene	mg/L	-	-	-	-	-	-	0.001 U
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	0.001 U
Trichloroethene	mg/L	-	-	-	-	-	-	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	0.001 U
Vinyl acetate	mg/L	-	-	-	-	-	-	0.002 U
Vinyl chloride	mg/L	-	-	-	-	-	-	0.001 U
Xylene (total)	mg/L	-	-	-	-	-	-	0.002 U
<i>Metals</i>								
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-	-
Barium	mg/L	0.046 J	-	0.049 J	0.050 J	-	0.057 J	0.097 J
Barium (Dissolved)	mg/L	0.041 J	-	0.049 J	0.051 J	-	0.056 J	0.094 J
Cadmium	mg/L	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-
Calcium	mg/L	89.1	-	83.5	111	-	91.8	91.9

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>
<i>Sample Name:</i>		<i>W-12616-022603-DEN-01</i>	<i>W-12616-052703-DEN-02E</i>	<i>W-12616-052803-DEN-02</i>	<i>W-12616-38-082603-DEN-02</i>	<i>W-12616-38-110503-DEN-08C</i>	<i>W-12616-38-111803-DEN-13</i>	<i>W-12616-38-121503-DEN-01</i>
<i>Sample Date:</i>		<i>2/26/2003</i>	<i>5/27/2003</i>	<i>5/28/2003</i>	<i>8/26/2003</i>	<i>11/5/2003</i>	<i>11/18/2003</i>	<i>12/15/2003</i>
<i>Parameters:</i>	<i>Units</i>							
Calcium (Dissolved)	mg/L	79.7	-	85.6	112	-	94.2	88.7
Chromium Total	mg/L	0.010 U	-	0.010 U	0.010 U	-	0.0034 J	0.010 U
Chromium Total (Dissolved)	mg/L	0.010 U	-	0.010 U	0.010 U	-	0.010 U	0.010 U
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-
Iron	mg/L	0.10 U	-	0.097 J	0.093 J	-	0.071 J	0.11
Iron (Dissolved)	mg/L	0.10 U	-	0.091 J	0.069 J	-	0.10 U	0.091 J
Lead	mg/L	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-
Magnesium	mg/L	46.8	-	45.2	45.3	-	48.3	19.7
Magnesium (Dissolved)	mg/L	41.5	-	45.5	46.5	51.4	49.0	19.1
Manganese	mg/L	0.0045 J	-	0.14	0.083 J	-	0.030	0.040
Manganese (Dissolved)	mg/L	0.0011 J	-	0.12	0.085	-	0.019	0.039
Mercury (Dissolved)	mg/L	-	-	-	-	-	-	-
Nickel	mg/L	0.0037 J	-	0.0048 J	0.030 J	-	0.0046 J	0.0030 J
Nickel (Dissolved)	mg/L	0.040 U	-	0.0046 J	0.030 J	-	0.0031 J	0.0040 J
Potassium	mg/L	18.0	-	18.8	18.0	-	21.0	4.4 J
Potassium (Dissolved)	mg/L	15.9	18.8	19.0	18.4	21.5	21.5	4.2 J
Selenium (Dissolved)	mg/L	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-
Sodium	mg/L	12.4	-	11.6	72.7	-	11.1	212
Sodium (Dissolved)	mg/L	11.1	-	11.9	70.8	12.2	11.6	202
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-
<i>General Chemistry</i>								
Chloride	mg/L	12.8	-	9.0	84.1	8.9	8.6	189
Cyanide (total)	mg/L	0.010 U	-	0.010 U	0.010 U	-	0.010 U	-
Fluoride	mg/L	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	-	-	-	-	-	-
Sulfate	mg/L	191	-	158	178	-	176	48.2
Temperature, Field	deg F	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-
<i>Field Parameters</i>								
Conductivity	mmhos/cm	0.802	0.750	0.841	-	-	-	-
Conductivity Field	mmhos/cm	-	-	-	1.56	0.867	0.833	1.53
Conductivity Field (2)	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-	-	-	-	-
pH Field	S.U.	6.71	6.42	6.50	7.18	6.61	6.57	7.14
pH Field (2)	S.U.	-	-	-	-	-	-	-
pH Field (3)	S.U.	-	-	-	-	-	-	-
pH Field (4)	S.U.	-	-	-	-	-	-	-
Temperature, Field	Deg C	4.59	16.36	15.76	17.24	15.59	14.12	8.04

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T
<i>Sample Name:</i>		W-12616-38-121703-ACL-021	W-12616-011404-DEN-02C	W-12616-011404-DEN-02S	W-12616-022504-DEN-02	W-12616-042204-DEN-02	W-12616-081704-DEN-01	WG-12616-101804-DEN-02
<i>Sample Date:</i>		12/17/2003	1/14/2004	1/14/2004	2/25/2004	4/22/2004	8/17/2004	10/18/2004
<i>Parameters:</i>	<i>Units</i>							
<i>Volatile Organic Compounds</i>								
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	0.045 J	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-
<i>Metals</i>								
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-	-
Barium	mg/L	-	-	0.045 J	0.043 J	-	0.049 J	-
Barium (Dissolved)	mg/L	-	-	0.045 J	0.043 J	-	0.047 J	-
Cadmium	mg/L	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	82.7	-	101	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		P-08T	P-08T	P-08T	P-08T	P-08T	P-08T	P-08T
<i>Sample Name:</i>		W-12616-38-121703-ACL-021	W-12616-011404-DEN-02C	W-12616-011404-DEN-02S	W-12616-022504-DEN-02	W-12616-042204-DEN-02	W-12616-081704-DEN-01	WG-12616-101804-DEN-02
<i>Sample Date:</i>		12/17/2003	1/14/2004	1/14/2004	2/25/2004	4/22/2004	8/17/2004	10/18/2004
<i>Parameters:</i>	<i>Units</i>							
Calcium (Dissolved)	mg/L	-	-	-	85.0	-	97.3	-
Chromium Total	mg/L	-	-	-	0.010 U	-	0.010 U	-
Chromium Total (Dissolved)	mg/L	-	-	-	0.010 U	-	0.010 U	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	0.0035 J	-
Copper (Dissolved)	mg/L	-	-	-	-	-	0.025 U	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	0.10 U	-	0.32	-
Iron (Dissolved)	mg/L	-	-	-	0.10 U	-	0.25	-
Lead	mg/L	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	43.4	-	45.9	-
Magnesium (Dissolved)	mg/L	-	45.6	-	44.0	20.2	42.8	49.6
Manganese	mg/L	-	-	-	0.0077 J	-	0.13	-
Manganese (Dissolved)	mg/L	-	-	-	0.0042 J	-	0.13	-
Mercury (Dissolved)	mg/L	-	-	-	-	-	-	-
Nickel	mg/L	-	-	0.0050 J	0.0041 J	-	0.0079 J	-
Nickel (Dissolved)	mg/L	-	-	0.0048 J	0.0034 J	-	0.0086 J	-
Potassium	mg/L	-	-	-	15.9	-	18.0	-
Potassium (Dissolved)	mg/L	-	15.8	-	16.0	-	17.5	-
Selenium (Dissolved)	mg/L	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	10.3	-	14.4	-
Sodium (Dissolved)	mg/L	-	-	-	10.6	-	14.4	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-
<i>General Chemistry</i>								
Chloride	mg/L	-	-	-	20.4	-	10.7	-
Cyanide (total)	mg/L	0.010 U	-	-	0.010 U	-	0.010 U	-
Fluoride	mg/L	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	-	-	-	-	-	-
Sulfate	mg/L	-	-	-	146	-	147	-
Temperature, Field	deg F	-	-	-	-	-	-	-
Total Dissolved Solids (TD5)	mg/L	-	-	-	-	-	520	-
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	4.0 UJ	-
<i>Field Parameters</i>								
Conductivity	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field (2)	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-	-	-	-	-
pH Field	S.U.	-	-	-	-	-	-	-
pH Field (2)	S.U.	-	-	-	-	-	-	-
pH Field (3)	S.U.	-	-	-	-	-	-	-
pH Field (4)	S.U.	-	-	-	-	-	-	-
Temperature, Field	Deg C	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>
<i>Sample Name:</i>		WG-12616-021505-DEN-03	WG-12616-080305-DEN-02	WG-12616-100305-DN-02	WG-12616-021706-DN-13	WG-12616-081506-DN-01	WG-12616-101206-DN-06
<i>Sample Date:</i>		2/15/2005	8/3/2005	10/3/2005	2/17/2006	8/15/2006	10/12/2006
<i>Parameters:</i>	<i>Units</i>						
<i>Volatile Organic Compounds</i>							
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-
<i>Metals</i>							
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-
Barium	mg/L	0.035 J	0.057 J	-	0.039 J	0.056 J	-
Barium (Dissolved)	mg/L	0.035 J	0.054 J	-	0.043 J	0.056 J	-
Cadmium	mg/L	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-
Calcium	mg/L	73.9	102	-	75.2	126	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>	<i>P-08T</i>
<i>Sample Name:</i>		<i>WG-12616-021505-DEN-03</i>	<i>WG-12616-080305-DEN-02</i>	<i>WG-12616-100305-DN-02</i>	<i>WG-12616-021706-DN-13</i>	<i>WG-12616-081506-DN-01</i>	<i>WG-12616-101206-DN-06</i>
<i>Sample Date:</i>		<i>2/15/2005</i>	<i>8/3/2005</i>	<i>10/3/2005</i>	<i>2/17/2006</i>	<i>8/15/2006</i>	<i>10/12/2006</i>
<i>Parameters:</i>	<i>Units</i>						
Calcium (Dissolved)	mg/L	76.5	99.5	-	81.2	127	-
Chromium Total	mg/L	0.010 U	0.010 U	-	0.010 U	0.010 U	-
Chromium Total (Dissolved)	mg/L	0.010 U	0.010 U	-	0.010 U	0.010 U	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-
Copper	mg/L	-	0.0030 J	-	-	0.0021 J	-
Copper (Dissolved)	mg/L	-	0.0024 J	-	-	0.025 U	-
Cyanide (total)	mg/L	-	-	-	-	-	-
Iron	mg/L	0.10 U	0.084 J	-	0.30	0.15	-
Iron (Dissolved)	mg/L	0.10 U	0.10 U	-	0.10 U	0.078 J	-
Lead	mg/L	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-
Magnesium	mg/L	36.0	44.1	-	36.1	47.3	-
Magnesium (Dissolved)	mg/L	36.8	42.4	47.0	38.7	47.7	53.3
Manganese	mg/L	0.0095 J	0.0088 J	-	0.031	0.16	-
Manganese (Dissolved)	mg/L	0.0064 J	0.015 U	-	0.023	0.16	-
Mercury (Dissolved)	mg/L	-	-	-	-	-	-
Nickel	mg/L	0.0056 J	0.011 J	-	0.0052 J	0.040	-
Nickel (Dissolved)	mg/L	0.0066 J	0.011 J	-	0.0069 J	0.040	-
Potassium	mg/L	12.3	17.9	-	11.8	15.4	-
Potassium (Dissolved)	mg/L	12.4	17.1	-	12.6	15.7	16.4
Selenium (Dissolved)	mg/L	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-
Sodium	mg/L	9.2 J	29.2	-	9.4	63.6	-
Sodium (Dissolved)	mg/L	9.3	28.8	-	10.1	63.8	16.0
Zinc (Dissolved)	mg/L	-	-	-	-	-	-
<i>General Chemistry</i>							
Chloride	mg/L	9.2	24.1	-	9.9	52.7	-
Cyanide (total)	mg/L	0.010 U	0.010 U	-	0.010 U	0.010 U	-
Fluoride	mg/L	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	-	-	-	-	-
Sulfate	mg/L	143	188	-	189	175	-
Temperature, Field	deg F	-	-	-	-	-	-
Total Dissolved Solids (TD5)	mg/L	-	550	-	-	670	-
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	-	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	4.0 U	-	-	4.0 U	-
<i>Field Parameters</i>							
Conductivity	mmhos/cm	-	-	-	-	-	-
Conductivity Field	mmhos/cm	-	-	-	-	-	-
Conductivity Field (2)	mmhos/cm	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-	-	-	-
pH Field	S.U.	-	-	-	-	-	-
pH Field (2)	S.U.	-	-	-	-	-	-
pH Field (3)	S.U.	-	-	-	-	-	-
pH Field (4)	S.U.	-	-	-	-	-	-
Temperature, Field	Deg C	-	-	-	-	-	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location: P-09
Sample Name: GW-9
Sample Date: 1/22/1992

Parameters:	Units	
Volatile Organic Compounds		
1,1,1-Trichloroethane	mg/L	0.005 U
1,1,2,2-Tetrachloroethane	mg/L	0.005 U
1,1,2-Trichloroethane	mg/L	0.005 U
1,1-Dichloroethane	mg/L	0.005 U
1,1-Dichloroethene	mg/L	0.005 U
1,2-Dichloroethane	mg/L	0.005 U
1,2-Dichloropropane	mg/L	0.005 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.01 U
2-Chloroethyl vinyl ether	mg/L	0.01 U
2-Hexanone	mg/L	0.01 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.01 U
Acetone	mg/L	0.01 U
Benzene	mg/L	0.005 U
Bromodichloromethane	mg/L	0.005 U
Bromoform	mg/L	0.005 U
Bromomethane (Methyl Bromide)	mg/L	0.01 U
Carbon disulfide	mg/L	0.005 U
Carbon tetrachloride	mg/L	0.005 U
Chlorobenzene	mg/L	0.005 U
Chloroethane	mg/L	0.01 U
Chloroform (Trichloromethane)	mg/L	0.005 U
Chloromethane (Methyl Chloride)	mg/L	0.01 U
cis-1,3-Dichloropropene	mg/L	0.005 U
Dibromochloromethane	mg/L	0.005 U
Ethylbenzene	mg/L	0.005 U
m&p-Xylene	mg/L	0.005 U
Methylene chloride	mg/L	0.005 U
o-Xylene	mg/L	0.005 U
Styrene	mg/L	0.005 U
Tetrachloroethene	mg/L	0.005 U
Toluene	mg/L	0.005 U
trans-1,2-Dichloroethene	mg/L	0.005 U
trans-1,3-Dichloropropene	mg/L	0.005 U
Trichloroethene	mg/L	0.005 U
Vinyl acetate	mg/L	0.01 U
Vinyl chloride	mg/L	0.01 U
Metals		
Cadmium	mg/L	0.01 U
Cadmium (Dissolved)	mg/L	0.01 U
Calcium	mg/L	230
Chromium Total	mg/L	0.08
Chromium Total (Dissolved)	mg/L	0.02 U
Chromium VI (Hexavalent)	mg/L	0.02 U
Chromium VI (Hexavalent) (Dissolved)	mg/L	0.02 U
Cyanide (total)	mg/L	0.02 U
Magnesium	mg/L	59
Nickel	mg/L	0.08
Nickel (Dissolved)	mg/L	0.04 U
Potassium	mg/L	4.1
Sodium	mg/L	40

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location: **P-09**
Sample Name: **GW-9**
Sample Date: **1/22/1992**

<i>Parameters:</i>	<i>Units</i>	
<i>General Chemistry</i>		
Alkalinity, Bicarbonate	mg/L	320
Alkalinity, Carbonate	mg/L	2 U
Chloride	mg/L	38
Sulfate	mg/L	250
Total Organic Carbon (2)	mg/L	6.5
Total Organic Carbon (3)	mg/L	6.3
Total Organic Carbon (4)	mg/L	6.4
Total Organic Carbon (TOC)	mg/L	6.4
Total Organic Carbon (TOC) (Dissolved)	mg/L	6.8
Total Organic Halides (2)	mg/L	0.077
Total Organic Halides (3)	mg/L	0.075
Total Organic Halides (4)	mg/L	0.094
Total Organic Halides (TOX)	mg/L	0.06

<i>Field Parameters</i>		
Conductivity Field	mmhos/cm	1.08
Conductivity Field (2)	mmhos/cm	0.965
Conductivity Field (3)	mmhos/cm	1.037
Conductivity Field (4)	mmhos/cm	1.006
pH Field	S.U.	6.94
pH Field (2)	S.U.	7.07
pH Field (3)	S.U.	7.00
pH Field (4)	S.U.	7.02

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>	<i>P-10</i>	<i>P-10</i>
<i>Sample Name:</i>	<i>P-10</i>	<i>GW-10</i>
<i>Sample Date:</i>	<i>12/15/1987</i>	<i>1/22/1992</i>

<i>Parameters:</i>	<i>Units</i>

Volatile Organic Compounds

1,1,1-Trichloroethane	mg/L	-	0.005 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.005 U
1,1,2-Trichloroethane	mg/L	-	0.005 U
1,1-Dichloroethane	mg/L	-	0.005 U
1,1-Dichloroethene	mg/L	-	0.005 U
1,2-Dichloroethane	mg/L	-	0.005 U
1,2-Dichloropropane	mg/L	-	0.005 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	0.01 U
2-Chloroethyl vinyl ether	mg/L	-	0.01 U
2-Hexanone	mg/L	-	0.01 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	0.01 U
Acetone	mg/L	-	0.01 U
Benzene	mg/L	-	0.005 U
Bromodichloromethane	mg/L	-	0.005 U
Bromoform	mg/L	-	0.005 U
Bromomethane (Methyl Bromide)	mg/L	-	0.01 U
Carbon disulfide	mg/L	-	0.005 U
Carbon tetrachloride	mg/L	-	0.005 U
Chlorobenzene	mg/L	-	0.005 U
Chloroethane	mg/L	-	0.01 U
Chloroform (Trichloromethane)	mg/L	-	0.005 U
Chloromethane (Methyl Chloride)	mg/L	-	0.01 U
cis-1,3-Dichloropropene	mg/L	-	0.005 U
Dibromochloromethane	mg/L	-	0.005 U
Ethylbenzene	mg/L	-	0.005 U
m&p-Xylene	mg/L	-	0.005 U
Methylene chloride	mg/L	-	0.005 U
o-Xylene	mg/L	-	0.005 U
Styrene	mg/L	-	0.005 U
Tetrachloroethene	mg/L	-	0.005 U
Toluene	mg/L	-	0.005 U
trans-1,2-Dichloroethene	mg/L	-	0.005 U
trans-1,3-Dichloropropene	mg/L	-	0.005 U
Trichloroethene	mg/L	-	0.005 U
Vinyl acetate	mg/L	-	0.01 U
Vinyl chloride	mg/L	-	0.01 U

Metals

Cadmium	mg/L	-	0.01 U
Cadmium (Dissolved)	mg/L	-	0.01 U
Calcium	mg/L	-	0.4 U
Chromium Total	mg/L	-	0.02 U
Chromium Total (Dissolved)	mg/L	-	0.02 U
Chromium VI (Hexavalent)	mg/L	-	0.02 U
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	0.02 U
Cyanide (total)	mg/L	-	0.02 U
Magnesium	mg/L	-	0.05 U
Nickel	mg/L	-	0.04 U
Nickel (Dissolved)	mg/L	-	0.04 U
Potassium	mg/L	-	0.1 U

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>	<i>P-10</i>	<i>P-10</i>
<i>Sample Name:</i>	<i>P-10</i>	<i>GW-10</i>
<i>Sample Date:</i>	<i>12/15/1987</i>	<i>1/22/1992</i>

<i>Parameters:</i>	<i>Units</i>		
Sodium	mg/L	-	0.56

General Chemistry

Alkalinity, Bicarbonate	mg/L	-	2 U
Alkalinity, Carbonate	mg/L	-	2 U
Chloride	mg/L	-	2.5
Sulfate	mg/L	-	1.5
Sulfates	mg/L	572	-
Total Organic Carbon (2)	mg/L	-	0.26
Total Organic Carbon (3)	mg/L	-	0.28
Total Organic Carbon (4)	mg/L	-	0.24
Total Organic Carbon (TOC)	mg/L	-	0.31
Total Organic Halides (2)	mg/L	-	0.031
Total Organic Halides (3)	mg/L	-	0.038
Total Organic Halides (4)	mg/L	-	0.048
Total Organic Halides (TOX)	mg/L	-	0.022

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11
Sample Name:	P-11	8906G827-013	8908G550-009	8911G190-013	P-11	15	32	55	71	87	107	GW-11	P-11	P-11	P-11	P-11	P-11	P-11
Sample Date:	1/20/1989	5/31/1989	8/30/1989	11/21/1989	2/21/1990	7/27/1990	8/14/1990	2/21/1991	5/30/1991	8/8/1991	10/21/1991	1/22/1992	5/20/1992	8/13/1992	11/24/1992	3/15/1993	7/21/1993	

Parameters: Units

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Metals

Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.1 U	10.4	1.9	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 K	-
Arsenic (Dissolved)	mg/L	0.05 U	0.004 U	0.0028	0.004 U	-	-	-	-	-	-	-	0.1 U	0.1 U	0.1 U	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	0.2 U	0.05 U	0.05 U	0.05 U	-	-	-	-	-	-	-	0.02 U	0.052	0.026	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11
Sample Name:	P-11	8906G827-013	8908G550-009	8911G190-013	P-11	15	32	55	71	87	107	GW-11	P-11	P-11	P-11	P-11	P-11
Sample Date:	1/20/1989	5/31/1989	8/30/1989	11/21/1989	2/21/1990	7/27/1990	8/14/1990	2/21/1991	5/30/1991	8/8/1991	10/21/1991	1/22/1992	5/20/1992	8/13/1992	11/24/1992	3/15/1993	7/21/1993
Parameters:	Units																
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-
Cadmium (Dissolved)	mg/L	0.01 U	0.004 U	0.004 U	0.0058	-	-	-	-	-	-	0.01 U	0.005 U	0.005 U	0.005 U	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	190	101	120	124	-	-
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	-	-	0.01 U	-	0.01 U	-	-	-	0.12	-	-	-	-	0.01 K
Chromium Total (Dissolved)	mg/L	0.039	0.02 U	0.02 U	0.02 U	-	-	-	-	-	-	0.02 U	0.01 U	0.015	0.01 U	-	-
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	-	-	0.02 U	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	0.01 U	0.02 U	0.02 U	0.02 U	0.058	-	0.017	-	-	-	0.02 U	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.01 U	0.027	0.013	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	0.02 U	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28.3
Iron (Dissolved)	mg/L	22	0.03 U	0.03 U	0.03 U	2.25	-	0.675	-	-	-	-	0.101	38.5	0.1 U	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.014
Lead (Dissolved)	mg/L	0.02 U	0.002 U	0.01 U	0.002 U	-	-	-	-	-	-	-	0.005 U	0.029	0.003 U	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	62	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	38.7	41.6	87.9	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.25
Manganese (Dissolved)	mg/L	0.86	0.12	0.34	0.076	0.105	-	0.305	-	-	-	-	0.073	0.649	0.364	-	-
Mercury (Dissolved)	mg/L	0.0002 U	0.0005 U	0.0002 U	0.0002 U	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	0.12	-	-	-	0.01 U	0.02
Nickel (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	0.04 U	0.02 U	0.026	0.039	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	29	-	-	-	-	4.52
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	2.93	6.22	4.74	-	-
Selenium (Dissolved)	mg/L	0.01 U	0.002 U	0.01 U	0.002 U	-	-	-	-	-	-	-	0.005 U	0.005 U	0.005 U	-	-
Silver (Dissolved)	mg/L	0.02 U	0.03 U	0.03 U	0.03 U	-	-	-	-	-	-	-	0.01 U	0.01 U	0.01 U	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	150	-	-	-	-	108
Sodium (Dissolved)	mg/L	120	123	123	114	104	-	91.8	-	-	-	-	103	94.4	128	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.02 U	0.082	0.02 U	-	-
General Chemistry																	
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-	-	-	-	410	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-	-	-	-	2 U	-	-	-	-	-
Chloride	mg/L	1 U	47	39.9	45.3	48.2	-	45.6	-	-	-	56	59.1	59.7	57.5	61	54.5
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	0.36	0.24	0.24	0.25	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	0.28	0.1	0.05 U	1.3	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	0.01 U	0.005 U	0.01 U	0.01 U	0.04 U	-	0.5	-	-	-	-	0.067 U	0.067 U	0.067 U	-	0.067 K
Sulfate	mg/L	160	194	184	207	240	-	169	-	-	-	21	215	203	200	246	227
Temperature, Field	deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	1 U	1	1.1	1.3	1.62	3.39	1.34	3.27	2	2.27	-	1.6	3.24	1.19	2.24	1.15
Total Organic Carbon (3)	mg/L	1 U	1	1.1	1.2	1.41	3.42	1.43	3.31	2.5	2.45	-	1.6	3.09	1.331	2.21	1.34
Total Organic Carbon (4)	mg/L	1 U	1	1.1	1.1	1.34	3.6	1.91	3.44	2.4	2.9	-	1.6	3.07	1.22	2.18	1.33
Total Organic Carbon (TOC)	mg/L	3	1	1.2	1 U	3.25	3.28	1.28	3.08	2.3	2.43	-	1.7	3.22	1.19	2.25	1.08
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	1.7	-	-	-	-	-
Total Organic Halides (2)	mg/L	0.03 U	0.005 U	0.01 U	0.01 U	0.0534	U	U	0.01 U	-	0.03 U	-	0.056	0.01 U	0.02	0.01	0.01 K
Total Organic Halides (3)	mg/L	0.03 U	0.008	0.01 U	0.01 U	0.0545	U	0.023	0.01 U	-	0.03 U	-	0.05	0.01 U	0.02	0.01 U	0.01 K
Total Organic Halides (4)	mg/L	0.03 U	0.005 U	0.01 U	0.01 U	0.0543	0.013	0.008	0.01 U	-	0.03	-	0.022	0.01 U	0.02	0.01	0.01 K
Total Organic Halides (TOX)	mg/L	0.03 U	0.005 U	0.01 U	0.01 U	0.0505	U	U	0.01 U	-	0.03 U	-	0.015	0.01 U	0.03	0.01 U	0.03
Field Parameters																	
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	1.2	1.12	1.15	1.16	0.99	1.3	0.99	1.38	-	1.34	-	1.126	1.41	1.31	1.34	1.22
Conductivity Field (2)	mmhos/cm	1.2	1.12	1.14	1.16	0.98	1.3	1.01	1.37	-	1.320	-	1.159	1.39	1.32	1.313	1.16
Conductivity Field (3)	mmhos/cm	1.2	1.11	1.14	1.16	1.00	1.3	1.0	1.38	-	1.32	-	1.096	1.36	1.32	1.306	1.14
Conductivity Field (4)	mmhos/cm	1.2	1.11	1.13	1.16	0.98	1.35	1.0	1.38	-	1.32	-	1.09	1.37	1.32	1.285	1.13
pH Field	S.U.	7.6	7.15	7.15	7.25	7.11	7.14	6.98	7.03	6.94	8.19	7.07	6.91	6.80	6.94	7.63	7.90
pH Field (2)	S.U.	7.6	7.14	7.11	7.24	7.08	7.1	7.04	7.03	7.04	8.37	7.03	6.96	6.85	7.09	7.58	8.4
pH Field (3)	S.U.	7.6	7.15	7.12	7.23	7.08	7.12	7.01	7.01	7.04	8.45	7.02	7.03	6.92	7.12	7.43	8.61
pH Field (4)	S.U.	7.6	7.21	7.12	7.22	7.08	7.1	6.98	7.02	7.03	8.45	7.02	7.14	6.94	7.21	7.45	8.65
Temperature, Field	Deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11
Sample Name:	P-11	P-11	U00016	E90447	E98155	E107741	E113031	E121669	E128390	E134495	E141432	E146574	E146575	E152694	E152695	E160164	E165455	E171018
Sample Date:	10/7/1993	12/20/1993	3/29/1994	6/20/1994	9/22/1994	12/28/1994	3/20/1995	6/27/1995	9/27/1995	12/14/1995	4/5/1996	6/11/1996	6/11/1996 Duplicate	8/27/1996	8/27/1996 Duplicate	11/23/1996	2/26/1997	5/27/1997
Parameters:	Units																	
Volatile Organic Compounds																		
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals																		
Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	0.01 K	-	0.001 U	-	0.001 U	-	0.001 U	-	0.001 U	-	-	-	-	-	-	-
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11
Sample Name:	P-11	P-11	U00016	E90447	E98155	E107741	E113031	E121669	E128390	E134495	E141432	E146574	E146575	E152694	E152695	E160164	E165455	E171018
Sample Date:	10/7/1993	12/20/1993	3/29/1994	6/20/1994	9/22/1994	12/28/1994	3/20/1995	6/27/1995	9/27/1995	12/14/1995	4/5/1996	6/11/1996	6/11/1996 Duplicate	8/27/1996	8/27/1996 Duplicate	11/23/1996	2/26/1997	5/27/1997
Parameters:	Units																	
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	0.01 U	-	-	0.01 U	-	-	-	0.01 U	0.01 U	-	-	-	-	0.41
Iron (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	0.003 K	-	0.001 U	0.001 U	-	0.001 U	-	0.002	-	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	0.04	-	-	0.05	-	-	-	0.014	0.014	-	-	-	-	0.062
Manganese (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	0.02 K	0.02 K	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Nickel (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	3.03	-	3.5	-	3.5	3.6	-	3.7	-	-	-	-	-	-	-	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	110	-	-	113	-	-	-	102	102	-	-	-	-	103
Sodium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																		
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	57.2	52.8	-	60	60	60	67	68	80	95	93	91	88	83	104	110	114
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	-	-	0.01	-	-	0.01 U	-	-	-	0.01 U	0.01	-	-	-	-	0.01 U
Sulfate	mg/L	215	246	-	278	271	283	295	277	316	323	395	425	376	374	462	536	509
Temperature, Field	deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	1.24	-	1.6	-	1.4	1.9	-	16	-	1.2	1.2	-	-	1.8	-	2.5
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	-	0.01 K	-	0.01 U	-	0.01 U	0.01 U	-	0.01 U	-	0.01 U	0.01 U	-	-	0.01 U	-	0.01 U
Field Parameters																		
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	1.046	1.04	2.38	1.15	1.1	1.1	1.05	1	0.941	1.259	1.161	-	1.02	-	0.958	1.167	1.082
Conductivity Field (2)	mmhos/cm	1.026	1.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	1.023	1.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	1.020	1.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	S.U.	6.75	6.75	7.06	5.89	6.67	7.7	7.07	7.12	6.86	7.12	6.99	-	6.83	-	6.89	6.99	7.17
pH Field (2)	S.U.	6.75	6.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (3)	S.U.	6.75	6.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (4)	S.U.	6.75	6.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field	Deg C	-	-	-	15	16	9.9	-	16.9	10.4	-	13.9	-	15.8	-	11.3	8	12

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11
Sample Name:	E176117	E183285	E189233	E196369	E205395	E210903	E216003	E222107	E228251	P-11	P-11	P-11	P-11	P-11	P-11	271746	277757	285478
Sample Date:	8/19/1997	11/24/1997	2/25/1998	5/13/1998	8/20/1998	11/9/1998	2/3/1999	5/6/1999	8/4/1999	11/15/1999	2/3/2000	5/3/2000	8/31/2000	11/2/2000	2/15/2001	5/1/2001	8/14/2001	11/6/2001

Parameters: **Units**

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m&p-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Metals

Aluminum (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11
Sample Name:	E176117	E183285	E189233	E196369	E205395	E210903	E216003	E222107	E228251	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11
Sample Date:	8/19/1997	11/24/1997	2/25/1998	5/13/1998	8/20/1998	11/9/1998	2/3/1999	5/6/1999	8/4/1999	11/15/1999	2/3/2000	5/3/2000	8/31/2000	11/2/2000	2/15/2001	5/1/2001	8/14/2001	11/6/2001
Parameters:																		
Units																		
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	-	-	-	-	-	-	-	-	-	-	0.05 U	-	-	-	-	-	-
Chromium Total (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	0.05 U	-	-	-	-	-	-
Chromium VI (Hexavalent)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	0.05 U	-	-	-	-	-	-
Iron	mg/L	-	-	-	5.91	-	-	3.66	-	5.91	-	1.28	-	-	-	0.76	-	-
Iron (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	0.1 U	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	0.49	-	-	0.065	-	-	-	0.049	-	-	-	0.015	-	-
Manganese (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	0.014	-	-	-	-	-	-
Mercury (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	0.01 U	0.01	0.01 U	0.01 U	0.055	0.072	0.01 U	0.01 U	0.2	0.01 U	0.067	0.01 U	0.01 U	0.032 J	0.028	0.01 U	0.01 U
Nickel (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	4.2	-	-	-	3.3	-	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	3.6	-	-	-	-	-	-
Selenium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	100	-	-	79	-	-	-	95	-	-	-	84	-	-
Sodium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	95	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																		
Alkalinity, Bicarbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	92	97	116	107	88	86	90	102	83	86	94	94	88	88	97	91	86
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenolics (Total)	mg/L	-	-	-	0.01 U	-	-	0.01 U	-	-	-	0.01 U	-	-	-	0.01 U	-	-
Sulfate	mg/L	427	427	569	601	479	283	409	566	427	361	569	606	460	441	628	607	488
Temperature, Field	deg C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	2.1	-	1.9	-	1.8	-	2.7	-	1.6	-	4.4	-	2.2	-	2.8	-
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (TOX)	mg/L	-	0.01 U SI	-	0.01 U SI	-	0.01 U	-	0.01 U	-	0.01 U MS	-	0.01 U	-	0.01 U	-	0.01 U	0.01 U
Field Parameters																		
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	0.928	1.583	1.515	1.987	1.696	1.743	1.174	1.675	1.264	1.346	1.221	1.438	1.299	1.511	-	-	-
Conductivity Field (2)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field	S.U.	6.72	6.79	6.87	7.04	6.78	6.79	6.63	6.73	6.96	6.76	6.76	6.69	6.72	6.66	-	-	-
pH Field (2)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (3)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH Field (4)	S.U.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field	Deg C	16	11.1	9.2	13	17.2	13.1	9.0	12.3	18.2	12.8	9.0	12.2	17.4	15.7	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-11	P-11	P-11	P-11
Sample Name:	298108	W-12616-38-121603-ACL-012	W-12616-38-121603-ACL-013	W-12616-011504-DEN-07S
Sample Date:	2/5/2002	12/16/2003	12/16/2003	1/15/2004

Parameters:	Units				
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	mg/L	-	0.001 U	0.001 U	-
1,1,1-Trichloroethane	mg/L	-	0.001 U	0.001 U	-
1,1,2,2-Tetrachloroethane	mg/L	-	0.001 U	0.001 U	-
1,1,2-Trichloroethane	mg/L	-	0.001 U	0.001 U	-
1,1-Dichloroethane	mg/L	-	0.001 U	0.001 U	-
1,1-Dichloroethene	mg/L	-	0.001 U	0.001 U	-
1,2,3-Trichloropropane	mg/L	-	0.001 U	0.001 U	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.002 U	0.002 U	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	0.001 U	0.001 U	-
1,2-Dichloropropane	mg/L	-	0.001 U	0.001 U	-
1,4-Dioxane	mg/L	-	0.2 U	0.2 U	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	0.01 U	0.01 U	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-
2-Hexanone	mg/L	-	0.01 U	0.01 U	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	0.01 U	0.01 U	-
Acetone	mg/L	-	0.01 U	0.01 U	-
Acetonitrile	mg/L	-	0.02 U	0.02 U	-
Acrolein	mg/L	-	0.02 U	0.02 U	-
Acrylonitrile	mg/L	-	0.02 U	0.02 U	-
Allyl chloride	mg/L	-	0.002 U	0.002 U	-
Benzene	mg/L	-	0.001 U	0.001 U	-
Bromodichloromethane	mg/L	-	0.001 U	0.001 U	-
Bromoform	mg/L	-	0.001 U	0.001 U	-
Bromomethane (Methyl Bromide)	mg/L	-	0.001 U	0.001 U	-
Carbon disulfide	mg/L	-	0.001 U	0.001 U	-
Carbon tetrachloride	mg/L	-	0.001 U	0.001 U	-
Chlorobenzene	mg/L	-	0.001 U	0.001 U	-
Chloroethane	mg/L	-	0.001 U	0.001 U	-
Chloroform (Trichloromethane)	mg/L	-	0.001 U	0.001 U	-
Chloromethane (Methyl Chloride)	mg/L	-	0.001 U	0.001 U	-
Chloroprene	mg/L	-	0.002 U	0.002 U	-
cis-1,3-Dichloropropene	mg/L	-	0.001 U	0.001 U	-
Dibromochloromethane	mg/L	-	0.001 U	0.001 U	-
Dibromomethane	mg/L	-	0.001 U	0.001 U	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	0.001 U	0.001 U	-
Ethyl methacrylate	mg/L	-	0.001 U	0.001 U	-
Ethylbenzene	mg/L	-	0.001 U	0.001 U	-
Iodomethane	mg/L	-	0.001 U	0.001 U	-
Isobutyl alcohol	mg/L	-	0.05 U	0.05 U	-
m&p-Xylene	mg/L	-	-	-	-
Methyl acrylonitrile	mg/L	-	0.002 U	0.002 U	-
Methyl methacrylate	mg/L	-	0.002 U	0.002 U	-
Methylene chloride	mg/L	-	0.001 U	0.001 U	-
o-Xylene	mg/L	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	0.004 U	0.004 U	-
Styrene	mg/L	-	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	-	0.001 U	0.001 U	-
Toluene	mg/L	-	0.001 U	0.001 U	-
trans-1,2-Dichloroethene	mg/L	-	0.001 U	0.001 U	-
trans-1,3-Dichloropropene	mg/L	-	0.001 U	0.001 U	-
trans-1,4-Dichloro-2-butene	mg/L	-	0.001 U	0.001 U	-
Trichloroethene	mg/L	-	0.001 U	0.001 U	-
Trichlorofluoromethane (CFC-11)	mg/L	-	0.001 U	0.001 U	-
Vinyl acetate	mg/L	-	0.002 U	0.002 U	-
Vinyl chloride	mg/L	-	0.001 U	0.001 U	-
Xylene (total)	mg/L	-	0.002 U	0.002 U	-

Metals

Aluminum (Dissolved)	mg/L	-	-	-	-
Arsenic	mg/L	-	-	-	-
Arsenic (Dissolved)	mg/L	-	-	-	-
Barium	mg/L	-	0.016 J	0.015 J	0.016 J
Barium (Dissolved)	mg/L	-	0.015 J	0.015 J	0.015 J

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-11	P-11	P-11	P-11
Sample Name:	298108	W-12616-38-121603-ACL-012	W-12616-38-121603-ACL-013	W-12616-011504-DEN-07S
Sample Date:	2/5/2002	12/16/2003	12/16/2003	1/15/2004

<i>Parameters:</i>	<i>Units</i>	<i>Duplicate</i>			
Cadmium	mg/L	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-
Calcium	mg/L	-	213	212	-
Calcium (Dissolved)	mg/L	-	210	216	-
Chromium Total	mg/L	-	0.010 U	0.010 U	-
Chromium Total (Dissolved)	mg/L	-	0.010 U	0.010 U	-
Chromium VI (Hexavalent)	mg/L	-	-	-	-
Chromium VI (Hexavalent) (Dissolved)	mg/L	-	-	-	-
Copper	mg/L	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-
Iron	mg/L	-	0.10 U	0.053 J	-
Iron (Dissolved)	mg/L	-	0.10 U	0.10 U	-
Lead	mg/L	-	-	-	-
Lead (Dissolved)	mg/L	-	-	-	-
Magnesium	mg/L	-	78.1	77.9	-
Magnesium (Dissolved)	mg/L	-	76.7	79.3	-
Manganese	mg/L	-	0.015 U	0.015 U	-
Manganese (Dissolved)	mg/L	-	0.015 U	0.015 U	-
Mercury (Dissolved)	mg/L	-	-	-	-
Nickel	mg/L	0.01 U	0.0036 J	0.0022 J	0.0036 J
Nickel (Dissolved)	mg/L	-	0.0026 J	0.040 U	0.0023 J
Potassium	mg/L	-	4.1 J	4.1 J	-
Potassium (Dissolved)	mg/L	-	4.0 J	4.1 J	-
Selenium (Dissolved)	mg/L	-	-	-	-
Silver (Dissolved)	mg/L	-	-	-	-
Sodium	mg/L	-	99.5	99.3	-
Sodium (Dissolved)	mg/L	-	97.2	99.8	-
Zinc (Dissolved)	mg/L	-	-	-	-

General Chemistry

Alkalinity, Bicarbonate	mg/L	-	-	-	-
Alkalinity, Carbonate	mg/L	-	-	-	-
Chloride	mg/L	91	67.0	66.1	-
Cyanide (total)	mg/L	-	0.010 U	0.010 U	-
Fluoride	mg/L	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-
pH Field	s.u.	7.480	-	-	-
Phenolics (Total)	mg/L	-	-	-	-
Sulfate	mg/L	682	635	629	-
Temperature, Field	deg C	8.6	-	-	-
Total Organic Carbon (2)	mg/L	-	-	-	-
Total Organic Carbon (3)	mg/L	-	-	-	-
Total Organic Carbon (4)	mg/L	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	-	-	-
Total Organic Carbon (TOC) (Dissolved)	mg/L	-	-	-	-
Total Organic Halides (2)	mg/L	-	-	-	-
Total Organic Halides (3)	mg/L	-	-	-	-
Total Organic Halides (4)	mg/L	-	-	-	-
Total Organic Halides (TOX)	mg/L	-	-	-	-

Field Parameters

Conductivity	mmhos/cm	1.850	-	-	-
Conductivity Field	mmhos/cm	-	-	-	-
Conductivity Field (2)	mmhos/cm	-	-	-	-
Conductivity Field (3)	mmhos/cm	-	-	-	-
Conductivity Field (4)	mmhos/cm	-	-	-	-
pH Field	S.U.	-	-	-	-
pH Field (2)	S.U.	-	-	-	-
pH Field (3)	S.U.	-	-	-	-
pH Field (4)	S.U.	-	-	-	-
Temperature, Field	Deg C	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-12	P-12	P-12	P-12	P-12	P-12	P-12	P-12
Sample Name:		W-12616-050300-DEN-021	GW-12616-13	GW-12616-082802-DCR-009	W-12616-112602-DEN-014	W-12616-022703-DEN-10	W-12616-052903-DEN-09	W-12616-38-082703-DEN-09	W-12616-38-111803-DEN-07
Sample Date:		5/3/2000	6/26/2002	8/28/2002	11/26/2002	2/27/2003	5/29/2003	8/27/2003	11/18/2003
Parameters:	Units								
Metals									
Barium	mg/L	-	0.054 J	0.045 J	0.033 J	0.033 J	0.035 J	0.032 J	0.030 J
Barium (Dissolved)	mg/L	-	0.056 J	0.046 J	0.036 J	0.034 J	0.037 J	0.038 J	0.030 J
Cadmium	mg/L	0.01 U	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	0.01 U	-	-	-	-	-	-	-
Calcium	mg/L	-	82.8	70.6 J	49.7	59.4	67.6	58.2	56.4
Calcium (Dissolved)	mg/L	-	85.9	74.3	56.7	62.7	71.6	68.4	55.2
Chromium Total	mg/L	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Chromium Total (Dissolved)	mg/L	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Copper	mg/L	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	0.05 U	-	-	-	-	-	-	-
Iron	mg/L	-	0.13	0.10 U	0.044 J	0.10 U	0.10 U	0.15	0.16
Iron (Dissolved)	mg/L	-	0.10 U	0.10 U	0.10 U	0.10 U	0.044 J	0.11	0.046 J
Magnesium	mg/L	-	20.8	17.6	12.9	15.4	17.2	14.8	14.5
Magnesium (Dissolved)	mg/L	-	21.9	18.2	14.6	16.2	17.9	17.2	14.5
Manganese	mg/L	-	0.040	0.050	0.16	0.039	0.12	0.24 J	0.099
Manganese (Dissolved)	mg/L	-	0.039	0.054	0.14	0.036	0.10	0.22	0.037
Nickel	mg/L	0.01 U	0.0055 J	0.040 U	0.0037 J	0.040 U	0.0042 J	0.0032 J	0.0026 J
Nickel (Dissolved)	mg/L	0.01 U	0.0055 J	0.040 U	0.0030 J	0.040 U	0.0030 J	0.0041 J	0.0026 J
Potassium	mg/L	-	3.2 J	3.4 J	4.6 J	4.2 J	4.0 J	4.2 J	4.8 J
Potassium (Dissolved)	mg/L	-	3.2 J	3.8 J	4.2 J	4.1 J	3.6 J	4.3 J	4.4 J
Sodium	mg/L	-	70.4	88.3	123	117	98.0	105	124
Sodium (Dissolved)	mg/L	-	66.9	85.0	105	113	85.6	101	112
General Chemistry									
Chloride	mg/L	18	18.0	15.1	14.2	16.4	16.6	17.0	15.4
Cyanide (total)	mg/L	-	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Sulfate	mg/L	76	89.6	72.8	52.5	66.9	83.0	77.9	71.5
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-	-
Field Parameters									
Conductivity	mmhos/cm	-	0.974	0.718	0.739	0.856	0.811	-	-
Conductivity Field	mmhos/cm	-	-	-	-	-	-	0.92	0.869
pH Field	S.U.	-	7.27	4.47	7.59	7.50	6.98	7.22	7.40
Temperature, Field	Deg C	-	18.8	19.63	11.59	8.27	13.96	17.18	13.56

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

<i>Sample Location:</i>	<i>P-12</i>	<i>P-12</i>	<i>P-12</i>	<i>P-12</i>	<i>P-12</i>	<i>P-12</i>	<i>P-12</i>
<i>Sample Name:</i>	W-12616-022604-DEN-10	W-12616-081804-DEN-10	W-12616-081804-DEN-11	WG-12616-021605-DEN-11	WG-12616-080405-DEN-11	WG-12616-021506-DN-07	WG-12616-081606-DN-09
<i>Sample Date:</i>	2/26/2004	8/18/2004	8/18/2004 <i>Duplicate</i>	2/16/2005	8/4/2005	2/15/2006	8/16/2006

Parameters: Units

Metals

Barium	mg/L	0.033 J	0.036 J	0.041 J	0.030 J	0.024 J	0.026 J	0.029 J
Barium (Dissolved)	mg/L	0.036 J	0.039 J	0.043 J	0.031 J	0.030 J	0.026 J	0.035 J
Cadmium	mg/L	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-
Calcium	mg/L	65.8	77.1 J	75.2	68.4	53.2	54.8	57.1
Calcium (Dissolved)	mg/L	70.8	77.7	73.8	71.9	63.8	55.9	67.9
Chromium Total	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Chromium Total (Dissolved)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Copper	mg/L	-	0.025 U	0.025 U	-	0.025 U	-	0.0033 J
Copper (Dissolved)	mg/L	-	0.025 U	0.025 U	-	0.025 U	-	0.0024 J
Cyanide (total)	mg/L	-	-	-	-	-	-	-
Iron	mg/L	0.10 U	0.18	0.20	0.10	0.39	0.10 U	0.69
Iron (Dissolved)	mg/L	0.10 U	0.30	0.32	0.093 J	0.34	0.10 U	0.67
Magnesium	mg/L	17.3	19.8	18.8	17.9	13.8	14.4	15.1
Magnesium (Dissolved)	mg/L	18.4	20.5	19.2	18.8	16.2	14.7	17.9
Manganese	mg/L	0.047	0.20	0.19	0.025	0.17	0.0092 J	0.26
Manganese (Dissolved)	mg/L	0.055	0.12	0.099	0.025	0.16	0.010 J	0.28
Nickel	mg/L	0.0033 J	0.0034 J	0.0035 J	0.0028 J	0.0023 J	0.0027 J	0.0044 J
Nickel (Dissolved)	mg/L	0.0026 J	0.0034 J	0.040 U	0.0026 J	0.0027 J	0.0028 J	0.0046 J
Potassium	mg/L	4.8 J	3.8 J	4.1 J	4.5 J	4.8 J	4.8 J	4.6 J
Potassium (Dissolved)	mg/L	4.6 J	3.5 J	3.6 J	4.5 J	4.6 J	4.7 J	5.1
Sodium	mg/L	120	94.8	88.9	108	126	128	129
Sodium (Dissolved)	mg/L	112	83.0	75.9	106	118	125	136

General Chemistry

Chloride	mg/L	16.8	16.7	16.5	17.8	16.5	18.4	17.9
Cyanide (total)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Sulfate	mg/L	82.8	87.1	86.1	87.8	83.0	79.1	81.5
Total Dissolved Solids (TDS)	mg/L	-	500	490	-	500	-	520
Total Suspended Solids (TSS)	mg/L	-	4.0 UJ	4.0 UJ	-	4.0 U	-	4.0

Field Parameters

Conductivity	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	-	-	-	-	-	-	-
pH Field	S.U.	-	-	-	-	-	-	-
Temperature, Field	Deg C	-	-	-	-	-	-	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location: P-12T
Sample Name: W-12616-050300-DEN-019
Sample Date: 5/3/2000

<i>Parameters:</i>	<i>Units</i>	
<i>Metals</i>		
Cadmium	mg/L	0.01 U
Cadmium (Dissolved)	mg/L	0.01 U
Chromium Total	mg/L	0.029
Chromium Total (Dissolved)	mg/L	0.01 U
Cyanide (total)	mg/L	0.05 U
Nickel	mg/L	0.027
Nickel (Dissolved)	mg/L	0.01 U
<i>General Chemistry</i>		
Chloride	mg/L	18
Sulfate	mg/L	236

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-12TR</i>	<i>P-12TR</i>	<i>P-12TR</i>	<i>P-12TR</i>	<i>P-12TR</i>	<i>P-12TR</i>	<i>P-12TR</i>	<i>P-12TR</i>
<i>Sample Name:</i>		GW-12616-12	GW-12616-082802-DCR-010	W-12616-112602-DEN-013	W-12616-022703-DEN-11	W-12616-052903-DEN-10	W-12616-052903-DEN-11	W-12616-38-082703-DEN-10	W-12616-38-082703-DEN-11
<i>Sample Date:</i>		6/26/2002	8/28/2002	11/26/2002	2/27/2003	5/29/2003	5/29/2003 <i>Duplicate</i>	8/27/2003	8/27/2003 <i>Duplicate</i>
<i>Parameters:</i>	<i>Units</i>								
<i>Metals</i>									
Barium	mg/L	0.077 J	0.089 J	0.10 J	0.072 J	0.067 J	0.068 J	0.067 J	0.072 J
Barium (Dissolved)	mg/L	0.077 J	0.094 J	0.097 J	0.074 J	0.066 J	0.067 J	0.074 J	0.069 J
Calcium	mg/L	93.9	107 J	143	133	116	116	126	132
Calcium (Dissolved)	mg/L	92.1	114	141	131	118	116	130	123
Chromium Total	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Chromium Total (Dissolved)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.0049 J	0.010 U	0.010 U	0.010 U
Copper	mg/L	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-
Iron	mg/L	0.54	0.27	0.18	0.26	0.33	0.34	0.35	0.40
Iron (Dissolved)	mg/L	0.35	0.22	0.14	0.29	1.4	0.32	0.47	0.43
Magnesium	mg/L	22.6	25.9	35.1	31.9	27.5	27.4	30.6	31.9
Magnesium (Dissolved)	mg/L	22.2	27.9	34.3	31.4	28.1	27.6	31.6	29.7
Manganese	mg/L	0.11	0.12	0.085	0.049	0.060	0.064	0.15	0.16
Manganese (Dissolved)	mg/L	0.10	0.13	0.097	0.057	0.070	0.061	0.15	0.14
Nickel	mg/L	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.0027 J	0.0027 J
Nickel (Dissolved)	mg/L	0.040 U	0.040 U	0.0029 J	0.040 U	0.0057 J	0.040 U	0.0028 J	0.0025 J
Potassium	mg/L	2.8 J	4.9 J	5.7	3.5 J	2.9 J	2.9 J	3.5 J	3.6 J
Potassium (Dissolved)	mg/L	2.8 J	5.1	5.5	3.4 J	3.0 J	2.9 J	3.5 J	3.3 J
Sodium	mg/L	56.3	48.0	53.3	52.3	51.9	53.1	52.0	55.7
Sodium (Dissolved)	mg/L	56.4	51.3	54.5	53.5	51.9	51.5	56.5	53.0
<i>General Chemistry</i>									
Chloride	mg/L	17.1	14.2	13.1	14.6	15.6	15.5	15.0	15.0
Cyanide (total)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Sulfate	mg/L	85.4	108	271	152	123	123	124	126
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-	-
<i>Field Parameters</i>									
Conductivity	mmhos/cm	0.964	0.909	1.17	1.12	1.04	1.04	-	-
Conductivity Field	mmhos/cm	-	-	-	-	-	-	1.04	-
pH Field	S.U.	7.26	6.87	6.17	6.82	6.87	6.87	6.95	-
Temperature, Field	Deg C	18.2	19.33	11.36	6.37	14.26	14.26	20.56	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-12TR</i>	<i>P-12TR</i>	<i>P-12TR</i>	<i>P-12TR</i>	<i>P-12TR</i>	<i>P-12TR</i>	<i>P-12TR</i>	<i>P-12TR</i>
<i>Sample Name:</i>		W-12616-38-111803-DEN-08	W-12616-38-111803-DEN-09	W-12616-022604-DEN-11	W-12616-081804-DEN-09	WG-12616-021605-DEN-10	WG-12616-021605-DEN-12	WG-12616-080405-DEN-09	WG-12616-080405-DEN-10
<i>Sample Date:</i>		11/18/2003	11/18/2003	2/26/2004	8/18/2004	2/16/2005	2/16/2005	8/4/2005	8/4/2005
<i>Parameters:</i>		<i>Duplicate</i>	<i>Duplicate</i>				<i>Duplicate</i>		<i>Duplicate</i>
<i>Units</i>									
<i>Metals</i>									
Barium	mg/L	0.066 J	0.065 J	0.067 J	0.066 J	0.066 J	0.060 J	0.067 J	0.066 J
Barium (Dissolved)	mg/L	0.067 J	0.063 J	0.069 J	0.065 J	0.067 J	0.064 J	0.069 J	0.069 J
Calcium	mg/L	140	134	123	140	121	122	141	135
Calcium (Dissolved)	mg/L	124	121	124	128	107	124	144	142
Chromium Total	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Chromium Total (Dissolved)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Copper	mg/L	-	-	-	0.025 U	-	-	0.025 U	0.025 U
Copper (Dissolved)	mg/L	-	-	-	0.025 U	-	-	0.025 U	0.025 U
Iron	mg/L	0.097 J	0.15	0.22	0.33	0.083 J	0.15 J	0.10 U	0.10 U
Iron (Dissolved)	mg/L	0.27	0.20	0.24	0.36	0.18	0.20	0.038 J	0.070 J
Magnesium	mg/L	33.7	32.0	30.1	30.6	30.4	30.2	35.7	34.3
Magnesium (Dissolved)	mg/L	29.3	28.6	30.3	28.2	26.4	30.6	36.3	35.8
Manganese	mg/L	0.19	0.18	0.10	0.39	0.064	0.088	0.17	0.20
Manganese (Dissolved)	mg/L	0.16	0.16	0.10	0.31	0.088	0.10	0.21	0.21
Nickel	mg/L	0.0041 J	0.0043 J	0.040 U	0.0042 J	0.0030 J	0.0026 J	0.0032 J	0.0036 J
Nickel (Dissolved)	mg/L	0.0035 J	0.0032 J	0.0026 J	0.0039 J	0.040 U	0.0030 J	0.0036 J	0.0032 J
Potassium	mg/L	3.7 J	3.6 J	3.0 J	3.1 J	2.9 J	2.6 J	2.9 J	2.9 J
Potassium (Dissolved)	mg/L	3.5 J	3.3 J	3.0 J	2.8 J	2.7 J	2.7 J	3.1 J	3.0 J
Sodium	mg/L	49.7	52.0	54.5	52.7	53.1 J	53.5	46.3	44.6
Sodium (Dissolved)	mg/L	55.5	52.6	55.5	51.9	51.7	56.2	49.1	49.2
<i>General Chemistry</i>									
Chloride	mg/L	13.2	14.4	14.8	12.9	14.6	15.6	10.5	10.2
Cyanide (total)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Sulfate	mg/L	146	135	109	109	123	110	164	164
Total Dissolved Solids (TDS)	mg/L	-	-	-	560	-	-	660	660
Total Suspended Solids (TSS)	mg/L	-	-	-	3.0 J	-	-	4.0	4.0 U
<i>Field Parameters</i>									
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	0.971	-	-	-	-	-	-	-
pH Field	S.U.	6.90	-	-	-	-	-	-	-
Temperature, Field	Deg C	13.96	-	-	-	-	-	-	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

<i>Sample Location:</i>	<i>P-12TR</i>	<i>P-12TR</i>
<i>Sample Name:</i>	WG-12616-021506-DN-08	WG-12616-081606-DN-10
<i>Sample Date:</i>	2/15/2006	8/16/2006

Parameters: *Units*

Metals

Barium	mg/L	0.071 J	0.077 J
Barium (Dissolved)	mg/L	0.069 J	0.074 J
Calcium	mg/L	140	134
Calcium (Dissolved)	mg/L	136	126
Chromium Total	mg/L	0.010 U	0.010 U
Chromium Total (Dissolved)	mg/L	0.010 U	0.010 U
Copper	mg/L	-	0.0018 J
Copper (Dissolved)	mg/L	-	0.025 U
Iron	mg/L	0.10 U	0.37
Iron (Dissolved)	mg/L	0.10 U	0.32
Magnesium	mg/L	35.9	34.2
Magnesium (Dissolved)	mg/L	34.8	31.9
Manganese	mg/L	0.082	0.28
Manganese (Dissolved)	mg/L	0.025	0.21
Nickel	mg/L	0.0033 J	0.0036 J
Nickel (Dissolved)	mg/L	0.0029 J	0.0025 J
Potassium	mg/L	2.9 J	2.9 J
Potassium (Dissolved)	mg/L	2.8 J	2.9 J
Sodium	mg/L	52.0	50.7
Sodium (Dissolved)	mg/L	52.6	52.2

General Chemistry

Chloride	mg/L	13.7	14.7
Cyanide (total)	mg/L	0.010 U	0.010 U
Sulfate	mg/L	170	156
Total Dissolved Solids (TDS)	mg/L	-	610
Total Suspended Solids (TSS)	mg/L	-	3.0 J

Field Parameters

Conductivity	mmhos/cm	-	-
Conductivity Field	mmhos/cm	-	-
pH Field	S.U.	-	-
Temperature, Field	Deg C	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		P-13	P-13	P-13	P-13	P-13	P-13	P-13	P-13
<i>Sample Name:</i>		W-12616-050300-DEN-016	GW-12616-05	GW-12616-06	GW-12616-082802-DCR-008	W-12616-112602-DEN-011	W-12616-112602-DEN-012	W-12616-022603-DEN-09	W-12616-052903-DEN-07
<i>Sample Date:</i>		5/3/2000	6/26/2002	6/26/2002 Duplicate	8/28/2002	11/26/2002	11/26/2002 Duplicate	2/26/2003	5/29/2003
<i>Parameters:</i>	<i>Units</i>								
<i>Volatile Organic Compounds</i>									
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-	-
<i>Metals</i>									
Barium	mg/L	-	0.015 J	0.015 J	0.017 J	0.019 J	0.018 J	0.017 J	0.016 J
Barium (Dissolved)	mg/L	-	0.015 J	0.016 J	0.017 J	0.018 J	0.018 J	0.015 J	0.015 J
Cadmium	mg/L	0.01 U	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	0.01 U	-	-	-	-	-	-	-
Calcium	mg/L	-	121	119	130 J	120	119	133	137
Calcium (Dissolved)	mg/L	-	121	123	125	119	118	122	128
Chromium Total	mg/L	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Chromium Total (Dissolved)	mg/L	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-13</i>	<i>P-13</i>	<i>P-13</i>	<i>P-13</i>	<i>P-13</i>	<i>P-13</i>	<i>P-13</i>	<i>P-13</i>
<i>Sample Name:</i>		<i>W-12616-050300-DEN-016</i>	<i>GW-12616-05</i>	<i>GW-12616-06</i>	<i>GW-12616-082802-DCR-008</i>	<i>W-12616-112602-DEN-011</i>	<i>W-12616-112602-DEN-012</i>	<i>W-12616-022603-DEN-09</i>	<i>W-12616-052903-DEN-07</i>
<i>Sample Date:</i>		<i>5/3/2000</i>	<i>6/26/2002</i>	<i>6/26/2002</i> <i>Duplicate</i>	<i>8/28/2002</i>	<i>11/26/2002</i>	<i>11/26/2002</i> <i>Duplicate</i>	<i>2/26/2003</i>	<i>5/29/2003</i>
<i>Parameters:</i>									
	<i>Units</i>								
Copper	mg/L	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	0.05 U	-	-	-	-	-	-	-
Iron	mg/L	-	0.91	0.95	1.1	0.91	0.85	1.3	1.2
Iron (Dissolved)	mg/L	-	0.81	0.82	0.97	0.75	0.72	0.15	0.90
Magnesium	mg/L	-	23.6	23.3	25.1	24.0	23.8	26.6	25.8
Magnesium (Dissolved)	mg/L	-	23.6	23.9	24.1	23.7	23.5	24.3	24.3
Manganese	mg/L	-	0.14	0.14	0.16	0.14	0.14	0.17	0.17
Manganese (Dissolved)	mg/L	-	0.14	0.14	0.15	0.14	0.14	0.15	0.16
Nickel	mg/L	0.01 U	0.018 J	0.017 J	0.018 J	0.053	0.051	0.021 J	0.024 J
Nickel (Dissolved)	mg/L	0.016	0.018 J	0.019 J	0.019 J	0.052	0.050	0.020 J	0.022 J
Potassium	mg/L	-	2.0 J	2.0 J	2.3 J	2.5 J	2.4 J	2.2 J	2.4 J
Potassium (Dissolved)	mg/L	-	2.0 J	2.1 J	2.2 J	2.4 J	2.4 J	2.0 J	2.3 J
Sodium	mg/L	-	35.5	35.0	37.6	41.6	40.8	37.9	37.0
Sodium (Dissolved)	mg/L	-	35.9	36.4	36.1	41.0	40.3	34.9	34.8
<i>General Chemistry</i>									
Chloride	mg/L	11	13.6	13.8	12.8	13.4	13.4	14.2	13.7
Cyanide (total)	mg/L	-	0.010 U	0.010 U	0.010 U	0.002 J	0.12	0.010 U	0.010 U
Sulfate	mg/L	96	113	113	98.8	121	121	99.8	97.9
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-	-
<i>Field Parameters</i>									
Conductivity	mmhos/cm	-	0.94	-	0.851	0.917	-	0.89	0.865
Conductivity Field	mmhos/cm	-	-	-	-	-	-	-	-
pH Field	S.U.	-	7.15	-	6.88	6.22	-	6.88	6.78
Temperature, Field	Deg C	-	12.86	-	16.79	11.77	-	3.48	15.04

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-13	P-13	P-13	P-13	P-13	P-13	P-13
Sample Name:	W-12616-38-082703-DEN-07	W-12616-38-111703-DEN-05	W-12616-38-121603-ACL-011	W-12616-38-121703-ACL-025	W-12616-38-121703-ACL-026	W-12616-022904-DEN-08	W-12616-042204-DEN-07
Sample Date:	8/27/2003	11/17/2003	12/16/2003	12/17/2003	12/17/2003 Duplicate	2/29/2004	4/22/2004
Parameters:	Units						
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	mg/L	-	-	0.001 U	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	0.001 U	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	0.001 U	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	0.001 U	-	-	-
1,1-Dichloroethane	mg/L	-	-	0.001 U	-	-	-
1,1-Dichloroethene	mg/L	-	-	0.001 U	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	0.001 U	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	0.002 U	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	0.001 U	-	-	-
1,2-Dichloroethane	mg/L	-	-	0.001 U	-	-	-
1,2-Dichloropropane	mg/L	-	-	0.001 U	-	-	-
1,4-Dioxane	mg/L	-	-	0.2 U	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	0.01 U	-	-	-
2-Hexanone	mg/L	-	-	0.01 U	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	0.01 U	-	-	-
Acetone	mg/L	-	-	0.00068 J	-	-	-
Acetonitrile	mg/L	-	-	0.02 U	-	-	-
Acrolein	mg/L	-	-	0.02 U	-	-	-
Acrylonitrile	mg/L	-	-	0.02 U	-	-	-
Allyl chloride	mg/L	-	-	0.002 U	-	-	-
Benzene	mg/L	-	-	0.001 U	-	-	-
Bromodichloromethane	mg/L	-	-	0.001 U	-	-	-
Bromoform	mg/L	-	-	0.001 U	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	0.001 U	-	-	-
Carbon disulfide	mg/L	-	-	0.001 U	-	-	-
Carbon tetrachloride	mg/L	-	-	0.001 U	-	-	-
Chlorobenzene	mg/L	-	-	0.001 U	-	-	-
Chloroethane	mg/L	-	-	0.001 U	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	0.001 U	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	0.001 U	-	-	-
Chloroprene	mg/L	-	-	0.002 U	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	0.001 U	-	-	-
Dibromochloromethane	mg/L	-	-	0.001 U	-	-	-
Dibromomethane	mg/L	-	-	0.001 U	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	0.001 U	-	-	-
Ethyl methacrylate	mg/L	-	-	0.001 U	-	-	-
Ethylbenzene	mg/L	-	-	0.001 U	-	-	-
Iodomethane	mg/L	-	-	0.001 U	-	-	-
Isobutyl alcohol	mg/L	-	-	0.05 U	-	-	-
Methyl acrylonitrile	mg/L	-	-	0.002 U	-	-	-
Methyl methacrylate	mg/L	-	-	0.002 U	-	-	-
Methylene chloride	mg/L	-	-	0.001 U	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	0.004 U	-	-	-
Styrene	mg/L	-	-	0.001 U	-	-	-
Tetrachloroethene	mg/L	-	-	0.001 U	-	-	-
Toluene	mg/L	-	-	0.001 U	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	0.001 U	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	0.001 U	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	0.001 U	-	-	-
Trichloroethene	mg/L	-	-	0.001 U	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	0.001 U	-	-	-
Vinyl acetate	mg/L	-	-	0.002 U	-	-	-
Vinyl chloride	mg/L	-	-	0.001 U	-	-	-
Xylene (total)	mg/L	-	-	0.002 U	-	-	-
Metals							
Barium	mg/L	0.018 J	0.017 J	0.017 J	-	0.018 J	-
Barium (Dissolved)	mg/L	0.017 J	0.016 J	0.017 J	-	0.017 J	-
Cadmium	mg/L	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-
Calcium	mg/L	133	133	125	-	139 J	-
Calcium (Dissolved)	mg/L	133	126	126	-	142 J	137
Chromium Total	mg/L	0.010 U	0.010 U	0.010 U	-	0.010 U	-
Chromium Total (Dissolved)	mg/L	0.010 U	0.010 U	0.010 U	-	0.010 U	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-13</i>	<i>P-13</i>	<i>P-13</i>	<i>P-13</i>	<i>P-13</i>	<i>P-13</i>	<i>P-13</i>
<i>Sample Name:</i>		W-12616-38-082703-DEN-07	W-12616-38-111703-DEN-05	W-12616-38-121603-ACL-011	W-12616-38-121703-ACL-025	W-12616-38-121703-ACL-026	W-12616-022904-DEN-08	W-12616-042204-DEN-07
<i>Sample Date:</i>		8/27/2003	11/17/2003	12/16/2003	12/17/2003	12/17/2003 <i>Duplicate</i>	2/29/2004	4/22/2004
<i>Parameters:</i>	<i>Units</i>							
Copper	mg/L	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-
Iron	mg/L	1.3	0.81	0.78	-	-	1.5 J	-
Iron (Dissolved)	mg/L	1.1	0.55	0.19	-	-	1.2 J	-
Magnesium	mg/L	25.5	24.9	24.8	-	-	26.9	-
Magnesium (Dissolved)	mg/L	25.4	23.8	25.0	-	-	27.5	-
Manganese	mg/L	0.17 J	0.15	0.17	-	-	0.19	-
Manganese (Dissolved)	mg/L	0.17	0.14	0.17	-	-	0.18	-
Nickel	mg/L	0.024 J	0.035 J	0.025 J	-	-	0.042	-
Nickel (Dissolved)	mg/L	0.023 J	0.034 J	0.025 J	-	-	0.033 J	-
Potassium	mg/L	2.5 J	2.8 J	2.5 J	-	-	2.5 J	-
Potassium (Dissolved)	mg/L	2.5 J	2.6 J	2.5 J	-	-	2.5 J	-
Sodium	mg/L	36.5	42.2	37.4	-	-	37.1	-
Sodium (Dissolved)	mg/L	36.5	40.0	37.9	-	-	38.3	-
<i>General Chemistry</i>								
Chloride	mg/L	16.3	14.0	14.3	-	-	17.5	-
Cyanide (total)	mg/L	0.010 U	0.010 U	-	0.010 U	0.010 U	0.010 U	-
Sulfate	mg/L	109	113	96.6	-	-	110	-
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-
<i>Field Parameters</i>								
Conductivity	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	0.96	0.886	-	-	-	-	-
pH Field	S.U.	6.97	7.03	-	-	-	-	-
Temperature, Field	Deg C	19.03	13.50	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-13	P-13	P-13	P-13	P-13	P-13	P-13	P-13
Sample Name:		W-12616-042204-DEN-09	W-12616-081704-DEN-08	WG-12616-101904-DEN-08	WG-12616-021605-DEN-09	WG-12616-080405-DEN-07	WG-12616-100305-DN-08	WG-12616-021506-DN-06	WG-12616-040406-DN-07
Sample Date:		4/22/2004	8/17/2004	10/19/2004	2/16/2005	8/4/2005	10/3/2005	2/15/2006	4/4/2006
Parameters:		Duplicate							
	Units								
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-	-
Metals									
Barium	mg/L	-	0.017 J	-	0.016 J	0.018 J	-	0.018 J	-
Barium (Dissolved)	mg/L	-	0.017 J	-	0.017 J	0.019 J	-	0.019 J	-
Cadmium	mg/L	-	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-	-
Calcium	mg/L	-	147	-	124	142	-	147	-
Calcium (Dissolved)	mg/L	141	151	143	136	151	144	151	147
Chromium Total	mg/L	-	0.010 U	-	0.010 U	0.010 U	-	0.010 U	-
Chromium Total (Dissolved)	mg/L	-	0.010 U	-	0.010 U	0.010 U	-	0.010 U	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-13</i>	<i>P-13</i>	<i>P-13</i>	<i>P-13</i>	<i>P-13</i>	<i>P-13</i>	<i>P-13</i>	<i>P-13</i>
<i>Sample Name:</i>		W-12616-042204-DEN-09	W-12616-081704-DEN-08	WG-12616-101904-DEN-08	WG-12616-021605-DEN-09	WG-12616-080405-DEN-07	WG-12616-100305-DN-08	WG-12616-021506-DN-06	WG-12616-040406-DN-07
<i>Sample Date:</i>		4/22/2004	8/17/2004	10/19/2004	2/16/2005	8/4/2005	10/3/2005	2/15/2006	4/4/2006
		<i>Duplicate</i>							
<i>Parameters:</i>	<i>Units</i>								
Copper	mg/L	-	0.025 U	-	-	0.025 U	-	-	-
Copper (Dissolved)	mg/L	-	0.025 U	-	-	0.025 U	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-
Iron	mg/L	-	1.8	-	1.4	1.8	-	1.6	-
Iron (Dissolved)	mg/L	-	1.3	-	1.1	1.3	-	1.2	-
Magnesium	mg/L	-	25.5	-	24.5	26.9	-	28.6	-
Magnesium (Dissolved)	mg/L	-	26.2	-	26.7	28.7	-	29.5	-
Manganese	mg/L	-	0.17	-	0.15	0.17	-	0.18	-
Manganese (Dissolved)	mg/L	-	0.17	-	0.16	0.18	-	0.19	-
Nickel	mg/L	-	0.032 J	-	0.033 J	0.036 J	-	0.043	-
Nickel (Dissolved)	mg/L	-	0.032 J	-	0.032 J	0.039 J	-	0.044	0.038 J
Potassium	mg/L	-	2.5 J	-	2.4 J	2.8 J	-	2.5 J	-
Potassium (Dissolved)	mg/L	-	2.5 J	-	2.5 J	2.9 J	-	2.6 J	-
Sodium	mg/L	-	37.6	-	36.6 J	37.8	-	39.5	-
Sodium (Dissolved)	mg/L	-	38.4	-	40.2	40.2	-	41.1	-
<i>General Chemistry</i>									
Chloride	mg/L	-	15.4	-	17.5	18.6	-	21.1	-
Cyanide (total)	mg/L	-	0.010 U	-	0.010 U	0.010 U	-	0.010 U	-
Sulfate	mg/L	-	104	-	115	124	149	129	125
Total Dissolved Solids (TDS)	mg/L	-	570	-	-	620	-	-	-
Total Suspended Solids (TSS)	mg/L	-	3.0 J	-	-	10	-	-	-
<i>Field Parameters</i>									
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	-	-	-	-	-	-	-	-
pH Field	S.U.	-	-	-	-	-	-	-	-
Temperature, Field	Deg C	-	-	-	-	-	-	-	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

<i>Sample Location:</i>	<i>P-13</i>	<i>P-13</i>
<i>Sample Name:</i>	WG-12616-081506-DN-07	WG-12616-101206-DN-07
<i>Sample Date:</i>	8/15/2006	10/12/2006

Parameters: *Units*

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	mg/L	-	-
1,1,1-Trichloroethane	mg/L	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-
1,1,2-Trichloroethane	mg/L	-	-
1,1-Dichloroethane	mg/L	-	-
1,1-Dichloroethene	mg/L	-	-
1,2,3-Trichloropropane	mg/L	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-
1,2-Dichloroethane	mg/L	-	-
1,2-Dichloropropane	mg/L	-	-
1,4-Dioxane	mg/L	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-
2-Hexanone	mg/L	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-
Acetone	mg/L	-	-
Acetonitrile	mg/L	-	-
Acrolein	mg/L	-	-
Acrylonitrile	mg/L	-	-
Allyl chloride	mg/L	-	-
Benzene	mg/L	-	-
Bromodichloromethane	mg/L	-	-
Bromoform	mg/L	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-
Carbon disulfide	mg/L	-	-
Carbon tetrachloride	mg/L	-	-
Chlorobenzene	mg/L	-	-
Chloroethane	mg/L	-	-
Chloroform (Trichloromethane)	mg/L	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-
Chloroprene	mg/L	-	-
cis-1,3-Dichloropropene	mg/L	-	-
Dibromochloromethane	mg/L	-	-
Dibromomethane	mg/L	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-
Ethyl methacrylate	mg/L	-	-
Ethylbenzene	mg/L	-	-
Iodomethane	mg/L	-	-
Isobutyl alcohol	mg/L	-	-
Methyl acrylonitrile	mg/L	-	-
Methyl methacrylate	mg/L	-	-
Methylene chloride	mg/L	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-
Styrene	mg/L	-	-
Tetrachloroethene	mg/L	-	-
Toluene	mg/L	-	-
trans-1,2-Dichloroethene	mg/L	-	-
trans-1,3-Dichloropropene	mg/L	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-
Trichloroethene	mg/L	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-
Vinyl acetate	mg/L	-	-
Vinyl chloride	mg/L	-	-
Xylene (total)	mg/L	-	-

Metals

Barium	mg/L	0.019 J	-
Barium (Dissolved)	mg/L	0.020 J	-
Cadmium	mg/L	-	-
Cadmium (Dissolved)	mg/L	-	-
Calcium	mg/L	142	-
Calcium (Dissolved)	mg/L	150	186
Chromium Total	mg/L	0.010 U	-
Chromium Total (Dissolved)	mg/L	0.010 U	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

<i>Sample Location:</i>		P-13	P-13
<i>Sample Name:</i>		WG-12616-081506-DN-07	WG-12616-101206-DN-07
<i>Sample Date:</i>		8/15/2006	10/12/2006
<i>Parameters:</i>	<i>Units</i>		
Copper	mg/L	0.025 U	-
Copper (Dissolved)	mg/L	0.025 U	-
Cyanide (total)	mg/L	-	-
Iron	mg/L	1.5	-
Iron (Dissolved)	mg/L	1.4	-
Magnesium	mg/L	28.0	-
Magnesium (Dissolved)	mg/L	29.6	-
Manganese	mg/L	0.17	-
Manganese (Dissolved)	mg/L	0.18	-
Nickel	mg/L	0.041	-
Nickel (Dissolved)	mg/L	0.043	0.049
Potassium	mg/L	2.6 J	-
Potassium (Dissolved)	mg/L	2.8 J	-
Sodium	mg/L	38.0	-
Sodium (Dissolved)	mg/L	40.4	-
<i>General Chemistry</i>			
Chloride	mg/L	22.5	-
Cyanide (total)	mg/L	0.010 U	-
Sulfate	mg/L	147	255
Total Dissolved Solids (TDS)	mg/L	610	-
Total Suspended Solids (TSS)	mg/L	8.0	-
<i>Field Parameters</i>			
Conductivity	mmhos/cm	-	-
Conductivity Field	mmhos/cm	-	-
pH Field	S.U.	-	-
Temperature, Field	Deg C	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-13T	P-13T	P-13T	P-13T	P-13T	P-13T	P-13T	P-13T
Sample Name:		W-12616-050300-DEN-017	GW-12616-07	W-12616-022603-DEN-08	W-12616-052703-DEN-07E	W-12616-052703-DEN-08E	W-12616-052903-DEN-08	W-12616-38-082703-DEN-08	W-12616-38-110403-DEN-03C
Sample Date:		5/3/2000	6/26/2002	2/26/2003	5/27/2003	5/27/2003 Duplicate	5/29/2003	8/27/2003	11/4/2003
Parameters:	Units								
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-	-
Metals									
Barium	mg/L	-	0.012 J	0.013 J	-	-	0.013 J	0.018 J	-
Barium (Dissolved)	mg/L	-	0.012 J	0.014 J	-	-	0.015 J	0.018 J	-
Cadmium	mg/L	0.01 U	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	0.01 U	-	-	-	-	-	-	-
Calcium	mg/L	-	264	455	-	-	351	327	-
Calcium (Dissolved)	mg/L	-	253	480	353	362	376	324	445
Chromium Total	mg/L	-	0.010 U	0.010 U	-	-	0.010 U	0.010 U	-
Chromium Total (Dissolved)	mg/L	0.01 U	0.010 U	0.010 U	-	-	0.010 U	0.010 U	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		P-13T	P-13T	P-13T	P-13T	P-13T	P-13T	P-13T	P-13T
<i>Sample Name:</i>		W-12616-050300-DEN-017	GW-12616-07	W-12616-022603-DEN-08	W-12616-052703-DEN-07E	W-12616-052703-DEN-08E	W-12616-052903-DEN-08	W-12616-38-082703-DEN-08	W-12616-38-110403-DEN-03C
<i>Sample Date:</i>		5/3/2000	6/26/2002	2/26/2003	5/27/2003	5/27/2003 <i>Duplicate</i>	5/29/2003	8/27/2003	11/4/2003
<i>Parameters:</i>	<i>Units</i>								
Copper	mg/L	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	0.05 U	-	-	-	-	-	-	-
Iron	mg/L	-	0.063 J	0.25	-	-	0.10 U	0.14	-
Iron (Dissolved)	mg/L	-	0.10 U	0.10 U	-	-	0.10 U	0.10 U	-
Magnesium	mg/L	-	92.4	184	-	-	114	116	-
Magnesium (Dissolved)	mg/L	-	88.2	193	126	129	122	115	154
Manganese	mg/L	-	0.049	0.82	-	-	0.0075 J	0.28 J	-
Manganese (Dissolved)	mg/L	-	0.032	0.72	-	-	0.028	0.21	-
Nickel	mg/L	0.01 U	0.063	0.22	-	-	0.080	0.097	-
Nickel (Dissolved)	mg/L	0.024	0.060	0.23	0.092	0.094	0.087	0.097	0.15
Potassium	mg/L	-	5.6	32.0	-	-	8.3	8.0	-
Potassium (Dissolved)	mg/L	-	5.3	31.1	9.4	9.5	8.9	7.4	26.0
Sodium	mg/L	-	82.9	156	-	-	101	104	-
Sodium (Dissolved)	mg/L	-	79.3	161	105	107	108	104	155
<i>General Chemistry</i>									
Chloride	mg/L	31	52.6	76.1	54.8	53.4	45.7	59.3	59.7
Cyanide (total)	mg/L	-	0.010 U	0.010 U	-	-	0.010 U	0.010 U	-
Sulfate	mg/L	126	769	1760	1200	1200	984	976	1600
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	0	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-	-
<i>Field Parameters</i>									
Conductivity	mmhos/cm	-	2.14	3.78	2.73	2.73	2.65	-	-
Conductivity Field	mmhos/cm	-	-	-	-	-	-	2.51	3.07
pH Field	S.U.	-	6.95	6.92	6.66	6.66	6.66	6.74	6.64
Temperature, Field	Deg C	-	18.32	3.59	12.47	12.47	15.97	20.90	15.22

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-13T	P-13T	P-13T	P-13T	P-13T	P-13T	P-13T
Sample Name:		W-12616-38-111703-DEN-06	W-12616-38-121603-ACL-010	W-12616-38-121703-ACL-027	W-12616-022904-DEN-09	W-12616-042204-DEN-08	W-12616-081704-DEN-07	WG-12616-101904-DEN-09
Sample Date:		11/17/2003	12/16/2003	12/17/2003	2/29/2004	4/22/2004	8/17/2004	10/19/2004
Parameters:	Units							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/L	-	0.001 U	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	0.001 U	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	0.001 U	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	0.001 U	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	0.001 U	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	0.001 U	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	0.001 U	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.002 U	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	0.001 U	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	0.001 U	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	0.001 U	-	-	-	-	-
1,4-Dioxane	mg/L	-	0.2 U	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	0.01 U	-	-	-	-	-
2-Hexanone	mg/L	-	0.01 U	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	0.01 U	-	-	-	-	-
Acetone	mg/L	-	0.01 U	-	-	-	-	-
Acetonitrile	mg/L	-	0.02 U	-	-	-	-	-
Acrolein	mg/L	-	0.02 U	-	-	-	-	-
Acrylonitrile	mg/L	-	0.02 U	-	-	-	-	-
Allyl chloride	mg/L	-	0.002 U	-	-	-	-	-
Benzene	mg/L	-	0.001 U	-	-	-	-	-
Bromodichloromethane	mg/L	-	0.001 U	-	-	-	-	-
Bromoform	mg/L	-	0.001 U	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	0.001 U	-	-	-	-	-
Carbon disulfide	mg/L	-	0.001 U	-	-	-	-	-
Carbon tetrachloride	mg/L	-	0.001 U	-	-	-	-	-
Chlorobenzene	mg/L	-	0.001 U	-	-	-	-	-
Chloroethane	mg/L	-	0.001 U	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	0.001 U	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	0.001 U	-	-	-	-	-
Chloroprene	mg/L	-	0.002 U	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	0.001 U	-	-	-	-	-
Dibromochloromethane	mg/L	-	0.001 U	-	-	-	-	-
Dibromomethane	mg/L	-	0.001 U	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	0.001 U	-	-	-	-	-
Ethyl methacrylate	mg/L	-	0.001 U	-	-	-	-	-
Ethylbenzene	mg/L	-	0.001 U	-	-	-	-	-
Iodomethane	mg/L	-	0.001 U	-	-	-	-	-
Isobutyl alcohol	mg/L	-	0.05 U	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	0.002 U	-	-	-	-	-
Methyl methacrylate	mg/L	-	0.002 U	-	-	-	-	-
Methylene chloride	mg/L	-	0.001 U	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	0.004 U	-	-	-	-	-
Styrene	mg/L	-	0.001 U	-	-	-	-	-
Tetrachloroethene	mg/L	-	0.001 U	-	-	-	-	-
Toluene	mg/L	-	0.001 U	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	0.001 U	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	0.001 U	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	0.001 U	-	-	-	-	-
Trichloroethene	mg/L	-	0.001 U	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	0.001 U	-	-	-	-	-
Vinyl acetate	mg/L	-	0.002 U	-	-	-	-	-
Vinyl chloride	mg/L	-	0.001 U	-	-	-	-	-
Xylene (total)	mg/L	-	0.002 U	-	-	-	-	-
Metals								
Barium	mg/L	0.014 J	0.014 J	-	0.030 J	-	0.044 J	-
Barium (Dissolved)	mg/L	0.014 J	0.015 J	-	0.011 J	-	0.033 J	-
Cadmium	mg/L	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-
Calcium	mg/L	524	385	-	350 J	-	343	-
Calcium (Dissolved)	mg/L	494	392	-	336 J	264	373	310
Chromium Total	mg/L	0.010 U	0.010 U	-	0.0026 J	-	0.010 U	-
Chromium Total (Dissolved)	mg/L	0.0011 J	0.010 U	-	0.010 U	-	0.010 U	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location:		P-13T	P-13T	P-13T	P-13T	P-13T	P-13T	P-13T
Sample Name:		W-12616-38-111703-DEN-06	W-12616-38-121603-ACL-010	W-12616-38-121703-ACL-027	W-12616-022904-DEN-09	W-12616-042204-DEN-08	W-12616-081704-DEN-07	WG-12616-101904-DEN-09
Sample Date:		11/17/2003	12/16/2003	12/17/2003	2/29/2004	4/22/2004	8/17/2004	10/19/2004
Parameters:	Units							
Copper	mg/L	-	-	-	-	-	0.0035 J	-
Copper (Dissolved)	mg/L	-	-	-	-	-	0.025 U	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-
Iron	mg/L	0.10 U	0.10 U	-	1.6 J	-	0.057 J	-
Iron (Dissolved)	mg/L	0.10 U	0.10 U	-	0.10 U	-	0.10 U	-
Magnesium	mg/L	151	138	-	114	-	91.0	-
Magnesium (Dissolved)	mg/L	144	141	-	110	84.7	96.1	100
Manganese	mg/L	0.66	0.037	-	0.23	-	0.69	-
Manganese (Dissolved)	mg/L	0.57	0.030	-	0.051	-	0.49	-
Nickel	mg/L	0.17	0.13	-	0.077	-	0.086	-
Nickel (Dissolved)	mg/L	0.19	0.13	-	0.069	0.045	0.084	0.13
Potassium	mg/L	38.9 J	22.0	-	10.3	-	14.2	-
Potassium (Dissolved)	mg/L	35.5	22.3	-	9.6	6.5	12.4	21.3
Sodium	mg/L	166	134	-	102	-	80.2	-
Sodium (Dissolved)	mg/L	153	136	-	98.1	76.6	87.2	81.7
General Chemistry								
Chloride	mg/L	58.7	59.5	-	51.1	39.9	35.3	43.4
Cyanide (total)	mg/L	0.079	-	0.010 U	0.010 U	-	0.010 U	-
Sulfate	mg/L	1620	1550	-	841	615	825	868
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	1600	-
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	3.0 J	-
Field Parameters								
Conductivity	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	2.96	-	-	-	-	-	-
pH Field	S.U.	6.64	-	-	-	-	-	-
Temperature, Field	Deg C	12.78	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-13T	P-13T	P-13T	P-13T	P-13T	P-13T	P-13T
Sample Name:		WG-12616-021605-DEN-08	WG-12616-033105-DEN-05	WG-12616-033105-DEN-06	WG-12616-080405-DEN-08	WG-12616-100305-DN-07	WG-12616-021506-DN-05	WG-12616-040406-DN-06
Sample Date:		2/16/2005	3/31/2005	3/31/2005 Duplicate	8/4/2005	10/3/2005	2/15/2006	4/4/2006
Parameters:	Units							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-
Metals								
Barium	mg/L	0.011 J	-	-	0.042 J	-	0.015 J	-
Barium (Dissolved)	mg/L	0.0094 J	-	-	0.035 J	-	0.014 J	-
Cadmium	mg/L	-	-	-	-	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-	-	-	-	-
Calcium	mg/L	168	-	-	288	-	208	-
Calcium (Dissolved)	mg/L	159	165	166	284	333	211	198
Chromium Total	mg/L	0.010 U	-	-	0.010 U	-	0.010 U	-
Chromium Total (Dissolved)	mg/L	0.010 U	-	-	0.010 U	-	0.010 U	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location:		P-13T	P-13T	P-13T	P-13T	P-13T	P-13T	P-13T
Sample Name:		WG-12616-021605-DEN-08	WG-12616-033105-DEN-05	WG-12616-033105-DEN-06	WG-12616-080405-DEN-08	WG-12616-100305-DN-07	WG-12616-021506-DN-05	WG-12616-040406-DN-06
Sample Date:		2/16/2005	3/31/2005	3/31/2005 Duplicate	8/4/2005	10/3/2005	2/15/2006	4/4/2006
Parameters:	Units							
Copper	mg/L	-	-	-	0.0039 J	-	-	-
Copper (Dissolved)	mg/L	-	-	-	0.0021 J	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-
Iron	mg/L	0.10 U	-	-	0.17	-	0.35	-
Iron (Dissolved)	mg/L	0.10 U	-	-	0.063 J	-	0.10 U	-
Magnesium	mg/L	59.0	-	-	91.2	-	67.9	-
Magnesium (Dissolved)	mg/L	55.5	52.3	52.3	90.6	96.4	68.7	61.3
Manganese	mg/L	0.079	-	-	0.96	-	0.25	-
Manganese (Dissolved)	mg/L	0.048	-	-	0.64	-	0.19	-
Nickel	mg/L	0.026 J	-	-	0.044	-	0.034 J	-
Nickel (Dissolved)	mg/L	0.021 J	-	-	0.041	0.084	0.035 J	-
Potassium	mg/L	5.4	-	-	7.6	-	10.5	-
Potassium (Dissolved)	mg/L	5.4	-	-	7.6	52.9	10.6	8.2
Sodium	mg/L	48.1 J	-	-	73.4	-	45.9	-
Sodium (Dissolved)	mg/L	45.2	-	-	72.8	56.6	46.6	-
General Chemistry								
Chloride	mg/L	26.6	-	-	45.1	32.3	32.7	32.6
Cyanide (total)	mg/L	0.010 U	-	-	0.010 U	-	0.010 U	-
Sulfate	mg/L	368	250	249	864	1070	469	370
Total Dissolved Solids (TDS)	mg/L	-	-	-	1700	-	-	-
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	6.0	-	-	-
Field Parameters								
Conductivity	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	-	-	-	-	-	-	-
pH Field	S.U.	-	-	-	-	-	-	-
Temperature, Field	Deg C	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>	<i>P-13T</i>	<i>P-13T</i>	<i>P-13T</i>
<i>Sample Name:</i>	WG-12616-081506-DN-08	WG-12616-101206-DN-08	WG-12616-101206-DN-09
<i>Sample Date:</i>	8/15/2006	10/12/2006	10/12/2006
			<i>Duplicate</i>

<i>Parameters:</i>	<i>Units</i>			
<i>Volatile Organic Compounds</i>				
1,1,1,2-Tetrachloroethane	mg/L	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-
1,1-Dichloroethane	mg/L	-	-	-
1,1-Dichloroethene	mg/L	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-
1,2-Dichloroethane	mg/L	-	-	-
1,2-Dichloropropane	mg/L	-	-	-
1,4-Dioxane	mg/L	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-
2-Hexanone	mg/L	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-
Acetone	mg/L	-	-	-
Acetonitrile	mg/L	-	-	-
Acrolein	mg/L	-	-	-
Acrylonitrile	mg/L	-	-	-
Allyl chloride	mg/L	-	-	-
Benzene	mg/L	-	-	-
Bromodichloromethane	mg/L	-	-	-
Bromoform	mg/L	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-
Carbon disulfide	mg/L	-	-	-
Carbon tetrachloride	mg/L	-	-	-
Chlorobenzene	mg/L	-	-	-
Chloroethane	mg/L	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-
Chloroprene	mg/L	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-
Dibromochloromethane	mg/L	-	-	-
Dibromomethane	mg/L	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-
Ethyl methacrylate	mg/L	-	-	-
Ethylbenzene	mg/L	-	-	-
Iodomethane	mg/L	-	-	-
Isobutyl alcohol	mg/L	-	-	-
Methyl acrylonitrile	mg/L	-	-	-
Methyl methacrylate	mg/L	-	-	-
Methylene chloride	mg/L	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-
Styrene	mg/L	-	-	-
Tetrachloroethene	mg/L	-	-	-
Toluene	mg/L	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-
Trichloroethene	mg/L	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-
Vinyl acetate	mg/L	-	-	-
Vinyl chloride	mg/L	-	-	-
Xylene (total)	mg/L	-	-	-
<i>Metals</i>				
Barium	mg/L	0.022 J	-	-
Barium (Dissolved)	mg/L	0.022 J	-	-
Cadmium	mg/L	-	-	-
Cadmium (Dissolved)	mg/L	-	-	-
Calcium	mg/L	177	-	-
Calcium (Dissolved)	mg/L	180	256	250
Chromium Total	mg/L	0.010 U	-	-
Chromium Total (Dissolved)	mg/L	0.010 U	-	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

<i>Sample Location:</i>		<i>P-13T</i>	<i>P-13T</i>	<i>P-13T</i>
<i>Sample Name:</i>		WG-12616-081506-DN-08	WG-12616-101206-DN-08	WG-12616-101206-DN-09
<i>Sample Date:</i>		8/15/2006	10/12/2006	10/12/2006
<i>Parameters:</i>				<i>Duplicate</i>
	<i>Units</i>			
Copper	mg/L	0.0019 J	-	-
Copper (Dissolved)	mg/L	0.025 U	-	-
Cyanide (total)	mg/L	-	-	-
Iron	mg/L	1.1	-	-
Iron (Dissolved)	mg/L	0.99	0.10 U	0.10 U
Magnesium	mg/L	54.6	-	-
Magnesium (Dissolved)	mg/L	55.0	70.7	69.2
Manganese	mg/L	0.64	-	-
Manganese (Dissolved)	mg/L	0.66	-	-
Nickel	mg/L	0.031 J	-	-
Nickel (Dissolved)	mg/L	0.032 J	-	-
Potassium	mg/L	10	-	-
Potassium (Dissolved)	mg/L	10.7	46.3	44.7
Sodium	mg/L	41.9	-	-
Sodium (Dissolved)	mg/L	42.5	-	-
<i>General Chemistry</i>				
Chloride	mg/L	23.0	-	-
Cyanide (total)	mg/L	0.010 U	-	-
Sulfate	mg/L	323	692	691
Total Dissolved Solids (TDS)	mg/L	850	-	-
Total Organic Carbon (TOC)	mg/L	-	-	-
Total Suspended Solids (TSS)	mg/L	9.0	-	-
<i>Field Parameters</i>				
Conductivity	mmhos/cm	-	-	-
Conductivity Field	mmhos/cm	-	-	-
pH Field	S.U.	-	-	-
Temperature, Field	Deg C	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>	<i>P-14</i>	<i>P-14</i>	<i>P-14</i>	<i>P-14</i>	<i>P-14</i>	<i>P-14</i>	<i>P-14</i>	<i>P-14</i>
<i>Sample Name:</i>	GW-12616-10	GW-12616-082802-DCR-011	W-12616-112602-DEN-016	W-12616-022703-DEN-13	W-12616-052903-DEN-14	W-12616-38-082703-DEN-12	W-12616-38-111803-DEN-10	W-12616-022604-DEN-12
<i>Sample Date:</i>	6/26/2002	8/28/2002	11/26/2002	2/27/2003	5/29/2003	8/27/2003	11/18/2003	2/26/2004

Parameters: Units

Metals

Barium	mg/L	0.066 J	0.070 J	0.075 J	0.075 J	0.065 J	0.065 J	0.073 J
Barium (Dissolved)	mg/L	0.066 J	0.075 J	0.071 J	0.064 J	0.069 J	0.069 J	0.067 J
Calcium	mg/L	119	124	135	134	117	129	127
Calcium (Dissolved)	mg/L	119	132 J	128	128	124	137	133
Chromium Total	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Chromium Total (Dissolved)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Copper	mg/L	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-
Iron	mg/L	1.7	1.7	1.7	6.7	6.8	2.4	8.1
Iron (Dissolved)	mg/L	1.7	1.9	1.6	1.1	2.1	2.3	2.3
Magnesium	mg/L	27.9	28.8	31.9	29.8	25.7	29.6	27.7
Magnesium (Dissolved)	mg/L	27.8	30.9	30.3	28.6	27.6	31.4	29.2
Manganese	mg/L	0.13	0.17	0.25	0.17	0.12	0.15	0.13
Manganese (Dissolved)	mg/L	0.13	0.18	0.25	0.16	0.12	0.16	0.13
Nickel	mg/L	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.0023 J	0.040 U
Nickel (Dissolved)	mg/L	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.0025 J	0.040 U
Potassium	mg/L	1.3 J	1.5 J	1.6 J	1.6 J	1.5 J	1.6 J	1.6 J
Potassium (Dissolved)	mg/L	1.3 J	1.5 J	1.5 J	1.6 J	1.4 J	1.7 J	1.8 J
Sodium	mg/L	11.8	13.0	12.0	11.5	11.0	12.3	9.7
Sodium (Dissolved)	mg/L	11.8	13.4	11.3	11.2	11.2	12.9	10.2

General Chemistry

Chloride	mg/L	10.6	9.9	6.4	11.7	14.2	8.6	10.2
Cyanide (total)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Sulfate	mg/L	96.3	85.3	100	83.8	84.7	91.8	80.8
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-

Field Parameters

Conductivity	mmhos/cm	0.967	0.81	0.867	0.806	0.833	-	-
Conductivity Field	mmhos/cm	-	-	-	-	-	0.89	-
pH Field	S.U.	7.14	6.77	7.16	7.28	6.95	6.98	-
Temperature, Field	Deg C	13.12	20.78	11.04	5.09	15.60	13.69	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>	<i>P-14</i>	<i>P-14</i>	<i>P-14</i>	<i>P-14</i>	<i>P-14</i>
<i>Sample Name:</i>	W-12616-081804-DEN-12	WG-12616-021605-DEN-14	WG-12616-080405-DEN-12	WG-12616-021506-DN-09	WG-12616-081606-DN-11
<i>Sample Date:</i>	8/18/2004	2/16/2005	8/4/2005	2/15/2006	8/16/2006

Parameters: Units

Metals

Barium	mg/L	0.070 J	0.061 J	0.068 J	0.067 J	0.064 J
Barium (Dissolved)	mg/L	0.069 J	0.060 J	0.064 J	0.063 J	0.068 J
Calcium	mg/L	127	130	132	124	117
Calcium (Dissolved)	mg/L	128	133	123	125	125
Chromium Total	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Chromium Total (Dissolved)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Copper	mg/L	0.025 U	-	0.025 U	-	0.025 U
Copper (Dissolved)	mg/L	0.025 U	-	0.025 U	-	0.025 U
Iron	mg/L	2.9	4.1	2.5	4.5	2.8
Iron (Dissolved)	mg/L	2.2	2.0	2.0	1.5	2.0
Magnesium	mg/L	28.6	29.5	29.4	27.3	27.2
Magnesium (Dissolved)	mg/L	29.0	30.1	27.5	27.6	29.2
Manganese	mg/L	0.16	0.12	0.15	0.14	0.14
Manganese (Dissolved)	mg/L	0.16	0.12	0.14	0.13	0.15
Nickel	mg/L	0.0035 J	0.040 U	0.040 U	0.040 U	0.040 U
Nickel (Dissolved)	mg/L	0.0026 J	0.040 U	0.040 U	0.040 U	0.0015 J
Potassium	mg/L	1.6 J	1.4 J	1.6 J	1.4 J	1.4 J
Potassium (Dissolved)	mg/L	1.6 J	1.5 J	1.5 J	1.5 J	1.5 J
Sodium	mg/L	11.2	9.3	11.0	8.5	10.1
Sodium (Dissolved)	mg/L	11.3	9.5	10.9	8.5	11.2

General Chemistry

Chloride	mg/L	6.3	11.0	8.3	11.4	8.3
Cyanide (total)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Sulfate	mg/L	86.2	90.8	93.5	105	96.0
Total Dissolved Solids (TDS)	mg/L	500	-	540	-	480
Total Suspended Solids (TSS)	mg/L	3.0 J	-	7.0	-	9.0

Field Parameters

Conductivity	mmhos/cm	-	-	-	-	-
Conductivity Field	mmhos/cm	-	-	-	-	-
pH Field	S.U.	-	-	-	-	-
Temperature, Field	Deg C	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-14T</i>	<i>P-14T</i>	<i>P-14T</i>	<i>P-14T</i>	<i>P-14T</i>	<i>P-14T</i>	<i>P-14T</i>	<i>P-14T</i>
<i>Sample Name:</i>		GW-12616-11	GW-12616-082802-DCR-012	W-12616-112602-DEN-015	W-12616-022703-DEN-12	W-12616-052903-DEN-12	W-12616-052903-DEN-13	W-12616-38-082703-DEN-13	W-12616-38-111803-DEN-11
<i>Sample Date:</i>		6/26/2002	8/28/2002	11/26/2002	2/27/2003	5/29/2003	5/29/2003 <i>Duplicate</i>	8/27/2003	11/18/2003
<i>Parameters:</i>	<i>Units</i>								
<i>Metals</i>									
Barium	mg/L	0.047 J	0.049 J	0.040 J	0.049 J	0.029 J	0.032 J	0.046 J	0.049 J
Barium (Dissolved)	mg/L	0.046 J	0.047 J	0.038 J	0.047 J	0.032 J	0.032 J	0.046 J	0.049 J
Calcium	mg/L	119	118	120	135	114	123	126	127
Calcium (Dissolved)	mg/L	117	117 J	115	136	122	121	129	127
Chromium Total	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Chromium Total (Dissolved)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Copper	mg/L	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-	-
Iron	mg/L	0.10 U	0.10 U	0.049 J	0.39	0.10 U	0.10 U	0.10 U	0.10 U
Iron (Dissolved)	mg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Magnesium	mg/L	24.0	24.4	24.0	25.7	22.3	23.7	23.3	20.6
Magnesium (Dissolved)	mg/L	23.7	24.0	22.9	25.4	23.7	23.0	23.6	20.7
Manganese	mg/L	0.49	0.85	0.40	0.78	0.54	0.58	1.3 J	0.30
Manganese (Dissolved)	mg/L	0.48	0.83	0.32	0.32	0.58	0.59	1.2	0.32
Nickel	mg/L	0.0044 J	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.0068 J	0.040 U
Nickel (Dissolved)	mg/L	0.0043 J	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.0042 J	0.040 U
Potassium	mg/L	3.3 J	3.6 J	2.4 J	2.8 J	1.7 J	1.8 J	3.0 J	2.8 J
Potassium (Dissolved)	mg/L	3.2 J	3.6 J	2.3 J	2.6 J	1.8 J	1.8 J	3.0 J	2.8 J
Sodium	mg/L	11.3	11.0	9.4	11.0	7.8	8.2	17.6	30.5
Sodium (Dissolved)	mg/L	10.8	10.8	8.6	11.1	8.2	8.1	19.4	30.0
<i>General Chemistry</i>									
Chloride	mg/L	3.0	3.3	3.4	3.0	3.2	3.2	3.8	3.4
Cyanide (total)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Sulfate	mg/L	87.0	62.8	66.8	69.8	75.4	74.7	87.5	92.7
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-	-
<i>Field Parameters</i>									
Conductivity	mmhos/cm	0.92	0.632	0.739	0.758	0.741	0.741	-	-
Conductivity Field	mmhos/cm	-	-	-	-	-	-	0.871	0.768
pH Field	S.U.	7.1	3.58	7.23	6.84	6.73	6.73	6.87	6.84
Temperature, Field	Deg C	18.37	17.87	10.74	6.31	15.21	15.21	19.51	13.60

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-14T</i>	<i>P-14T</i>	<i>P-14T</i>	<i>P-14T</i>	<i>P-14T</i>	<i>P-14T</i>	<i>P-14T</i>	<i>P-14T</i>
<i>Sample Name:</i>		W-12616-022604-DEN-13	W-12616-081804-DEN-13	WG-12616-021605-DEN-13	WG-12616-080405-DEN-13	WG-12616-021706-DN-10	WG-12616-021706-DN-11	WG-12616-081606-DN-12	WG-12616-081606-DN-13
<i>Sample Date:</i>		2/26/2004	8/18/2004	2/16/2005	8/4/2005	2/17/2006	2/17/2006 <i>Duplicate</i>	8/16/2006	8/16/2006 <i>Duplicate</i>
<i>Parameters:</i>	<i>Units</i>								
<i>Metals</i>									
Barium	mg/L	0.033 J	0.041 J	0.028 J	0.030 J	0.027 J	0.027 J	0.025 J	0.029 J
Barium (Dissolved)	mg/L	0.031 J	0.038 J	0.027 J	0.028 J	0.024 J	0.024 J	0.024 J	0.024 J
Calcium	mg/L	128	137	141	113	121	120	113	121
Calcium (Dissolved)	mg/L	125	135	146	118	117	121	118	120
Chromium Total	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Chromium Total (Dissolved)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Copper	mg/L	-	0.025 U	-	0.025 U	-	-	0.025 U	0.025 U
Copper (Dissolved)	mg/L	-	0.025 U	-	0.025 U	-	-	0.025 U	0.025 U
Iron	mg/L	0.10 U	0.10 U	0.10 U	0.092 J	0.094 J	0.074 J	0.20	0.27
Iron (Dissolved)	mg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Magnesium	mg/L	24.4	25.0	30.0	22.4	23.9	23.4	20.7	24.0
Magnesium (Dissolved)	mg/L	24.0	24.5	31.1	23.2	23.1	24.2	22.0	22.3
Manganese	mg/L	0.45	1.8	0.66	1.1	0.80	0.94	1.5	1.5
Manganese (Dissolved)	mg/L	0.25	1.2	0.24	0.50	0.18	0.19	0.74	0.72
Nickel	mg/L	0.040 U	0.0032 J	0.040 U	0.040 U	0.0019 J	0.040 U	0.040 U	0.0021 J
Nickel (Dissolved)	mg/L	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.0017 J
Potassium	mg/L	1.2 J	2.6 J	1.4 J	1.7 J	1.3 J	1.2 J	1.5 J	1.9 J
Potassium (Dissolved)	mg/L	1.2 J	2.3 J	1.5 J	1.8 J	1.2 J	1.2 J	1.5 J	1.6 J
Sodium	mg/L	11.8	26.3	10.1	8.7	13.1	13.0	25.6	21.1
Sodium (Dissolved)	mg/L	10.9	24.8	10.6	9.3	12.4	12.4	24.6	24.7
<i>General Chemistry</i>									
Chloride	mg/L	3.0	3.4	4.6	6.6	5.7	5.8	5.7	6.6
Cyanide (total)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Sulfate	mg/L	83.7 J	94.7	77.1	52.8	70.5	67.6	87.2	88.3
Total Dissolved Solids (TDS)	mg/L	-	520	-	460	-	-	480	470
Total Suspended Solids (TSS)	mg/L	-	3.0 J	-	4.0 U	-	-	5.0	7.0
<i>Field Parameters</i>									
Conductivity	mmhos/cm	-	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	-	-	-	-	-	-	-	-
pH Field	S.U.	-	-	-	-	-	-	-	-
Temperature, Field	Deg C	-	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:	P-16	P-16	P-16	P-16	P-16	P-16	P-16	P-16
Sample Name:	GW-12616-04	GW-12616-082702-DCR-004	W-12616-112502-DEN-04	W-12616-022603-DEN-05	W-12616-052703-DEN-03E	W-12616-052803-DEN-03	W-12616-38-082603-DEN-03	W-12616-38-110403-DEN-01C
Sample Date:	6/25/2002	8/27/2002	11/25/2002	2/26/2003	5/27/2003	5/28/2003	8/26/2003	11/4/2003
Parameters:	Units							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-
Metals								
Barium	mg/L	0.15 J	0.13 J	0.12 J	0.083 J	-	0.080 J	0.085 J
Barium (Dissolved)	mg/L	0.15 J	0.13 J	0.11 J	0.087 J	-	0.085 J	0.082 J
Calcium	mg/L	152	175 J	214	187	-	204	208
Calcium (Dissolved)	mg/L	151	175	194	199	-	217	203
Chromium Total	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	-	0.010 U	0.010 U
Chromium Total (Dissolved)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	-	0.010 U	0.010 U
Copper	mg/L	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-16</i>	<i>P-16</i>	<i>P-16</i>	<i>P-16</i>	<i>P-16</i>	<i>P-16</i>	<i>P-16</i>	<i>P-16</i>
<i>Sample Name:</i>		<i>GW-12616-04</i>	<i>GW-12616-082702-DCR-004</i>	<i>W-12616-112502-DEN-04</i>	<i>W-12616-022603-DEN-05</i>	<i>W-12616-052703-DEN-03E</i>	<i>W-12616-052803-DEN-03</i>	<i>W-12616-38-082603-DEN-03</i>	<i>W-12616-38-110403-DEN-01C</i>
<i>Sample Date:</i>		<i>6/25/2002</i>	<i>8/27/2002</i>	<i>11/25/2002</i>	<i>2/26/2003</i>	<i>5/27/2003</i>	<i>5/28/2003</i>	<i>8/26/2003</i>	<i>11/4/2003</i>
<i>Parameters:</i>	<i>Units</i>								
Iron	mg/L	0.43	0.30	2.0	1.3	-	1.9	2.2	-
Iron (Dissolved)	mg/L	0.088 J	0.22	1.6	0.59	-	1.4	1.7	-
Magnesium	mg/L	45.9	53.0	62.9	57.8	-	61.3	62.3	-
Magnesium (Dissolved)	mg/L	45.7	52.8	56.9	61.8	62.9	65.4	60.9	59.6
Manganese	mg/L	0.15	0.25	0.29	0.27	-	0.26	0.24 J	-
Manganese (Dissolved)	mg/L	0.15	0.24	0.25	0.27	-	0.28	0.23	-
Nickel	mg/L	0.095	0.12	0.17	0.12	-	0.13	0.16	-
Nickel (Dissolved)	mg/L	0.089	0.12	0.16	0.12	0.13	0.14	0.15	0.16
Potassium	mg/L	6.4	5.7	5.3	3.1 J	-	3.1 J	3.1 J	-
Potassium (Dissolved)	mg/L	6.6	5.6	4.8 J	3.3 J	-	3.4 J	3.0 J	-
Sodium	mg/L	52.6	56.8	73.4	56.2	-	60.6	63.4	-
Sodium (Dissolved)	mg/L	51.0	58.6	69.2	60.5	-	66.0	61.7	-
<i>General Chemistry</i>									
Chloride	mg/L	82.2	70.4	74.4	73.8	72.4	71.6	87.1	87.0
Cyanide (total)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	-	0.010 U	0.010 U	-
Sulfate	mg/L	290	308	303	366	397	377	380	377
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-	-
<i>Field Parameters</i>									
Conductivity	mmhos/cm	9.57	1.205	1.51	1.53	1.61	1.46	-	-
Conductivity Field	mmhos/cm	-	-	-	-	-	-	1.63	1.51
pH Field	S.U.	8.41	6.98	6.2	6.89	6.81	6.92	6.91	6.89
Temperature, Field	Deg C	16.78	17.67	11.4	8.18	11.81	15.50	18.14	16.55

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-16	P-16	P-16	P-16	P-16	P-16	P-16
Sample Name:		W-12616-38-111703-DEN-02	W-12616-38-121503-DEN-04	W-12616-38-121503-DEN-05	W-12616-38-121703-ACL-023	W-12616-011404-DEN-06C	W-12616-011404-DEN-06S	W-12616-022504-DEN-04
Sample Date:		11/17/2003	12/15/2003	12/15/2003	12/17/2003	1/14/2004	1/14/2004	2/25/2004
Parameters:		Duplicate						
	Units							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/L	-	0.001 U	0.001 U	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	0.001 U	0.001 U	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	0.001 U	0.001 U	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	0.001 U	0.001 U	-	-	-	-
1,1-Dichloroethane	mg/L	-	0.001 U	0.001 U	-	-	-	-
1,1-Dichloroethene	mg/L	-	0.001 U	0.001 U	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	0.001 U	0.001 U	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.002 U	0.002 U	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	0.001 U	0.001 U	-	-	-	-
1,2-Dichloroethane	mg/L	-	0.001 U	0.001 U	-	-	-	-
1,2-Dichloropropane	mg/L	-	0.001 U	0.001 U	-	-	-	-
1,4-Dioxane	mg/L	-	0.2 U	0.2 U	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	0.01 U	0.01 U	-	-	-	-
2-Hexanone	mg/L	-	0.01 U	0.01 U	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	0.01 U	0.01 U	-	-	-	-
Acetone	mg/L	-	0.0011 J	0.01 U	-	-	0.01 U	-
Acetonitrile	mg/L	-	0.02 U	0.02 U	-	-	-	-
Acrolein	mg/L	-	0.02 U	0.02 U	-	-	-	-
Acrylonitrile	mg/L	-	0.02 U	0.02 U	-	-	-	-
Allyl chloride	mg/L	-	0.002 U	0.002 U	-	-	-	-
Benzene	mg/L	-	0.001 U	0.001 U	-	-	-	-
Bromodichloromethane	mg/L	-	0.001 U	0.001 U	-	-	-	-
Bromoform	mg/L	-	0.001 U	0.001 U	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	0.001 U	0.001 U	-	-	-	-
Carbon disulfide	mg/L	-	0.001 U	0.001 U	-	-	-	-
Carbon tetrachloride	mg/L	-	0.001 U	0.001 U	-	-	-	-
Chlorobenzene	mg/L	-	0.001 U	0.001 U	-	-	-	-
Chloroethane	mg/L	-	0.001 U	0.001 U	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	0.001 U	0.001 U	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	0.001 U	0.001 U	-	-	-	-
Chloroprene	mg/L	-	0.002 U	0.002 U	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	0.001 U	0.001 U	-	-	-	-
Dibromochloromethane	mg/L	-	0.001 U	0.001 U	-	-	-	-
Dibromomethane	mg/L	-	0.001 U	0.001 U	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	0.001 U	0.001 U	-	-	-	-
Ethyl methacrylate	mg/L	-	0.001 U	0.001 U	-	-	-	-
Ethylbenzene	mg/L	-	0.001 U	0.001 U	-	-	-	-
Iodomethane	mg/L	-	0.001 U	0.001 U	-	-	-	-
Isobutyl alcohol	mg/L	-	0.05 U	0.05 U	-	-	-	-
Methyl acrylonitrile	mg/L	-	0.002 U	0.002 U	-	-	-	-
Methyl methacrylate	mg/L	-	0.002 U	0.002 U	-	-	-	-
Methylene chloride	mg/L	-	0.001 U	0.001 U	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	0.004 U	0.004 U	-	-	-	-
Styrene	mg/L	-	0.001 U	0.001 U	-	-	-	-
Tetrachloroethene	mg/L	-	0.001 U	0.001 U	-	-	-	-
Toluene	mg/L	-	0.001 U	0.001 U	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	0.001 U	0.001 U	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	0.001 U	0.001 U	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	0.001 U	0.001 U	-	-	-	-
Trichloroethene	mg/L	-	0.001 U	0.001 U	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	0.001 U	0.001 U	-	-	-	-
Vinyl acetate	mg/L	-	0.002 U	0.002 U	-	-	-	-
Vinyl chloride	mg/L	-	0.001 U	0.001 U	-	-	-	-
Xylene (total)	mg/L	-	0.002 U	0.002 U	-	-	-	-
Metals								
Barium	mg/L	0.075 J	0.088 J	0.084 J	-	-	0.081 J	0.079 J
Barium (Dissolved)	mg/L	0.076 J	0.090 J	0.083 J	-	-	0.076 J	0.074 J
Calcium	mg/L	202	204	198	-	-	-	244
Calcium (Dissolved)	mg/L	204	209	191	-	242	-	235
Chromium Total	mg/L	0.010 U	0.010 U	0.010 U	-	-	-	0.010 U
Chromium Total (Dissolved)	mg/L	0.010 U	0.0012 J	0.010 U	-	-	0.0012 J	0.010 U
Copper	mg/L	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-16</i>	<i>P-16</i>	<i>P-16</i>	<i>P-16</i>	<i>P-16</i>	<i>P-16</i>	<i>P-16</i>
<i>Sample Name:</i>		<i>W-12616-38-111703-DEN-02</i>	<i>W-12616-38-121503-DEN-04</i>	<i>W-12616-38-121503-DEN-05</i>	<i>W-12616-38-121703-ACL-023</i>	<i>W-12616-011404-DEN-06C</i>	<i>W-12616-011404-DEN-06S</i>	<i>W-12616-022504-DEN-04</i>
<i>Sample Date:</i>		<i>11/17/2003</i>	<i>12/15/2003</i>	<i>12/15/2003</i>	<i>12/17/2003</i>	<i>1/14/2004</i>	<i>1/14/2004</i>	<i>2/25/2004</i>
<i>Parameters:</i>				<i>Duplicate</i>				
<i>Units</i>								
Iron	mg/L	2.0	1.6	1.5	-	-	-	2.4
Iron (Dissolved)	mg/L	1.9	1.7	1.5	-	-	-	0.93
Magnesium	mg/L	57.2	63.7	61.9	-	-	-	72.6
Magnesium (Dissolved)	mg/L	57.6	64.5	59.3	-	71.9	-	70.2
Manganese	mg/L	0.20	0.19	0.19	-	-	-	0.26
Manganese (Dissolved)	mg/L	0.20	0.19	0.18	-	-	-	0.25
Nickel	mg/L	0.15	0.17	0.16	-	-	0.13	0.14
Nickel (Dissolved)	mg/L	0.16	0.18	0.16	-	0.14	0.13	0.13
Potassium	mg/L	3.3 J	3.2 J	3.1 J	-	-	-	3.0 J
Potassium (Dissolved)	mg/L	3.2 J	3.2 J	3.0 J	-	-	-	2.9 J
Sodium	mg/L	67.9	71.2	68.4	-	-	-	70.6
Sodium (Dissolved)	mg/L	68.2	73.7	67.8	-	-	-	69.2
<i>General Chemistry</i>								
Chloride	mg/L	76.7	75.3	75.3	-	73.4	-	68.5
Cyanide (total)	mg/L	0.010 U	-	-	0.010 U	-	-	0.010 U
Sulfate	mg/L	387	375	373	-	447	-	443
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-
<i>Field Parameters</i>								
Conductivity	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	1.47	1.60	-	-	-	-	-
pH Field	S.U.	6.92	7.01	-	-	-	-	-
Temperature, Field	Deg C	13.14	10.25	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-16	P-16	P-16	P-16	P-16	P-16	P-16
Sample Name:		W-12616-042204-DEN-03	W-12616-081704-DEN-03	WG-12616-101904-DEN-04	WG-12616-021505-DEN-04	WG-12616-033105-DEN-02	WG-12616-080305-DEN-04	WG-12616-100305-DN-03
Sample Date:		4/22/2004	8/17/2004	10/19/2004	2/15/2005	3/31/2005	8/3/2005	10/3/2005
Parameters:	Units							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-
Metals								
Barium	mg/L	-	0.071 J	-	0.066 J	-	0.065 J	-
Barium (Dissolved)	mg/L	-	0.067 J	-	0.061 J	-	0.061 J	-
Calcium	mg/L	-	263	-	231	-	225	-
Calcium (Dissolved)	mg/L	220	248	216	220	246	219	215
Chromium Total	mg/L	-	0.010 U	-	0.010 U	-	0.010 U	-
Chromium Total (Dissolved)	mg/L	-	0.010 U	-	0.010 U	-	0.010 U	-
Copper	mg/L	-	0.025 U	-	-	-	0.025 U	-
Copper (Dissolved)	mg/L	-	0.025 U	-	-	-	0.025 U	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-16</i>	<i>P-16</i>	<i>P-16</i>	<i>P-16</i>	<i>P-16</i>	<i>P-16</i>	<i>P-16</i>
<i>Sample Name:</i>		<i>W-12616-042204-DEN-03</i>	<i>W-12616-081704-DEN-03</i>	<i>WG-12616-101904-DEN-04</i>	<i>WG-12616-021505-DEN-04</i>	<i>WG-12616-033105-DEN-02</i>	<i>WG-12616-080305-DEN-04</i>	<i>WG-12616-100305-DN-03</i>
<i>Sample Date:</i>		<i>4/22/2004</i>	<i>8/17/2004</i>	<i>10/19/2004</i>	<i>2/15/2005</i>	<i>3/31/2005</i>	<i>8/3/2005</i>	<i>10/3/2005</i>
<i>Parameters:</i>	<i>Units</i>							
Iron	mg/L	-	3.3	-	3.1	-	4.5	-
Iron (Dissolved)	mg/L	-	2.4	2.2	1.1	-	2.1	-
Magnesium	mg/L	-	65.8	-	72.6	-	67.6	-
Magnesium (Dissolved)	mg/L	65.0	62.9	65.5	68.7	74.5	65.4	65.5
Manganese	mg/L	-	0.22	-	0.16	-	0.17	-
Manganese (Dissolved)	mg/L	-	0.21	-	0.17	-	0.17	-
Nickel	mg/L	-	0.17	-	0.12	-	0.17	-
Nickel (Dissolved)	mg/L	0.10	0.17	0.19	0.11	0.11	0.18	0.18
Potassium	mg/L	-	2.8 J	-	2.7 J	-	2.8 J	-
Potassium (Dissolved)	mg/L	-	2.6 J	-	2.5 J	-	2.7 J	-
Sodium	mg/L	-	65.4	-	67.1 J	-	64.3	-
Sodium (Dissolved)	mg/L	-	63.2	-	64.5	-	65.8	-
<i>General Chemistry</i>								
Chloride	mg/L	69.5	73.7	79.1	65.4	62.4	77.8	76.5
Cyanide (total)	mg/L	-	0.010 U	-	0.010 U	-	0.010 U	-
Sulfate	mg/L	468	412	398	496	517	453	444
Total Dissolved Solids (TDS)	mg/L	-	1200	-	-	-	1200	-
Total Suspended Solids (TSS)	mg/L	-	9.0 J	-	-	-	130	-
<i>Field Parameters</i>								
Conductivity	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	-	-	-	-	-	-	-
pH Field	S.U.	-	-	-	-	-	-	-
Temperature, Field	Deg C	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-16	P-16	P-16	P-16
Sample Name:		WG-12616-021506-DN-01	WG-12616-040406-DN-02	WG-12616-081506-DN-04	WG-12616-101206-DN-03
Sample Date:		2/15/2006	4/4/2006	8/15/2006	10/12/2006
Parameters:	Units				
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-
2-Hexanone	mg/L	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-
Acetone	mg/L	-	-	-	-
Acetonitrile	mg/L	-	-	-	-
Acrolein	mg/L	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-
Allyl chloride	mg/L	-	-	-	-
Benzene	mg/L	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-
Bromoform	mg/L	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-
Chloroethane	mg/L	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-
Chloroprene	mg/L	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-
Dibromomethane	mg/L	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-
Iodomethane	mg/L	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-
Methylene chloride	mg/L	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-
Styrene	mg/L	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-
Toluene	mg/L	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-
Trichloroethene	mg/L	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-
Xylene (total)	mg/L	-	-	-	-
Metals					
Barium	mg/L	0.068 J	-	0.065 J	-
Barium (Dissolved)	mg/L	0.059 J	-	0.063 J	-
Calcium	mg/L	246	-	238	-
Calcium (Dissolved)	mg/L	230	250	237	217
Chromium Total	mg/L	0.010 U	-	0.010 U	-
Chromium Total (Dissolved)	mg/L	0.010 U	-	0.010 U	-
Copper	mg/L	-	-	0.0026 J	-
Copper (Dissolved)	mg/L	-	-	0.025 U	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location:		P-16	P-16	P-16	P-16
Sample Name:		WG-12616-021506-DN-01	WG-12616-040406-DN-02	WG-12616-081506-DN-04	WG-12616-101206-DN-03
Sample Date:		2/15/2006	4/4/2006	8/15/2006	10/12/2006
Parameters:	Units				
Iron	mg/L	6.3	-	3.2	-
Iron (Dissolved)	mg/L	1.5	-	2.7	2.3
Magnesium	mg/L	76.9	-	73.1	-
Magnesium (Dissolved)	mg/L	71.5	71.6	72.4	67.2
Manganese	mg/L	0.21	-	0.18	-
Manganese (Dissolved)	mg/L	0.18	-	0.18	-
Nickel	mg/L	0.12	-	0.19	-
Nickel (Dissolved)	mg/L	0.13	0.12	0.19	0.20
Potassium	mg/L	2.7 J	-	2.6 J	-
Potassium (Dissolved)	mg/L	2.5 J	-	2.6 J	-
Sodium	mg/L	71.4	-	65.3	-
Sodium (Dissolved)	mg/L	67.1	-	68.2	-
<i>General Chemistry</i>					
Chloride	mg/L	75.4	75.4	71.3	90.2
Cyanide (total)	mg/L	0.010 U	-	0.010 U	-
Sulfate	mg/L	511	513	489	440
Total Dissolved Solids (TDS)	mg/L	-	-	1200	-
Total Suspended Solids (TSS)	mg/L	-	-	8.0	-
<i>Field Parameters</i>					
Conductivity	mmhos/cm	-	-	-	-
Conductivity Field	mmhos/cm	-	-	-	-
pH Field	S.U.	-	-	-	-
Temperature, Field	Deg C	-	-	-	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location:	P-16T	P-16T	P-16T	P-16T	P-16T	P-16T	P-16T	P-16T
Sample Name:	GW-12616-03	GW-12616-082702-DCR-005	W-12616-112502-DEN-03	W-12616-022603-DEN-04	W-12616-052703-DEN-04E	W-12616-052803-DEN-04	W-12616-38-082603-DEN-04	W-12616-38-110403-DEN-02C
Sample Date:	6/25/2002	8/27/2002	11/25/2002	2/26/2003	5/27/2003	5/28/2003	8/26/2003	11/4/2003
Parameters:	Units							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-
Metals								
Barium	mg/L	0.082 J	0.067 J	0.048 J	0.042 J	-	0.036 J	0.038 J
Barium (Dissolved)	mg/L	0.084 J	0.061 J	0.051 J	0.038 J	-	0.036 J	0.038 J
Calcium	mg/L	224	241 J	335	289	-	283	248
Calcium (Dissolved)	mg/L	231	235	349	266	285	283	253
Chromium Total	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	-	0.010 U	0.010 U
Chromium Total (Dissolved)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	-	0.010 U	0.010 U
Copper	mg/L	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-16T</i>	<i>P-16T</i>	<i>P-16T</i>	<i>P-16T</i>	<i>P-16T</i>	<i>P-16T</i>	<i>P-16T</i>	<i>P-16T</i>
<i>Sample Name:</i>		GW-12616-03	GW-12616-082702-DCR-005	W-12616-112502-DEN-03	W-12616-022603-DEN-04	W-12616-052703-DEN-04E	W-12616-052803-DEN-04	W-12616-38-082603-DEN-04	W-12616-38-110403-DEN-02C
<i>Sample Date:</i>		6/23/2002	8/27/2002	11/23/2002	2/26/2003	5/27/2003	5/28/2003	8/26/2003	11/4/2003
<i>Parameters:</i>	<i>Units</i>								
Iron	mg/L	0.60	4.3	0.10 U	0.11	-	0.10 U	0.10 U	-
Iron (Dissolved)	mg/L	0.32	4.0	0.10 U	0.10 U	-	0.10 U	0.10 U	-
Magnesium	mg/L	65.0	70.7	85.3	80.3	-	75.9	68.8	-
Magnesium (Dissolved)	mg/L	67.0	69.4	89.1	73.8	77.7	75.5	70.0	66.9
Manganese	mg/L	0.27	0.43	0.72	0.17	-	0.047	0.061 J	-
Manganese (Dissolved)	mg/L	0.27	0.44	0.71	0.15	-	0.056	0.081	-
Nickel	mg/L	0.049	0.076	0.11	0.062	-	0.062	0.056	-
Nickel (Dissolved)	mg/L	0.048	0.082	0.12	0.059	0.063	0.060	0.057	0.053
Potassium	mg/L	4.9 J	4.2 J	5.2	2.9 J	-	2.9 J	2.6 J	-
Potassium (Dissolved)	mg/L	5.2	4.2 J	5.5	2.7 J	-	2.9 J	2.7 J	-
Sodium	mg/L	29.4	29.3	31.9	30.7	-	30.5	28.7	-
Sodium (Dissolved)	mg/L	30.6	29.8	34.5	28.4	-	30.2	29.0	-
<i>General Chemistry</i>									
Chloride	mg/L	48.9	43.3	50.6	41.5	39.0	37.8	44.8	45.8
Cyanide (total)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	-	0.010 U	0.010 U	-
Sulfate	mg/L	550	507	701	659	-	651	608	517
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-	-
<i>Field Parameters</i>									
Conductivity	mmhos/cm	1.5	1.55	1.81	1.76	1.61	1.85	-	-
Conductivity Field	mmhos/cm	-	-	-	-	-	-	1.62	1.49
pH Field	S.U.	7.67	6.76	6.99	7.41	6.66	6.73	6.89	6.88
Temperature, Field	Deg C	18.87	18.91	11.67	5.23	14.91	18.70	21.09	19.07

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-16T	P-16T	P-16T	P-16T	P-16T	P-16T	P-16T
Sample Name:		W-12616-38-111703-DEN-01	W-12616-38-121503-DEN-03	W-12616-38-121703-ACL-024	W-12616-011404-DEN-05C	W-12616-011404-DEN-05S	W-12616-022504-DEN-03	W-12616-042204-DEN-04
Sample Date:		11/17/2003	12/15/2003	12/17/2003	1/14/2004	1/14/2004	2/25/2004	4/22/2004
Parameters:	Units							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/L	-	0.001 U	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	0.001 U	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	0.001 U	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	0.001 U	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	0.001 U	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	0.001 U	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	0.001 U	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.002 U	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	0.001 U	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	0.001 U	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	0.001 U	-	-	-	-	-
1,4-Dioxane	mg/L	-	0.2 U	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	0.01 U	-	-	-	-	-
2-Hexanone	mg/L	-	0.01 U	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	0.01 U	-	-	-	-	-
Acetone	mg/L	-	0.001 J	-	-	0.01 U	-	-
Acetonitrile	mg/L	-	0.02 U	-	-	-	-	-
Acrolein	mg/L	-	0.02 U	-	-	-	-	-
Acrylonitrile	mg/L	-	0.02 U	-	-	-	-	-
Allyl chloride	mg/L	-	0.002 U	-	-	-	-	-
Benzene	mg/L	-	0.001 U	-	-	-	-	-
Bromodichloromethane	mg/L	-	0.001 U	-	-	-	-	-
Bromoform	mg/L	-	0.001 U	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	0.001 U	-	-	-	-	-
Carbon disulfide	mg/L	-	0.001 U	-	-	-	-	-
Carbon tetrachloride	mg/L	-	0.001 U	-	-	-	-	-
Chlorobenzene	mg/L	-	0.001 U	-	-	-	-	-
Chloroethane	mg/L	-	0.001 U	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	0.001 U	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	0.001 U	-	-	-	-	-
Chloroprene	mg/L	-	0.002 U	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	0.001 U	-	-	-	-	-
Dibromochloromethane	mg/L	-	0.001 U	-	-	-	-	-
Dibromomethane	mg/L	-	0.001 U	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	0.001 U	-	-	-	-	-
Ethyl methacrylate	mg/L	-	0.001 U	-	-	-	-	-
Ethylbenzene	mg/L	-	0.001 U	-	-	-	-	-
Iodomethane	mg/L	-	0.001 U	-	-	-	-	-
Isobutyl alcohol	mg/L	-	0.05 U	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	0.002 U	-	-	-	-	-
Methyl methacrylate	mg/L	-	0.002 U	-	-	-	-	-
Methylene chloride	mg/L	-	0.001 U	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	0.004 U	-	-	-	-	-
Styrene	mg/L	-	0.001 U	-	-	-	-	-
Tetrachloroethene	mg/L	-	0.001 U	-	-	-	-	-
Toluene	mg/L	-	0.001 U	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	0.001 U	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	0.001 U	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	0.001 U	-	-	-	-	-
Trichloroethene	mg/L	-	0.001 U	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	0.001 U	-	-	-	-	-
Vinyl acetate	mg/L	-	0.002 U	-	-	-	-	-
Vinyl chloride	mg/L	-	0.001 U	-	-	-	-	-
Xylene (total)	mg/L	-	0.002 U	-	-	-	-	-
Metals								
Barium	mg/L	0.035 J	0.035 J	-	-	0.028 J	0.027 J	-
Barium (Dissolved)	mg/L	0.033 J	0.036 J	-	-	0.030 J	0.027 J	-
Calcium	mg/L	255	248	-	-	-	279	-
Calcium (Dissolved)	mg/L	246	252	-	282	-	274	287
Chromium Total	mg/L	0.010 U	0.010 U	-	-	-	0.010 U	-
Chromium Total (Dissolved)	mg/L	0.010 U	0.010 U	-	-	-	0.010 U	-
Copper	mg/L	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-16T</i>	<i>P-16T</i>	<i>P-16T</i>	<i>P-16T</i>	<i>P-16T</i>	<i>P-16T</i>	<i>P-16T</i>
<i>Sample Name:</i>		<i>W-12616-38-111703-DEN-01</i>	<i>W-12616-38-121503-DEN-03</i>	<i>W-12616-38-121703-ACL-024</i>	<i>W-12616-011404-DEN-05C</i>	<i>W-12616-011404-DEN-05S</i>	<i>W-12616-022504-DEN-03</i>	<i>W-12616-042204-DEN-04</i>
<i>Sample Date:</i>		<i>11/17/2003</i>	<i>12/15/2003</i>	<i>12/17/2003</i>	<i>1/14/2004</i>	<i>1/14/2004</i>	<i>2/25/2004</i>	<i>4/22/2004</i>
<i>Parameters:</i>	<i>Units</i>							
Iron	mg/L	0.10 U	0.10 U	-	-	-	0.10 U	-
Iron (Dissolved)	mg/L	0.10 U	0.10 U	-	-	-	0.10 U	-
Magnesium	mg/L	67.5	71.2	-	-	-	74.0	-
Magnesium (Dissolved)	mg/L	64.8	72.3	-	74.1	-	72.9	74.2
Manganese	mg/L	0.0094 J	0.0049 J	-	-	-	0.0043 J	-
Manganese (Dissolved)	mg/L	0.0064 J	0.0022 J	-	-	-	0.015 U	-
Nickel	mg/L	0.056	0.054	-	-	0.049	0.048	-
Nickel (Dissolved)	mg/L	0.053	0.055	-	0.054	0.052	0.047	0.040
Potassium	mg/L	2.7 J	2.5 J	-	-	-	2.4 J	-
Potassium (Dissolved)	mg/L	2.6 J	2.6 J	-	-	-	2.3 J	-
Sodium	mg/L	32.6	35.5	-	-	-	35.9	-
Sodium (Dissolved)	mg/L	31.4	36.4	-	-	-	36.2	-
<i>General Chemistry</i>								
Chloride	mg/L	39.0	38.1	-	39.4	-	35.7	35.1
Cyanide (total)	mg/L	0.010 U	-	0.010 U	-	-	0.010 U	-
Sulfate	mg/L	511	563	-	613	-	598	619
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	-	-	-	-
<i>Field Parameters</i>								
Conductivity	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	1.49	1.50	-	-	-	-	-
pH Field	S.U.	6.91	7.15	-	-	-	-	-
Temperature, Field	Deg C	13.20	8.31	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

Sample Location:		P-16T	P-16T	P-16T	P-16T	P-16T	P-16T	P-16T
Sample Name:		W-12616-081704-DEN-04	WG-12616-101904-DEN-03	WG-12616-021505-DEN-05	WG-12616-033105-DEN-01	WG-12616-080305-DEN-03	WG-12616-100305-DN-04	WG-12616-021506-DN-02
Sample Date:		8/17/2004	10/19/2004	2/15/2005	3/31/2005	8/3/2005	10/3/2005	2/15/2006
Parameters:	Units							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-
1,4-Dioxane	mg/L	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-
Acetonitrile	mg/L	-	-	-	-	-	-	-
Acrolein	mg/L	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-
Allyl chloride	mg/L	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-	-	-	-	-
Chloroprene	mg/L	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-
Ethyl methacrylate	mg/L	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-
Isobutyl alcohol	mg/L	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/L	-	-	-	-	-	-	-
Methyl methacrylate	mg/L	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-	-	-	252	-
Styrene	mg/L	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-
Vinyl acetate	mg/L	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-
Xylene (total)	mg/L	-	-	-	-	-	-	-
Metals								
Barium	mg/L	0.027 J	-	0.021 J	-	0.028 J	-	0.026 J
Barium (Dissolved)	mg/L	0.026 J	-	0.023 J	-	0.026 J	-	0.025 J
Calcium	mg/L	295	-	210	-	257	-	271
Calcium (Dissolved)	mg/L	297	248	237	270	244	252	264
Chromium Total	mg/L	0.010 U	-	0.010 U	-	0.010 U	-	0.010 U
Chromium Total (Dissolved)	mg/L	0.010 U	-	0.010 U	-	0.010 U	-	0.010 U
Copper	mg/L	0.0034 J	-	-	-	0.0021 J	-	-
Copper (Dissolved)	mg/L	0.025 U	-	-	-	0.025 U	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>		<i>P-16T</i>	<i>P-16T</i>	<i>P-16T</i>	<i>P-16T</i>	<i>P-16T</i>	<i>P-16T</i>	<i>P-16T</i>
<i>Sample Name:</i>		<i>W-12616-081704-DEN-04</i>	<i>WG-12616-101904-DEN-03</i>	<i>WG-12616-021505-DEN-05</i>	<i>WG-12616-033105-DEN-01</i>	<i>WG-12616-080305-DEN-03</i>	<i>WG-12616-100305-DN-04</i>	<i>WG-12616-021506-DN-02</i>
<i>Sample Date:</i>		<i>8/17/2004</i>	<i>10/19/2004</i>	<i>2/15/2005</i>	<i>3/31/2005</i>	<i>8/3/2005</i>	<i>10/3/2005</i>	<i>2/15/2006</i>
<i>Parameters:</i>	<i>Units</i>							
Iron	mg/L	0.10 U	-	0.10 U	-	0.10 U	-	0.10 U
Iron (Dissolved)	mg/L	0.10 U	-	0.10 U	-	0.10 U	-	0.10 U
Magnesium	mg/L	66.7	-	59.9	-	71.9	-	75.8
Magnesium (Dissolved)	mg/L	67.5	70.1	66.6	73.3	68.3	73.6	73.7
Manganese	mg/L	0.0081 J	-	0.0038 J	-	0.026	-	0.0098 J
Manganese (Dissolved)	mg/L	0.021	-	0.015 U	-	0.019	-	0.00056 J
Nickel	mg/L	0.043	-	0.029 J	-	0.041	-	0.035 J
Nickel (Dissolved)	mg/L	0.043	0.045	0.032 J	-	0.037 J	-	0.034 J
Potassium	mg/L	2.2 J	-	1.8 J	-	2.4 J	-	2.1 J
Potassium (Dissolved)	mg/L	2.2 J	-	2.0 J	-	2.3 J	-	2.0 J
Sodium	mg/L	32.9	-	29.9 J	-	34.6	-	43.9
Sodium (Dissolved)	mg/L	33.0	-	33.6	-	32.5	-	43.3
<i>General Chemistry</i>								
Chloride	mg/L	31.8	35.0	31.6	30.6	32.7	32.5	32.0
Cyanide (total)	mg/L	0.010 U	-	0.010 U	-	0.010 U	-	0.010 U
Sulfate	mg/L	585	518	610	634	586	587	651
Total Dissolved Solids (TDS)	mg/L	1300	-	-	-	1200	-	-
Total Suspended Solids (TSS)	mg/L	4.0 J	-	-	-	4.0 U	-	-
<i>Field Parameters</i>								
Conductivity	mmhos/cm	-	-	-	-	-	-	-
Conductivity Field	mmhos/cm	-	-	-	-	-	-	-
pH Field	S.U.	-	-	-	-	-	-	-
Temperature, Field	Deg C	-	-	-	-	-	-	-

**ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO**

<i>Sample Location:</i>	<i>P-16T</i>	<i>P-16T</i>	<i>P-16T</i>
<i>Sample Name:</i>	WG-12616-040406-DN-03	WG-12616-081506-DN-03	WG-12616-101206-DN-04
<i>Sample Date:</i>	4/4/2006	8/15/2006	10/12/2006

Parameters: *Units*

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	mg/L	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-
1,1-Dichloroethane	mg/L	-	-	-
1,1-Dichloroethene	mg/L	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	-	-	-
1,2-Dichloroethane	mg/L	-	-	-
1,2-Dichloropropane	mg/L	-	-	-
1,4-Dioxane	mg/L	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	-	-	-
2-Hexanone	mg/L	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	-	-	-
Acetone	mg/L	-	-	-
Acetonitrile	mg/L	-	-	-
Acrolein	mg/L	-	-	-
Acrylonitrile	mg/L	-	-	-
Allyl chloride	mg/L	-	-	-
Benzene	mg/L	-	-	-
Bromodichloromethane	mg/L	-	-	-
Bromoform	mg/L	-	-	-
Bromomethane (Methyl Bromide)	mg/L	-	-	-
Carbon disulfide	mg/L	-	-	-
Carbon tetrachloride	mg/L	-	-	-
Chlorobenzene	mg/L	-	-	-
Chloroethane	mg/L	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-
Chloromethane (Methyl Chloride)	mg/L	-	-	-
Chloroprene	mg/L	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-
Dibromochloromethane	mg/L	-	-	-
Dibromomethane	mg/L	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-
Ethyl methacrylate	mg/L	-	-	-
Ethylbenzene	mg/L	-	-	-
Iodomethane	mg/L	-	-	-
Isobutyl alcohol	mg/L	-	-	-
Methyl acrylonitrile	mg/L	-	-	-
Methyl methacrylate	mg/L	-	-	-
Methylene chloride	mg/L	-	-	-
Propionitrile (Ethyl cyanide)	mg/L	-	-	-
Styrene	mg/L	-	-	-
Tetrachloroethene	mg/L	-	-	-
Toluene	mg/L	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-
Trichloroethene	mg/L	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-
Vinyl acetate	mg/L	-	-	-
Vinyl chloride	mg/L	-	-	-
Xylene (total)	mg/L	-	-	-

Metals

Barium	mg/L	-	0.027 J	-
Barium (Dissolved)	mg/L	-	0.027 J	-
Calcium	mg/L	-	263	-
Calcium (Dissolved)	mg/L	285	260	235
Chromium Total	mg/L	-	0.010 U	-
Chromium Total (Dissolved)	mg/L	-	0.010 U	-
Copper	mg/L	-	0.0044 J	-
Copper (Dissolved)	mg/L	-	0.0026 J	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

<i>Sample Location:</i>		<i>P-16T</i>	<i>P-16T</i>	<i>P-16T</i>
<i>Sample Name:</i>		WG-12616-040406-DN-03	WG-12616-081506-DN-03	WG-12616-101206-DN-04
<i>Sample Date:</i>		4/4/2006	8/15/2006	10/12/2006
<i>Parameters:</i>	<i>Units</i>			
Iron	mg/L	-	0.10 U	-
Iron (Dissolved)	mg/L	-	0.10 U	-
Magnesium	mg/L	-	73.0	-
Magnesium (Dissolved)	mg/L	72.4	72.4	68.8
Manganese	mg/L	-	0.014 J	-
Manganese (Dissolved)	mg/L	-	0.010 J	-
Nickel	mg/L	-	0.032 J	-
Nickel (Dissolved)	mg/L	-	0.031 J	-
Potassium	mg/L	-	1.9 J	-
Potassium (Dissolved)	mg/L	-	2.1 J	-
Sodium	mg/L	-	38.5	-
Sodium (Dissolved)	mg/L	-	38.8	-
<i>General Chemistry</i>				
Chloride	mg/L	30.9	26.6	29.1
Cyanide (total)	mg/L	-	0.010 U	-
Sulfate	mg/L	643	622	482
Total Dissolved Solids (TDS)	mg/L	-	1300	-
Total Suspended Solids (TSS)	mg/L	-	5.0	-
<i>Field Parameters</i>				
Conductivity	mmhos/cm	-	-	-
Conductivity Field	mmhos/cm	-	-	-
pH Field	S.U.	-	-	-
Temperature, Field	Deg C	-	-	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Page 1 of 2

<i>Sample Location:</i>	<i>P-18</i>	<i>P-18</i>	<i>P-18</i>
<i>Sample Name:</i>	W-12616-38-121703-ACL-020	W-12616-011504-DEN-08S	W-12616-011504-DEN-09S
<i>Sample Date:</i>	12/17/2003	1/15/2004	1/15/2004
			<i>Duplicate</i>

Parameters: *Units*

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	mg/L	0.001 U	-	-
1,1,1-Trichloroethane	mg/L	0.001 U	-	-
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	-	-
1,1,2-Trichloroethane	mg/L	0.001 U	-	-
1,1-Dichloroethane	mg/L	0.001 U	-	-
1,1-Dichloroethene	mg/L	0.001 U	-	-
1,2,3-Trichloropropane	mg/L	0.001 U	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.002 U	-	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.001 U	-	-
1,2-Dichloroethane	mg/L	0.001 U	-	-
1,2-Dichloropropane	mg/L	0.001 U	-	-
1,4-Dioxane	mg/L	0.2 U	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.01 U	-	-
2-Hexanone	mg/L	0.01 U	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.01 U	-	-
Acetone	mg/L	0.00073 J	0.01 U	0.01 U
Acetonitrile	mg/L	0.02 U	-	-
Acrolein	mg/L	0.02 U	-	-
Acrylonitrile	mg/L	0.02 U	-	-
Allyl chloride	mg/L	0.002 U	-	-
Benzene	mg/L	0.001 U	-	-
Bromodichloromethane	mg/L	0.001 U	-	-
Bromoform	mg/L	0.001 U	-	-
Bromomethane (Methyl Bromide)	mg/L	0.001 U	-	-
Carbon disulfide	mg/L	0.001 U	-	-
Carbon tetrachloride	mg/L	0.001 U	-	-
Chlorobenzene	mg/L	0.001 U	-	-
Chloroethane	mg/L	0.001 U	-	-
Chloroform (Trichloromethane)	mg/L	0.001 U	-	-
Chloromethane (Methyl Chloride)	mg/L	0.001 U	-	-
Chloroprene	mg/L	0.002 U	-	-
cis-1,3-Dichloropropene	mg/L	0.001 U	-	-
Dibromochloromethane	mg/L	0.001 U	-	-
Dibromomethane	mg/L	0.001 U	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	-	-
Ethyl methacrylate	mg/L	0.001 U	-	-
Ethylbenzene	mg/L	0.001 U	-	-
Iodomethane	mg/L	0.001 U	-	-
Isobutyl alcohol	mg/L	0.05 U	-	-
Methyl acrylonitrile	mg/L	0.002 U	-	-
Methyl methacrylate	mg/L	0.002 U	-	-
Methylene chloride	mg/L	0.001 U	-	-
Propionitrile (Ethyl cyanide)	mg/L	0.004 U	-	-
Styrene	mg/L	0.001 U	-	-
Tetrachloroethene	mg/L	0.001 U	-	-
Toluene	mg/L	0.001 U	-	-
trans-1,2-Dichloroethene	mg/L	0.001 U	-	-
trans-1,3-Dichloropropene	mg/L	0.001 U	-	-
trans-1,4-Dichloro-2-butene	mg/L	0.001 U	-	-
Trichloroethene	mg/L	0.001 U	-	-
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	-	-
Vinyl acetate	mg/L	0.002 U	-	-
Vinyl chloride	mg/L	0.001 U	-	-
Xylene (total)	mg/L	0.002 U	-	-

Metals

Barium	mg/L	0.014 J	0.013 J	0.012 J
Barium (Dissolved)	mg/L	0.011 J	0.012 J	-
Calcium	mg/L	11.6	-	-
Calcium (Dissolved)	mg/L	11.4	-	-
Chromium Total	mg/L	0.010 U	-	-
Chromium Total (Dissolved)	mg/L	0.010 U	-	-
Iron	mg/L	0.50	-	-
Iron (Dissolved)	mg/L	0.10 U	-	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

<i>Sample Location:</i>		<i>P-18</i>	<i>P-18</i>	<i>P-18</i>
<i>Sample Name:</i>		<i>W-12616-38-121703-ACL-020</i>	<i>W-12616-011504-DEN-08S</i>	<i>W-12616-011504-DEN-09S</i>
<i>Sample Date:</i>		<i>12/17/2003</i>	<i>1/15/2004</i>	<i>1/15/2004</i>
				<i>Duplicate</i>
<i>Parameters:</i>	<i>Units</i>			
Magnesium	mg/L	3.5 J	-	-
Magnesium (Dissolved)	mg/L	3.5 J	-	-
Manganese	mg/L	0.015 U	-	-
Manganese (Dissolved)	mg/L	0.015 U	-	-
Nickel	mg/L	0.25	0.23	0.20
Nickel (Dissolved)	mg/L	0.25	0.24	-
Potassium	mg/L	5.9	-	-
Potassium (Dissolved)	mg/L	5.7	-	-
Sodium	mg/L	380	-	-
Sodium (Dissolved)	mg/L	381	-	-
<i>General Chemistry</i>				
Chloride	mg/L	39.6 J	-	-
Cyanide (total)	mg/L	0.010 U	-	-
Sulfate	mg/L	308	-	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

<i>Sample Location:</i>	<i>P-20</i>	<i>P-20</i>
<i>Sample Name:</i>	W-12616-38-121603-ACL-018	W-12616-012104-DEN-11S
<i>Sample Date:</i>	12/16/2003	1/21/2004

Parameters:	Units		
<i>Volatile Organic Compounds</i>			
1,1,1,2-Tetrachloroethane	mg/L	0.001 U	-
1,1,1-Trichloroethane	mg/L	0.001 U	-
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	-
1,1,2-Trichloroethane	mg/L	0.001 U	-
1,1-Dichloroethane	mg/L	0.001 U	-
1,1-Dichloroethene	mg/L	0.001 U	-
1,2,3-Trichloropropane	mg/L	0.001 U	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.002 U	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.001 U	-
1,2-Dichloroethane	mg/L	0.001 U	-
1,2-Dichloropropane	mg/L	0.001 U	-
1,4-Dioxane	mg/L	0.2 U	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.01 U	-
2-Hexanone	mg/L	0.01 U	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.01 U	-
Acetone	mg/L	0.01 U	-
Acetonitrile	mg/L	0.02 U	-
Acrolein	mg/L	0.02 U	-
Acrylonitrile	mg/L	0.02 U	-
Allyl chloride	mg/L	0.002 U	-
Benzene	mg/L	0.001 U	-
Bromodichloromethane	mg/L	0.001 U	-
Bromoform	mg/L	0.001 U	-
Bromomethane (Methyl Bromide)	mg/L	0.001 U	-
Carbon disulfide	mg/L	0.001 U	-
Carbon tetrachloride	mg/L	0.001 U	-
Chlorobenzene	mg/L	0.001 U	-
Chloroethane	mg/L	0.001 U	-
Chloroform (Trichloromethane)	mg/L	0.001 U	-
Chloromethane (Methyl Chloride)	mg/L	0.001 U	-
Chloroprene	mg/L	0.002 U	-
cis-1,3-Dichloropropene	mg/L	0.001 U	-
Dibromochloromethane	mg/L	0.001 U	-
Dibromomethane	mg/L	0.001 U	-
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	-
Ethyl methacrylate	mg/L	0.001 U	-
Ethylbenzene	mg/L	0.001 U	-
Iodomethane	mg/L	0.001 U	-
Isobutyl alcohol	mg/L	0.05 U	-
Methyl acrylonitrile	mg/L	0.002 U	-
Methyl methacrylate	mg/L	0.002 U	-
Methylene chloride	mg/L	0.001 U	-
Propionitrile (Ethyl cyanide)	mg/L	0.004 U	-
Styrene	mg/L	0.0011	0.001 U
Tetrachloroethene	mg/L	0.001 U	-
Toluene	mg/L	0.001 U	-
trans-1,2-Dichloroethene	mg/L	0.001 U	-
trans-1,3-Dichloropropene	mg/L	0.001 U	-
trans-1,4-Dichloro-2-butene	mg/L	0.001 U	-
Trichloroethene	mg/L	0.001 U	-
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	-
Vinyl acetate	mg/L	0.002 U	-
Vinyl chloride	mg/L	0.001 U	-
Xylene (total)	mg/L	0.002 U	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

<i>Sample Location:</i>	<i>P-20</i>	<i>P-20</i>
<i>Sample Name:</i>	W-12616-38-121603-ACL-018	W-12616-012104-DEN-11S
<i>Sample Date:</i>	12/16/2003	1/21/2004

<i>Parameters:</i>	<i>Units</i>

Metals

Barium	mg/L	0.047 J	0.042 J
Barium (Dissolved)	mg/L	0.046 J	0.043 J
Calcium	mg/L	141	-
Calcium (Dissolved)	mg/L	138	-
Chromium Total	mg/L	0.010 U	-
Chromium Total (Dissolved)	mg/L	0.010 U	-
Iron	mg/L	0.10 U	-
Iron (Dissolved)	mg/L	0.10 U	-
Magnesium	mg/L	50.6	-
Magnesium (Dissolved)	mg/L	49.6	-
Manganese	mg/L	0.21	-
Manganese (Dissolved)	mg/L	0.19	-
Nickel	mg/L	0.015 J	0.018 J
Nickel (Dissolved)	mg/L	0.015 J	0.018 J
Potassium	mg/L	7.3	-
Potassium (Dissolved)	mg/L	7.4	-
Sodium	mg/L	283	-
Sodium (Dissolved)	mg/L	285	-

General Chemistry

Chloride	mg/L	34.8	-
Cyanide (total)	mg/L	0.010 U	-
Sulfate	mg/L	692	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

<i>Sample Location:</i>	<i>P-21</i>	<i>P-21</i>
<i>Sample Name:</i>	<i>W-12616-38-121703-ACL-019</i>	<i>W-12616-011504-DEN-10S</i>
<i>Sample Date:</i>	<i>12/17/2003</i>	<i>1/13/2004</i>

Parameters:	Units		
<i>Volatile Organic Compounds</i>			
1,1,1,2-Tetrachloroethane	mg/L	0.001 U	-
1,1,1-Trichloroethane	mg/L	0.001 U	-
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	-
1,1,2-Trichloroethane	mg/L	0.001 U	-
1,1-Dichloroethane	mg/L	0.001 U	-
1,1-Dichloroethene	mg/L	0.001 U	-
1,2,3-Trichloropropane	mg/L	0.001 U	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.002 U	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.001 U	-
1,2-Dichloroethane	mg/L	0.001 U	-
1,2-Dichloropropane	mg/L	0.001 U	-
1,4-Dioxane	mg/L	0.2 U	-
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.01 U	-
2-Hexanone	mg/L	0.01 U	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.01 U	-
Acetone	mg/L	0.00097 J	0.01 U
Acetonitrile	mg/L	0.02 U	-
Acrolein	mg/L	0.02 U	-
Acrylonitrile	mg/L	0.02 U	-
Allyl chloride	mg/L	0.002 U	-
Benzene	mg/L	0.001 U	-
Bromodichloromethane	mg/L	0.001 U	-
Bromoform	mg/L	0.001 U	-
Bromomethane (Methyl Bromide)	mg/L	0.001 U	-
Carbon disulfide	mg/L	0.001 U	-
Carbon tetrachloride	mg/L	0.001 U	-
Chlorobenzene	mg/L	0.001 U	-
Chloroethane	mg/L	0.001 U	-
Chloroform (Trichloromethane)	mg/L	0.001 U	-
Chloromethane (Methyl Chloride)	mg/L	0.001 U	-
Chloroprene	mg/L	0.002 U	-
cis-1,3-Dichloropropene	mg/L	0.001 U	-
Dibromochloromethane	mg/L	0.001 U	-
Dibromomethane	mg/L	0.001 U	-
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	-
Ethyl methacrylate	mg/L	0.001 U	-
Ethylbenzene	mg/L	0.001 U	-
Iodomethane	mg/L	0.001 U	-
Isobutyl alcohol	mg/L	0.05 U	-
Methyl acrylonitrile	mg/L	0.002 U	-
Methyl methacrylate	mg/L	0.002 U	-
Methylene chloride	mg/L	0.001 U	-
Propionitrile (Ethyl cyanide)	mg/L	0.004 U	-
Styrene	mg/L	0.001 U	-
Tetrachloroethene	mg/L	0.001 U	-
Toluene	mg/L	0.001 U	-
trans-1,2-Dichloroethene	mg/L	0.001 U	-
trans-1,3-Dichloropropene	mg/L	0.001 U	-
trans-1,4-Dichloro-2-butene	mg/L	0.001 U	-
Trichloroethene	mg/L	0.001 U	-
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	-
Vinyl acetate	mg/L	0.002 U	-
Vinyl chloride	mg/L	0.001 U	-
Xylene (total)	mg/L	0.002 U	-

ANALYTICAL RESULTS
GROUNDWATER DATA
ELYRIA, OHIO

Sample Location:

Sample Name:

Sample Date:

P-21
W-12616-38-121703-ACL-019
12/17/2003

P-21
W-12616-011504-DEN-10S
1/15/2004

Parameters:

Units

Metals

Barium	mg/L	0.053 J	0.052 J
Barium (Dissolved)	mg/L	0.057 J	0.052 J
Calcium	mg/L	87.8	-
Calcium (Dissolved)	mg/L	112	-
Chromium Total	mg/L	0.010 U	-
Chromium Total (Dissolved)	mg/L	0.010 U	-
Iron	mg/L	1.0	-
Iron (Dissolved)	mg/L	0.81	-
Magnesium	mg/L	25.4	-
Magnesium (Dissolved)	mg/L	31.2	-
Manganese	mg/L	0.099	-
Manganese (Dissolved)	mg/L	0.11	-
Nickel	mg/L	0.19	0.21
Nickel (Dissolved)	mg/L	0.22	0.21
Potassium	mg/L	5.2	-
Potassium (Dissolved)	mg/L	5.6	-
Sodium	mg/L	182	-
Sodium (Dissolved)	mg/L	192	-

General Chemistry

Chloride	mg/L	97.8 J	-
Cyanide (total)	mg/L	0.010 U	-
Sulfate	mg/L	153	-

Notes:

B - Method blank contamination.

B - Estimated Value (for Metal)

D - Compounds at secondary dilution factor.

NJ - Presence tentatively identified. Estimated value.

J - Estimated value.

(R) - Spike recovery not within control limit.

R - Reject.

U - Not present at or above the associated value

W - Post-digestion spike out of control limits, etc.

(#) - Labeled as OW-1 but believed to be P-06

DI - Duplicate instrument injection/aspiration precision was >20% RDS, result must be considered estimated.

DJ - Surrogate results are unavailable due to positive results in the sample extract resulting in a dilution of greater than 1:5 of the sample extract.

F - Filtered to remove particulate interferences.

K - Qualified result is equal to the detection limit. Data is thought to be non-detected.

MS - The matrix spike recovery was outside of laboratory established limits. Data should be considered estimated.

MS MD - Bailed.

MA - Matrix spike accuracies outside established limits but precision is within the limit, result is not considered estimated.

(###) - Labeled as Chromium. Believed to be Chromium VI

(##) - Reported as < 0.0 . Believed to be <0.2

SI - Sample Integrity suspect upon arrival, container had headspace, non-detected results considered approximate

ANALYTICAL RESULTS
SOIL DATA
ELYRIA, OHIO

<i>Sample Location:</i>	<i>Former MW-015</i>	<i>Former MW-015</i>	<i>Former MW-015</i>	<i>Former MW-016</i>	<i>Former MW-016</i>	<i>Former MW-016</i>	<i>S1</i>	<i>S2</i>
<i>Sample ID:</i>	<i>MW-15~0-5</i>	<i>MW-15~10-13</i>	<i>MW-15~5-10</i>	<i>MW-16~0-5</i>	<i>MW-16~10-13</i>	<i>MW-16~5-10</i>	<i>S1</i>	<i>S2</i>
<i>Sample Depth:</i>	<i>0-5 ft BGS</i>	<i>10-13 ft BGS</i>	<i>5-10 ft BGS</i>	<i>0-5 ft BGS</i>	<i>10-13 ft BGS</i>	<i>5-10 ft BGS</i>	<i>5-5 ft BGS</i>	<i>3-3 ft BGS</i>
<i>Sample Date:</i>	<i>4/11/1988</i>	<i>4/11/1988</i>	<i>4/11/1988</i>	<i>4/12/1988</i>	<i>4/12/1988</i>	<i>4/12/1988</i>	<i>9/18/1990</i>	<i>9/18/1990</i>

Parameters: *Units*

Volatile Organic Compounds

1,1,1-Trichloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.05 U	0.5 U	-	-
1,1,2,2-Tetrachloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.05 U	0.5 U	-	-
1,1,2-Trichloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.05 U	0.5 U	-	-
1,1-Dichloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.05 U	0.5 U	-	-
1,1-Dichloroethene	mg/kg	0.005 U	0.005 U	0.005 U	0.014 J	0.05 U	0.5 U	-	-
1,2-Dichloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.05 U	0.5 U	-	-
1,2-Dichloroethene (total)	mg/kg	0.1	0.45 D	0.062	4.2 D	4.2	4.5	-	-
1,2-Dichloropropane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.05 U	0.5 U	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/kg	0.01 U	0.012	0.009 J	0.016 J	0.1 U	9.3 B	-	-
2-Hexanone	mg/kg	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	1 U	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	0.01 U	0.002 J	0.01 U	0.01 U	0.1 U	1 U	-	-
Acetone	mg/kg	0.006 JB	0.049 B	0.061 B	0.068 B	0.25 B	1.9 B	-	-
Benzene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.05 U	0.5 U	-	-
Bromodichloromethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.05 U	0.5 U	-	-
Bromoform	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.05 U	0.5 U	-	-
Bromomethane (Methyl Bromide)	mg/kg	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	1 U	-	-
Carbon disulfide	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.05 U	0.5 U	-	-
Carbon tetrachloride	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.05 U	0.5 U	-	-
Chlorobenzene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.05 U	0.5 U	-	-
Chloroethane	mg/kg	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	1 U	-	-
Chloroform (Trichloromethane)	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.05 U	0.5 U	-	-
Chloromethane (Methyl Chloride)	mg/kg	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	1 U	-	-
cis-1,3-Dichloropropene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.05 U	0.5 U	-	-
Dibromochloromethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.05 U	0.5 U	-	-
Ethylbenzene	mg/kg	0.005	0.02	0.004 J	0.053	0.05 U	3.4	-	-
Methylene chloride	mg/kg	0.012	0.012	0.015	0.015 J	0.05 U	0.5 U	U	U
Styrene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.05 U	0.5 U	-	-
Tetrachloroethene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.05 U	0.5 U	U	U
Toluene	mg/kg	0.007	0.018	0.005 J	0.052	0.36	0.78	U	U
trans-1,3-Dichloropropene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.05 U	0.5 U	-	-
Trichloroethene	mg/kg	1.4 D	3.4 D	0.82 D	21 DB	46 DB	73 DB	U	U
Vinyl acetate	mg/kg	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	1 U	-	-
Vinyl chloride	mg/kg	0.01 U	0.008 J	0.01 U	0.082	0.1 U	1 U	-	-
Xylene (total)	mg/kg	0.026	0.12	0.018	0.34	6.4	26	-	-

Volatile Organic Compounds - SPLP

1,1,1-Trichloroethane	mg/kg	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/kg	-	-	-	-	-	-	-	-

ANALYTICAL RESULTS
SOIL DATA
ELYRIA, OHIO

<i>Sample Location:</i>		<i>Former MW-015</i>	<i>Former MW-015</i>	<i>Former MW-015</i>	<i>Former MW-016</i>	<i>Former MW-016</i>	<i>Former MW-016</i>	<i>S1</i>	<i>S2</i>
<i>Sample ID:</i>		<i>MW-15~0-5</i>	<i>MW-15~10-13</i>	<i>MW-15~5-10</i>	<i>MW-16~0-5</i>	<i>MW-16~10-13</i>	<i>MW-16~5-10</i>	<i>S1</i>	<i>S2</i>
<i>Sample Depth:</i>		<i>0-5 ft BGS</i>	<i>10-13 ft BGS</i>	<i>5-10 ft BGS</i>	<i>0-5 ft BGS</i>	<i>10-13 ft BGS</i>	<i>5-10 ft BGS</i>	<i>5-5 ft BGS</i>	<i>3-3 ft BGS</i>
<i>Sample Date:</i>		<i>4/11/1988</i>	<i>4/11/1988</i>	<i>4/11/1988</i>	<i>4/12/1988</i>	<i>4/12/1988</i>	<i>4/12/1988</i>	<i>9/18/1990</i>	<i>9/18/1990</i>
1,1-Dichloroethane	mg/kg	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/kg	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/kg	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	mg/kg	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/kg	-	-	-	-	-	-	-	-
2-Hexanone	mg/kg	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	-	-	-	-	-	-	-	-
Acetone	mg/kg	-	-	-	-	-	-	-	-
Benzene	mg/kg	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/kg	-	-	-	-	-	-	-	-
Bromoform	mg/kg	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/kg	-	-	-	-	-	-	-	-
Carbon disulfide	mg/kg	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/kg	-	-	-	-	-	-	-	-
Chlorobenzene	mg/kg	-	-	-	-	-	-	-	-
Chloroethane	mg/kg	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/kg	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/kg	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/kg	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	-	-	-	-	-	-	-	-
Methylene chloride	mg/kg	-	-	-	-	-	-	-	-
Styrene	mg/kg	-	-	-	-	-	-	-	-
Tetrachloroethane	mg/kg	-	-	-	-	-	-	-	-
Toluene	mg/kg	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	-
Trichloroethane	mg/kg	-	-	-	-	-	-	-	-
Vinyl acetate	mg/kg	-	-	-	-	-	-	-	-
Vinyl chloride	mg/kg	-	-	-	-	-	-	-	-
Xylene (total)	mg/kg	-	-	-	-	-	-	-	-
<i>Semi-volatile Organic Compounds</i>									
1,2,4-Trichlorobenzene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
1,2-Dichlorobenzene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
1,3-Dichlorobenzene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
1,4-Dichlorobenzene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
2,2'-oxybis(1-Chloropropene) (bis(2-chloroisopropyl) ether)	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
2,4,5-Trichlorophenol	mg/kg	1.6 U	1.6 U	1.6 U	8.2 U	1.6 U	1.6 U	-	-
2,4,6-Trichlorophenol	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
2,4-Dichlorophenol	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
2,4-Dimethylphenol	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-

ANALYTICAL RESULTS
SOIL DATA
ELYRIA, OHIO

<i>Sample Location:</i>		<i>Former MW-015</i>	<i>Former MW-015</i>	<i>Former MW-015</i>	<i>Former MW-016</i>	<i>Former MW-016</i>	<i>Former MW-016</i>	<i>S1</i>	<i>S2</i>
<i>Sample ID:</i>		<i>MW-15~0-5</i>	<i>MW-15~10-13</i>	<i>MW-15~5-10</i>	<i>MW-16~0-5</i>	<i>MW-16~10-13</i>	<i>MW-16~5-10</i>	<i>S1</i>	<i>S2</i>
<i>Sample Depth:</i>		<i>0-5 ft BGS</i>	<i>10-13 ft BGS</i>	<i>5-10 ft BGS</i>	<i>0-5 ft BGS</i>	<i>10-13 ft BGS</i>	<i>5-10 ft BGS</i>	<i>5-5 ft BGS</i>	<i>3-3 ft BGS</i>
<i>Sample Date:</i>		<i>4/11/1988</i>	<i>4/11/1988</i>	<i>4/11/1988</i>	<i>4/12/1988</i>	<i>4/12/1988</i>	<i>4/12/1988</i>	<i>9/18/1990</i>	<i>9/18/1990</i>
2,4-Dinitrophenol	mg/kg	1.6 U	1.6 U	1.6 U	8.2 U	1.6 U	1.6 U	-	-
2,4-Dinitrotoluene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
2,6-Dinitrotoluene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
2-Chloronaphthalene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
2-Chlorophenol	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
2-Methylnaphthalene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
2-Methylphenol	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
2-Nitroaniline	mg/kg	1.6 U	1.6 U	1.6 U	8.2 U	1.6 U	1.6 U	-	-
2-Nitrophenol	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
3,3'-Dichlorobenzidine	mg/kg	0.66 U	0.66 U	0.66 U	3.2 U	0.66 U	0.66 U	-	-
3-Nitroaniline	mg/kg	1.6 U	1.6 U	1.6 U	8.2 U	1.6 U	1.6 U	-	-
4,6-Dinitro-2-methylphenol	mg/kg	1.6 U	1.6 U	1.6 U	8.2 U	1.6 U	1.6 U	-	-
4-Bromophenyl phenyl ether	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
4-Chloro-3-methylphenol	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
4-Chloroaniline	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
4-Methylphenol	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
4-Nitroaniline	mg/kg	1.6 U	1.6 U	1.6 U	8.2 U	1.6 U	1.6 U	-	-
4-Nitrophenol	mg/kg	1.6 U	1.6 U	1.6 U	8.2 U	1.6 U	1.6 U	-	-
Acenaphthene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
Acenaphthylene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
Anthracene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
Benzo(a)anthracene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
Benzo(a)pyrene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
Benzo(b)fluoranthene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
Benzo(g,h,i)perylene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
Benzo(k)fluoranthene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
Benzoic acid	mg/kg	1.6 U	1.6 U	1.6 U	8.2 U	1.6 U	1.6 U	-	-
Benzyl Alcohol	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
bis(2-Chloroethoxy)methane	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
bis(2-Chloroethyl)ether	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
bis(2-Ethylhexyl)phthalate	mg/kg	0.039 J	0.33 U	0.33 U	5.1	0.36	4.7	2.3	0.65 J
Butyl benzylphthalate	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
Chrysene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
Dibenz(a,h)anthracene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
Dibenzofuran	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
Diethyl phthalate	mg/kg	0.33 U	0.11 J	0.33 U	1.6 U	0.33 U	0.33 U	-	-
Dimethyl phthalate	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
Di-n-butylphthalate	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
Di-n-octyl phthalate	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
Fluoranthene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	U	U
Fluorene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-

ANALYTICAL RESULTS
SOIL DATA
ELYRIA, OHIO

<i>Sample Location:</i>		<i>Former MW-015</i>	<i>Former MW-015</i>	<i>Former MW-015</i>	<i>Former MW-016</i>	<i>Former MW-016</i>	<i>Former MW-016</i>	<i>S1</i>	<i>S2</i>
<i>Sample ID:</i>		<i>MW-15~0-5</i>	<i>MW-15~10-13</i>	<i>MW-15~5-10</i>	<i>MW-16~0-5</i>	<i>MW-16~10-13</i>	<i>MW-16~5-10</i>	<i>S1</i>	<i>S2</i>
<i>Sample Depth:</i>		<i>0-5 ft BGS</i>	<i>10-13 ft BGS</i>	<i>5-10 ft BGS</i>	<i>0-5 ft BGS</i>	<i>10-13 ft BGS</i>	<i>5-10 ft BGS</i>	<i>5-5 ft BGS</i>	<i>3-3 ft BGS</i>
<i>Sample Date:</i>		<i>4/11/1988</i>	<i>4/11/1988</i>	<i>4/11/1988</i>	<i>4/12/1988</i>	<i>4/12/1988</i>	<i>4/12/1988</i>	<i>9/18/1990</i>	<i>9/18/1990</i>
Hexachlorobenzene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
Hexachlorobutadiene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
Hexachlorocyclopentadiene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
Hexachloroethane	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
Isophorone	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
Naphthalene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.39	-	-
Nitrobenzene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
N-Nitrosodi-n-propylamine	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
N-Nitrosodiphenylamine	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
Pentachlorophenol	mg/kg	1.6 U	1.6 U	1.6 U	8.2 U	1.6 U	1.6 U	-	-
Phenanthrene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	U	U
Phenol	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	-	-
Pyrene	mg/kg	0.33 U	0.33 U	0.33 U	1.6 U	0.33 U	0.33 U	U	U
<i>Metals</i>									
Aluminum	mg/kg	-	-	-	-	-	-	11100	20600
Antimony	mg/kg	-	-	-	-	-	-	253 NJ	80.4 NJ
Arsenic	mg/kg	-	-	-	-	-	-	21.9 NJ	25.7 NJ
Barium	mg/kg	-	-	-	-	-	-	169	127
Beryllium	mg/kg	-	-	-	-	-	-	1.2 B	1.3 B
Cadmium	mg/kg	-	-	-	-	-	-	10.6	7.7
Calcium	mg/kg	-	-	-	-	-	-	55600	37500
Chromium Total	mg/kg	16.5	6.81	14	1080	24.6	86.9	22100	6120
Cobalt	mg/kg	-	-	-	-	-	-	36.5	25
Copper	mg/kg	66	23.7	25	14200	30.6	4040	4370	1820
Iron	mg/kg	-	-	-	-	-	-	23600	35300
Lead	mg/kg	29	19	19	85	22	55	174 *J	21 *J
Magnesium	mg/kg	-	-	-	-	-	-	4860	9200
Manganese	mg/kg	-	-	-	-	-	-	397 NJ*	327 NJ*
Mercury	mg/kg	-	-	-	-	-	-	0.41 NJ	0.17 NJ
Nickel	mg/kg	21.4	20	25.2	1370	52.6	352	9580	2990
Potassium	mg/kg	-	-	-	-	-	-	1620 B	3540
Selenium	mg/kg	-	-	-	-	-	-	1.3 B	0.85 B
Silver	mg/kg	-	-	-	-	-	-	R	R
Sodium	mg/kg	-	-	-	-	-	-	57.6 B	41.6 B
Vanadium	mg/kg	-	-	-	-	-	-	U	4.3 BNJ
Zinc	mg/kg	148	70.2	65.6	6690	124	4700	3360	1470
<i>Polychlorinated Biphenyls</i>									
Aroclor-1254 (PCB-1254)	mg/kg	-	-	-	-	-	-	U	U

**ANALYTICAL RESULTS
SOIL DATA
ELYRIA, OHIO**

<i>Sample Location:</i>	<i>Former MW-015</i>	<i>Former MW-015</i>	<i>Former MW-015</i>	<i>Former MW-016</i>	<i>Former MW-016</i>	<i>Former MW-016</i>	<i>S1</i>	<i>S2</i>
<i>Sample ID:</i>	<i>MW-15~0-5</i>	<i>MW-15~10-13</i>	<i>MW-15~5-10</i>	<i>MW-16~0-5</i>	<i>MW-16~10-13</i>	<i>MW-16~5-10</i>	<i>S1</i>	<i>S2</i>
<i>Sample Depth:</i>	<i>0-5 ft BGS</i>	<i>10-13 ft BGS</i>	<i>5-10 ft BGS</i>	<i>0-5 ft BGS</i>	<i>10-13 ft BGS</i>	<i>5-10 ft BGS</i>	<i>5-5 ft BGS</i>	<i>3-3 ft BGS</i>
<i>Sample Date:</i>	<i>4/11/1988</i>	<i>4/11/1988</i>	<i>4/11/1988</i>	<i>4/12/1988</i>	<i>4/12/1988</i>	<i>4/12/1988</i>	<i>9/18/1990</i>	<i>9/18/1990</i>

Pesticides

4,4'-DDD	mg/kg	-	-	-	-	-	-	U	U

General Chemistry

Cyanide (total)	mg/kg	-	-	-	-	-	-	30.6 NJ	8.7 NJ
Total Solids	%	-	-	-	-	-	-	-	-

Notes:

B - Method blank contamination.

B - Estimated Value (for Metal)

D - Compounds at secondary dilution factor.

NJ - Presence tentatively identified. Estimated value.

J - Estimated value.

(R) - Spike recovery not within control limit.

R - Reject.

U - Not present at or above the associated value

W - Post-digestion spike out of control limits, etc.

ANALYTICAL RESULTS
SOIL DATA
ELYRIA, OHIO

<i>Sample Location:</i>	S3	S4	S5	S6	S7	SB-016	SB-017	SB-018	SB-019	SB-020	SB-021
<i>Sample ID:</i>	S3	S4	S5	S6	S7	SB-016	SB-017	SB-018	SB-019	SB-020	SB-021
<i>Sample Depth:</i>	2.5-2.5 ft BGS	1-1 ft BGS	1.5-2 ft BGS	1.5-2 ft BGS	- Unknown	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS
<i>Sample Date:</i>	9/18/1990	9/18/1990	9/18/1990	9/18/1990	9/18/1990	7/28/1988	7/28/1988	7/28/1988	7/28/1988	7/28/1988	7/28/1988

Parameters: *Units*

Volatile Organic Compounds

1,1,1-Trichloroethane	mg/kg	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/kg	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/kg	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/kg	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/kg	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	mg/kg	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/kg	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/kg	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	-	-	-	-	-	-	-	-	-	-
Acetone	mg/kg	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/kg	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/kg	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/kg	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/kg	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/kg	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/kg	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/kg	-	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/kg	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/kg	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/kg	U	0.035 J	U	U	U	-	-	-	-	-
Styrene	mg/kg	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/kg	0.009 J	U	0.005 J	0.025 J	0.012 J	-	-	-	-	-
Toluene	mg/kg	U	U	U	0.003 J	U	-	-	-	-	-
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	U	U	0.008	0.001 J	U	-	-	-	-	-
Vinyl acetate	mg/kg	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/kg	-	-	-	-	-	-	-	-	-	-
Xylene (total)	mg/kg	-	-	-	-	-	-	-	-	-	-

Volatile Organic Compounds - SPLP

1,1,1-Trichloroethane	mg/kg	-	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1,2,2-Tetrachloroethane	mg/kg	-	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1,2-Trichloroethane	mg/kg	-	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U

ANALYTICAL RESULTS
SOIL DATA
ELYRIA, OHIO

<i>Sample Location:</i>		S3	S4	S5	S6	S7	SB-016	SB-017	SB-018	SB-019	SB-020	SB-021
<i>Sample ID:</i>		S3	S4	S5	S6	S7	SB-016	SB-017	SB-018	SB-019	SB-020	SB-021
<i>Sample Depth:</i>		2.5-2.5 ft BGS	1-1 ft BGS	1.5-2 ft BGS	1.5-2 ft BGS	- Unknown	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS
<i>Sample Date:</i>		9/18/1990	9/18/1990	9/18/1990	9/18/1990	9/18/1990	7/28/1988	7/28/1988	7/28/1988	7/28/1988	7/28/1988	7/28/1988
1,1-Dichloroethane	mg/kg	-	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1-Dichloroethene	mg/kg	-	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichloroethane	mg/kg	-	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichloroethene (total)	mg/kg	-	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichloropropane	mg/kg	-	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	-	-	-	-	-	0.019 B	0.015 B	0.017 B	0.01 U	0.012 B	0.013 B
2-Hexanone	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Acetone	mg/kg	-	-	-	-	-	0.023 B	0.015 B	0.014 B	0.005 JB	0.017 B	0.015 B
Benzene	mg/kg	-	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.001 J	0.005 U
Bromodichloromethane	mg/kg	-	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromoform	mg/kg	-	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromomethane (Methyl Bromide)	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Carbon disulfide	mg/kg	-	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.004 J	0.005 U
Carbon tetrachloride	mg/kg	-	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chlorobenzene	mg/kg	-	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloroethane	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chloroform (Trichloromethane)	mg/kg	-	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloromethane (Methyl Chloride)	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
cis-1,3-Dichloropropene	mg/kg	-	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Dibromochloromethane	mg/kg	-	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethylbenzene	mg/kg	-	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methylene chloride	mg/kg	-	-	-	-	-	0.01 B	0.008 B	0.015 B	0.01 B	0.038 B	0.019 B
Styrene	mg/kg	-	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Tetrachloroethane	mg/kg	-	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Toluene	mg/kg	-	-	-	-	-	0.005 U	0.005 U	0.004 J	0.005 U	0.01	0.005 U
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Trichloroethane	mg/kg	-	-	-	-	-	0.007	0.004 J	0.009	0.005 U	0.01	0.005
Vinyl acetate	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vinyl chloride	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Xylene (total)	mg/kg	-	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
<i>Semi-volatile Organic Compounds</i>												
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropene) (bis(2-chloroisopropyl) ether)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-

ANALYTICAL RESULTS
SOIL DATA
ELYRIA, OHIO

<i>Sample Location:</i>	S3	S4	S5	S6	S7	SB-016	SB-017	SB-018	SB-019	SB-020	SB-021
<i>Sample ID:</i>	S3	S4	S5	S6	S7	SB-016	SB-017	SB-018	SB-019	SB-020	SB-021
<i>Sample Depth:</i>	2.5-2.5 ft BGS	1-1 ft BGS	1.5-2 ft BGS	1.5-2 ft BGS	- Unknown	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS
<i>Sample Date:</i>	9/18/1990	9/18/1990	9/18/1990	9/18/1990	9/18/1990	7/28/1988	7/28/1988	7/28/1988	7/28/1988	7/28/1988	7/28/1988
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/kg	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/kg	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	mg/kg	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/kg	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/kg	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	mg/kg	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-	-	-	-
Acenaphthene	mg/kg	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	mg/kg	-	-	-	-	-	-	-	-	-	-
Anthracene	mg/kg	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/kg	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/kg	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	-	-	-	-	-
Benzoic acid	mg/kg	-	-	-	-	-	-	-	-	-	-
Benzyl Alcohol	mg/kg	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/kg	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	mg/kg	0.87 J	3.5	0.24 J	U	0.3 J	-	-	-	-	-
Butyl benzylphthalate	mg/kg	-	-	-	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	mg/kg	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	mg/kg	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	mg/kg	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	mg/kg	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	U	U	0.19 J	U	U	-	-	-	-	-
Fluorene	mg/kg	-	-	-	-	-	-	-	-	-	-

ANALYTICAL RESULTS
SOIL DATA
ELYRIA, OHIO

<i>Sample Location:</i>		S3	S4	S5	S6	S7	SB-016	SB-017	SB-018	SB-019	SB-020	SB-021
<i>Sample ID:</i>		S3	S4	S5	S6	S7	SB-016	SB-017	SB-018	SB-019	SB-020	SB-021
<i>Sample Depth:</i>		2.5-2.5 ft BGS	1-1 ft BGS	1.5-2 ft BGS	1.5-2 ft BGS	- Unknown	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS
<i>Sample Date:</i>		9/18/1990	9/18/1990	9/18/1990	9/18/1990	9/18/1990	7/28/1988	7/28/1988	7/28/1988	7/28/1988	7/28/1988	7/28/1988
Hexachlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Isophorone	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	mg/kg	U	U	0.22 J	U	U	-	-	-	-	-	-
Phenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Pyrene	mg/kg	U	U	0.13 J	U	U	-	-	-	-	-	-
<i>Metals</i>												
Aluminum	mg/kg	27800	18200	13700	17400	15800	-	-	-	-	-	-
Antimony	mg/kg	116 NJ	385 NJ	R	R	R	-	-	-	-	-	-
Arsenic	mg/kg	12.9 NJ	23.1 NJ	3.9 NJ	5.8 NJ	10.4 NJ	-	-	-	-	-	-
Barium	mg/kg	177	217	122	119	75.7	-	-	-	-	-	-
Beryllium	mg/kg	1.3 B	0.98 B	1.2	1 B	0.75 B	-	-	-	-	-	-
Cadmium	mg/kg	8.3	20.9	4.8	3.8	3.6	-	-	-	-	-	-
Calcium	mg/kg	74000	176000	40500	15500	1210 B	-	-	-	-	-	-
Chromium Total	mg/kg	10000	34500	671	51.8	21.8	12.1 *	10.2 *	15.2 *	12 *	18.8 *	37.8 *
Cobalt	mg/kg	14.8 B	26.3	8.2 B	9.4 B	8.9 B	-	-	-	-	-	-
Copper	mg/kg	2090	12800	216	31.5	9.5	28.2 (R)	43.4 (R)	30.5 (R)	13.5 (R)	28.1 (R)	68.2 (R)
Iron	mg/kg	28200	6810	29300	25200	26200	-	-	-	-	-	-
Lead	mg/kg	44.4 *J	117 *J	7.7 *J	15.2 *J	24.9 *J	-	-	-	-	-	-
Magnesium	mg/kg	13300	3680	9180	5580	2530	-	-	-	-	-	-
Manganese	mg/kg	467 NJ*	89.2 NJ*	2810 NJ*	705 NJ*	320 NJ*	-	-	-	-	-	-
Mercury	mg/kg	U	0.45 NJ	U	U	U	-	-	-	-	-	-
Nickel	mg/kg	4590	24300	669	38.4	15.9	21.8	25.8	31.2	14.2	35.1	34.4
Potassium	mg/kg	3380	498 B	1650	1790	1570	-	-	-	-	-	-
Selenium	mg/kg	1.6 B	3.2	0.33 BWJ	0.42 B	0.54 B	-	-	-	-	-	-
Silver	mg/kg	R	7.1 NJ	R	R	R	-	-	-	-	-	-
Sodium	mg/kg	U	U	114 B	35.3 B	U	-	-	-	-	-	-
Vanadium	mg/kg	U	U	38.8 NJ	38.2 NJ	34.5 NJ	-	-	-	-	-	-
Zinc	mg/kg	1930	3790	1010	115	81.9	-	-	-	-	-	-
<i>Polychlorinated Biphenyls</i>												
Aroclor-1254 (PCB-1254)	mg/kg	0.056 J	U	0.77	U	U	-	-	-	-	-	-

**ANALYTICAL RESULTS
SOIL DATA
ELYRIA, OHIO**

<i>Sample Location:</i>	S3	S4	S5	S6	S7	SB-016	SB-017	SB-018	SB-019	SB-020	SB-021
<i>Sample ID:</i>	S3	S4	S5	S6	S7	SB-016	SB-017	SB-018	SB-019	SB-020	SB-021
<i>Sample Depth:</i>	2.5-2.5 ft BGS	1-1 ft BGS	1.5-2 ft BGS	1.5-2 ft BGS	- Unknown	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS
<i>Sample Date:</i>	9/18/1990	9/18/1990	9/18/1990	9/18/1990	9/18/1990	7/28/1988	7/28/1988	7/28/1988	7/28/1988	7/28/1988	7/28/1988

Pesticides

4,4'-DDD	mg/kg	U	U	0.11	U	U	-	-	-	-	-	-

General Chemistry

Cyanide (total)	mg/kg	U	143 NJ	U	U	U	-	-	-	-	-	-
Total Solids	%	-	-	-	-	-	84.9	88.7	89	89.4	81.3	91.3

Notes:

B - Method blank contamination.

B - Estimated Value (for Metal)

D - Compounds at secondary dilution factor.

NJ - Presence tentatively identified. Estimated value.

J - Estimated value.

(R) - Spike recovery not within control limit.

R - Reject.

U - Not present at or above the associated value

W - Post-digestion spike out of control limits, etc.

ANALYTICAL RESULTS
SOIL DATA
ELYRIA, OHIO

Sample Location:	SB-022	SB-023	SB-024	SB-025	SB-026	SB-030	SB-031	SB-032	SB-033	SB-034	TR-001
Sample ID:	SB-022	SB-023	SB-024	SB-025	SB-026	SB-030	SB-031	SB-032	SB-033	SB-034	TR-001
Sample Depth:	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	8-10 ft BGS	18.5-18.5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	7-7 ft BGS
Sample Date:	7/28/1988	7/29/1988	7/29/1988	7/29/1988	8/4/1988	8/9/1988	8/1/1988	8/1/1988	8/1/1988	8/1/1988	7/21/1988

Parameters: Units

Volatile Organic Compounds

1,1,1-Trichloroethane	mg/kg	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/kg	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/kg	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/kg	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/kg	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	mg/kg	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/kg	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/kg	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	-	-	-	-	-	-	-	-	-	-
Acetone	mg/kg	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/kg	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/kg	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/kg	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/kg	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/kg	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/kg	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/kg	-	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/kg	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/kg	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/kg	-	-	-	-	-	-	-	-	-	-
Styrene	mg/kg	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/kg	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	mg/kg	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/kg	-	-	-	-	-	-	-	-	-	-
Xylene (total)	mg/kg	-	-	-	-	-	-	-	-	-	-

Volatile Organic Compounds - SPLP

1,1,1-Trichloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-	-	0.005 U
1,1,2,2-Tetrachloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-	-	0.005 U
1,1,2-Trichloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-	-	0.005 U

ANALYTICAL RESULTS
SOIL DATA
ELYRIA, OHIO

<i>Sample Location:</i>		<i>SB-022</i>	<i>SB-023</i>	<i>SB-024</i>	<i>SB-025</i>	<i>SB-026</i>	<i>SB-030</i>	<i>SB-031</i>	<i>SB-032</i>	<i>SB-033</i>	<i>SB-034</i>	<i>TR-001</i>
<i>Sample ID:</i>		<i>SB-022</i>	<i>SB-023</i>	<i>SB-024</i>	<i>SB-025</i>	<i>SB-026</i>	<i>SB-030</i>	<i>SB-031</i>	<i>SB-032</i>	<i>SB-033</i>	<i>SB-034</i>	<i>TR-001</i>
<i>Sample Depth:</i>		<i>3-5 ft BGS</i>	<i>3-5 ft BGS</i>	<i>3-5 ft BGS</i>	<i>3-5 ft BGS</i>	<i>8-10 ft BGS</i>	<i>18.5-18.5 ft BGS</i>	<i>3-5 ft BGS</i>	<i>3-5 ft BGS</i>	<i>3-5 ft BGS</i>	<i>3-5 ft BGS</i>	<i>7-7 ft BGS</i>
<i>Sample Date:</i>		<i>7/28/1988</i>	<i>7/29/1988</i>	<i>7/29/1988</i>	<i>7/29/1988</i>	<i>8/4/1988</i>	<i>8/9/1988</i>	<i>8/1/1988</i>	<i>8/1/1988</i>	<i>8/1/1988</i>	<i>8/1/1988</i>	<i>7/21/1988</i>
1,1-Dichloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-	-	0.005 U
1,1-Dichloroethene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-	-	0.005 U
1,2-Dichloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-	-	0.005 U
1,2-Dichloroethene (total)	mg/kg	0.005	0.005 U	0.005 U	0.005 U	0.005 U	0.017	-	-	-	-	0.005 U
1,2-Dichloropropane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-	-	0.005 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	0.009 JB	0.01 B	0.009 JB	0.008 JB	0.01 U	0.01 U	-	-	-	-	0.01 U
2-Hexanone	mg/kg	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	0.01 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	0.01 U
Acetone	mg/kg	0.038 B	0.024 B	0.023 B	0.017 B	0.01 U	0.018	-	-	-	-	0.016 B
Benzene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-	-	0.005 U
Bromodichloromethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-	-	0.005 U
Bromoform	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-	-	0.005 U
Bromomethane (Methyl Bromide)	mg/kg	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	0.01 U
Carbon disulfide	mg/kg	0.005	0.005 U	0.005	0.003 J	0.005 U	0.005 U	-	-	-	-	0.005 U
Carbon tetrachloride	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-	-	0.005 U
Chlorobenzene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-	-	0.005 U
Chloroethane	mg/kg	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	0.01 U
Chloroform (Trichloromethane)	mg/kg	0.003 J	0.001 J	0.004 J	0.005 U	0.005 U	0.005 U	-	-	-	-	0.005 U
Chloromethane (Methyl Chloride)	mg/kg	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	0.01 U
cis-1,3-Dichloropropene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-	-	0.005 U
Dibromochloromethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-	-	0.005 U
Ethylbenzene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-	-	0.005 U
Methylene chloride	mg/kg	0.025 B	0.015 B	0.04 B	0.021 B	0.005 U	0.005 U	-	-	-	-	0.008 B
Styrene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-	-	0.005 U
Tetrachloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-	-	0.005 U
Toluene	mg/kg	0.009	0.003 J	0.006	0.004 J	0.005 U	0.005 U	-	-	-	-	0.005 U
trans-1,3-Dichloropropene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-	-	0.005 U
Trichloroethane	mg/kg	0.093	0.013	0.023	0.014	0.005 U	0.005 U	-	-	-	-	0.005 U
Vinyl acetate	mg/kg	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	0.01 U
Vinyl chloride	mg/kg	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	-	-	-	-	0.01 U
Xylene (total)	mg/kg	0.007	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	-	-	-	0.005 U
<i>Semi-volatile Organic Compounds</i>												
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-

ANALYTICAL RESULTS
SOIL DATA
ELYRIA, OHIO

<i>Sample Location:</i>	SB-022	SB-023	SB-024	SB-025	SB-026	SB-030	SB-031	SB-032	SB-033	SB-034	TR-001
<i>Sample ID:</i>	SB-022	SB-023	SB-024	SB-025	SB-026	SB-030	SB-031	SB-032	SB-033	SB-034	TR-001
<i>Sample Depth:</i>	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	8-10 ft BGS	18.5-18.5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	7-7 ft BGS
<i>Sample Date:</i>	7/28/1988	7/29/1988	7/29/1988	7/29/1988	8/4/1988	8/9/1988	8/1/1988	8/1/1988	8/1/1988	8/1/1988	7/21/1988
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/kg	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/kg	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	mg/kg	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/kg	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/kg	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	mg/kg	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-	-	-	-
Acenaphthene	mg/kg	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	mg/kg	-	-	-	-	-	-	-	-	-	-
Anthracene	mg/kg	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/kg	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/kg	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	-	-	-	-	-
Benzoic acid	mg/kg	-	-	-	-	-	-	-	-	-	-
Benzyl Alcohol	mg/kg	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/kg	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	mg/kg	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate	mg/kg	-	-	-	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	mg/kg	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	mg/kg	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	mg/kg	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	mg/kg	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	-	-	-	-	-	-	-	-
Fluorene	mg/kg	-	-	-	-	-	-	-	-	-	-

ANALYTICAL RESULTS
SOIL DATA
ELYRIA, OHIO

<i>Sample Location:</i>		<i>SB-022</i>	<i>SB-023</i>	<i>SB-024</i>	<i>SB-025</i>	<i>SB-026</i>	<i>SB-030</i>	<i>SB-031</i>	<i>SB-032</i>	<i>SB-033</i>	<i>SB-034</i>	<i>TR-001</i>
<i>Sample ID:</i>		<i>SB-022</i>	<i>SB-023</i>	<i>SB-024</i>	<i>SB-025</i>	<i>SB-026</i>	<i>SB-030</i>	<i>SB-031</i>	<i>SB-032</i>	<i>SB-033</i>	<i>SB-034</i>	<i>TR-001</i>
<i>Sample Depth:</i>		<i>3-5 ft BGS</i>	<i>3-5 ft BGS</i>	<i>3-5 ft BGS</i>	<i>3-5 ft BGS</i>	<i>8-10 ft BGS</i>	<i>18.5-18.5 ft BGS</i>	<i>3-5 ft BGS</i>	<i>3-5 ft BGS</i>	<i>3-5 ft BGS</i>	<i>3-5 ft BGS</i>	<i>7-7 ft BGS</i>
<i>Sample Date:</i>		<i>7/28/1988</i>	<i>7/29/1988</i>	<i>7/29/1988</i>	<i>7/29/1988</i>	<i>8/4/1988</i>	<i>8/9/1988</i>	<i>8/1/1988</i>	<i>8/1/1988</i>	<i>8/1/1988</i>	<i>8/1/1988</i>	<i>7/21/1988</i>
Hexachlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Isophorone	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Phenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Pyrene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
<i>Metals</i>												
Aluminum	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/kg	110 *	64.2 *	952 *	1450 *	3.4	34.4	19.4 *	55.4 *	36.4 *	26.8 *	15.2
Cobalt	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/kg	63.3 (R)	119 (R)	3100 (R)	5100 (R)	6.04 *	98.7	22.1 *	54.4 *	72.6 *	27.3 *	45.4
Iron	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	5.7 U (R)	18	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/kg	59.8	362	823	1120	6.53 *	38.5	12.1 (R)	38.2 (R)	50.6 (R)	22.1 (R)	44.9
Potassium	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	11.6 *	65.3	-	-	-	-	-
<i>Polychlorinated Biphenyls</i>												
Aroclor-1254 (PCB-1254)	mg/kg	-	-	-	-	-	-	-	-	-	-	-

ANALYTICAL RESULTS
SOIL DATA
ELYRIA, OHIO

Sample Location:	SB-022	SB-023	SB-024	SB-025	SB-026	SB-030	SB-031	SB-032	SB-033	SB-034	TR-001
Sample ID:	SB-022	SB-023	SB-024	SB-025	SB-026	SB-030	SB-031	SB-032	SB-033	SB-034	TR-001
Sample Depth:	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	8-10 ft BGS	18.5-18.5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	7-7 ft BGS
Sample Date:	7/28/1988	7/29/1988	7/29/1988	7/29/1988	8/4/1988	8/9/1988	8/1/1988	8/1/1988	8/1/1988	8/1/1988	7/21/1988

Pesticides

4,4'-DDD	mg/kg	-	-	-	-	-	-	-	-	-	-

General Chemistry

Cyanide (total)	mg/kg	-	-	-	-	-	-	-	-	-	-
Total Solids	%	91	85	86.3	82.9	86.7	85.8	89.1	83.4	85.4	85.8

Notes:
B - Method blank contamination.
B - Estimated Value (for Metal)
D - Compounds at secondary dilution factor.
NJ - Presence tentatively identified. Estimated value.
J - Estimated value.
(R) - Spike recovery not within control limit.
R - Reject.
U - Not present at or above the associated value
W - Post-digestion spike out of control limits, etc.

ANALYTICAL RESULTS
SOIL DATA
ELYRIA, OHIO

<i>Sample Location:</i>	<i>TR-002</i>	<i>TR-003</i>	<i>TR-004</i>	<i>TR-005</i>	<i>TR-006</i>	<i>TR-007</i>	<i>TR-008</i>	<i>TR-009</i>	<i>TR-012</i>
<i>Sample ID:</i>	<i>TR-002</i>	<i>TR-003</i>	<i>TR-004</i>	<i>TR-005</i>	<i>TR-006</i>	<i>TR-007</i>	<i>TR-008</i>	<i>TR-009</i>	<i>TR-012</i>
<i>Sample Depth:</i>	<i>2-2 ft BGS</i>	<i>4-4 ft BGS</i>	<i>2.5-5 ft BGS</i>	<i>3-5 ft BGS</i>	<i>6-7 ft BGS</i>	<i>2.5-5 ft BGS</i>	<i>- Depth Composite</i>	<i>- Unknown</i>	<i>- Near Surface</i>
<i>Sample Date:</i>	<i>7/21/1988</i>	<i>7/21/1988</i>	<i>7/21/1988</i>	<i>7/22/1988</i>	<i>7/22/1988</i>	<i>7/22/1988</i>	<i>7/22/1988</i>	<i>7/26/1988</i>	<i>7/26/1988</i>

Parameters: *Units*

Volatile Organic Compounds

1,1,1-Trichloroethane	mg/kg	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/kg	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/kg	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/kg	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/kg	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	mg/kg	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	mg/kg	-	-	-	-	-	-	-	-
2-Hexanone	mg/kg	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	-	-	-	-	-	-	-	-
Acetone	mg/kg	-	-	-	-	-	-	-	-
Benzene	mg/kg	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/kg	-	-	-	-	-	-	-	-
Bromoform	mg/kg	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	mg/kg	-	-	-	-	-	-	-	-
Carbon disulfide	mg/kg	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/kg	-	-	-	-	-	-	-	-
Chlorobenzene	mg/kg	-	-	-	-	-	-	-	-
Chloroethane	mg/kg	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/kg	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	mg/kg	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/kg	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	-	-	-	-	-	-	-	-
Methylene chloride	mg/kg	-	-	-	-	-	-	-	-
Styrene	mg/kg	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/kg	-	-	-	-	-	-	-	-
Toluene	mg/kg	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	-	-	-	-	-	-	-	-
Vinyl acetate	mg/kg	-	-	-	-	-	-	-	-
Vinyl chloride	mg/kg	-	-	-	-	-	-	-	-
Xylene (total)	mg/kg	-	-	-	-	-	-	-	-

Volatile Organic Compounds - SPLP

1,1,1-Trichloroethane	mg/kg	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1,2,2-Tetrachloroethane	mg/kg	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1,2-Trichloroethane	mg/kg	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U

ANALYTICAL RESULTS
SOIL DATA
ELYRIA, OHIO

<i>Sample Location:</i>		<i>TR-002</i>	<i>TR-003</i>	<i>TR-004</i>	<i>TR-005</i>	<i>TR-006</i>	<i>TR-007</i>	<i>TR-008</i>	<i>TR-009</i>	<i>TR-012</i>
<i>Sample ID:</i>		<i>TR-002</i>	<i>TR-003</i>	<i>TR-004</i>	<i>TR-005</i>	<i>TR-006</i>	<i>TR-007</i>	<i>TR-008</i>	<i>TR-009</i>	<i>TR-012</i>
<i>Sample Depth:</i>		<i>2-2 ft BGS</i>	<i>4-4 ft BGS</i>	<i>2.5-5 ft BGS</i>	<i>3-5 ft BGS</i>	<i>6-7 ft BGS</i>	<i>2.5-5 ft BGS</i>	<i>- Depth Composite</i>	<i>- Unknown</i>	<i>- Near Surface</i>
<i>Sample Date:</i>		<i>7/21/1988</i>	<i>7/21/1988</i>	<i>7/21/1988</i>	<i>7/22/1988</i>	<i>7/22/1988</i>	<i>7/22/1988</i>	<i>7/22/1988</i>	<i>7/26/1988</i>	<i>7/26/1988</i>
1,1-Dichloroethane	mg/kg	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1-Dichloroethene	mg/kg	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichloroethane	mg/kg	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichloroethene (total)	mg/kg	0.005 U	0.041	0.15	0.005 U	0.005 U	0.005 U	0.005 U	0.1	0.005 U
1,2-Dichloropropane	mg/kg	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	0.01 U	0.01 U	0.12	0.01 U	0.005 JB	0.006 JB	0.005 JB	0.01 U	0.013 B
2-Hexanone	mg/kg	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	0.01 U	0.01 U	0.16	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Acetone	mg/kg	0.014 B	0.018 B	0.41 B	0.007 JB	0.007 JB	0.008 JB	0.005 JB	0.008 JB	0.011 B
Benzene	mg/kg	0.005 U	0.005 U	0.036	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromodichloromethane	mg/kg	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromoform	mg/kg	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromomethane (Methyl Bromide)	mg/kg	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Carbon disulfide	mg/kg	0.004 J	0.004 J	0.041 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/kg	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chlorobenzene	mg/kg	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloroethane	mg/kg	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chloroform (Trichloromethane)	mg/kg	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloromethane (Methyl Chloride)	mg/kg	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
cis-1,3-Dichloropropene	mg/kg	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Dibromochloromethane	mg/kg	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethylbenzene	mg/kg	0.005	0.005 U	0.83	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methylene chloride	mg/kg	0.016 B	0.012 B	0.078 B	0.012 B	0.012 B	0.016 B	0.009 B	0.004 JB	0.004 JB
Styrene	mg/kg	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Tetrachloroethane	mg/kg	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Toluene	mg/kg	0.006	0.005 U	15 D	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
trans-1,3-Dichloropropene	mg/kg	0.005 U	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Trichloroethane	mg/kg	0.005 U	0.005	0.025 U	0.005 U	0.005 U	0.006	0.004 JB	0.042	0.005 U
Vinyl acetate	mg/kg	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vinyl chloride	mg/kg	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Xylene (total)	mg/kg	0.012	0.005 U	37 D	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
<i>Semi-volatile Organic Compounds</i>										
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/kg	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	-	-	-	-	-	-	-	-	-

ANALYTICAL RESULTS
SOIL DATA
ELYRIA, OHIO

<i>Sample Location:</i>		TR-002	TR-003	TR-004	TR-005	TR-006	TR-007	TR-008	TR-009	TR-012
<i>Sample ID:</i>		TR-002	TR-003	TR-004	TR-005	TR-006	TR-007	TR-008	TR-009	TR-012
<i>Sample Depth:</i>		2-2 ft BGS	4-4 ft BGS	2.5-5 ft BGS	3-5 ft BGS	6-7 ft BGS	2.5-5 ft BGS	- Depth Composite	- Unknown	- Near Surface
<i>Sample Date:</i>		7/21/1988	7/21/1988	7/21/1988	7/22/1988	7/22/1988	7/22/1988	7/22/1988	7/26/1988	7/26/1988
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/kg	-	-	-	-	-	-	-	-	-
2-Chlorophenol	mg/kg	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/kg	-	-	-	-	-	-	-	-	-
2-Methylphenol	mg/kg	-	-	-	-	-	-	-	-	-
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/kg	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/kg	-	-	-	-	-	-	-	-	-
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	-	-	-	-	-	-	-	-	-
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	-	-
4-Methylphenol	mg/kg	-	-	-	-	-	-	-	-	-
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-	-	-
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-	-	-
Acenaphthene	mg/kg	-	-	-	-	-	-	-	-	-
Acenaphthylene	mg/kg	-	-	-	-	-	-	-	-	-
Anthracene	mg/kg	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/kg	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/kg	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	-	-	-	-
Benzoic acid	mg/kg	-	-	-	-	-	-	-	-	-
Benzyl Alcohol	mg/kg	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/kg	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	mg/kg	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate	mg/kg	-	-	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-	-
Diethyl phthalate	mg/kg	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	mg/kg	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	mg/kg	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	mg/kg	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	-	-	-	-	-	-	-
Fluorene	mg/kg	-	-	-	-	-	-	-	-	-

ANALYTICAL RESULTS
SOIL DATA
ELYRIA, OHIO

<i>Sample Location:</i>		<i>TR-002</i>	<i>TR-003</i>	<i>TR-004</i>	<i>TR-005</i>	<i>TR-006</i>	<i>TR-007</i>	<i>TR-008</i>	<i>TR-009</i>	<i>TR-012</i>
<i>Sample ID:</i>		<i>TR-002</i>	<i>TR-003</i>	<i>TR-004</i>	<i>TR-005</i>	<i>TR-006</i>	<i>TR-007</i>	<i>TR-008</i>	<i>TR-009</i>	<i>TR-012</i>
<i>Sample Depth:</i>		<i>2-2 ft BGS</i>	<i>4-4 ft BGS</i>	<i>2.5-5 ft BGS</i>	<i>3-5 ft BGS</i>	<i>6-7 ft BGS</i>	<i>2.5-5 ft BGS</i>	<i>- Depth Composite</i>	<i>- Unknown</i>	<i>- Near Surface</i>
<i>Sample Date:</i>		<i>7/21/1988</i>	<i>7/21/1988</i>	<i>7/21/1988</i>	<i>7/22/1988</i>	<i>7/22/1988</i>	<i>7/22/1988</i>	<i>7/22/1988</i>	<i>7/26/1988</i>	<i>7/26/1988</i>
Hexachlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	-	-	-	-	-	-	-	-	-
Hexachloroethane	mg/kg	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	-	-	-	-
Isophorone	mg/kg	-	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	-	-	-	-	-	-	-	-	-
Nitrobenzene	mg/kg	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/kg	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/kg	-	-	-	-	-	-	-	-	-
Pentachlorophenol	mg/kg	-	-	-	-	-	-	-	-	-
Phenanthrene	mg/kg	-	-	-	-	-	-	-	-	-
Phenol	mg/kg	-	-	-	-	-	-	-	-	-
Pyrene	mg/kg	-	-	-	-	-	-	-	-	-
<i>Metals</i>										
Aluminum	mg/kg	-	-	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-	-	-	-
Chromium Total	mg/kg	7410	1790	14.3	2060	19	2120	22.8	3250	28.5
Cobalt	mg/kg	-	-	-	-	-	-	-	-	-
Copper	mg/kg	29100	16500	18700	1150	14.7	470	43.3	1080	41.5
Iron	mg/kg	-	-	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	-	-	-
Manganese	mg/kg	-	-	-	-	-	-	-	-	-
Mercury	mg/kg	-	-	-	-	-	-	-	-	-
Nickel	mg/kg	12300	660	236	2310	18.8	506	52.7	911	42
Potassium	mg/kg	-	-	-	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-	-	-	-
Sodium	mg/kg	-	-	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-	-	-	-
<i>Polychlorinated Biphenyls</i>										
Aroclor-1254 (PCB-1254)	mg/kg	-	-	-	-	-	-	-	-	-

ANALYTICAL RESULTS
SOIL DATA
ELYRIA, OHIO

Sample Location:	TR-002	TR-003	TR-004	TR-005	TR-006	TR-007	TR-008	TR-009	TR-012
Sample ID:	TR-002	TR-003	TR-004	TR-005	TR-006	TR-007	TR-008	TR-009	TR-012
Sample Depth:	2-2 ft BGS	4-4 ft BGS	2.5-5 ft BGS	3-5 ft BGS	6-7 ft BGS	2.5-5 ft BGS	- Depth Composite	- Unknown	- Near Surface
Sample Date:	7/21/1988	7/21/1988	7/21/1988	7/22/1988	7/22/1988	7/22/1988	7/22/1988	7/26/1988	7/26/1988

Pesticides										
4,4'-DDD	mg/kg	-	-	-	-	-	-	-	-	
General Chemistry										
Cyanide (total)	mg/kg	-	-	-	-	-	-	-	-	
Total Solids	%	81.8	77.8	86	80.4	83.9	79.8	85.3	80.5	64

Notes:

B - Method blank contamination.

B - Estimated Value (for Metal)

D - Compounds at secondary dilution factor.

NJ - Presence tentatively identified. Estimated value.

J - Estimated value.

(R) - Spike recovery not within control limit.

R - Reject.

U - Not present at or above the associated value

W - Post-digestion spike out of control limits, etc.

APPENDIX B

HUMAN HEALTH RISK EVALUATION, SUPPORTING INFORMATION AND CALCULATIONS

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Attachment B.1 – Physical Chemical Properties, Toxicity Values and Exposure Factors

Attachment B.2 – Risk-Based Criteria Development and Risk Calculations for Routine Worker

Attachment B.3 – Risk-Based Criteria Development and Risk Calculations for Maintenance Worker

Attachment B.4 – Risk-Based Criteria Development and Risk Calculations for Residents

Attachment B.5 – Cumulative Cancer Risk and HI Estimates

B.1 INTRODUCTION

This appendix describes the methodology, assumptions and calculations that support the derivation of risk-based screening criteria and the human health risk assessment provided in the Site Summary Report for the Closed Landfill Site (“Site”) located in Elyria, Ohio. The information in this document is organized in sections that correspond to the exposure scenarios for the following potentially exposed populations identified in the conceptual site model (CSM) presented on Table 1:

- Routine Workers
- Maintenance Workers
- Trespassers
- Off-Site Residents

The human health risk evaluation assesses the potential significance of exposures to affected environmental media under current and reasonably expected future land and groundwater use at and around the Site. The methods applied in this evaluation are based on USEPA human health risk assessment guidance.

B.2 DATA PREPARATION

The soil and groundwater data from all previous investigations at the Site are included in the data summary tables for each area discussed in Section 4 of the Site Summary Report. The sample collection dates of the data used in this assessment range from 1988 to 1990 for soil and from 1982 to 2006 for groundwater. Much of the data used in this assessment is un-validated, which results in some uncertainty in their quality. To address this uncertainty, it was conservatively assumed that all reported values represented detected concentrations, unless the result was U or R qualified. This is a conservative assumption, as some of the data may have been rejected, estimated or determined to be at levels below analytical limits through validation. Data with the following data qualifiers are evaluated in this assessment:

- Constituent concentrations qualified as not detected (i.e., U or UJ-qualified data) are evaluated as non-detects.
- Constituent concentrations qualified as not usable (i.e., R-qualified data) are not included in the risk assessment.
- Concentrations qualified as estimated (i.e., J-qualified data) are included for quantitative assessment.

- Concentrations qualified as method blank contaminated (i.e., B-qualified data) are included for quantitative assessment.
- Concentrations qualified as duplicate analysis not within control limits (i.e., *-qualified data) are included for quantitative assessment.
- Concentrations qualified as compounds analyzed after dilution (i.e., D-qualified data) are included for quantitative assessment.
- Concentrations qualified as sample recovery not within control limits (i.e., N-qualified data) are included for quantitative assessment.
- Concentrations qualified as spike recovery not within control limits (i.e., (R)-qualified data) are included for quantitative assessment.
- Concentrations qualified as post-digestion spike outside control limits (i.e., W-qualified data) are included for quantitative assessment.
- Concentrations qualified as duplicate instrument injection/aspiration, precision was >20% RDS, results must be consider estimated (i.e., DI-qualified data) are included for quantitative assessment.
- Concentrations qualified as result is equal to the detection limit, data is thought to be non-detected (i.e., K-qualified data) are included for quantitative assessment.

B.3 PHYSICAL/CHEMICAL PROPERTIES

The physical/chemical properties used in the calculations presented in this Appendix are presented in Attachment B.1. The hierarchy of sources used to obtain these values was based on the methodology described in USEPA's Soil Screening Guidance Technical Background Document (1996). Specific sources for each value reported are presented in Attachment B.1.

B.4 TOXICITY ASSESSMENT

A toxicity assessment identifies potential adverse health effects that are associated with exposure to chemicals, and determines the dose-response relationship between exposure and the occurrence of adverse effects. The toxicity values used in deriving site-specific estimates of cumulative cancer risks and noncancer hazard indices (HIs), were compiled from the following USEPA hierarchy of sources (USEPA 2003b):

1. Integrated Risk Information System (IRIS)
2. Provisional Peer Reviewed Toxicity Values (PPRTV)
3. Other (i.e, additional USEPA (e.g., HEAST) and non-EPA sources of toxicity information)

When a toxicity value was not available from the first two tiers of sources, other USEPA sources of toxicity values were consulted. The toxicity values used in the risk assessment and their sources are presented in Attachment B.1 and are discussed below.

B.4.1 Toxicity Values for Carcinogens

USEPA considers chemicals belonging to the following USEPA cancer weight-of-evidence groups as human carcinogens:

Group A	Known Human Carcinogen: Sufficient evidence of carcinogenicity in humans
Group B1	Probable or Likely Human Carcinogen: Limited evidence of carcinogenicity in humans
Group B2	Probable or Likely Human Carcinogen: Sufficient evidence of carcinogenicity in animals with inadequate or lack of evidence in humans
Group C	Possible Human Carcinogen: Suggestive evidence of carcinogenicity in animals and inadequate, insufficient, or lack of evidence in humans

As shown in Attachment B.1, USEPA has designated some of the constituents as Group B2 or Group C, which means that USEPA acknowledges that there is either inadequate or a lack of evidence that these constituents actually cause cancer in humans. Therefore, evaluating these constituents as human carcinogens in the risk assessment is highly conservative.

USEPA-derived cancer slope factors (SFs) and inhalation unit risk factors (URFs) for carcinogenic constituents and their sources are shown in Attachment B.1. The oral SFs and URFs represent 95% upper confidence bounds on the probability of getting cancer over a lifetime per unit dose. As recognized by USEPA, there is significant scientific evidence that some of the SFs and URFs may be overly conservative and may ignore the potential existence of threshold doses. Nonetheless, they are used here as conservative assessment tools.

B.4.2 Toxicity Values for Noncarcinogens

USEPA-derived chronic reference doses (RfDs) and chronic inhalation reference concentrations (RfCs) and their sources are shown in Appendix B.1. These values and their sources are included in Appendix B.1.

The oral RfDs and inhalation RfCs represent conservative estimates of the daily exposure to the human population, including sensitive subpopulations (e.g., children), which are likely to be without an

appreciable risk of deleterious effects during a lifetime. These RfDs and RfCs typically incorporate several safety factors to account for uncertainties in their derivation, which in combination often result in overall uncertainty factors of 1,000 or more. Furthermore, for many constituents, there is significant scientific debate about the validity of these RfDs and RfCs, and the association of these doses and concentrations to potential adverse health consequences. Nonetheless, the RfDs and RfCs are used here as conservative assessment tools.

B.4.3 Extrapolation of Toxicity Values

The USEPA sources of toxicity values do not provide dermal toxicity values for any of the constituents. Therefore, oral toxicity values (i.e., oral SFs and RfDs) are used as dermal toxicity values in this risk assessment. Adjustments to the oral toxicity values are made in this route-to-route extrapolation based on USEPA guidance (USEPA 2004b).

The USEPA sources of toxicity values do not provide inhalation toxicity values (URFs and RfCs) for all of the constituents. For a constituent that has no inhalation toxicity value, the oral SF and/or RfD, if available, is converted to an URF and/or RfC using default USEPA assumptions (USEPA 1997).

B.4.4 Lead

The soil lead data were evaluated separately, since USEPA guidance recommends evaluating lead exposures based on blood lead rather than cancer risk or HI. For characterization regarding potential worker exposures to lead in soil, the soil lead data were compared to the USEPA-recommended range of screening criteria for industrial workers, which is 750 mg/kg to 1,750 mg/kg (USEPA 2003a). These soil criteria are intended to protect workers that include child-bearing age women, and are based upon an assumed exposure frequency of 219 days per year.

B.5 ROUTINE WORKERS

The risk assessment evaluates potential exposure of on-Site routine workers via direct contact and inhalation of outdoor soil. Potential exposure of on-Site indoor routine workers via vapor intrusion from soil is also evaluated. Potential exposure of on- and off-Site indoor routine workers via vapor intrusion from groundwater is evaluated conservatively using the exposure factors for off-Site residents. This streamlines the risk assessment and is conservative because routine worker exposures to groundwater volatilization to indoor air would be lower than residents. Site-related soil contamination is not expected to have migrated off-Site. Off-Site inhalation exposures to on-Site soil may be possible via windblown dust and vapors generated from exposed soil or during excavation activities at the Site.

Exposure factors assumed for routine worker exposure are presented and discussed in Section B.5.1. The computation of risk estimates associated with exposure via contact with outdoor soil is discussed in Section B.5.2, and the computation of risk estimates associated with exposure via vapor intrusion is discussed in Section B.5.3.

B.5.1 Exposure Factors

Potential exposure of routine workers is conservatively evaluated using standard default exposure factors. These are presented on Attachment B.2. According to USEPA (2002b), the standard default exposure factors are conservative assumptions about the magnitude, frequency, and duration of exposures, which in combination are intended to provide estimates of exposures that are higher than actual exposures to a large portion (90% to 99%) of a potentially exposed population.

Soil Ingestion Rate

The soil ingestion rate of 50 mg/day is EPA's recommended value for evaluating the reasonable maximum exposure (RME) in industrial settings (USEPA 1991a).

Soil Dermal Contact Rate

The dermal contact rate is the product of the exposed skin surface area and the soil adherence factor. The surface area of 3,300 cm² and adherence factor of 0.2 mg/cm² are EPA's recommended values for evaluating RME in industrial settings (USEPA 2004b).

Exposure Frequency

The frequency of 250 days/year is EPA's recommended value for evaluating RME in industrial settings (USEPA 1991a). The value is based on a 5-day work week and 50 weeks per year.

Exposure Duration

The duration of 25 years is EPA's recommended value for evaluating RME in industrial settings (USEPA 1991a). The value is the 95th percentile number of years workers work at one location.

Body Weight

The body weight of 70 kg is the standard EPA-recommended value for assessing exposure of adults (USEPA 1989).

Averaging Time

The averaging time for evaluating exposures to carcinogens is 70 years. The averaging time for evaluating exposures to noncarcinogens is the exposure duration (USEPA 1989).

Although it is recognized that the use of these exposure factors, rather than site-specific factors, results in an overestimation of reasonable maximum exposure (RME) risks at the Site, this approach streamlines the risk assessment by allowing the estimates to be calculated very efficiently. The evaluation is also streamlined because the added conservatism in the risk estimates is based on standard default exposure factors allowing them to be used as conservative estimates for other receptors. In this risk assessment, the risk estimates for routine worker direct contact and inhalation exposure are also used to evaluate potential exposures of trespassers via soil direct contact and inhalation, off-Site

receptors via inhalation, and on-Site maintenance workers via soil direct contact and inhalation, because the exposure to these receptors are expected to be lower than those assumed for on-Site routine workers (ENVIRON 2003).

B.5.2 Contact with Outdoor Soil

This section discusses the computation of the risk estimates for worker exposure to surface soil via incidental ingestion, dermal contact, and inhalation of vapors and particulates during routine activities. Typically, estimates of cancer risk and noncancer hazard quotients (HQ) are calculated as follows:

$$Risk = LADD \cdot SF$$

$$HQ = \frac{ADD}{RfD}$$

where LADD is the lifetime average daily dose, SF is the cancer slope factor, ADD is the average daily dose, and RfD is the reference dose.

In this risk assessment, estimates of cancer risk and HQ were calculated using the following equivalent forms of these equations, which made use of risk-based criteria (RBC) that were calculated separately in advance of the risk calculations:

$$Risk = \frac{C \cdot LADD^* \cdot SF}{TR} \cdot TR = \frac{C}{RBC} \cdot TR$$

$$HQ = \frac{C \cdot ADD^*}{RfD \cdot THQ} \cdot THQ = \frac{C}{RBC} \cdot THQ$$

where C is the exposure concentration, LADD* and ADD* are doses that are normalized to unit concentration (e.g., 1 mg/kg), and TR and THQ are the target cancer risk and target HQ used in calculating the RBCs.

For the soil ingestion and dermal routes of exposure, soil RBCs were calculated as follows:

$$Cancer\ RBC = \frac{TR}{LADD^* \cdot SF}$$

$$Noncancer\ RBC = \frac{THQ \cdot RfD}{ADD^*}$$

In this assessment, soil RBCs were calculated by setting TR and THQ equal to 10^{-5} and 1, respectively. The LADD* and ADD* were calculated using the exposure factors discussed in Section B.5.1.

For the inhalation route, soil RBCs were calculated as follows:

$$\text{Cancer RBC} = \frac{TR \cdot AT_c}{URF \cdot ET \cdot EF \cdot ED} (J \cdot C / Q)^{-1}$$

$$\text{Noncancer RBC} = \frac{THQ \cdot RfC \cdot AT_{nc}}{ET \cdot EF \cdot ED} (J \cdot C / Q)^{-1}$$

where the product $J \cdot C / Q$ is an air concentration that is normalized to unit concentration in soil. The J term is the normalized, time-average vapor or particulate flux, and the C / Q term is a normalized, annual-average, on-source air concentration at ground-level.

The normalized, time-averaged vapor flux J_v of a chemical from unsaturated soil was estimated using an unsteady-state model derived by Jury et al. (1983) that USEPA has adapted for screening-level analysis (USEPA 1996). This model conservatively assumes that volatile chemicals are present in the soil to an infinite depth. The equation for J_v is given by:

$$J_v = 2 C_{s,0} \rho_b \sqrt{\frac{D_E}{\pi T}}$$

$$D_E = \frac{D_G H + D_L}{\rho_b K_d + \theta_w + \theta_a H}$$

$$D_G = D_{air} \cdot \frac{\theta_a^{10/3}}{n^2}$$

$$D_L = D_{water} \cdot \frac{\theta_w^{10/3}}{n^2}$$

Derivation of this equation and definition of the equation parameters can be found in the Jury et al. 1983 journal article and in USEPA guidance (1996), and therefore, are not repeated here. The values for chemical-specific parameters and default soil parameters for “sand” recommended in USEPA guidance (2004a) were used in calculating J_v . This is a conservative assumption given that the predominant soil type identified during characterization activities was silty clay.

The normalized, average particulate flux $J_{10,w}$ of a chemical from surface soil is conservatively estimated using the “unlimited reservoir” model that USEPA has adapted for screening-level analysis of particulate emissions from soil (USEPA 1996). This model assumes that particulate emissions are created by wind erosion. The details of this model can be found in USEPA guidance (1996), and therefore, are not repeated here.

The C/Q term was estimated using the empirical correlation in USEPA’s Supplemental Soil Screening Guidance (2002), conservatively assuming a square source area of 30 acres, and using the correlation coefficients for the Cleveland, Ohio meteorological area. Derivation of the empirical correlation for the C/Q term can be found in Appendix D of the USEPA 2002 Supplemental Soil Screening Guidance, and therefore, is not repeated here.

The RBCs for each route of exposure (ingestion, dermal contact, and inhalation) were then conservatively combined to give cancer and noncancer criteria that are based on the combination of all three exposure routes, as follows:

$$RBC = \left(\sum_i RBC_i^{-1} \right)^{-1}$$

The combined RBCs based on cancer risk and those based on noncancer effects are summarized in Attachment B.2. The lower of the cancer and noncancer combined RBCs were used as screening levels, as discussed in Section 4 of the Site Summary Report.

In the human health risk assessment, the cancer risk and HQ for each chemical was estimated using its concentration in soil C_s and RBC, as follows:

$$Risk = \frac{C_s}{RBC} \cdot TR$$

$$HQ = \frac{C_s}{RBC} \cdot THQ$$

The cumulative cancer risk and noncancer HI for exposure to a combination of constituents in a soil investigation area were conservatively estimated according to USEPA guidance (1989), as follows:

$$\text{Cumulative Risk} = \sum_i Risk_i$$

$$\text{Hazard Index} = \sum_i HQ_i$$

In this risk assessment, upper bound estimates of cumulative cancer risk and HI were based on the highest detected concentration of each constituent in soil at each investigation area. These bounding estimates are compared to USEPA's acceptable cancer risk threshold of 10^{-4} and HI threshold of 1 (61 FR 19432, May 1, 1996; USEPA 1991b).

The upper bound cumulative cancer risk estimates for all areas were below the USEPA's cancer risk threshold of 10^{-4} . The upper bound HI estimates were above the HI threshold of 1 for four areas, the Die Storage Pad, S. Trenches, Northern Sludge Area, and Southern Sludge Area, as shown on Attachment B.5. As a further refinement, the upper bound HI estimates for the Die Storage Pad and South Trenches were segregated by critical effect. This method of segregating HI estimates by critical effect is described in USEPA (1989). The critical effect/target organs and HQ estimates for the driving chemicals contributing most to the upper bound HI estimates for the Die Storage Pad and South Trenches areas are shown in Attachment B.5. In addition, the HI estimate for the remaining chemicals, not segregated by critical effect, is also presented on Attachment B.5. None of the segregated HQ estimates for the main chemicals or the HI estimate for the chemicals not segregated exceeded the threshold of 1 for these two areas. HI estimates for the routine worker from Northern Sludge and Southern Sludge Areas could not be refined in this manner, since there were chemical specific HQ estimates greater than 1.

USEPA has not developed a cancer SF or RfD for lead. Therefore, risks from exposures to lead are not expressed in terms of cancer risks or noncancer HQs. USEPA evaluates the risk from exposure to lead in soil using blood lead level as an index of exposure. Using blood lead models, USEPA has established a conservative soil screening level of 750 mg/kg to 1,750 mg/kg that is protective of routine worker exposure to lead in soil (USEPA 2003a). The highest detected concentration of lead in soil at each area was compared to a lead soil screening level of 750 mg/kg. The maximum soil lead concentration observed at the Site was 174 mg/kg. Therefore, worker exposure to lead is not expected to be significant.

The calculation of cancer and noncancer RBCs and incremental cancer risk and HQ estimates for routine worker exposure to soil via direct contact and inhalation are shown in Attachments B.2.

B.5.3 Vapor Intrusion

Routine workers could be exposed to constituents in subsurface soil and groundwater if the constituents were to volatilize and migrate through cracks in a building foundation into indoor air.

B.5.3.1 Soil

The chemical-specific cancer risk and HQ estimates for vapor intrusion from soil were calculated using risk-based criteria in a manner analogous to the approach discussed in Section B.5.2:

$$Risk = \frac{C_s}{RBC} \cdot TR$$

$$HQ = \frac{C_s}{RBC} \cdot THQ$$

In this case, C_s is the soil concentration and the soil RBCs were derived using a vapor intrusion modeling approach recommended by USEPA (2004a) for screening-level analysis. The source vapor concentration C_{source} for a constituent in soil is calculated from the constituent's concentration in soil C_{soil} , as follows:

$$C_{source} = C_{soil} \left(\frac{K_d}{H} + \frac{\theta_w}{\rho_b H} + \frac{\theta_a}{\rho_b} \right)^{-1}$$

where K_d is the equilibrium-partition coefficient (estimated as the product of the organic carbon partition coefficient K_{oc} and the soil organic carbon fraction f_{oc}), H is the Henry's law constant, θ_w is the water-filled soil porosity, ρ_b is the soil bulk density, and θ_a is the air-filled soil porosity.

The indoor air concentrations are then estimated using the following relationships described by Johnson and Ettinger (1991):

$$C_{building} = \alpha C_{source}$$

where C_{source} is the source vapor concentration in equilibrium with a groundwater concentration C_{gw} , H is the Henry's law constant, $C_{building}$ is the indoor air concentration, and α is the attenuation coefficient given by the following equation:

$$\alpha = \frac{\left[\frac{D_T^{eff} A_B}{Q_{building} L_T} \right] \exp\left(\frac{Q_{soil} L_{crack}}{D^{crack} A_{crack}} \right)}{\exp\left(\frac{Q_{soil} L_{crack}}{D^{crack} A_{crack}} \right) + \left[\frac{D_T^{eff} A_B}{Q_{building} L_T} \right] + \left[\frac{D_T^{eff} A_B}{Q_{soil} L_T} \right] \left[\exp\left(\frac{Q_{soil} L_{crack}}{D^{crack} A_{crack}} \right) - 1 \right]}$$

Derivation of this equation for α and definition of the equation parameters can be found in Johnson and Ettinger's 1991 journal article, and therefore, is not repeated here.

The effective diffusion coefficient term D_T^{eff} in the above equation for the attenuation coefficient α is calculated using a soil-water profile that was estimated based on the conservative assumption that the soil type is sand. The soil-water profile was calculated using the van Genuchten soil-water retention

equation with default water retention parameters for a sandy soil (USEPA 2004a). These parameters and the resulting soil-water profile are shown in Attachment B.2.

In developing vapor intrusion criteria, it was conservatively assumed that the building cracks are also filled with sand. The distance between contaminated soil and a building foundation L_T is assumed to be only 0.15 m, which is a default value used by the Michigan Department of Environmental Quality (MDEQ 2004) in deriving the Michigan Part 201 generic vapor intrusion criteria for soil. The remaining parameters in the equation for the attenuation coefficient α , which relate to building characteristics, are based on default values that MDEQ (2004) used in deriving the Michigan Part 201 generic vapor intrusion criteria for commercial/industrial sites. The MDEQ default values for these parameters were used because USEPA guidance provides no default values of these parameters for commercial/industrial buildings. These values are shown in Attachment B.2; their bases are discussed in MDEQ guidance (1998).

The soil RBCs were calculated as follows:

$$\text{Cancer RBC} = \frac{TR \cdot AT_c}{\alpha \cdot H \cdot URF \cdot EF \cdot ED}$$

$$\text{Noncancer RBC} = \frac{THQ \cdot RfC \cdot AT_{nc}}{\alpha \cdot H \cdot EF \cdot ED}$$

In this risk assessment, upper bound estimates of cumulative cancer risk and noncancer HI due to routine worker soil vapor intrusion exposure are based on the highest detected concentration of each constituent in soil at each area and are compared to USEPA's cancer risk threshold of 10^{-4} and noncancer HI threshold of 1, respectively. The calculation of cancer and noncancer RBCs and incremental cancer risk and HQ estimates for routine workers are shown in Attachments B.2.

The upper bound cumulative risk and HI estimates for routine worker exposure from soil volatilization into indoor air were below the USEPA's threshold for both cumulative cancer risk and noncancer HI estimates for all areas at the Site, as shown in Appendix B.6.

B.5.3.2 Groundwater

As mentioned above, potential exposure of on- and off-Site indoor routine workers via vapor intrusion from groundwater is evaluated indirectly using the exposure estimates for off-Site residents. The upper bound cumulative risk and HI estimates for routine worker exposure from groundwater volatilization into indoor air were below the USEPA's threshold for both cumulative cancer risk and noncancer HI estimates.

B.6 MAINTENANCE WORKERS

The risk assessment evaluates potential exposure of on- and off-Site maintenance workers via contact with soil and on- and off-Site maintenance workers via contact with groundwater. Exposure factors assumed for maintenance worker exposure are presented and discussed in Section B.6.1. Potential exposure of on- and off-Site maintenance workers via contact with soil is evaluated indirectly using the exposure estimates for on-Site routine workers. This streamlines the risk assessment and is conservative because maintenance worker exposures to outdoor soil would be lower than for routine workers (ENVIRON 2003). The computation of risk estimates associated with exposure via contact with groundwater is discussed in Section B.6.2.

B.6.1 Exposure Factors

The exposure factors used for evaluating potential exposure of maintenance workers to groundwater are as follows:

Groundwater Ingestion Rate

A rate of 0.005 L/hour is used for incidental ingestion of groundwater during construction work in excavations that extend into groundwater. This rate is 10% of the rate that USEPA (1989) recommends for ingestion while swimming, and represents a very conservative estimate of incidental groundwater ingestion that could occur while workers are in an excavation pit.

Groundwater Dermal Contact Rates

The exposed skin surface area of 3,300 cm² is based on the USEPA-recommended exposed skin surface area for evaluating high-end contact with soil by workers in industrial settings (USEPA 2004b). Workers are conservatively assumed to be covered with groundwater over this exposed skin surface area for 2 hours per event. The absorbed dose for organic chemicals is estimated using a nonsteady-state approach (USEPA 2004b), which is more conservative than the steady-state approach (USEPA 1989), particularly for hydrophobic chemicals. The permeability coefficients (K_p) for dermal absorption from groundwater are estimated following USEPA guidance (2004b). The nonsteady state dermal absorption for groundwater is calculated in Attachment B.3.

Exposure Frequency and Duration

The number of days of construction/maintenance activities is assumed to be 50 days, which is assumed to occur at a frequency of 5 days/year for a period of 10 years. This combination of exposure frequency and exposure duration is expected to be conservative for the amount of time that workers are actually in contact with soil and groundwater (as opposed to the total time for maintenance or construction, which typically includes time not associated with excavation). This combination of exposure frequency and exposure duration is also expected to be conservative for

the amount of time that workers may spend maintaining or repairing storm sewers or other utilities, since such utilities do not generally require periodic cleaning or maintenance. The assumption of 5 days/year can represent the time for a few small repairs per year or one larger repair. The duration of 10 years is more than twice the length of time that workers typically work at one location (USEPA 1997).

Body Weight

The body weight of 70 kg is the standard USEPA-recommended body weight for assessing exposure to adults (USEPA 1989).

Averaging Time

The averaging time for evaluating cancer risk is equal to a lifetime of 70 years, and the averaging time for evaluating noncancer risk is equal to the exposure duration (USEPA 1989).

B.6.2 Contact with Soil

As mentioned above, potential exposure of on-Site maintenance workers via direct contact and inhalation of soil is evaluated indirectly using the exposure estimates for on-Site routine workers. As discussed in Section B.5.2, the upper bound cumulative cancer risk estimates for routine worker exposure to soil were below the USEPA's threshold of 10^{-4} for all areas. The upper bound HI estimates were above the threshold of 1 for four areas: the Die Storage Pad, South Trenches, Northern Sludge Area, and Southern Sludge Area, as shown on Attachment B.5.

HI estimates for the maintenance worker were further refined by adjusting the exposure concentrations for the risk driving chemicals to a site-wide 95% upper confidence limit (UCL) on the mean concentration using the nonparametric bootstrap method known as the bias-corrected and accelerated (BCa) method with 4,000 bootstrap replications (Efron and Tibshirani 1998). Use of a site-wide UCL as an exposure concentration assumes that the maintenance worker has an equal likelihood of contacting soil throughout the entire Site during the exposure period (i.e., over a period of 10 years).. Refined estimates of maintenance worker cumulative cancer risk and HI, shown in Attachment B.5, were calculated using 95% UCLs on the mean concentrations for chromium (total), copper, nickel and trichloroethene. The maximum detected concentrations were still used as exposure concentrations for the remaining chemicals. The refined site-wide HI, which could be considered a reasonable maximum exposure (RME) estimate, was greater than the USEPA threshold of 1.

As a further refinement, the site-wide RME HI estimate was segregated by critical effect. This method of segregating HI estimates by critical effect is described in USEPA (1989). The critical effect and HQ estimates for the driving chemicals contributing most to the RME HI estimate are shown in Attachment B.5. In addition, the HI estimate for the remaining chemicals, not segregated by critical effect, is also

presented on Attachment B.5. None of the segregated HQ estimates for the main chemicals or the HI estimate for the chemicals not segregated, exceeded the threshold of 1.

The calculation of the maintenance worker incremental cancer risk and HQ estimates based on site-wide UCL or maximum concentration is shown in Attachments B.3.

B.6.3 Contact with Groundwater

Maintenance workers could be exposed to groundwater via incidental ingestion, dermal contact, and inhalation of vapors during excavations that extend to the water table. The computation of RBCs for maintenance worker exposure to groundwater via incidental ingestion, dermal contact, and vapor inhalation during occasional excavation into the water table is analogous to the computation of the soil RBCs discussed in Section B.5.2, except for the estimation of vapor concentrations.

In this case, the normalized vapor flux J of a chemical from exposed groundwater in an excavation pit is estimated using an overall mass transfer coefficient that is recommended by USEPA (1995):

$$K_L = \left(\frac{1}{k_l} + \frac{1}{H k_g} \right)^{-1} \left(\frac{m}{10^2 \text{ cm}} \right) \left(\frac{10^3 L}{m^3} \right)$$

where H is the Henry's law constant, and k_l and k_g are the liquid-phase and gas-phase mass transfer coefficients (in cm/s) given by the following:

$$k_l = \left(\frac{MW_o}{MW} \right)^{0.5} \left(\frac{T}{298^\circ K} \right) k_{l,o}$$

$$k_g = \left(\frac{MW_w}{MW} \right)^{0.335} \left(\frac{T}{298^\circ K} \right)^{1.005} k_{g,w}$$

where MW , MW_o , and MW_w are the molecular weights of the chemical, oxygen, and water, T is the water's absolute temperature, $k_{l,o}$ is the liquid-phase mass transfer coefficient for oxygen (0.002 cm/s), and $k_{g,w}$ is the gas-phase mass transfer coefficient for water vapor (0.833 cm/s).

In this risk assessment, the risk estimates are based on the highest detected concentration of each constituent in groundwater Site-wide. The calculation of maintenance worker cancer and noncancer RBCs and cumulative cancer risk and HI estimates are shown in Attachments B.3. The cumulative risk and HI estimates for maintenance worker exposure from groundwater contact and inhalation were below the USEPA's threshold for both cumulative cancer risk and noncancer HI estimates, as shown in Attachment B.5.

B.7 TRESPASSERS

The risk assessment evaluates potential exposure of adolescent trespassers to soil. Potential limited exposure of trespassers on-Site is possible, although the Site is currently surrounded by a fence and is expected to remain so in the future. The presence of the fence is expected to limit the duration and the types of activities associated with contact with the soil or exposure to ambient air particulates or vapors. While on-Site, trespassers could come into contact with soil in unpaved areas. Potential routes of exposure would include incidental ingestion, dermal contact, and inhalation of soil vapor and airborne particulates.

Trespasser exposures to soil in this risk assessment are indirectly and conservatively evaluated using exposure estimates for routine workers. The estimation of routine workers' exposure to soil is discussed in Section B.5.2. Use of an indirect evaluation streamlines the risk assessment and is conservative because trespasser exposures to surface soil would be much lower than routine worker exposures to surface soil (ENVIRON 2003).

As discussed in Section B.5.2, the upper bound cumulative cancer risk estimates for routine worker exposure to soil were below the USEPA's threshold of 10^{-4} for all areas. The upper bound HI estimates were above the threshold of 1 for four areas: the Die Storage Pad, South Trenches, Northern Sludge Area, and Southern Sludge Area, as shown on Attachment B.5.

HI estimates for the trespasser were further refined by adjusting the exposure concentrations for the risk driving chemicals to a site-wide 95% upper confidence limit (UCL) on the mean concentration using the nonparametric bootstrap method known as the bias-corrected and accelerated (BCa) method with 4,000 bootstrap replications (Efron and Tibshirani 1998). Use of a site-wide UCL as an exposure concentration assumes that the trespasser has an equal likelihood of contacting soil throughout the entire Site during his/her period of exposure. Refined estimates of trespasser cumulative cancer risk and HI, shown in Attachment B.5, were calculated using 95% UCLs on the mean concentrations for chromium (total), copper, nickel and trichloroethene. The maximum detected concentrations were still used as exposure concentrations for the remaining chemicals. The refined site-wide HI, which could be considered a reasonable maximum exposure (RME) estimate, was greater than the USEPA threshold of 1.

As a further refinement, the site-wide RME HI estimate was segregated by critical effect. This method of segregating HI estimates by critical effect is described in USEPA (1989). The critical effect and HQ estimates for the driving chemicals contributing most to the RME HI estimate are shown in Attachment B.5. In addition, the HI estimate for the remaining chemicals, not segregated by critical effect, is also presented on Attachment B.5. None of the segregated HQ estimates for the main chemicals or the HI estimate for the chemicals not segregated, exceeded the threshold of 1.

The calculation of the trespasser incremental cancer risk and HQ estimates based on the site-wide UCL or maximum concentrations are shown in Attachments B.3.

B.8 OFF-SITE RESIDENTS

The risk assessment evaluates potential exposure of off-Site residents via exposure to volatile constituents in shallow groundwater, potential exposure of nearby residents to constituents in soil at the Site due to windblown dust and vapors, and potential exposure to groundwater via drinking water intake.

Site-related soil contamination is not expected to have migrated off-Site. Off-Site inhalation exposures to on-Site soil may be possible via windblown dust and vapors generated from exposed soil or during excavation activities at the Site. Potential exposure of off-Site residents via inhalation of windblown dust and vapors from on-Site soil is evaluated indirectly using the exposure estimates for on-Site routine workers. This streamlines the risk assessment and is conservative because off-Site residential inhalation exposures to outdoor soil migrating from the Site in the form of windblown dust and vapors would be lower than the same inhalation exposure for on-Site routine workers.

Exposure factors assumed for resident exposure are presented and discussed in Section B.8.1. The computation of risk estimates associated with exposure to volatile constituents in shallow overburden groundwater via vapor migration to indoor air is discussed in Section B.8.2.

B.8.1 Contact with Outdoor Soil

Off-Site residents also could be exposed to constituents in soil that are transported off-Site by wind erosion or vapors that migrate off-Site. In this risk assessment, potential airborne exposures of off-Site receptors are indirectly, but conservatively, evaluated using exposure estimates for on-Site routine workers. Use of this indirect evaluation streamlines the risk assessment and is highly conservative because airborne exposures off-Site are expected to be much lower than exposure on-Site, due to increased dispersion with increased distance from the source soil. It is also conservative because the on-Site worker risk estimates include direct contact and ingestion exposure, which are not relevant for off-Site receptor exposure to on-Site soil. The maximum on-Site concentration for each chemical was compared to the routine worker inhalation criteria. The upper bound cumulative risk and HI estimates for residential inhalation exposure from windblown dust and vapor were below the USEPA's threshold for both cumulative cancer risk and noncancer HI estimates, at 10^{-4} and 0.5, respectively.

B.8.2 Vapor Intrusion

Residents could be exposed to constituents in groundwater if the constituents were to volatilize and migrate through cracks in a building foundation into indoor air.

B.8.2.1 Exposure Factors

The exposure factors for evaluating potential inhalation exposure of residents via vapor intrusion are standard default exposure factors. According to USEPA (2002), the standard default exposure factors are conservative assumptions about the magnitude, frequency, and duration of exposures, which in combination are intended to provide estimates of exposures that are higher than actual exposures to a large portion (90% to 99%) of a potentially exposed population.

Exposure Frequency

An exposure frequency of 350 days per year is used for evaluating high-end residential exposure of children and adults (USEPA 1991a). This exposure frequency assumes daily exposure at the residence, except for two weeks per year away from home (e.g., while on vacation).

Exposure Duration

The exposure duration is 30 years and is based on the USEPA-recommended exposure duration for evaluating high-end residential exposures (USEPA 1991a). It is the 95th percentile number of years residents live at one location.

Averaging Time

The averaging time for evaluating cancer risk is equal to a lifetime of 70 years, and the averaging time for evaluating noncancer risk is equal to the exposure duration (USEPA 1989).

Although it is recognized that the use of these exposure factors, rather than site-specific factors, results in overestimation of RME risks at the Site, this approach streamlines the risk assessment by allowing risk estimates to be calculated very efficiently. The evaluation is also streamlined because the added conservatism in the risk estimates based on standard default exposure factors allows them to be used as conservative estimates for other receptors. In this risk assessment, the groundwater vapor intrusion risk estimates for residents are used conservatively to evaluate potential exposures of routine workers, because the exposure to these receptors are expected to be lower than those assumed for residents.

B.8.2.2 Groundwater

The chemical-specific cancer risk and HQ estimates for vapor intrusion from groundwater were calculated using risk-based criteria in a manner analogous to the approach discussed in Section B.5.2:

$$Risk = \frac{C_{gw}}{RBC} \cdot TR$$

$$HQ = \frac{C_{gw}}{RBC} \cdot THQ$$

The groundwater RBCs in the above calculations are derived using the vapor intrusion modeling approach discussed in Section B.5.3.1, except the source vapor concentration was estimated the constituent's concentration in groundwater C_{gw} , as follows:

$$C_{source} = H \cdot C_{gw} \left(\frac{10^3 L}{m^3} \right)$$

where C_{source} is the source vapor concentration in equilibrium with a groundwater concentration C_{gw} , and H is the Henry's law constant.

The distance between on-Site groundwater and a building foundation is estimated to be approximately 1.14 m, which is a conservative estimate of the average depth to groundwater at the Site. The remaining parameters in the equation for α , which relate to the characteristics of a hypothetical residential building, are based on conservative default values compiled by the (MDEQ 2004) for use in deriving the vapor intrusion criteria for residential sites. The MDEQ default values for these parameters are used because they are believed to be more representative of typical residential building conditions in mid-western states. USEPA guidance does not provide default values for these parameters for residential buildings. These values are shown in Attachment B.4; their bases are discussed in MDEQ guidance (1998).

In this risk assessment, the groundwater risk and HI estimates are based on the highest detected groundwater concentration of each constituent in groundwater Site-wide. The calculation of residential cancer and noncancer RBCs and cumulative cancer risk and HI estimates are shown in Attachments B.4. The cumulative risk and HI estimates for residential exposure from groundwater volatilization into indoor air were below the USEPA's threshold for both cumulative cancer risk and noncancer HI estimates, as shown in Attachment B.5.

B.8.3 Drinking Water

Groundwater is not a current drinking water supply on-Site. Potable water is currently obtained from the City of Elyria. GM plans to implement a restriction on-Site to prohibit any groundwater use. Potable water is believed to be obtained from the City of Elyria for residences downgradient of the Site. However, GM is unaware of any current restrictions on groundwater use in the area. Current and future off-Site exposures to groundwater via potable and nonpotable use may be possible.

The drinking water criteria used in this assessment are primarily based on maximum contaminant levels (MCLs) promulgated under the Safe Drinking Water Act, but they also include similarly-derived concentration limits for chemicals that lack MCLs.

Exposure factors assumed for residential exposure are presented and discussed in Section B.9.1. The computation of equivalent drinking water concentration limits is discussed in Section B.9.2. Potential exposure of off-Site routine workers via drinking water use is evaluated indirectly using the exposure estimates for off-Site residents. This streamlines the risk assessment and is conservative because routine worker exposures to drinking water would be lower than for residents (ENVIRON 2003).

Potential exposure of off-Site routine workers and residents via non-potable water use is evaluated indirectly using the exposure estimates for off-Site resident exposure via drinking water use. This streamlines the risk assessment and is conservative because non-potable exposures would be lower than to drinking water (ENVIRON 2003).

B.8.3.1 Exposure Factors

The exposure factors for evaluating potential ingestion of drinking water are standard default exposure factors, which are consistent with those used to derive MCLs.

Water Ingestion Rate

The water ingestion rate of 2 L/day is USEPA's recommended value for adults (USEPA 1991a).

Exposure Frequency

An exposure frequency of 350 days per year is used for evaluating high-end residential exposure of adults (USEPA 1991a). This exposure frequency assumes daily exposure at the residence, except for two weeks per year away from home (e.g., while on vacation).

Exposure Duration

The exposure duration is 30 years and is based on the USEPA-recommended exposure duration for evaluating high-end residential exposures (USEPA 1991a). It is the 95th percentile number of years residents live at one location.

Body Weight

The body weight of 70 kg is the standard USEPA-recommended value for assessing exposure of adults (USEPA 1989).

Averaging Time

The averaging time for evaluating cancer risk is equal to a lifetime of 70 years, and the averaging time for evaluating noncancer risk is equal to the exposure duration (USEPA 1991a).

B.8.3.2 Equivalent Drinking Water Concentration Limits

This section discusses the computation of equivalent drinking water concentrations limits. For the water ingestion, RBCs were calculated as follows:

$$\text{Cancer RBC} = \frac{TR}{LADD^* \cdot SF}$$

$$\text{Noncancer RBC} = \frac{THQ \cdot RfD}{ADD^*}$$

where SF is the cancer slope factor, RfD is the reference dose, LADD* and ADD* are doses that are normalized to unit concentration (e.g., 1 mg/kg), and TR and THQ are the target cancer risk and target HQ used in calculating the RBCs.

In this assessment, RBCs were calculated by setting TR and THQ equal to 10^{-5} and 1, respectively. The LADD* and ADD* were calculated using the exposure factors discussed in Section B.9.1. The calculation of equivalent drinking water concentration limits are shown in Attachment B.4.

As discussed in Section 4 of the Site Summary Report, drinking water criteria were only compared to perimeter wells. Figures 6a and 6b present the results of the comparison. Five chemicals exceeded drinking water criteria in perimeter wells: arsenic, lead, trichloroethene, methylene chloride, and vinyl chloride. Arsenic exceeded the drinking water criteria in well FD-02, trichloroethene (TCE) and vinyl chloride exceed the drinking water criteria in well FD-05, arsenic exceed the drinking water criteria in well FD-06, and arsenic, lead, and methylene chloride exceeded drinking water criteria in well OW-1.

B.9 UNCERTAINTY ANALYSIS

B.9.1 Exposure Concentrations

Most exposure concentrations for soil and groundwater in this risk assessment are based on the highest concentrations detected in soil or groundwater at each area. This approach inflates the cumulative cancer risk and HI estimates that would not otherwise exceed 10^{-4} and 1, respectively, when realistic exposure concentrations rather than maximum concentrations are considered. The use of maximum concentrations for all constituents introduces more conservatism than necessary for RME estimates because it assumes simultaneous worst-case exposure to all constituents constantly, when the RME generally would not have all constituents at worst-case concentrations at all times. The inflation of these risk and HI estimates makes them closer to the cumulative cancer risk limit of 10^{-4} and the HI limit of 1 than they would be if 95% UCLs were used for soil concentrations. The maximum soil concentration from any depth was also used in this assessment. This method is conservative for assessing exposure of routine workers and trespassers, since these receptors are only exposed to surface soil. The maximum

groundwater concentration, regardless of sample collection date, was used in this assessment. This method is conservative since current groundwater concentrations could be less than the maximum concentration for all sampling events.

Most exposure concentrations that are based on mathematical modeling of constituent transfer from soil or groundwater to air are conservative for the same reasons discussed above, since the model estimates are based on the use of maximum concentrations in soil or groundwater. In addition, the model estimates are conservative because they generally do not account for the reduction of constituent concentrations in the soil or groundwater as constituents transfer from these media. As a result, risk estimates that are based on the sum of risk estimates for multiple media are more conservative than necessary for RME estimates.

For soil, only chromium (total) data was available. Without soil analytical data for hexavalent chromium at the Site, it was conservatively assumed that the entire chromium (total) concentration was hexavalent. In reality, chromium (total) concentrations are likely made up of a proportional amount of hexavalent and trivalent chromium. Therefore, the estimates of cumulative cancer risk and noncancer HI are conservative.

B.9.2 Exposure Factors

As discussed above, most of the exposure factors used in the risk assessment are high-end (i.e., 90th to 95th percentile) estimates of the magnitude, frequency, and duration of potential exposures. When several such high-end factors are multiplied, the resulting estimates of dose will be higher than the 90th percentile of the distribution of exposures in the potentially exposed population and could be higher than the exposure to the maximally exposed individual, particularly when such exposure factors are combined with exposure concentrations that are based on maximum concentrations.

Also, the use of generic default exposure factors for evaluation of potential exposure of workers to soil is more conservative than necessary for RME estimates, which allow the use of site-specific considerations (USEPA 1989). For example, the “fraction contacted” terms used in this evaluation assume that routine workers are exposed to soil for an entire work day at each area, but workers at commercial/industrial sites generally spend only a part of the work day at a particular part of the Site.

B.9.3 Extrapolated Toxicity Values

As discussed in Section B.3.3, the dermal toxicity values used in the risk assessment are oral toxicity values that were extrapolated to the dermal route without chemical-specific judgment regarding whether such extrapolation might be appropriate for a particular chemical. This is a conservative approach to ensure that potential risk via the dermal route is not overlooked. However, some constituents might

exhibit different degrees of toxicity for the dermal route relative to the oral route. For such constituents, the extrapolation approach used in the risk evaluation could introduce uncertainty.

The conversion of an oral toxicity value to an inhalation toxicity value generally should be justified by consideration of a number of factors, including point of entry effects, pharmacokinetic data on the chemical's behavior in the different routes of exposure, and differences in the target organs affected. However, as a conservative measure for constituents without any inhalation toxicity values, oral SFs and RfDs were converted to inhalation URFs and RfCs in this risk assessment. Use of these extrapolated inhalation toxicity values reduces the potential for underestimating inhalation risks, but could introduce uncertainty.

B.9.4 Risk Characterization

The summation of cancer risks and HQs for multiple constituents is based on USEPA guidance (1989) to assume dose additivity, which means that constituents in a mixture are assumed to have no synergistic or antagonistic interactions and each constituent has the same mode of action and elicits the same health effects. In general, this approach can introduce significant uncertainty. However, the majority of the cumulative cancer risk and HI estimates in this risk assessment are dominated by contributions from no more than a few constituents, so that the cumulative risk estimates are nearly the same as those for the few key constituents.

B.10 REFERENCES

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ATTACHMENT B.1
PHYSICAL CHEMICAL PROPERTIES, TOXCITY VALUES AND
EXPOSURE FACTORS

Attachment B.1: Toxicity Values
Closed Landfill Site, Elyria, Ohio

Chem Group	Chemical	CASRN	Cancer Classification			SF _{oral} (mg/kg/d) ⁻¹			SF _{dermal} (mg/kg/d) ⁻¹			URF (mg/m ³) ⁻¹			RfD _{oral} (mg/kg/d)				RfD _{dermal} (mg/kg/d)				RfC (mg/m ³)			
			Group	Ref	Note	Value	Ref	Notes	Value	Ref	Notes	Value	Ref	Notes	Value	UF	Ref	Notes	Value	UF	Ref	Notes	Value	UF	Ref	Notes
VOC	Acetone	67-64-1	ID	1											9.0E-01	1000	1		9.0E-01	1000	125	104	3.2E+00	1000	1	4, 44
VOC	Benzene	71-43-2	A	1		5.5E-02	1	68	5.5E-02	125	104	7.8E-03	1	60	4.0E-03	300	1		4.0E-03	300	125	104	3.0E-02	300	1	
VOC	2-Butanone	78-93-3	ID	1											6.0E-01	1000	1		6.0E-01	1000	125	104	5.0E+00	300	1	
VOC	Carbon Disulfide	75-15-0													1.0E-01	100	1		1.0E-01	100	125	104	7.0E-01	30	1	
VOC	Chloroform	67-66-3	B2	1								2.3E-02	1		1.0E-02	1000	1		1.0E-02	1000	125	104	5.0E-02	100	117	
VOC	1,1-Dichloroethene	75-35-4	C	1											5.0E-02	100	1		5.0E-02	100	125	104	2.0E-01	30	1	
VOC	1,2-Dichloroethene (total)	540-59-0													1.0E-02	3000	126		1.0E-02	3000	125	104	3.5E-02	3000	126	4, 44
VOC	cis-1,2-Dichloroethene	156-59-2	D	1											1.0E-02	3000	126		1.0E-02	3000	125	104	3.5E-02	3000	126	4, 44
VOC	trans-1,2-Dichloroethene	156-60-5													2.0E-02	1000	1		2.0E-02	1000	125	104	6.0E-02		126	
VOC	Ethyl Benzene	100-41-4	D	1											1.0E-01	1000	1		1.0E-01	1000	125	104	1.0E+00	300	1	
VOC	4-Methyl-2-pentanone	108-10-1	ID	1													1	90			125	104	3.0E+00	300	1	
VOC	Methylene Chloride	75-09-2	B2	1		7.5E-03	1		7.5E-03	125	104	4.7E-04	1		6.0E-02	100	1		6.0E-02	100	125	104	3.0E+00	100	2	
VOC	Styrene	100-42-5													2.0E-01	1000	1	6	2.0E-01	1000	125	104	1.0E+00	30	1	
VOC	Tetrachloroethene	127-18-4	C-B2	77		5.2E-02	77		5.2E-02	125	104	3.1E-03	77		1.0E-02	1000	1		1.0E-02	1000	125	104	4.0E-01	300	109	94
VOC	Toluene	108-88-3	ID	1											8.0E-02	3000	1		8.0E-02	1000	125	104	5.0E+00	10	1	
VOC	Trichloroethene	79-01-6	C-B2	49	18	1.1E-02	49		1.1E-02	125	104	1.7E-03	49		6.0E-03	3000	46	6, 97	6.0E-03	3000	125	104				
VOC	Vinyl Chloride	75-01-4	A	1		1.4E+00	1	78	1.4E+00	125	104	8.8E-03	1	79	3.0E-03	30	1		3.0E-03	30	125	104	1.0E-01	30	1	
VOC	Xylenes (total)	1330-20-7	ID	1											2.0E-01	1000	1		2.0E-01	1000	125	104	1.0E-01	300	1	
SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	1		1.4E-02	1		1.4E-02	125	104	4.0E-03	1	4, 45	2.0E-02	1000	1		2.0E-02	1000	125	104	7.0E-02	1000	1	4, 44
SVOC	Diethylphthalate	84-66-2	D	1											8.0E-01	1000	1		8.0E-01	1000	125	104	2.8E+00	1000	1	4, 44
SVOC	Di-n-octylphthalate	117-84-0													4.0E-02	1000	126		4.0E-02	1000	125	104			126	90
SVOC	Fluoranthene	206-44-0	D	1											4.0E-02	3000	1		4.0E-02	3000	125	104	1.4E-01	3000	1	4, 44
SVOC	Naphthalene	91-20-3	C	1											2.0E-02	3000	1		2.0E-02	3000	125	104	3.0E-03	3000	1	
SVOC	Phenanthrene	85-01-8	D	1											3.0E-02	3000	1	20	3.0E-02	3000	125	104	1.1E-01	3000	1	20, 4, 44
SVOC	Pyrene	129-00-0	D	1											3.0E-02	3000	1		3.0E-02	3000	125	104	1.1E-01	3000	1	4, 44
P/PCB	PCBs (total)	1336-36-3	B2	1		2.0E+00	1	30,32	2.0E+00	125	104	5.7E-01	1	30,32, 45	2.0E-05	300	1	72	2.0E-05	300	125	104				
PEST	4,4'-DDD	72-54-8	B2	1		2.4E-01	1		2.4E-01	125	104	6.9E-02	1	4, 45	3.0E-03	10000	120		3.0E-03	10000	125	104	1.1E-02	10000	120	4, 44
INORG	Antimony	7440-36-0													4.0E-04	1000	1		6.0E-05	1000	125	104	1.4E-03	1000	1	4, 44
INORG	Arsenic	7440-38-2	A	1		1.5E+00	1		1.5E+00	125	104	4.3E+00	1		3.0E-04	3	1		3.0E-04	3	125	104				
INORG	Barium	7440-39-3	D	1											7.0E-02	3	1		4.9E-03	3	125	104			1	90
INORG	Beryllium	7440-41-7	B1	1								2.4E+00	1		2.0E-03	300	1		1.4E-05	300	125	104	2.0E-05	10	1	
INORG	Cadmium	7440-43-9	B1	1								1.8E+00	1		1.0E-03	10	1	95	2.5E-05	10	125	104	2.0E-04		3	44
INORG	Chromium (total)	7440-47-3										1.2E+01	1	8	3.0E-03	900	1	8	7.5E-05	900	125	104	1.0E-04	300	1	59, 8
INORG	Chromium III	16065-83-1	D	1											1.5E+00	1000	1		2.0E-02	1000	125	104	5.3E+00	1000	1	4, 44
INORG	Chromium VI	18540-29-9	A	1								1.2E+01	1		3.0E-03	900	1		7.5E-05	900	125	104	1.0E-04	300	1	59
INORG	Cobalt	7440-48-4	B1	126								2.8E+00	126		2.0E-02	10	126		2.0E-02	10	125	104	2.0E-05	100	126	
INORG	Copper	7440-50-8	D	1											4.0E-02	2	50	49	4.0E-02	2	125	104	1.4E-01	2	50	49, 4, 44
INORG	Cyanide (total)	57-12-5	D	1											2.0E-02	500	1		2.0E-02	500	125	104	7.0E-02	500	1	4, 44
INORG	Lead	7439-92-1	B2	1																						
INORG	Manganese	7439-96-5	D	1											1.4E-01	1	1		8.4E-03	1	125	104	5.0E-05	1000	1	
INORG	Mercury	7439-97-6	D	1											3.0E-04	1000	1	51	3.0E-04	1000	125	104	3.0E-04	30	1	
INORG	Nickel	7440-02-0	A	1								2.4E-01	1		2.0E-02	300	1		8.0E-04	300	125	104				
INORG	Selenium	7782-49-2	D	1											5.0E-03	3	1		5.0E-03	3	125	104	1.8E-02	3	1	4, 44
INORG	Silver	7440-22-4	D	1											5.0E-03	3	1		2.0E-04	3	125	104	1.0E-05	1000	83	
INORG	Vanadium	7440-62-2													1.0E-03		3		2.6E-05		125	104	3.5E-03		3	4, 44
INORG	Zinc	7440-66-6	ID	1											3.0E-01	3	1		3.0E-01	3	125	104	1.1E+00	3	1	4, 44

**Attachment B.1: References and Notes for Toxicity Values
Closed Landfill Site, Elyria, Ohio**

References:												
1	USEPA. Integrated Risk Information System (IRIS). On-line database.											
2	USEPA. 1997. Health Effects Assessment Summary Tables (HEAST). FY-1997 Update. EPA 540/R-97-036. July.											
3	USEPA. Region III. 2005. Risk-Based Concentration Table. April.											
46	USEPA. NCEA. 1995. Risk Assessment Issue paper for: Provisional oral RfD for Trichloroethylene [CASRN 79-01-6].											
49	USEPA. NCEA. 1995. Risk Assessment Issue paper for: Carcinogenicity Information for Trichloroethylene (TCE) [CASRN 79-01-6]. September 6.											
50	USEPA. 56 FR 26460, June 7, 1991. Maximum Contaminant Level Goals and National Primary Drinking Water Regulations for Lead and Copper. Final Rule.											
77	USEPA. NCEA. 2001. Risk Assessment Issue Paper for Carcinogenicity Information for Tetrachloroethylene (perchloroethylene, PERC) [CASRN 127-18-4]. December 20.											
83	USEPA. NCEA. 1994. Risk Assessment Issue Paper for: Derivation of a Provisional RfC for Silver [CASRN 7440-22-4]. June 30.											
109	USEPA. NCEA. 1997. Risk Assessment Issue Paper for: Derivation of a Provisional RfC for Tetrachloroethylene (perchloroethylene, PERC) [CASRN 127-18-4]. June 20.											
117	USEPA. NCEA. 2003. Risk Assessment Issue Paper for: Derivation of Provisional Subchronic and Chronic RfCs for Chloroform [CASRN 67-66-3]. January 23.											
120	USEPA. NCEA. 1993. Risk Assessment Issue Paper for: Derivation of Provisional RfD for p,p'-DDD [CASRN 72-54-8] and p,p'-DDE [CASRN 72-55-9]. July 14.											
125	USEPA. 2004. Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment) Final. July.											
126	Provisional Peer Reviewed Toxicity Values for Superfund (PPRTV) Database											
Notes:												
4	ENVIRON obtained value by route-to-route extrapolation.											
6	Under review, according to IRIS.											
8	ENVIRON used Chromium VI [CASRN 18540-29-9] value from IRIS (reference 1) as a surrogate.											
18	Not verifiable, according to IRIS.											
20	ENVIRON used Pyrene [CASRN 129-00-0] value from IRIS (reference 1) as a surrogate.											
30	Upper-bound slope factor.											
32	High risk & persistence tier for: food chain exposure; sediment/soil ingestion; dust/aerosol inhalation; dermal exposure, if an absorption factor is applied; presence of dioxin-like, tumor-promoting/persistent congeners; and all early life exposures.											
44	ENVIRON derived inhalation RfC from inhalation RfD value presented in the indicated reference, using standard USEPA methodology presented in HEAST.											
45	ENVIRON derived inhalation URF from Inhalation Slope Factor value presented in the indicated reference, using standard USEPA methodology presented in HEAST.											
49	ENVIRON derived oral RfD from adverse health effect level value presented in the indicated reference.											
51	ENVIRON used Mercuric Chloride [CASRN 7487-94-7] value from the indicated reference as a surrogate.											
59	This RfD is for particulates. The RfD for chromic acid mists and dissolved Chromium VI aerosols is 0.000008 mg/m3.											
60	IRIS provides a range of 2.2E-6 to 7.8E-6 (ug/m3)-1 as the inhalation URF for Benzene.											
68	IRIS provides a range of 1.5E-2 to 5.5E-2 (mg/kg/d)-1 as the oral Slope Factor for Benzene.											
72	ENVIRON used Aroclor 1254 [CASRN 11097-69-1] value from the indicated reference as a surrogate for PCBs [CASRN 1336-36-3].											
78	IRIS recommends an oral Slope Factor for Vinyl Chloride of 7.2E-1 (mg/kg/d)-1 to account for continuous lifetime exposure during adulthood; a twofold increase to 1.4 (mg/kg/d)-1 is recommended to account for continuous exposure from birth.											
79	IRIS recommends an inhalation URF for Vinyl Chloride of 4.4E-6 (ug/m3)-1 to account for continuous lifetime exposure during adulthood; a twofold increase to 8.8E-6 (ug/m3)-1 is recommended to account for continuous exposure from birth.											
90	Inadequate data exist to derive a toxicity value, according to the indicated reference.											
94	Two provisional RfC values are presented in the indicated reference (4E-1 and 6E-1 mg/m3). Personal communication with NCEA indicated that either RfC is acceptable and the RfC should be chosen on a case-by-case basis.											
97	ENVIRON used withdrawn source.											
104	Dermal toxicity value is extrapolated from oral toxicity value in accordance with the referenced EPA guidance.											

Attachment B.1 - Physical and Chemical Properties																																				
Closed Landfill Site, Elyria, Ohio																																				
Chem Group	Chemical	CASRN	MW (g/mole)			K _{ow} (unitless)			K _{oc} (L/kg)			K _d (L/kg)			H (unitless)			s (mg/L)			VP (mm Hg)			D _{air} (m ² /d)			D _{water} (m ² /d)			K _p (cm/hr)			FA (unitless)			
			Value	Ref	Notes	Value	Ref	Notes	Value	Ref	Notes	Value	Ref	Notes	Value	Ref	Notes	Value	Ref	Notes	Value	Ref	Notes	Value	Ref	Notes	Value	Ref	Notes	Value	Ref	Notes	Value	Ref	Notes	
VOC	Acetone	67-64-1	5.8E+01	50		5.8E-01	44		5.8E-01	44	82				1.6E-03	44		1.0E+06	44		2.3E+02	50	92	1.1E+00	44		9.8E-05	44		5.2E-04	44	115	1.0E+00	62	114	
VOC	Benzene	71-43-2	7.8E+01	50		1.3E+02	44		5.8E+01	44	111				2.3E-01	44		1.8E+03	44		9.5E+01	50	92	7.6E-01	44		8.5E-05	44		1.5E-02	44	115	1.0E+00	62		
VOC	2-Butanone	78-93-3	7.2E+01	50		1.9E+00	69		2.0E+00	69	111				2.3E-03	50	92	2.8E+05	69		9.5E+01	50	92	7.0E-01	69		8.5E-05	69		9.6E-04	69	115	1.0E+00	62		
VOC	Carbon Disulfide	75-15-0	7.6E+01	50		1.0E+02	44		4.6E+01	44	111				1.2E+00	44		1.2E+03	44		3.6E+02	50	92	9.0E-01	44		8.6E-05	44		1.2E-02	44	115	1.0E+00	62		
VOC	Chloroform	67-66-3	1.2E+02	50		8.3E+01	44		4.0E+01	44	111				1.5E-01	44		7.9E+03	44		2.0E+02	50	92	9.0E-01	44		8.6E-05	44		6.3E-03	44	115	1.0E+00	62		
VOC	1,1-Dichloroethene	75-35-4	9.7E+01	50		1.3E+02	44		5.8E+01	44	111				1.1E+00	44		2.3E+03	44		6.0E+02	50	92	7.8E-01	44		9.0E-05	44		1.2E-02	44	115	1.0E+00	62		
VOC	1,2-Dichloroethene (total)	540-59-0	9.7E+01	50		7.2E+01	44		3.6E+01	44	111				1.7E-01	44		3.5E+03	44		2.0E+02	50	92	6.4E-01	44		9.8E-05	44		7.7E-03	44	115	1.0E+00	62	114	
VOC	cis-1,2-Dichloroethene	156-59-2	9.7E+01	50		7.2E+01	44		3.6E+01	44	111				1.7E-01	44		3.5E+03	44		2.0E+02	50	92	6.4E-01	44		9.8E-05	44		7.7E-03	44	115	1.0E+00	62	114	
VOC	trans-1,2-Dichloroethene	156-60-5	9.7E+01	50		1.2E+02	44		5.2E+01	44	111				3.9E-01	44		6.3E+03	44		3.3E+02	50	92	6.1E-01	44		1.0E-04	44		1.1E-02	44	115	1.0E+00	62	114	
VOC	Ethyl Benzene	100-41-4	1.1E+02	50		1.4E+03	44		3.7E+02	44	111				3.2E-01	44		1.7E+02	44		9.6E+00	50	92	6.5E-01	44		6.7E-05	44		4.8E-02	44	115	1.0E+00	62		
VOC	4-Methyl-2-pentanone	108-10-1	1.0E+02	50		1.5E+01	62		1.0E+01	62	111				5.6E-03	50	92	1.9E+04	39		2.0E+01	50	92	6.5E-01	40		6.7E-05	40		2.7E-03	62	115	1.0E+00	62		
VOC	Methylene Chloride	75-09-2	8.5E+01	50		1.8E+01	44		1.2E+01	44	111				9.0E-02	44		1.3E+04	44		4.3E+02	50	92	8.7E-01	44		1.0E-04	44		3.5E-03	44	115	1.0E+00	62		
VOC	Styrene	100-42-5	1.0E+02	50		8.7E+02	44		7.8E+02	44	82				1.1E-01	44		3.1E+02	44		6.1E+00	50	92	6.1E-01	44		6.9E-05	44		3.6E-02	44	115	1.0E+00	62		
VOC	Tetrachloroethene	127-18-4	1.7E+02	50		4.7E+02	44		1.6E+02	44	111				7.5E-01	44		2.0E+02	44		1.9E+01	50	92	6.2E-01	44		7.1E-05	44		1.1E-02	44	115	1.0E+00	62		
VOC	Toluene	108-88-3	9.2E+01	50		5.6E+02	44		1.8E+02	44	111				2.7E-01	44		5.3E+02	44		2.8E+01	50	92	7.5E-01	44		7.4E-05	44		3.2E-02	44	115	1.0E+00	62		
VOC	Trichloroethene	79-01-6	1.3E+02	50		5.1E+02	44		1.7E+02	44	111				4.2E-01	44		1.1E+03	44		7.3E+01	50	92	6.8E-01	44		7.9E-05	44		1.8E-02	44	115	1.0E+00	62		
VOC	Vinyl Chloride	75-01-4	6.3E+01	50		3.2E+01	44		1.8E+01	44	111				1.1E+00	44		2.8E+03	44		3.0E+03	50	92	9.2E-01	44		1.1E-04	44	113	6.9E-03	44	115	1.0E+00	62		
VOC	Xylenes (total)	1330-20-7	1.1E+02	50		1.5E+03	44		3.9E+02	44	111				2.8E-01	44		1.7E+02	44		8.0E+00	50	92	6.7E-01	44		7.6E-05	44		5.0E-02	44	115	1.0E+00	62	114	
SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	3.9E+02	50		2.0E+07	44		1.5E+07	44	82				4.2E-06	44		3.4E-01	44		6.5E-06	50	94	3.0E-01	44		3.2E-05	44		6.8E-01	44	115	4.0E-01	62	117	
SVOC	Diethylphthalate	84-66-2	2.2E+02	50		3.2E+02	44		2.9E+02	44	82				1.9E-05	44		1.1E+03	44		1.7E-03	50	92	2.2E-01	44		5.5E-05	44		4.0E-03	44	115	1.0E+00	62		
SVOC	Di-n-octylphthalate	117-84-0	3.9E+02	50		1.1E+08	44		8.4E+07	44	82				2.7E-03	44		2.0E-02	44		2.6E-06	50	92	1.3E-01	44		3.1E-05	44		2.2E+00	44	115	3.0E-01	62	117	
SVOC	Fluoranthene	206-44-0	2.0E+02	50		1.3E+05	44		1.1E+05	44	82				6.6E-04	44		2.1E-01	44		7.8E-06	50	94	2.6E-01	44		5.5E-05	44		2.8E-01	44	115	1.0E+00	62		
SVOC	Naphthalene	91-20-3	1.3E+02	50		2.3E+03	44		2.0E+03	44	82				2.0E-02	44		3.1E+01	44		8.5E-02	50	92	5.1E-01	44		6.5E-05	44		5.0E-02	44	115	1.0E+00	62		
SVOC	Phenanthrene	85-01-8	1.8E+02	50		2.9E+04	69		2.4E+04	69	82				9.5E-04	50	92	1.2E+00	50	92	1.1E-04	50	92	3.2E-01	69		6.5E-05	69		1.4E-01	69	115	1.0E+00	62		
SVOC	Pyrene	129-00-0	2.0E+02	50		1.3E+05	44		1.1E+05	44	82				4.5E-04	44		1.4E-01	44		4.6E-06	50	92	2.4E-01	44		6.3E-05	44		2.8E-01	44	115	1.0E+00	62	114	
P/PCB	PCBs (total)	1336-36-3	3.3E+02	64	116	3.2E+06	64	116	2.5E+06	64	116, 82				8.2E-02	64	116	1.2E-02	64	116	7.7E-05	64	116	1.7E-01	69	116	4.3E-05	69	116	4.5E-01	64	116, 115	7.0E-01	62	117, 110	
PEST	4,4'-DDD	72-54-8	3.2E+02	50		1.3E+06	44		9.9E+05	44	82				1.6E-04	44		9.0E-02	44		6.7E-07	50	92	1.5E-01	44		4.1E-05	44		2.7E-01	44	115	8.0E-01	62		
INORG	Antimony	7440-36-0	1.2E+02	50			1	48				4.5E+01	44	43				1	61						40	48		40	48		1.0E-03	62		0.0E+00	62	
INORG	Arsenic	7440-38-2	7.5E+01	50			1	48				2.9E+01	44	43				1	61						40	48		40	48		1.0E-03	62		0.0E+00	62	
INORG	Barium	7440-39-3	1.4E+02	50			1	48				4.1E+01	44	43				1	60						40	48		40	48		1.0E-03	62		0.0E+00	62	
INORG	Beryllium	7440-41-7	9.0E+00	50			1	48				7.9E+02	44	43				1	61						40	48		40	48		1.0E-03	62		0.0E+00	62	
INORG	Cadmium	7440-43-9	1.1E+02	50			1	48				7.5E+01	44	43				1	61			40	48		40	48		40	48		1.0E-03	62		0.0E+00	62	
INORG	Chromium (total)	7440-47-3	5.2E+01	50			1	48				1.9E+01	44	43, 45				1	61						40	48		40	48		2.0E-03	62	45	0.0E+00	62	
INORG	Chromium III																																			

**Attachment B.1: References and Notes For Physical and Chemical Properties
Closed Landfill Site, Elyria, Ohio**

References:									
1	USEPA. 1992. Handbook of RCRA Ground-Water Monitoring Constituents. Chemical and Physical Properties (40 CFR Part 264, Appendix IX). EPA-530-R-92-022. September.								
35	Baes III, C.F., R.D. Sharp, A.L. Sjoreen, and R.W. Shor. 1984. A Review and Analysis of Parameters for Assessing Transport of Released Radionuclides through Agriculture (AD-89-T-2-A-106) (formerly EPA078-D-X0304), Oak Ridge National Laboratory, ORNL-5786.								
39	CHEMFATE data base. Syracuse Research Corporation.								
40	Research Triangle Institute, Center for Environmental Analysis. 1995. Supplemental Technical Support Document for Hazardous Waste Identification Rule: Risk Assessment for Human and Ecological Receptors--Volume 1, TABLE A-1. November 1995.								
44	USEPA. 1996. Soil Screening Guidance: Technical Background Document and User Guide. Office of Emergency and Remedial Response. EPA/540/R-95/128. May.								
50	USEPA. 1997. Superfund Chemical Data Matrix (SCDM). Office of Emergency and Remedial Response. September 12.								
62	USEPA. 2004. Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment) Final. July.								
64	Agency for Toxic Substances and Disease Registry (ATSDR). November 2000. Toxicological Profile for Polychlorinated Biphenyls (PCBs).								
67	USEPA. 1997. Mercury Study Report to Congress. EPA's Office of Air Quality Planning and Standards and Office of Research and Development. December								
69	USEPA. 2004. WATER9. Version 2.0.0. Office of Air Quality Planning and Standards. July.								
Notes:									
43	pH associated with value is 6.8.								
45	ENVIRON used the value for Chromium VI [CASRN 18540-29-9] presented in indicated reference as a surrogate.								
48	Not Available or Not Applicable								
60	Hydrolyzes								
61	Insoluble								
82	ENVIRON used Equation (70) from Reference 44 to calculate Koc value using Log Kow value from indicated reference.								
92	Indicated source cites CHEMFATE.								
94	Indicated source cites LIVECHEM.								
110	ENVIRON used the value for 4-Chlorobiphenyl [CASRN 2051-62-9] from the indicated reference as a surrogate.								
111	ENVIRON used Equation (71) from Reference 44 to calculate Koc value using Log Kow value from indicated reference.								
113	Personal communication with RCRA, Superfund & EPCRA Hotline on 9/15/2000; indicated reference presents the value which is off by an order of magnitude (1.23E-06 cm2/s). The database has the correct value of 1.23E-05 cm2/s.								
114	A value of 1 is conservatively used because EPA guidance does not provide a default value.								
115	ENVIRON calculated Kp value using equation 3.8 (p.3-8) in reference 62 with log Kow from the indicated reference and the MW presented in table.								
116	ENVIRON used the value for Aroclor-1254 [CASRN 11097-69-1] from the indicated reference as a surrogate.								
117	ENVIRON derived the FA based on Exhibit A-4 in the indicated reference.								

**Attachment B.1: High-End Exposure Factors
Closed Landfill Site, Elyria, Ohio**

Exposure Factors		Maintenance Worker		Routine Worker		Resident	
Soil Ingestion							
Ingestion Rate (mg/d)	IR			50	b		
Conversion Factor (kg/mg)	CF			1E-06			
Fraction Contacted (unitless)	FC			1.0	d		
Exposure Frequency (d/yr)	EF			250	b		
Exposure Duration (yr)	ED			25	b		
Body Weight (kg-bw)	BW			70	a		
Averaging Time, carc (d)	AT _c			25,550	a		
Averaging Time, noncarc (d)	AT _{nc}			9,125	a		
Soil Dermal Contact							
Adherence Factor (mg/cm ²)	AD			0.2	c		
Skin Surface Area (cm ² /d)	SA			3,300	c		
Conversion Factor (kg/mg)	CF			1E-06			
Fraction Contacted (unitless)	FC			1.0	d		
Exposure Frequency (d/yr)	EF			250	b		
Exposure Duration (yr)	ED			25	b		
Body Weight (kg-bw)	BW			70	a		
Averaging Time, carc (d)	AT _c			25,550	a		
Averaging Time, noncarc (d)	AT _{nc}			9,125	a		
Ambient Air Inhalation of Vapor and Particulates							
Fraction Contacted (unitless)	FC			1.0	d		
Exposure Frequency (d/yr)	EF			250	b		
Exposure Duration (yr)	ED			25	b		
Averaging Time, carc (d)	AT _c			25,550	a		
Averaging Time, noncarc (d)	AT _{nc}			9,125	a		
Ingestion of Groundwater							
Drinking Rate (L/hr per event)	DR	0.005	d			2	b
Exposure Time (h)	ET	2	d			24/24	d
Exposure Frequency (d/yr)	EF	5	d			350	d
Exposure Duration (yr)	ED	10	d			30	b
Body Weight (kg-bw)	BW	70	a			70	b
Averaging Time, carc (d)	AT _c	25,550	a			25,550	b
Averaging Time, noncarc (d)	AT _{nc}	3,650	a			10,950	b
Groundwater Dermal Contact							
Event Time (hr)	t	2	d				
Skin Surface Area (cm ²)	SA	3,300	c				
Events per Day (event/d)	EV	1	d				
Exposure Frequency (d/yr)	EF	5	d				
Exposure Duration (yr)	ED	10	d				
Body Weight (kg)	BW	70	a				
Averaging Time, cancer (days)	AT _c	25,550	a				
Averaging Time, noncancer (days)	AT _{nc}	3650	a				
Groundwater Vapor Inhalation							
Fraction Contacted (unitless)	FC	1.0	d				
Exposure Time (h exposed/h in a day)	ET	8/8	d				
Exposure Frequency (d/yr)	EF	5	d				
Exposure Duration (yr)	ED	10	d			30	b
Averaging Time, carc (d)	AT _c	25,550	a			25,550	a
Averaging Time, noncarc (d)	AT _{nc}	3,650	a			10,950	a
Notes:							
a - Risk Assessment Guidance for Superfund, Volume 1: Human Health Evaluation Manual (Part A) (USEPA 1989)							
b - Conservatively based on Human Health Evaluation Manual, Supplemental Guidance: "Standard default exposure factors." OSWER Directive 9285.6-03 (USEPA 1991)							
c - Risk Assessment Guidance for Superfund, Volume 1: Human Health Evaluation Manual: Part E, Supplemental Guidance for Dermal Risk Assessment (USEPA 2004)							
d - Based on professional judgment and site-specific considerations as follows:							
1. Incidental soil ingestion rate is based on recent USEPA studies on soil adherence to hands.							
2. Fraction contacted is conservatively assumed to be 1.0.							
3. The exposure time and frequency for maintenance worker are based on anticipated excavation time for minor underground repairs.							
4. Event time for maintenance workers is assumed to be 2 hours/event, with 1 event occurring in a day.							

ATTACHMENT B.2
RISK-BASED CRITERIA DEVELOPMENT AND RISK
CALCULATIONS FOR ROUTINE WORKERS

Attachment B.2: Normalized Vapor Flux from Soil to Ambient Air and Soil Saturation Concentration
Closed Landfill Site, Elyria, Ohio

Chem Group	Chemical	CASRN	K _{oc} (L/kg)	K _d (L/kg)	H (unitless)	R _L (unitless)	D _{air} (cm ² /s)	D _G (cm ² /s)	D _{water} (cm ² /s)	D _L (cm ² /s)	D _E (cm ² /s)	J _v (kg-soil/m ² -s)	s (mg/L)	C _{sat} (mg/kg)
VOC	Acetone	67-64-1	5.81E-01	1.16E-03	1.59E-03	5.64E-02	1.24E-01	2.00E-02	1.14E-05	4.82E-09	5.63E-04	1.57E-05	1.00E+06	3.42E+04
VOC	Benzene	71-43-2	5.82E+01	1.16E-01	2.28E-01	3.19E-01	8.80E-02	1.42E-02	9.80E-06	4.15E-09	1.01E-02	6.67E-05	1.75E+03	3.39E+02
VOC	2-Butanone	78-93-3	2.00E+00	3.99E-03	2.28E-03	6.13E-02	8.08E-02	1.30E-02	9.80E-06	4.15E-09	4.85E-04	1.46E-05	2.75E+05	1.02E+04
VOC	Carbon Disulfide	75-15-0	4.59E+01	9.19E-02	1.24E+00	6.04E-01	1.04E-01	1.67E-02	1.00E-05	4.23E-09	3.44E-02	1.23E-04	1.19E+03	4.35E+02
VOC	Chloroform	67-66-3	3.97E+01	7.94E-02	1.50E-01	2.33E-01	1.04E-01	1.67E-02	1.00E-05	4.23E-09	1.08E-02	6.88E-05	7.92E+03	1.12E+03
VOC	1,1-Dichloroethene	75-35-4	5.82E+01	1.16E-01	1.07E+00	5.90E-01	9.00E-02	1.45E-02	1.04E-05	4.40E-09	2.63E-02	1.08E-04	2.25E+03	8.04E+02
VOC	1,2-Dichloroethene (total)	540-59-0	3.56E+01	7.12E-02	1.67E-01	2.25E-01	7.36E-02	1.19E-02	1.13E-05	4.78E-09	8.80E-03	6.22E-05	3.50E+03	4.77E+02
VOC	cis-1,2-Dichloroethene	156-59-2	3.56E+01	7.12E-02	1.67E-01	2.25E-01	7.36E-02	1.19E-02	1.13E-05	4.78E-09	8.80E-03	6.22E-05	3.50E+03	4.77E+02
VOC	trans-1,2-Dichloroethene	156-60-5	5.22E+01	1.04E-01	3.85E-01	3.50E-01	7.07E-02	1.14E-02	1.19E-05	5.04E-09	1.25E-02	7.42E-05	6.30E+03	1.34E+03
VOC	Ethyl Benzene	100-41-4	3.67E+02	7.35E-01	3.23E-01	1.37E+00	7.50E-02	1.21E-02	7.80E-06	3.30E-09	2.85E-03	3.54E-05	1.69E+02	1.40E+02
VOC	4-Methyl-2-pentanone	108-10-1	1.05E+01	2.10E-02	5.64E-03	9.04E-02	7.50E-02	1.21E-02	7.80E-06	3.30E-09	7.53E-04	1.82E-05	1.90E+04	1.04E+03
VOC	Methylene Chloride	75-09-2	1.17E+01	2.34E-02	8.98E-02	1.21E-01	1.01E-01	1.63E-02	1.17E-05	4.95E-09	1.20E-02	7.27E-05	1.30E+04	9.57E+02
VOC	Styrene	100-42-5	7.77E+02	1.55E+00	1.13E-01	2.65E+00	7.10E-02	1.14E-02	8.00E-06	3.39E-09	4.87E-04	1.46E-05	3.10E+02	4.99E+02
VOC	Tetrachloroethene	127-18-4	1.56E+02	3.12E-01	7.54E-01	8.10E-01	7.20E-02	1.16E-02	8.20E-06	3.47E-09	1.08E-02	6.89E-05	2.00E+02	9.82E+01
VOC	Toluene	108-88-3	1.80E+02	3.61E-01	2.72E-01	7.36E-01	8.70E-02	1.40E-02	8.60E-06	3.64E-09	5.17E-03	4.77E-05	5.26E+02	2.35E+02
VOC	Trichloroethene	79-01-6	1.68E+02	3.35E-01	4.22E-01	7.43E-01	7.90E-02	1.27E-02	9.10E-06	3.85E-09	7.23E-03	5.64E-05	1.10E+03	4.95E+02
VOC	Vinyl Chloride	75-01-4	1.85E+01	3.69E-02	1.11E+00	4.71E-01	1.06E-01	1.71E-02	1.23E-05	5.21E-09	4.02E-02	1.33E-04	2.76E+03	7.88E+02
VOC	Xylenes (total)	1330-20-7	3.86E+02	7.71E-01	2.76E-01	1.41E+00	7.80E-02	1.26E-02	8.75E-06	3.70E-09	2.45E-03	3.28E-05	1.75E+02	1.50E+02
SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	1.50E+07	3.00E+04	4.18E-06	4.95E+04	3.51E-02	5.65E-03	3.66E-06	1.55E-09	5.09E-13	4.73E-10	3.40E-01	1.02E+04
SVOC	Diethylphthalate	84-66-2	2.87E+02	5.74E-01	1.85E-05	1.00E+00	2.56E-02	4.12E-03	6.35E-06	2.69E-09	7.89E-08	1.86E-07	1.08E+03	6.55E+02
SVOC	Di-n-octylphthalate	117-84-0	8.38E+07	1.68E+05	2.74E-03	2.77E+05	1.51E-02	2.43E-03	3.58E-06	1.52E-09	2.41E-11	3.26E-09	2.00E-02	3.35E+03
SVOC	Fluoranthene	206-44-0	1.08E+05	2.16E+02	6.60E-04	3.56E+02	3.02E-02	4.86E-03	6.35E-06	2.69E-09	9.02E-09	6.30E-08	2.06E-01	4.45E+01
SVOC	Naphthalene	91-20-3	2.01E+03	4.02E+00	1.98E-02	6.69E+00	5.90E-02	9.50E-03	7.50E-06	3.17E-09	2.81E-05	3.52E-06	3.10E+01	1.26E+02
SVOC	Phenanthrene	85-01-8	2.42E+04	4.85E+01	9.52E-04	8.00E+01	3.75E-02	6.04E-03	7.47E-06	3.16E-09	7.19E-08	1.78E-07	1.15E+00	5.58E+01
SVOC	Pyrene	129-00-0	1.06E+05	2.11E+02	4.51E-04	3.48E+02	2.72E-02	4.38E-03	7.24E-06	3.06E-09	5.68E-09	5.00E-08	1.35E-01	2.85E+01
P/PCB	PCBs (total)	1336-36-3	2.45E+06	4.91E+03	8.17E-02	8.10E+03	2.02E-02	3.25E-03	5.00E-06	2.12E-09	3.28E-08	1.20E-07	1.20E-02	5.89E+01
PEST	4,4'-DDD	72-54-8	9.92E+05	1.98E+03	1.64E-04	3.27E+03	1.69E-02	2.72E-03	4.76E-06	2.01E-09	1.37E-10	7.76E-09	9.00E-02	1.79E+02
INORG	Antimony	7440-36-0		4.50E+01		7.43E+01								
INORG	Arsenic	7440-38-2		2.90E+01		4.79E+01								
INORG	Barium	7440-39-3		4.10E+01		6.77E+01								
INORG	Beryllium	7440-41-7		7.90E+02		1.30E+03								
INORG	Cadmium	7440-43-9		7.50E+01		1.24E+02								
INORG	Chromium (total)	7440-47-3		1.90E+01		3.14E+01								
INORG	Chromium III	16065-83-1		1.80E+06		2.97E+06								
INORG	Chromium VI	18540-29-9		1.90E+01		3.14E+01								
INORG	Cobalt	7440-48-4		4.50E+01		7.43E+01								
INORG	Copper	7440-50-8		3.50E+01		5.78E+01								
INORG	Cyanide (total)	57-12-5		9.90E+00		1.64E+01								
INORG	Lead	7439-92-1		9.00E+02		1.49E+03								
INORG	Manganese	7439-96-5		6.50E+01		1.07E+02								
INORG	Mercury	7439-97-6		1.00E+03	2.90E-01	1.65E+03	3.07E-02	4.94E-03	6.30E-06	2.67E-09	8.69E-07	6.18E-07	5.60E-02	5.60E+01
INORG	Nickel	7440-02-0		6.50E+01		1.07E+02								
INORG	Selenium	7782-49-2		5.00E+00		8.30E+00								

Attachment B.2: Normalized Vapor Flux from Soil to Ambient Air and Soil Saturation Concentration
Closed Landfill Site, Elyria, Ohio

Chem Group	Chemical	CASRN	K _{oc} (L/kg)	K _d (L/kg)	H (unitless)	R _L (unitless)	D _{air} (cm ² /s)	D _G (cm ² /s)	D _{water} (cm ² /s)	D _L (cm ² /s)	D _E (cm ² /s)	J _v (kg-soil/m ² -s)	s (mg/L)	C _{sat} (mg/kg)
INORG	Silver	7440-22-4		8.30E+00		1.37E+01								
INORG	Vanadium	7440-62-2		1.00E+03		1.65E+03								
INORG	Zinc	7440-66-6		6.20E+01		1.02E+02								
Notes:	Soil bulk density	kg/L	ρ _b	1.65	default value for soil type of sand (USEPA 2004a)									
	Soil particle density	kg/L	ρ _s	2.65	default value for soil type of sand (USEPA 1996)									
	Soil porosity	L/L-soil	ε	0.375	default value for soil type of sand (USEPA 2004a)									
	Soil water content	L/L-soil	e _w	0.054	default value for soil type of sand (USEPA 2004a)									
	Soil air-filled porosity	L/L-soil	e _a	0.32										
	Soil organic carbon fraction	unitless	f _{oc}	0.002	default value for soil type of sand (USEPA 1996)									
	Averaging period	s	T	7.88E+08										

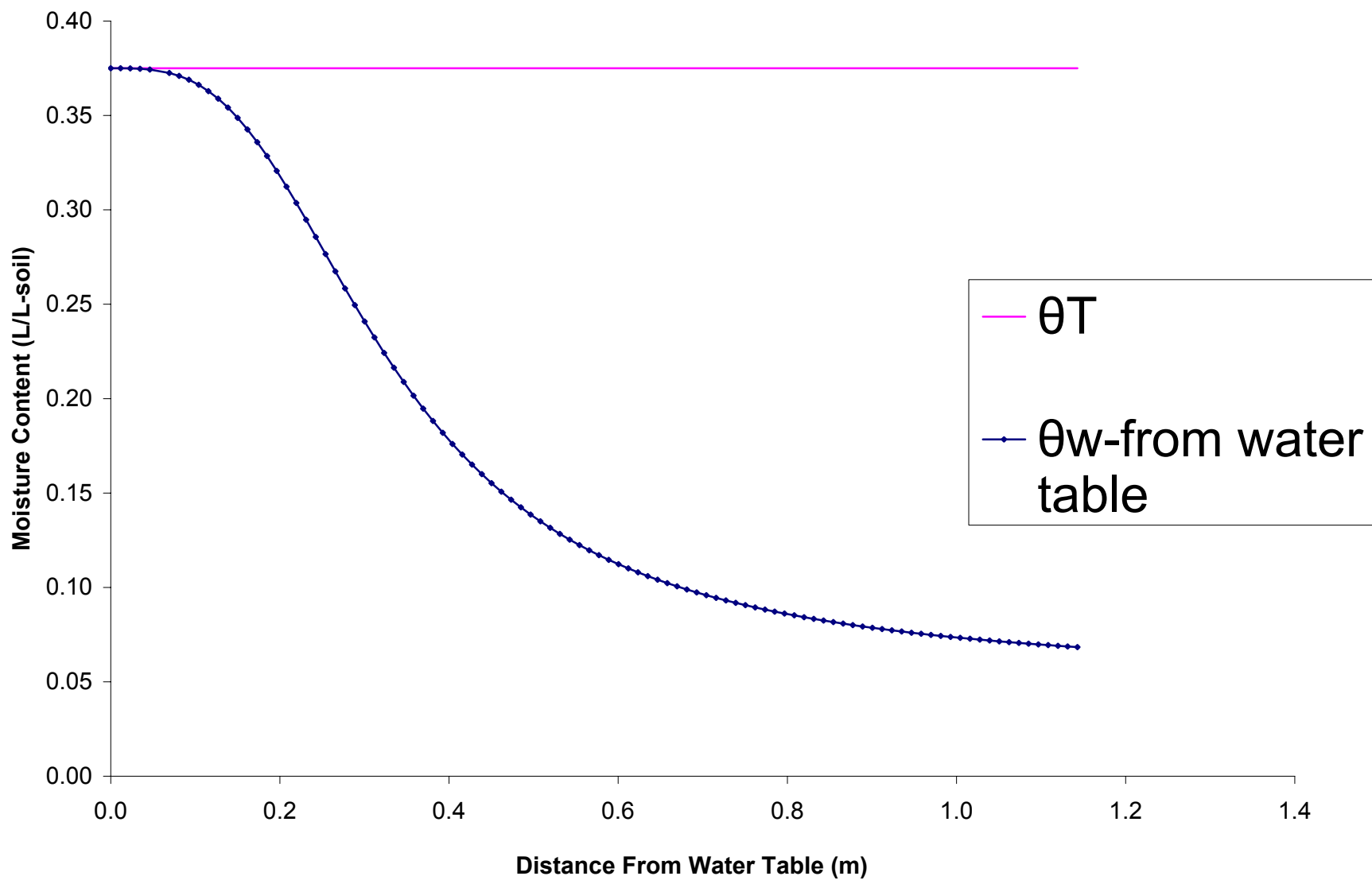
**Attachment B.2: Cancer Risk-Based Criteria for Routine Worker Exposure to Soil
Closed Landfill Site, Elyria, Ohio**

Chem Group	Chemical	CASRN	Carc Class	Soil Incidental Ingestion			Soil Dermal Contact				Soil Vapor Inhalation			Soil Particulate Inhalation			Cancer RBC (mg/kg)
				LADD (mg/kg/d)	SF _{oral} (mg/kg/d) ⁻¹	RBC (mg/kg)	ABS _d	LADD (mg/kg/d)	SF _{derm} (mg/kg/d) ⁻¹	RBC (mg/kg)	C _{air} (mg/m ³)	URF (m ³ /mg)	RBC (mg/kg)	C _{air} (mg/m ³)	URF (m ³ /mg)	RBC (mg/kg)	
VOC	Acetone	67-64-1	ID	1.75E-07							3.56E-04			8.13E-10			
VOC	Benzene	71-43-2	A	1.75E-07	5.5E-02	1.0E+02			5.5E-02		1.51E-03	7.8E-03	3.5E-01	8.13E-10	7.8E-03	6.4E+05	3.5E-01
VOC	2-Butanone	78-93-3	ID	1.75E-07							3.30E-04			8.13E-10			
VOC	Carbon Disulfide	75-15-0		1.75E-07							2.78E-03			8.13E-10			
VOC	Chloroform	67-66-3	B2	1.75E-07							1.56E-03	2.3E-02	1.1E-01	8.13E-10	2.3E-02	2.2E+05	1.1E-01
VOC	1,1-Dichloroethene	75-35-4	C	1.75E-07							2.43E-03			8.13E-10			
VOC	1,2-Dichloroethene (total)	540-59-0		1.75E-07							1.41E-03			8.13E-10			
VOC	cis-1,2-Dichloroethene	156-59-2	D	1.75E-07							1.41E-03			8.13E-10			
VOC	trans-1,2-Dichloroethene	156-60-5		1.75E-07							1.68E-03			8.13E-10			
VOC	Ethyl Benzene	100-41-4	D	1.75E-07							8.01E-04			8.13E-10			
VOC	4-Methyl-2-pentanone	108-10-1	ID	1.75E-07							4.12E-04			8.13E-10			
VOC	Methylene Chloride	75-09-2	B2	1.75E-07	7.5E-03	7.6E+02			7.5E-03		1.65E-03	4.7E-04	5.3E+00	8.13E-10	4.7E-04	1.1E+07	5.3E+00
VOC	Styrene	100-42-5		1.75E-07							3.31E-04			8.13E-10			
VOC	Tetrachloroethene	127-18-4	C-B2	1.75E-07	5.2E-02	1.1E+02			5.2E-02		1.56E-03	3.1E-03	8.6E-01	8.13E-10	3.1E-03	1.6E+06	8.5E-01
VOC	Toluene	108-88-3	ID	1.75E-07							1.08E-03			8.13E-10			
VOC	Trichloroethene	79-01-6	C-B2	1.75E-07	1.1E-02	5.2E+02			1.1E-02		1.28E-03	1.7E-03	1.9E+00	8.13E-10	1.7E-03	3.0E+06	1.9E+00
VOC	Vinyl Chloride	75-01-4	A	1.75E-07	1.4E+00	4.1E+00			1.4E+00		3.01E-03	8.8E-03	1.5E-01	8.13E-10	8.8E-03	5.7E+05	1.5E-01
VOC	Xylenes (total)	1330-20-7	ID	1.75E-07							7.42E-04			8.13E-10			
SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	1.75E-07	1.4E-02	4.1E+02	1.00E-01	2.31E-07	1.4E-02	3.1E+02	1.07E-08	4.0E-03	9.6E+04	8.13E-10	4.0E-03	1.3E+06	1.8E+02
SVOC	Diethylphthalate	84-66-2	D	1.75E-07			1.00E-01	2.31E-07			4.21E-06			8.13E-10			
SVOC	Di-n-octylphthalate	117-84-0		1.75E-07			1.00E-01	2.31E-07			7.36E-08			8.13E-10			
SVOC	Fluoranthene	206-44-0	D	1.75E-07			1.30E-01	3.00E-07			1.42E-06			8.13E-10			
SVOC	Naphthalene	91-20-3	C	1.75E-07			1.30E-01	3.00E-07			7.95E-05			8.13E-10			
SVOC	Phenanthrene	85-01-8	D	1.75E-07			1.30E-01	3.00E-07			4.02E-06			8.13E-10			
SVOC	Pyrene	129-00-0	D	1.75E-07			1.30E-01	3.00E-07			1.13E-06			8.13E-10			
P/PCB	PCBs (total)	1336-36-3	B2	1.75E-07	2.0E+00	2.9E+00	1.40E-01	3.23E-07	2.0E+00	1.5E+00	2.72E-06	5.7E-01	2.6E+00	8.13E-10	5.7E-01	8.8E+03	7.3E-01
PEST	4,4'-DDD	72-54-8	B2	1.75E-07	2.4E-01	2.4E+01	3.00E-02	6.92E-08	2.4E-01	6.0E+01	1.76E-07	6.9E-02	3.4E+02	8.13E-10	6.9E-02	7.3E+04	1.6E+01
INORG	Antimony	7440-36-0		1.75E-07										8.13E-10			
INORG	Arsenic	7440-38-2	A	1.75E-07	1.5E+00	3.8E+00	3.00E-02	6.92E-08	1.5E+00	9.6E+00		4.3E+00		8.13E-10	4.3E+00	1.2E+03	2.7E+00
INORG	Barium	7440-39-3	D	1.75E-07										8.13E-10			
INORG	Beryllium	7440-41-7	B1	1.75E-07								2.4E+00		8.13E-10	2.4E+00	2.1E+03	2.1E+03
INORG	Cadmium	7440-43-9	B1	1.75E-07			1.00E-03	2.31E-09				1.8E+00		8.13E-10	1.8E+00	2.8E+03	2.8E+03
INORG	Chromium (total)	7440-47-3		1.75E-07								1.2E+01		8.13E-10	1.2E+01	4.2E+02	4.2E+02
INORG	Chromium III	16065-83-1	D	1.75E-07										8.13E-10			
INORG	Chromium VI	18540-29-9	A	1.75E-07								1.2E+01		8.13E-10	1.2E+01	4.2E+02	4.2E+02
INORG	Cobalt	7440-48-4	B1	1.75E-07								2.8E+00		8.13E-10	2.8E+00	1.8E+03	1.8E+03
INORG	Copper	7440-50-8	D	1.75E-07										8.13E-10			
INORG	Cyanide (total)	57-12-5	D	1.75E-07										8.13E-10			
INORG	Lead	7439-92-1	B2	1.75E-07										8.13E-10			
INORG	Manganese	7439-96-5	D	1.75E-07										8.13E-10			
INORG	Mercury	7439-97-6	D	1.75E-07							1.40E-05			8.13E-10			
INORG	Nickel	7440-02-0	A	1.75E-07								2.4E-01		8.13E-10	2.4E-01	2.1E+04	2.1E+04
INORG	Selenium	7782-49-2	D	1.75E-07										8.13E-10			
INORG	Silver	7440-22-4	D	1.75E-07										8.13E-10			
INORG	Vanadium	7440-62-2		1.75E-07										8.13E-10			
INORG	Zinc	7440-66-6	ID	1.75E-07										8.13E-10			
Note:																	
Target Cancer Risk of 10 ⁻⁶																	
C/Q based on the 24-hour maximum exposure for a 15' x 15' excavation area = 10.14 kg/m ³ per (kg/m ² -s). Based on meteorological data from Cleveland, OH (USEPA 2002, Appendix D).																	
RBC = Risk Based Criteria																	
Abbreviations:																	
Chem Group - Chemical Group																	
Carc Class - EPA Weight-of-Evidence Cancer Classification																	

**Attachment B.2: NonCancer Risk-Based Criteria for Routine Worker Exposure to Soil
Closed Landfill Site, Elyria, Ohio**

Chem Group	Chemical	CASRN	Carc Class	Soil Incidental Ingestion			Soil Dermal Contact				Soil Vapor Inhalation				Soil Particulate Inhalation			Noncancer RBC (mg/kg)
				ADD (mg/kg/d)	RfD _{oral} (mg/kg/d)	RBC (mg/kg)	ABS _d	ADD (mg/kg/d)	RfD _{derm} (mg/kg/d)	RBC (mg/kg)	C _{air} (mg/m ³)	ADD (mg/m ³)	RfC (mg/m ³)	RBC (mg/kg)	C _{air} (mg/m ³)	RfC (mg/m ³)	RBC (mg/kg)	
VOC	Acetone	67-64-1	ID	4.89E-07	9.0E-01	1.8E+06			9.0E-01		3.56E-04	2.44E-04	3.2E+00	1.3E+04	8.13E-10	3.15E+00	5.7E+09	1.3E+04
VOC	Benzene	71-43-2	A	4.89E-07	4.0E-03	8.2E+03			4.0E-03		1.51E-03	1.03E-03	3.0E-02	2.9E+01	8.13E-10	3.00E-02	5.4E+07	2.9E+01
VOC	2-Butanone	78-93-3	ID	4.89E-07	6.0E-01	1.2E+06			6.0E-01		3.30E-04	2.26E-04	5.0E+00	2.2E+04	8.13E-10	5.00E+00	9.0E+09	2.2E+04
VOC	Carbon Disulfide	75-15-0		4.89E-07	1.0E-01	2.0E+05			1.0E-01		2.78E-03	1.91E-03	7.0E-01	3.7E+02	8.13E-10	7.00E-01	1.3E+09	3.7E+02
VOC	Chloroform	67-66-3	B2	4.89E-07	1.0E-02	2.0E+04			1.0E-02		1.56E-03	1.07E-03	5.0E-02	4.7E+01	8.13E-10	5.00E-02	9.0E+07	4.7E+01
VOC	1,1-Dichloroethene	75-35-4	C	4.89E-07	5.0E-02	1.0E+05			5.0E-02		2.43E-03	1.67E-03	2.0E-01	1.2E+02	8.13E-10	2.00E-01	3.6E+08	1.2E+02
VOC	1,2-Dichloroethene (total)	540-59-0		4.89E-07	1.0E-02	2.0E+04			1.0E-02		1.41E-03	9.64E-04	3.5E-02	3.6E+01	8.13E-10	3.50E-02	6.3E+07	3.6E+01
VOC	cis-1,2-Dichloroethene	156-59-2	D	4.89E-07	1.0E-02	2.0E+04			1.0E-02		1.41E-03	9.64E-04	3.5E-02	3.6E+01	8.13E-10	3.50E-02	6.3E+07	3.6E+01
VOC	trans-1,2-Dichloroethene	156-60-5		4.89E-07	2.0E-02	4.1E+04			2.0E-02		1.68E-03	1.15E-03	6.0E-02	5.2E+01	8.13E-10	5.95E-02	1.1E+08	5.2E+01
VOC	Ethyl Benzene	100-41-4	D	4.89E-07	1.0E-01	2.0E+05			1.0E-01		8.01E-04	5.48E-04	1.0E+00	1.8E+03	8.13E-10	1.00E+00	1.8E+09	1.8E+03
VOC	4-Methyl-2-pentanone	108-10-1	ID	4.89E-07							4.12E-04	2.82E-04	3.0E+00	1.1E+04	8.13E-10	3.00E+00	5.4E+09	1.1E+04
VOC	Methylene Chloride	75-09-2	B2	4.89E-07	6.0E-02	1.2E+05			6.0E-02		1.65E-03	1.13E-03	3.0E+00	2.7E+03	8.13E-10	3.00E+00	5.4E+09	2.6E+03
VOC	Styrene	100-42-5		4.89E-07	2.0E-01	4.1E+05			2.0E-01		3.31E-04	2.27E-04	1.0E+00	4.4E+03	8.13E-10	1.00E+00	1.8E+09	4.4E+03
VOC	Tetrachloroethene	127-18-4	C-B2	4.89E-07	1.0E-02	2.0E+04			1.0E-02		1.56E-03	1.07E-03	4.0E-01	3.7E+02	8.13E-10	4.00E-01	7.2E+08	3.7E+02
VOC	Toluene	108-88-3	ID	4.89E-07	8.0E-02	1.6E+05			8.0E-02		1.08E-03	7.39E-04	5.0E+00	6.8E+03	8.13E-10	5.00E+00	9.0E+09	6.5E+03
VOC	Trichloroethene	79-01-6	C-B2	4.89E-07	6.0E-03	1.2E+04			6.0E-03		1.28E-03	8.74E-04			8.13E-10			1.2E+04
VOC	Vinyl Chloride	75-01-4	A	4.89E-07	3.0E-03	6.1E+03			3.0E-03		3.01E-03	2.06E-03	1.0E-01	4.9E+01	8.13E-10	1.00E-01	1.8E+08	4.8E+01
VOC	Xylenes (total)	1330-20-7	ID	4.89E-07	2.0E-01	4.1E+05			2.0E-01		7.42E-04	5.09E-04	1.0E-01	2.0E+02	8.13E-10	1.00E-01	1.8E+08	2.0E+02
SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	4.89E-07	2.0E-02	4.1E+04	1.00E-01	6.46E-07	2.0E-02	3.1E+04	1.07E-08	7.33E-09	7.0E-02	9.6E+06	8.13E-10	7.00E-02	1.3E+08	1.8E+04
SVOC	Diethylphthalate	84-66-2	D	4.89E-07	8.0E-01	1.6E+06	1.00E-01	6.46E-07	8.0E-01	1.2E+06	4.21E-06	2.89E-06	2.8E+00	9.7E+05	8.13E-10	2.80E+00	5.0E+09	4.1E+05
SVOC	Di-n-octylphthalate	117-84-0		4.89E-07	4.0E-02	8.2E+04	1.00E-01	6.46E-07	4.0E-02	6.2E+04	7.36E-08	5.04E-08			8.13E-10			3.5E+04
SVOC	Fluoranthene	206-44-0	D	4.89E-07	4.0E-02	8.2E+04	1.30E-01	8.40E-07	4.0E-02	4.8E+04	1.42E-06	9.76E-07	1.4E-01	1.4E+05	8.13E-10	1.40E-01	2.5E+08	2.5E+04
SVOC	Naphthalene	91-20-3	C	4.89E-07	2.0E-02	4.1E+04	1.30E-01	8.40E-07	2.0E-02	2.4E+04	7.95E-05	5.45E-05	3.0E-03	5.5E+01	8.13E-10	3.00E-03	5.4E+06	5.5E+01
SVOC	Phenanthrene	85-01-8	D	4.89E-07	3.0E-02	6.1E+04	1.30E-01	8.40E-07	3.0E-02	3.6E+04	4.02E-06	2.76E-06	1.1E-01	3.8E+04	8.13E-10	1.05E-01	1.9E+08	1.4E+04
SVOC	Pyrene	129-00-0	D	4.89E-07	3.0E-02	6.1E+04	1.30E-01	8.40E-07	3.0E-02	3.6E+04	1.13E-06	7.74E-07	1.1E-01	1.4E+05	8.13E-10	1.05E-01	1.9E+08	1.9E+04
P/PCB	PCBs (total)	1336-36-3	B2	4.89E-07	2.0E-05	4.1E+01	1.40E-01	9.04E-07	2.0E-05	2.2E+01	2.72E-06	1.86E-06			8.13E-10			1.4E+01
PEST	4,4'-DDD	72-54-8	B2	4.89E-07	3.0E-03	6.1E+03	3.00E-02	1.94E-07	3.0E-03	1.5E+04	1.76E-07	1.20E-07	1.1E-02	8.7E+04	8.13E-10	1.05E-02	1.9E+07	4.2E+03
INORG	Antimony	7440-36-0		4.89E-07	4.0E-04	8.2E+02			6.0E-05				1.4E-03		8.13E-10	1.40E-03	2.5E+06	8.2E+02
INORG	Arsenic	7440-38-2	A	4.89E-07	3.0E-04	6.1E+02	3.00E-02	1.94E-07	3.0E-04	1.5E+03					8.13E-10			4.4E+02
INORG	Barium	7440-39-3	D	4.89E-07	7.0E-02	1.4E+05			4.9E-03						8.13E-10			1.4E+05
INORG	Beryllium	7440-41-7	B1	4.89E-07	2.0E-03	4.1E+03			1.4E-05				2.0E-05		8.13E-10	2.00E-05	3.6E+04	3.7E+03
INORG	Cadmium	7440-43-9	B1	4.89E-07	1.0E-03	2.0E+03	1.00E-03	6.46E-09	2.5E-05	3.9E+03			2.0E-04		8.13E-10	2.00E-04	3.6E+05	1.3E+03
INORG	Chromium (total)	7440-47-3		4.89E-07	3.0E-03	6.1E+03			7.5E-05				1.0E-04		8.13E-10	1.00E-04	1.8E+05	5.9E+03
INORG	Chromium III	16065-83-1	D	4.89E-07	1.5E+00	3.1E+06			2.0E-02				5.3E+00		8.13E-10	5.25E+00	9.4E+09	3.1E+06
INORG	Chromium VI	18540-29-9	A	4.89E-07	3.0E-03	6.1E+03			7.5E-05				1.0E-04		8.13E-10	1.00E-04	1.8E+05	5.9E+03
INORG	Cobalt	7440-48-4	B1	4.89E-07	2.0E-02	4.1E+04			2.0E-02				2.0E-05		8.13E-10	2.00E-05	3.6E+04	1.9E+04
INORG	Copper	7440-50-8	D	4.89E-07	4.0E-02	8.2E+04			4.0E-02				1.4E-01		8.13E-10	1.40E-01	2.5E+08	8.2E+04
INORG	Cyanide (total)	57-12-5	D	4.89E-07	2.0E-02	4.1E+04			2.0E-02				7.0E-02		8.13E-10	7.00E-02	1.3E+08	4.1E+04
INORG	Lead	7439-92-1	B2	4.89E-07											8.13E-10			
INORG	Manganese	7439-96-5	D	4.89E-07	1.4E-01	2.9E+05			8.4E-03				5.0E-05		8.13E-10	5.00E-05	9.0E+04	6.8E+04
INORG	Mercury	7439-97-6	D	4.89E-07	3.0E-04	6.1E+02			3.0E-04		1.40E-05	9.58E-06	3.0E-04	3.1E+01	8.13E-10	3.00E-04	5.4E+05	3.0E+01
INORG	Nickel	7440-02-0	A	4.89E-07	2.0E-02	4.1E+04			8.0E-04						8.13E-10			4.1E+04
INORG	Selenium	7782-49-2	D	4.89E-07	5.0E-03	1.0E+04			5.0E-03				1.8E-02		8.13E-10	1.75E-02	3.1E+07	1.0E+04
INORG	Silver	7440-22-4	D	4.89E-07	5.0E-03	1.0E+04			2.0E-04				1.0E-05		8.13E-10	1.00E-05	1.8E+04	6.5E+03
INORG	Vanadium	7440-62-2		4.89E-07	1.0E-03	2.0E+03			2.6E-05				3.5E-03		8.13E-10	3.50E-03	6.3E+06	2.0E+03
INORG	Zinc	7440-66-6	ID	4.89E-07	3.0E-01	6.1E+05			3.0E-01				1.1E+00		8.13E-10	1.05E+00	1.9E+09	6.1E+05
Note:																		
Target Hazard Index of 1.																		
C/Q based on the 24-hour maximum exposure for a 15' x 15' excavation area = 10.14 kg/m ³ per (kg/m ² -s). Based on meteorological data from Cleveland, OH (USEPA 2002, Appendix D).																		
RBC = Risk Based Criteria																		
Abbreviations:																		
Chem Group - Chemical Group																		
Carc Class - EPA Weight-of-Evidence Cancer Classification																		
HQ - Hazard Quotient; HI - Hazard Index;																		

Attachment B.2: Soil Moisture Profile



**Attachment B.2: Vapor Intrusion into Hypothetical, Off-Site, Slab On Grade Industrial Building from Subsurface Soil
Closed Landfill Site, Elyria, Ohio**

Chem Group	Chemical	CASRN	D _{air} (m ² /d)	D _{water} (m ² /d)	H (unitless)	D _{crack} (m ² /d)	D _{eff} ^T (m ² /d)	α _∞ (unitless)	K _{oc} (L/kg)	K _d (L/kg)	C _{s, vap} (kg-soil/m ³)	α _{ML} (unitless)	C _{blgd} (kg-soil/m ³)
VOC	Acetone	67-64-1	1.07E+00	9.85E-05	7.95E-04	1.40E-01	1.48E-01	7.75E-05	5.81E-01	1.16E-03	1.74E+01	2.66E-04	1.35E-03
VOC	Benzene	71-43-2	7.60E-01	8.47E-05	1.14E-01	9.96E-02	1.05E-01	7.72E-05	5.82E+01	1.16E-01	6.27E+02	7.38E-06	4.63E-03
VOC	2-Butanone	78-93-3	6.98E-01	8.47E-05	1.14E-03	9.15E-02	9.66E-02	7.71E-05	2.00E+00	3.99E-03	2.35E+01	1.97E-04	1.81E-03
VOC	Carbon Disulfide	75-15-0	8.99E-01	8.64E-05	6.20E-01	1.18E-01	1.24E-01	7.73E-05	4.59E+01	9.19E-02	2.48E+03	1.87E-06	4.63E-03
VOC	Chloroform	67-66-3	8.99E-01	8.64E-05	7.50E-02	1.18E-01	1.24E-01	7.73E-05	3.97E+01	7.94E-02	5.45E+02	8.49E-06	4.63E-03
VOC	1,1-Dichloroethene	75-35-4	7.78E-01	8.99E-05	5.35E-01	1.02E-01	1.07E-01	7.72E-05	5.82E+01	1.16E-01	2.07E+03	2.24E-06	4.63E-03
VOC	1,2-Dichloroethene (total)	540-59-0	6.36E-01	9.76E-05	8.35E-02	8.33E-02	8.79E-02	7.70E-05	3.56E+01	7.12E-02	6.38E+02	7.26E-06	4.63E-03
VOC	cis-1,2-Dichloroethene	156-59-2	6.36E-01	9.76E-05	8.35E-02	8.33E-02	8.79E-02	7.70E-05	3.56E+01	7.12E-02	6.38E+02	7.26E-06	4.63E-03
VOC	trans-1,2-Dichloroethene	156-60-5	6.11E-01	1.03E-04	1.93E-01	8.00E-02	8.44E-02	7.69E-05	5.22E+01	1.04E-01	1.05E+03	4.43E-06	4.63E-03
VOC	Ethyl Benzene	100-41-4	6.48E-01	6.74E-05	1.62E-01	8.49E-02	8.96E-02	7.70E-05	3.67E+02	7.35E-01	2.00E+02	2.32E-05	4.63E-03
VOC	4-Methyl-2-pentanone	108-10-1	6.48E-01	6.74E-05	2.82E-03	8.49E-02	8.96E-02	7.70E-05	1.05E+01	2.10E-02	4.28E+01	1.08E-04	3.29E-03
VOC	Methylene Chloride	75-09-2	8.73E-01	1.01E-04	4.49E-02	1.14E-01	1.21E-01	7.73E-05	1.17E+01	2.34E-02	5.90E+02	7.84E-06	4.63E-03
VOC	Styrene	100-42-5	6.13E-01	6.91E-05	5.65E-02	8.03E-02	8.48E-02	7.69E-05	7.77E+02	1.55E+00	3.51E+01	1.32E-04	2.70E-03
VOC	Tetrachloroethene	127-18-4	6.22E-01	7.08E-05	3.77E-01	8.15E-02	8.60E-02	7.70E-05	1.56E+02	3.12E-01	8.87E+02	5.22E-06	4.63E-03
VOC	Toluene	108-88-3	7.52E-01	7.43E-05	1.36E-01	9.85E-02	1.04E-01	7.72E-05	1.80E+02	3.61E-01	3.16E+02	1.46E-05	4.63E-03
VOC	Trichloroethene	79-01-6	6.83E-01	7.86E-05	2.11E-01	8.94E-02	9.43E-02	7.71E-05	1.68E+02	3.35E-01	5.04E+02	9.18E-06	4.63E-03
VOC	Vinyl Chloride	75-01-4	9.16E-01	1.06E-04	5.55E-01	1.20E-01	1.27E-01	7.73E-05	1.85E+01	3.69E-02	3.04E+03	1.53E-06	4.63E-03
VOC	Xylenes (total)	1330-20-7	6.74E-01	7.56E-05	1.38E-01	8.82E-02	9.31E-02	7.70E-05	3.86E+02	7.71E-01	1.64E+02	2.82E-05	4.63E-03
SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	3.03E-01	3.16E-05	2.09E-06	5.75E-02	5.60E-02	7.63E-05	1.50E+07	3.00E+04	6.97E-08	6.65E+04	5.32E-12
SVOC	Diethylphthalate	84-66-2	2.21E-01	5.49E-05	9.25E-06	3.59E-02	3.61E-02	7.53E-05	2.87E+02	5.74E-01	1.50E-02	3.10E-01	1.13E-06
SVOC	Di-n-octylphthalate	117-84-0	1.30E-01	3.09E-05	1.37E-03	1.71E-02	1.81E-02	7.27E-05	8.38E+07	1.68E+05	8.17E-06	5.67E+02	5.94E-10
SVOC	Fluoranthene	206-44-0	2.61E-01	5.49E-05	3.30E-04	3.44E-02	3.62E-02	7.53E-05	1.08E+05	2.16E+02	1.53E-03	3.03E+00	1.15E-07
SVOC	Naphthalene	91-20-3	5.10E-01	6.48E-05	9.90E-03	6.68E-02	7.05E-02	7.67E-05	2.01E+03	4.02E+00	2.43E+00	1.90E-03	1.87E-04
SVOC	Phenanthrene	85-01-8	3.24E-01	6.45E-05	4.76E-04	4.26E-02	4.49E-02	7.59E-05	2.42E+04	4.85E+01	9.81E-03	4.72E-01	7.44E-07
SVOC	Pyrene	129-00-0	2.35E-01	6.26E-05	2.26E-04	3.11E-02	3.27E-02	7.50E-05	1.06E+05	2.11E+02	1.07E-03	4.34E+00	8.01E-08
P/PCB	PCBs (total)	1336-36-3	1.73E-01	4.32E-05	4.09E-02	2.26E-02	2.39E-02	7.39E-05	2.45E+06	4.91E+03	8.33E-03	5.56E-01	6.16E-07
PEST	4,4'-DDD	72-54-8	1.46E-01	4.11E-05	8.20E-05	1.97E-02	2.06E-02	7.33E-05	9.92E+05	1.98E+03	4.13E-05	1.12E+02	3.03E-09
INORG	Antimony	7440-36-0								4.50E+01			
INORG	Arsenic	7440-38-2								2.90E+01			
INORG	Barium	7440-39-3								4.10E+01			
INORG	Beryllium	7440-41-7								7.90E+02			
INORG	Cadmium	7440-43-9								7.50E+01			
INORG	Chromium (total)	7440-47-3								1.90E+01			
INORG	Chromium III	16065-83-1								1.80E+06			
INORG	Chromium VI	18540-29-9								1.90E+01			
INORG	Cobalt	7440-48-4								4.50E+01			
INORG	Copper	7440-50-8								3.50E+01			
INORG	Cyanide (total)	57-12-5								9.90E+00			
INORG	Lead	7439-92-1								9.00E+02			
INORG	Manganese	7439-96-5								6.50E+01			
INORG	Mercury	7439-97-6	2.65E-01	5.44E-05	1.45E-01	3.47E-02	3.67E-02	7.54E-05		1.00E+03	1.45E-01	3.19E-02	1.09E-05
INORG	Nickel	7440-02-0								6.50E+01			
INORG	Selenium	7782-49-2								5.00E+00			

**Attachment B.2: Vapor Intrusion into Hypothetical, Off-Site, Slab On Grade Industrial Building from Subsurface Soil
Closed Landfill Site, Elyria, Ohio**

Chem Group	Chemical	CASRN	D _{air} (m ² /d)	D _{water} (m ² /d)	H (unitless)	D _{crack} (m ² /d)	D _{eff} ^T (m ² /d)	α _∞ (unitless)	K _{oc} (L/kg)	K _d (L/kg)	C _{s, vap} (kg-soil/m ³)	α _{ML} (unitless)	C _{bldg} (kg-soil/m ³)
INORG	Silver	7440-22-4								8.30E+00			
INORG	Vanadium	7440-62-2								1.00E+03			
INORG	Zinc	7440-66-6								6.20E+01			
Notes:	Soil and Building Characteristics			Crack	Vadose								
	SCS Soil texture class			Sand	Sand								
	Bulk density	kg/L	ρ _b	1.65	1.65	(USEPA 2004b)							
	Total porosity	L/L-soil	θ	0.375	0.375	(USEPA 2004b)							
	Water-filled porosity	L/L-soil	θ _w	0.073	0.068	(USEPA 2004b)							
	Air-filled porosity	L/L-soil	θ _a	0.302	0.307								
	Organic carbon fraction	unitless	f _{oc}		0.002	(USEPA 1996)							
	Residual saturation	L/L-soil	θ _r	0.0530									
	Hydraulic conductivity	cm/s	K	7.4E-03									
	Dynamic viscosity of water	g/cm-s	μ	0.01307									
	Density of water	g/cm ³	ρ _w	1.0									
	Gravitational acceleration	cm/s ²	g	980.7									
	Intrinsic permeability	cm ²	k	9.9E-08									
	Effective total saturation	unitless	S _{te}	6.3E-02									
	van Genuchten N	unitless	N	3.177									
	van Genuchten M	unitless	M	0.685									
	Relative air permeability	unitless	k _{rg}	0.945									
	Permeability to vapor	cm ²	k _v	9.37E-08									
	Distance from building foundation to source	m	L _T	0.15									
	Bldg foundation thickness	m	L _{crack}	0.15									
	Bldg foundation length	m		19.29									
	Bldg foundation width	m		19.29									
	Bldg occupied height	m		2.44									
	Bldg occupied volume	m ³		907.93									
	Occupied depth below ground	m											
	Bldg area for vapor intrusion	m ²	A _B	372.1									
	Ratio of A _{crack} to A _B			1E-04									
	Area of cracks	m ²	A _{crack}	3.86E-02									
	Air exchange rate	hour ⁻¹	ac/h	2.0									
	Building ventilation rate	m ³ /d	Q _{bldg}	4.36E+04									
	Pressure difference between outdoors-indoors	kg/m-s ²	ΔP	1.0									
	Air viscosity	kg/m-s	μ	1.8E-05									
	Crack length (bldg perimeter)	m	X _{crack}	77.16									
	Crack depth below ground	m	Z _{crack}	0.15									
	Crack radius	m	r _{crack}	5E-04									
	Soil gas flow rate into bldg	m ³ /d	Q _{soil}	3.41E+00									
	Averaging period	s	T	7.88E+08									
	Contaminant thickness	m	ΔH	3									

Attachment B.2: Cancer Risk-Based Criteria for Routine Worker Exposure to Soil Vapor Intrusion Closed Landfill Site, Elyria, Ohio						
Chem Group	Chemical	CASRN	Carc Class	Vapor Inhalation		
				C _{air} (mg/m ³)	URF (m ³ /mg)	RBC (mg/kg)
VOC	Acetone	67-64-1	ID	1.35E-03		
VOC	Benzene	71-43-2	A	4.63E-03	7.8E-03	1.1E-01
VOC	2-Butanone	78-93-3	ID	1.81E-03		
VOC	Carbon Disulfide	75-15-0		4.63E-03		
VOC	Chloroform	67-66-3	B2	4.63E-03	2.3E-02	3.8E-02
VOC	1,1-Dichloroethene	75-35-4	C	4.63E-03		
VOC	1,2-Dichloroethene (total)	540-59-0		4.63E-03		
VOC	cis-1,2-Dichloroethene	156-59-2	D	4.63E-03		
VOC	trans-1,2-Dichloroethene	156-60-5		4.63E-03		
VOC	Ethyl Benzene	100-41-4	D	4.63E-03		
VOC	4-Methyl-2-pentanone	108-10-1	ID	3.29E-03		
VOC	Methylene Chloride	75-09-2	B2	4.63E-03	4.7E-04	1.9E+00
VOC	Styrene	100-42-5		2.70E-03		
VOC	Tetrachloroethene	127-18-4	C-B2	4.63E-03	3.1E-03	2.9E-01
VOC	Toluene	108-88-3	ID	4.63E-03		
VOC	Trichloroethene	79-01-6	C-B2	4.63E-03	1.7E-03	5.2E-01
VOC	Vinyl Chloride	75-01-4	A	4.63E-03	8.8E-03	1.0E-01
VOC	Xylenes (total)	1330-20-7	ID	4.63E-03		
SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	5.32E-12	4.0E-03	1.9E+08
SVOC	Diethylphthalate	84-66-2	D	1.13E-06		
SVOC	Di-n-octylphthalate	117-84-0		5.94E-10		
SVOC	Fluoranthene	206-44-0	D	1.15E-07		
SVOC	Naphthalene	91-20-3	C	1.87E-04		
SVOC	Phenanthrene	85-01-8	D	7.44E-07		
SVOC	Pyrene	129-00-0	D	8.01E-08		
P/PCB	PCBs (total)	1336-36-3	B2	6.16E-07	5.7E-01	1.2E+01
PEST	4,4'-DDD	72-54-8	B2	3.03E-09	6.9E-02	2.0E+04
INORG	Antimony	7440-36-0				
INORG	Arsenic	7440-38-2	A		4.3E+00	
INORG	Barium	7440-39-3	D			
INORG	Beryllium	7440-41-7	B1		2.4E+00	
INORG	Cadmium	7440-43-9	B1		1.8E+00	
INORG	Chromium (total)	7440-47-3			1.2E+01	
INORG	Chromium III	16065-83-1	D			
INORG	Chromium VI	18540-29-9	A		1.2E+01	
INORG	Cobalt	7440-48-4	B1		2.8E+00	
INORG	Copper	7440-50-8	D			
INORG	Cyanide (total)	57-12-5	D			
INORG	Lead	7439-92-1	B2			
INORG	Manganese	7439-96-5	D			
INORG	Mercury	7439-97-6	D	1.09E-05		
INORG	Nickel	7440-02-0	A		2.4E-01	
INORG	Selenium	7782-49-2	D			
INORG	Silver	7440-22-4	D			
INORG	Vanadium	7440-62-2				
INORG	Zinc	7440-66-6	D			
Notes:						
Target Cancer Risk of 10 ⁻⁶						
RBC = Risk Based Criteria						
Abbreviations:						
Chem Group - Chemical Group						
Carc Class - EPA Weight-of-Evidence Cancer Classification						

Attachment B.2: Noncancer Risk-Based Criteria for Routine Worker Exposure to Soil Vapor Intrusion
Closed Landfill Site, Elyria, Ohio

Chem Group	Chemical	CASRN	Carc Class	Vapor Inhalation		
				C _{air} (mg/m ³)	RfC (mg/m ³)	RBC (mg/kg)
VOC	Acetone	67-64-1	ID	1.35E-03	3.2E+00	3.4E+03
VOC	Benzene	71-43-2	A	4.63E-03	3.0E-02	9.5E+00
VOC	2-Butanone	78-93-3	ID	1.81E-03	5.0E+00	4.0E+03
VOC	Carbon Disulfide	75-15-0		4.63E-03	7.0E-01	2.2E+02
VOC	Chloroform	67-66-3	B2	4.63E-03	5.0E-02	1.6E+01
VOC	1,1-Dichloroethene	75-35-4	C	4.63E-03	2.0E-01	6.3E+01
VOC	1,2-Dichloroethene (total)	540-59-0		4.63E-03	3.5E-02	1.1E+01
VOC	cis-1,2-Dichloroethene	156-59-2	D	4.63E-03	3.5E-02	1.1E+01
VOC	trans-1,2-Dichloroethene	156-60-5		4.63E-03	6.0E-02	1.9E+01
VOC	Ethyl Benzene	100-41-4	D	4.63E-03	1.0E+00	3.2E+02
VOC	4-Methyl-2-pentanone	108-10-1	ID	3.29E-03	3.0E+00	1.3E+03
VOC	Methylene Chloride	75-09-2	B2	4.63E-03	3.0E+00	9.5E+02
VOC	Styrene	100-42-5		2.70E-03	1.0E+00	5.4E+02
VOC	Tetrachloroethene	127-18-4	C-B2	4.63E-03	4.0E-01	1.3E+02
VOC	Toluene	108-88-3	ID	4.63E-03	5.0E+00	1.6E+03
VOC	Trichloroethene	79-01-6	C-B2	4.63E-03		
VOC	Vinyl Chloride	75-01-4	A	4.63E-03	1.0E-01	3.2E+01
VOC	Xylenes (total)	1330-20-7	ID	4.63E-03	1.0E-01	3.2E+01
SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	5.32E-12	7.0E-02	1.9E+10
SVOC	Diethylphthalate	84-66-2	D	1.13E-06	2.8E+00	3.6E+06
SVOC	Di-n-octylphthalate	117-84-0		5.94E-10		
SVOC	Fluoranthene	206-44-0	D	1.15E-07	1.4E-01	1.8E+06
SVOC	Naphthalene	91-20-3	C	1.87E-04	3.0E-03	2.3E+01
SVOC	Phenanthrene	85-01-8	D	7.44E-07	1.1E-01	2.1E+05
SVOC	Pyrene	129-00-0	D	8.01E-08	1.1E-01	1.9E+06
P/PCB	PCBs (total)	1336-36-3	B2	6.16E-07		
PEST	4,4'-DDD	72-54-8	B2	3.03E-09	1.1E-02	5.1E+06
INORG	Antimony	7440-36-0			1.4E-03	
INORG	Arsenic	7440-38-2	A			
INORG	Barium	7440-39-3	D			
INORG	Beryllium	7440-41-7	B1		2.0E-05	
INORG	Cadmium	7440-43-9	B1		2.0E-04	
INORG	Chromium (total)	7440-47-3			1.0E-04	
INORG	Chromium III	16065-83-1	D		5.3E+00	
INORG	Chromium VI	18540-29-9	A		1.0E-04	
INORG	Cobalt	7440-48-4	B1		2.0E-05	
INORG	Copper	7440-50-8	D		1.4E-01	
INORG	Cyanide (total)	57-12-5	D		7.0E-02	
INORG	Lead	7439-92-1	B2			
INORG	Manganese	7439-96-5	D		5.0E-05	
INORG	Mercury	7439-97-6	D	1.09E-05	3.0E-04	4.0E+01
INORG	Nickel	7440-02-0	A			
INORG	Selenium	7782-49-2	D		1.8E-02	
INORG	Silver	7440-22-4	D		1.0E-05	
INORG	Vanadium	7440-62-2			3.5E-03	
INORG	Zinc	7440-66-6	D		1.1E+00	
Notes:						
Target Hazard Index of 1.						
RBC = Risk Based Criteria						
Abbreviations:						
Chem Group - Chemical Group						
Carc Class - EPA Weight-of-Evidence Cancer Classification						

Attachment B.2: Upper-Bound Incremental Cancer Risks and Noncancer HIs for Soil Exposure (Based on Highest Soil Concentrations)
Closed Landfill Site, Elyria, Ohio

Area	Chem Group	Chemical	CASRN	Max Conc (mg/kg)	Max Limit (mg/kg)	Routine Worker (Indoor) Soil Volatilization into Indoor Air Cancer Risk		Routine Worker (Indoor) Soil Volatilization into Indoor Air Noncancer Hazard Quotient		Routine Worker (Outdoor) Soil Direct Contact and Inhalation Cancer Risk		Routine Worker (Outdoor) Soil Direct Contact and Inhalation Noncancer Hazard Quotient	
						Detects	Nondetects	Detects	Nondetects	Detects	Nondetects	Detects	Nondetects
Die Storage Pad	VOC	Acetone	67-64-1	1.90E+00				6E-04				1E-04	
Die Storage Pad	VOC	2-Butanone	78-93-3	9.30E+00	1.00E-01			2E-03				4E-04	
Die Storage Pad	VOC	1,1-Dichloroethene	75-35-4	1.40E-02	5.00E-01			2E-04				1E-04	
Die Storage Pad	VOC	1,2-Dichloroethene (total)	540-59-0	4.50E+00				4E-01				1E-01	
Die Storage Pad	VOC	Ethyl Benzene	100-41-4	3.40E+00	5.00E-02			1E-02				2E-03	
Die Storage Pad	VOC	4-Methyl-2-pentanone	108-10-1		1.00E+00				4E-04				5E-05
Die Storage Pad	VOC	Methylene Chloride	75-09-2	1.50E-02	5.00E-01	8E-09		2E-05		3E-09		6E-06	
Die Storage Pad	VOC	Tetrachloroethene	127-18-4		5.00E-01		9E-07		2E-03		3E-07		7E-04
Die Storage Pad	VOC	Toluene	108-88-3	7.80E-01				5E-04				1E-03	
Die Storage Pad	VOC	Trichloroethene	79-01-6	7.30E+01		1E-04				4E-05		6E-03	
Die Storage Pad	VOC	Vinyl Chloride	75-01-4	8.20E-02	1.00E+00	8E-07		3E-03		6E-07		2E-03	
Die Storage Pad	VOC	Xylenes (total)	1330-20-7	2.60E+01				8E-01				1E-01	
Die Storage Pad	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	5.10E+00		3E-14		3E-10		3E-08		3E-04	
Die Storage Pad	SVOC	Diethylphthalate	84-66-2		1.60E+00				2E-07				2E-06
Die Storage Pad	SVOC	Fluoranthene	206-44-0		1.60E+00				5E-07				3E-05
Die Storage Pad	SVOC	Naphthalene	91-20-3	3.90E-01	1.60E+00			2E-02				7E-03	
Die Storage Pad	SVOC	Phenanthrene	85-01-8		1.60E+00				4E-06				6E-05
Die Storage Pad	SVOC	Pyrene	129-00-0		1.60E+00				4E-07				4E-05
Die Storage Pad	INORG	Chromium (total)	7440-47-3	7.41E+03						2E-05		1E+00	
Die Storage Pad	INORG	Copper	7440-50-8	2.91E+04								4E-01	
Die Storage Pad	INORG	Nickel	7440-02-0	1.23E+04						6E-07		3E-01	
Die Storage Pad	INORG	Zinc	7440-66-6	6.69E+03								1E-02	
Effluent Line	INORG	Chromium (total)	7440-47-3	3.25E+03						8E-06		5E-01	
Effluent Line	INORG	Copper	7440-50-8	5.10E+03								6E-02	
Effluent Line	INORG	Nickel	7440-02-0	1.12E+03						5E-08		3E-02	
Fuel Oil Tank	INORG	Chromium (total)	7440-47-3	3.25E+03						8E-06		5E-01	
Fuel Oil Tank	INORG	Copper	7440-50-8	1.08E+03								1E-02	
Fuel Oil Tank	INORG	Nickel	7440-02-0	9.11E+02						4E-08		2E-02	
N. Sludge Area	VOC	Methylene Chloride	75-09-2	3.50E-02	5.00E-01	2E-08		4E-05		7E-09		1E-05	
N. Sludge Area	VOC	Tetrachloroethene	127-18-4	9.00E-03	5.00E-01	3E-08		7E-05		1E-08		2E-05	
N. Sludge Area	VOC	Toluene	108-88-3		5.00E-01				2E-04				5E-04
N. Sludge Area	VOC	Trichloroethene	79-01-6		2.50E+00		2E-06				7E-07		1E-04
N. Sludge Area	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	3.50E+00		2E-14		2E-10		2E-08		2E-04	
N. Sludge Area	SVOC	Fluoranthene	206-44-0		1.60E+00				5E-07				3E-05
N. Sludge Area	SVOC	Phenanthrene	85-01-8		1.60E+00				4E-06				6E-05
N. Sludge Area	SVOC	Pyrene	129-00-0		1.60E+00				4E-07				4E-05
N. Sludge Area	PCB	PCBs (total)	1336-36-3	5.60E-02		5E-09				8E-08		4E-03	
N. Sludge Area	INORG	Antimony	7440-36-0	3.85E+02								5E-01	
N. Sludge Area	INORG	Arsenic	7440-38-2	2.31E+01						8E-06		5E-02	
N. Sludge Area	INORG	Barium	7440-39-3	2.17E+02								2E-03	
N. Sludge Area	INORG	Beryllium	7440-41-7	1.30E+00						6E-10		4E-04	
N. Sludge Area	INORG	Cadmium	7440-43-9	2.09E+01						7E-09		2E-02	
N. Sludge Area	INORG	Chromium (total)	7440-47-3	3.45E+04						8E-05		6E+00	
N. Sludge Area	INORG	Cobalt	7440-48-4	2.63E+01						1E-08		1E-03	
N. Sludge Area	INORG	Copper	7440-50-8	1.28E+04								2E-01	
N. Sludge Area	INORG	Cyanide (total)	57-12-5	1.43E+02								3E-03	
N. Sludge Area	INORG	Manganese	7439-96-5	4.67E+02								7E-03	
N. Sludge Area	INORG	Mercury	7439-97-6	4.50E-01				1E-02				2E-02	
N. Sludge Area	INORG	Nickel	7440-02-0	2.43E+04						1E-06		6E-01	
N. Sludge Area	INORG	Selenium	7782-49-2	3.20E+00								3E-04	
N. Sludge Area	INORG	Silver	7440-22-4	7.10E+00								1E-03	

Attachment B.2: Upper-Bound Incremental Cancer Risks and Noncancer HIs for Soil Exposure (Based on Highest Soil Concentrations)
Closed Landfill Site, Elyria, Ohio

Area	Chem Group	Chemical	CASRN	Max Conc (mg/kg)	Max Limit (mg/kg)	Routine Worker (Indoor) Soil Volatilization into Indoor Air Cancer Risk		Routine Worker (Indoor) Soil Volatilization into Indoor Air Noncancer Hazard Quotient		Routine Worker (Outdoor) Soil Direct Contact and Inhalation Cancer Risk		Routine Worker (Outdoor) Soil Direct Contact and Inhalation Noncancer Hazard Quotient	
						Detects	Nondetects	Detects	Nondetects	Detects	Nondetects	Detects	Nondetects
N. Sludge Area	INORG	Zinc	7440-66-6	3.79E+03								6E-03	
N. Trenches	VOC	Acetone	67-64-1	6.10E-02				2E-05				5E-06	
N. Trenches	VOC	2-Butanone	78-93-3	1.20E-02	1.00E-02			3E-06				6E-07	
N. Trenches	VOC	1,1-Dichloroethene	75-35-4		5.00E-03				4E-05				2E-05
N. Trenches	VOC	1,2-Dichloroethene (total)	540-59-0	4.50E-01				4E-02				1E-02	
N. Trenches	VOC	Ethyl Benzene	100-41-4	2.00E-02				6E-05				1E-05	
N. Trenches	VOC	4-Methyl-2-pentanone	108-10-1	2.00E-03	1.00E-02			2E-06				2E-07	
N. Trenches	VOC	Methylene Chloride	75-09-2	1.50E-02		8E-09		2E-05		3E-09		6E-06	
N. Trenches	VOC	Tetrachloroethene	127-18-4		5.00E-03		9E-09		2E-05		3E-09		7E-06
N. Trenches	VOC	Toluene	108-88-3	1.80E-02				1E-05				3E-05	
N. Trenches	VOC	Trichloroethene	79-01-6	3.40E+00		7E-06				2E-06		3E-04	
N. Trenches	VOC	Vinyl Chloride	75-01-4	8.00E-03	1.00E-02	8E-08		3E-04		5E-08		2E-04	
N. Trenches	VOC	Xylenes (total)	1330-20-7	1.20E-01				4E-03				6E-04	
N. Trenches	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	3.90E-02	3.30E-01	2E-16		2E-12		2E-10		2E-06	
N. Trenches	SVOC	Diethylphthalate	84-66-2	1.10E-01	3.30E-01			3E-08				3E-07	
N. Trenches	SVOC	Fluoranthene	206-44-0		3.30E-01				9E-08				7E-06
N. Trenches	SVOC	Naphthalene	91-20-3		3.30E-01				7E-03				3E-03
N. Trenches	SVOC	Phenanthrene	85-01-8		3.30E-01				8E-07				1E-05
N. Trenches	SVOC	Pyrene	129-00-0		3.30E-01				9E-08				9E-06
N. Trenches	INORG	Chromium (total)	7440-47-3	3.25E+03						8E-06		5E-01	
N. Trenches	INORG	Copper	7440-50-8	1.15E+03								1E-02	
N. Trenches	INORG	Nickel	7440-02-0	2.31E+03						1E-07		6E-02	
N. Trenches	INORG	Zinc	7440-66-6	1.48E+02								2E-04	
Open Burn	VOC	Methylene Chloride	75-09-2		5.00E-01		1E-07		3E-04		5E-08		1E-04
Open Burn	VOC	Tetrachloroethene	127-18-4	2.50E-02		9E-08		2E-04		3E-08		7E-05	
Open Burn	VOC	Toluene	108-88-3	3.00E-03	5.00E-01			2E-06				6E-06	
Open Burn	VOC	Trichloroethene	79-01-6	8.00E-03		2E-08				4E-09		7E-07	
Open Burn	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	2.40E-01	1.60E+00	1E-15		1E-11		1E-09		1E-05	
Open Burn	SVOC	Fluoranthene	206-44-0	1.90E-01	1.60E+00			1E-07				8E-06	
Open Burn	SVOC	Phenanthrene	85-01-8	2.20E-01	1.60E+00			1E-06				2E-05	
Open Burn	SVOC	Pyrene	129-00-0	1.30E-01	1.60E+00			7E-08				7E-06	
Open Burn	PEST	4,4'-DDD	72-54-8	1.10E-01		6E-12		2E-08		7E-09		3E-05	
Open Burn	PCB	PCBs (total)	1336-36-3	7.70E-01		7E-08				1E-06		5E-02	
Open Burn	INORG	Arsenic	7440-38-2	5.80E+00						2E-06		1E-02	
Open Burn	INORG	Barium	7440-39-3	1.22E+02								9E-04	
Open Burn	INORG	Beryllium	7440-41-7	1.20E+00						6E-10		3E-04	
Open Burn	INORG	Cadmium	7440-43-9	4.80E+00						2E-09		4E-03	
Open Burn	INORG	Chromium (total)	7440-47-3	6.71E+02						2E-06		1E-01	
Open Burn	INORG	Cobalt	7440-48-4	9.40E+00						5E-09		5E-04	
Open Burn	INORG	Copper	7440-50-8	2.16E+02								3E-03	
Open Burn	INORG	Manganese	7439-96-5	2.81E+03								4E-02	
Open Burn	INORG	Nickel	7440-02-0	6.69E+02						3E-08		2E-02	
Open Burn	INORG	Selenium	7782-49-2	4.20E-01								4E-05	
Open Burn	INORG	Vanadium	7440-62-2	3.88E+01								2E-02	
Open Burn	INORG	Zinc	7440-66-6	1.01E+03								2E-03	
Railway Spur	INORG	Chromium (total)	7440-47-3	1.45E+03						3E-06		2E-01	
Railway Spur	INORG	Copper	7440-50-8	5.10E+03								6E-02	
Railway Spur	INORG	Nickel	7440-02-0	1.12E+03						5E-08		3E-02	
S. Sludge Area	VOC	Methylene Chloride	75-09-2		5.00E-01		1E-07		3E-04		5E-08		1E-04
S. Sludge Area	VOC	Tetrachloroethene	127-18-4		5.00E-01		9E-07		2E-03		3E-07		7E-04
S. Sludge Area	VOC	Toluene	108-88-3		5.00E-01				2E-04				5E-04

Attachment B.2: Upper-Bound Incremental Cancer Risks and Noncancer HIs for Soil Exposure (Based on Highest Soil Concentrations)
Closed Landfill Site, Elyria, Ohio

Area	Chem Group	Chemical	CASRN	Max Conc (mg/kg)	Max Limit (mg/kg)	Routine Worker (Indoor) Soil Volatilization into Indoor Air Cancer Risk		Routine Worker (Indoor) Soil Volatilization into Indoor Air Noncancer Hazard Quotient		Routine Worker (Outdoor) Soil Direct Contact and Inhalation Cancer Risk		Routine Worker (Outdoor) Soil Direct Contact and Inhalation Noncancer Hazard Quotient	
						Detects	Nondetects	Detects	Nondetects	Detects	Nondetects	Detects	Nondetects
S. Sludge Area	VOC	Trichloroethene	79-01-6		2.50E+00		2E-06						1E-04
S. Sludge Area	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	2.30E+00		1E-14		1E-10		1E-08		1E-04	
S. Sludge Area	SVOC	Fluoranthene	206-44-0		1.60E+00				5E-07				3E-05
S. Sludge Area	SVOC	Phenanthrene	85-01-8		1.60E+00				4E-06				6E-05
S. Sludge Area	SVOC	Pyrene	129-00-0		1.60E+00				4E-07				4E-05
S. Sludge Area	INORG	Antimony	7440-36-0	2.53E+02								3E-01	
S. Sludge Area	INORG	Arsenic	7440-38-2	2.57E+01						9E-06		6E-02	
S. Sludge Area	INORG	Barium	7440-39-3	1.69E+02								1E-03	
S. Sludge Area	INORG	Beryllium	7440-41-7	1.30E+00						6E-10		4E-04	
S. Sludge Area	INORG	Cadmium	7440-43-9	1.06E+01						4E-09		8E-03	
S. Sludge Area	INORG	Chromium (total)	7440-47-3	2.21E+04						5E-05		4E+00	
S. Sludge Area	INORG	Cobalt	7440-48-4	3.65E+01						2E-08		2E-03	
S. Sludge Area	INORG	Copper	7440-50-8	4.37E+03								5E-02	
S. Sludge Area	INORG	Cyanide (total)	57-12-5	3.06E+01								7E-04	
S. Sludge Area	INORG	Manganese	7439-96-5	3.97E+02								6E-03	
S. Sludge Area	INORG	Mercury	7439-97-6	4.10E-01				1E-02				1E-02	
S. Sludge Area	INORG	Nickel	7440-02-0	9.58E+03						5E-07		2E-01	
S. Sludge Area	INORG	Selenium	7782-49-2	1.30E+00								1E-04	
S. Sludge Area	INORG	Vanadium	7440-62-2	4.30E+00								2E-03	
S. Sludge Area	INORG	Zinc	7440-66-6	3.36E+03								5E-03	
S. Trenches	VOC	Acetone	67-64-1	1.90E+00				6E-04				1E-04	
S. Trenches	VOC	2-Butanone	78-93-3	9.30E+00	1.00E-01			2E-03				4E-04	
S. Trenches	VOC	1,1-Dichloroethene	75-35-4	1.40E-02	5.00E-01			2E-04				1E-04	
S. Trenches	VOC	1,2-Dichloroethene (total)	540-59-0	4.50E+00				4E-01				1E-01	
S. Trenches	VOC	Ethyl Benzene	100-41-4	3.40E+00	5.00E-02			1E-02				2E-03	
S. Trenches	VOC	4-Methyl-2-pentanone	108-10-1		1.00E+00				4E-04				5E-05
S. Trenches	VOC	Methylene Chloride	75-09-2	1.50E-02	5.00E-01	8E-09		2E-05		3E-09		6E-06	
S. Trenches	VOC	Tetrachloroethene	127-18-4		5.00E-01		9E-07		2E-03		3E-07		7E-04
S. Trenches	VOC	Toluene	108-88-3	7.80E-01				5E-04				1E-03	
S. Trenches	VOC	Trichloroethene	79-01-6	7.30E+01		1E-04				4E-05		6E-03	
S. Trenches	VOC	Vinyl Chloride	75-01-4	8.20E-02	1.00E+00	8E-07		3E-03		6E-07		2E-03	
S. Trenches	VOC	Xylenes (total)	1330-20-7	2.60E+01				8E-01				1E-01	
S. Trenches	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	5.10E+00		3E-14		3E-10		3E-08		3E-04	
S. Trenches	SVOC	Diethylphthalate	84-66-2		1.60E+00				2E-07				2E-06
S. Trenches	SVOC	Fluoranthene	206-44-0		1.60E+00				5E-07				3E-05
S. Trenches	SVOC	Naphthalene	91-20-3	3.90E-01	1.60E+00			2E-02				7E-03	
S. Trenches	SVOC	Phenanthrene	85-01-8		1.60E+00				4E-06				6E-05
S. Trenches	SVOC	Pyrene	129-00-0		1.60E+00				4E-07				4E-05
S. Trenches	INORG	Chromium (total)	7440-47-3	7.41E+03						2E-05		1E+00	
S. Trenches	INORG	Copper	7440-50-8	2.91E+04								4E-01	
S. Trenches	INORG	Nickel	7440-02-0	1.23E+04						6E-07		3E-01	
S. Trenches	INORG	Zinc	7440-66-6	6.69E+03								1E-02	
Unassigned	VOC	Methylene Chloride	75-09-2		5.00E-01		1E-07		3E-04		5E-08		1E-04
Unassigned	VOC	Tetrachloroethene	127-18-4	1.20E-02		4E-08		1E-04		1E-08		3E-05	
Unassigned	VOC	Toluene	108-88-3		5.00E-01				2E-04				5E-04
Unassigned	VOC	Trichloroethene	79-01-6		2.50E+00		2E-06				7E-07		1E-04
Unassigned	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	3.00E-01		2E-15		2E-11		2E-09		2E-05	
Unassigned	SVOC	Fluoranthene	206-44-0		1.60E+00				5E-07				3E-05
Unassigned	SVOC	Phenanthrene	85-01-8		1.60E+00				4E-06				6E-05
Unassigned	SVOC	Pyrene	129-00-0		1.60E+00				4E-07				4E-05
Unassigned	INORG	Arsenic	7440-38-2	1.04E+01						4E-06		2E-02	

Attachment B.2: Upper-Bound Incremental Cancer Risks and Noncancer HIs for Soil Exposure (Based on Highest Soil Concentrations) Closed Landfill Site, Elyria, Ohio													
Area	Chem Group	Chemical	CASRN	Max Conc (mg/kg)	Max Limit (mg/kg)	Routine Worker (Indoor) Soil Volatilization into Indoor Air Cancer Risk		Routine Worker (Indoor) Soil Volatilization into Indoor Air Noncancer Hazard Quotient		Routine Worker (Outdoor) Soil Direct Contact and Inhalation Cancer Risk		Routine Worker (Outdoor) Soil Direct Contact and Inhalation Noncancer Hazard Quotient	
						Detects	Nondetects	Detects	Nondetects	Detects	Nondetects	Detects	Nondetects
Unassigned	INORG	Barium	7440-39-3	7.57E+01								5E-04	
Unassigned	INORG	Beryllium	7440-41-7	7.50E-01						4E-10		2E-04	
Unassigned	INORG	Cadmium	7440-43-9	3.60E+00						1E-09		3E-03	
Unassigned	INORG	Chromium (total)	7440-47-3	2.18E+01						5E-08		4E-03	
Unassigned	INORG	Cobalt	7440-48-4	8.90E+00						5E-09		5E-04	
Unassigned	INORG	Copper	7440-50-8	4.34E+01								5E-04	
Unassigned	INORG	Manganese	7439-96-5	3.20E+02								5E-03	
Unassigned	INORG	Nickel	7440-02-0	3.12E+01						1E-09		8E-04	
Unassigned	INORG	Selenium	7782-49-2	5.40E-01								5E-05	
Unassigned	INORG	Vanadium	7440-62-2	3.45E+01								2E-02	
Unassigned	INORG	Zinc	7440-66-6	8.19E+01								1E-04	
Notes:													
Nondetected cancer risk or hazard quotient estimates are based on half limits when the chemical was not detected in soil in the area but was detected in soil elsewhere at the site.													

ATTACHMENT B.3
RISK-BASED CRITERIA DEVELOPMENT AND RISK
CALCULATIONS FOR MAINTENANCE WORKERS

**Attachment B.3: Normalized Vapor Flux to Ambient Air from Exposed Groundwater in Excavations
Closed Landfill Site, Elyria, Ohio**

Chem Group	Chemical	CASRN	H (unitless)	MW g/mol	k_G cm/s	k_L cm/s	1/K_L s/cm	K_L cm/s	J_L (L/m²-s)
VOC	Acetone	67-64-1	8.0E-04	5.8E+01	5.38E-01	1.42E-03	3.04E+03	3.29E-04	3.2855E-03
VOC	Benzene	71-43-2	1.1E-01	7.8E+01	4.87E-01	1.22E-03	8.35E+02	1.20E-03	1.1974E-02
VOC	2-Butanone	78-93-3	1.1E-03	7.2E+01	5.00E-01	1.27E-03	2.54E+03	3.94E-04	3.94E-03
VOC	Carbon Disulfide	75-15-0	6.2E-01	7.6E+01	4.91E-01	1.24E-03	8.10E+02	1.23E-03	1.23E-02
VOC	Chloroform	67-66-3	7.5E-02	1.2E+02	4.22E-01	9.90E-04	1.04E+03	9.60E-04	9.60E-03
VOC	1,1-Dichloroethene	75-35-4	5.4E-01	9.7E+01	4.53E-01	1.10E-03	9.14E+02	1.09E-03	1.09E-02
VOC	1,2-Dichloroethene (total)	540-59-0	8.4E-02	9.7E+01	4.53E-01	1.10E-03	9.37E+02	1.07E-03	1.07E-02
VOC	cis-1,2-Dichloroethene	156-59-2	8.4E-02	9.7E+01	4.53E-01	1.10E-03	9.37E+02	1.07E-03	1.07E-02
VOC	trans-1,2-Dichloroethene	156-60-5	1.9E-01	9.7E+01	4.53E-01	1.10E-03	9.22E+02	1.08E-03	1.08E-02
VOC	Ethyl Benzene	100-41-4	1.6E-01	1.1E+02	4.39E-01	1.05E-03	9.67E+02	1.03E-03	1.03E-02
VOC	4-Methyl-2-pentanone	108-10-1	2.8E-03	1.0E+02	4.48E-01	1.08E-03	1.72E+03	5.82E-04	5.82E-03
VOC	Methylene Chloride	75-09-2	4.5E-02	8.5E+01	4.73E-01	1.17E-03	8.99E+02	1.11E-03	1.11E-02
VOC	Styrene	100-42-5	5.7E-02	1.0E+02	4.42E-01	1.06E-03	9.84E+02	1.02E-03	1.02E-02
VOC	Tetrachloroethene	127-18-4	3.8E-01	1.7E+02	3.78E-01	8.40E-04	1.20E+03	8.35E-04	8.35E-03
VOC	Toluene	108-88-3	1.4E-01	9.2E+01	4.61E-01	1.13E-03	9.03E+02	1.11E-03	1.11E-02
VOC	Trichloroethene	79-01-6	2.1E-01	1.3E+02	4.09E-01	9.44E-04	1.07E+03	9.33E-04	9.33E-03
VOC	Vinyl Chloride	75-01-4	5.6E-01	6.3E+01	5.25E-01	1.37E-03	7.34E+02	1.36E-03	1.36E-02
VOC	Xylenes (total)	1330-20-7	1.4E-01	1.1E+02	4.39E-01	1.05E-03	9.69E+02	1.03E-03	1.03E-02
SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	2.1E-06	3.9E+02	2.84E-01	5.47E-04	1.69E+06	5.93E-07	5.93E-06
SVOC	Diethylphthalate	84-66-2	9.3E-06	2.2E+02	3.43E-01	7.26E-04	3.17E+05	3.16E-06	3.16E-05
SVOC	Di-n-octylphthalate	117-84-0	1.4E-03	3.9E+02	2.84E-01	5.47E-04	4.40E+03	2.27E-04	2.27E-03
SVOC	Fluoranthene	206-44-0	3.3E-04	2.0E+02	3.54E-01	7.61E-04	9.87E+03	1.01E-04	1.01E-03
SVOC	Naphthalene	91-20-3	9.9E-03	1.3E+02	4.13E-01	9.55E-04	1.29E+03	7.74E-04	7.74E-03
SVOC	Phenanthrene	85-01-8	4.8E-04	1.8E+02	3.69E-01	8.10E-04	6.92E+03	1.45E-04	1.45E-03
SVOC	Pyrene	129-00-0	2.3E-04	2.0E+02	3.54E-01	7.61E-04	1.38E+04	7.23E-05	7.23E-04
P/PCB	PCBs (total)	1336-36-3	4.1E-02	3.3E+02	3.01E-01	5.97E-04	1.76E+03	5.70E-04	5.70E-03
PEST	4,4'-DDD	72-54-8	8.2E-05	3.2E+02	3.04E-01	6.05E-04	4.18E+04	2.39E-05	2.39E-04
INORG	Antimony	7440-36-0		1.2E+02	4.20E-01	9.80E-04			
INORG	Arsenic	7440-38-2		7.5E+01	4.94E-01	1.25E-03			
INORG	Barium	7440-39-3		1.4E+02	4.03E-01	9.23E-04			
INORG	Beryllium	7440-41-7		9.0E+00	1.00E+00	3.60E-03			
INORG	Cadmium	7440-43-9		1.1E+02	4.31E-01	1.02E-03			
INORG	Chromium (total)	7440-47-3		5.2E+01	5.58E-01	1.50E-03			

**Attachment B.3: Normalized Vapor Flux to Ambient Air from Exposed Groundwater in Excavations
Closed Landfill Site, Elyria, Ohio**

Chem Group	Chemical	CASRN	H (unitless)	MW g/mol	k_G cm/s	k_L cm/s	1/K_L s/cm	K_L cm/s	J_L (L/m²-s)
INORG	Chromium III	16065-83-1		5.2E+01	5.58E-01	1.50E-03			
INORG	Chromium VI	18540-29-9		5.2E+01	5.58E-01	1.50E-03			
INORG	Cobalt	7440-48-4		5.9E+01	5.35E-01	1.41E-03			
INORG	Copper	7440-50-8		6.4E+01	5.22E-01	1.36E-03			
INORG	Cyanide (total)	57-12-5		2.6E+01	7.04E-01	2.12E-03			
INORG	Lead	7439-92-1		2.1E+02	3.51E-01	7.51E-04			
INORG	Manganese	7439-96-5		5.5E+01	5.48E-01	1.46E-03			
INORG	Mercury	7439-97-6	1.5E-01	2.0E+02	3.55E-01	7.63E-04	1.33E+03	7.52E-04	7.52E-03
INORG	Nickel	7440-02-0		5.9E+01	5.36E-01	1.41E-03			
INORG	Selenium	7782-49-2		7.9E+01	4.85E-01	1.22E-03			
INORG	Silver	7440-22-4		1.1E+02	4.37E-01	1.04E-03			
INORG	Vanadium	7440-62-2		5.1E+01	5.62E-01	1.52E-03			
INORG	Zinc	7440-66-6		6.5E+01	5.17E-01	1.34E-03			
	Notes:								
	molecular weight of oxygen	g/mol	MW_{O2}	32					
	molecular weight of water	g/mol	MW_{H2O}	18					
	absolute temperature	K	T	285					
	liquid-phase mass transfer coefficient for oxygen	cm/s	k_{L,O2}	0.002					
	gas-phase mass transfer coefficient for water vapor at 25 C	cm/s	K_{G,H2O}	0.833					

Attachment B.3: Nonsteady State Dermal Absorption of Chemical from Water
Closed Landfill Site, Elyria, Ohio

Chem Group	Chemical	CASRN	MW (g/mole)	FA (unitless)	K _p (cm/hr)	B (unitless)	τ (hr)	c	b	ts (hr)	DA (L/cm ² -event)
VOC	Acetone	67-64-1	5.8E+01	1.0E+00	5.2E-04	1.5E-03	2.2E-01	3.3E-01	3.0E-01	5.3E-01	1.27E-06
VOC	Benzene	71-43-2	7.8E+01	1.0E+00	1.5E-02	5.0E-02	2.9E-01	3.7E-01	3.3E-01	6.9E-01	3.70E-05
VOC	2-Butanone	78-93-3	7.2E+01	1.0E+00	9.6E-04	3.1E-03	2.7E-01	3.4E-01	3.1E-01	6.4E-01	2.42E-06
VOC	Carbon Disulfide	75-15-0	7.6E+01	1.0E+00	1.2E-02	4.2E-02	2.8E-01	3.6E-01	3.3E-01	6.7E-01	3.11E-05
VOC	Chloroform	67-66-3	1.2E+02	1.0E+00	6.3E-03	2.6E-02	4.9E-01	3.5E-01	3.2E-01	1.2E+00	1.86E-05
VOC	1,1-Dichloroethene	75-35-4	9.7E+01	1.0E+00	1.2E-02	4.4E-02	3.7E-01	3.6E-01	3.3E-01	8.8E-01	3.10E-05
VOC	1,2-Dichloroethene (total)	540-59-0	9.7E+01	1.0E+00	7.7E-03	2.9E-02	3.7E-01	3.5E-01	3.2E-01	8.8E-01	2.07E-05
VOC	cis-1,2-Dichloroethene	156-59-2	9.7E+01	1.0E+00	7.7E-03	2.9E-02	3.7E-01	3.5E-01	3.2E-01	8.8E-01	2.07E-05
VOC	trans-1,2-Dichloroethene	156-60-5	9.7E+01	1.0E+00	1.1E-02	4.0E-02	3.7E-01	3.6E-01	3.3E-01	8.8E-01	2.83E-05
VOC	Ethyl Benzene	100-41-4	1.1E+02	1.0E+00	4.8E-02	1.9E-01	4.1E-01	4.7E-01	4.3E-01	9.9E-01	1.27E-04
VOC	4-Methyl-2-pentanone	108-10-1	1.0E+02	1.0E+00	2.7E-03	1.0E-02	3.8E-01	3.4E-01	3.1E-01	9.2E-01	7.32E-06
VOC	Methylene Chloride	75-09-2	8.5E+01	1.0E+00	3.5E-03	1.3E-02	3.1E-01	3.4E-01	3.1E-01	7.5E-01	9.25E-06
VOC	Styrene	100-42-5	1.0E+02	1.0E+00	3.6E-02	1.4E-01	4.0E-01	4.3E-01	4.0E-01	9.7E-01	9.63E-05
VOC	Tetrachloroethene	127-18-4	1.7E+02	1.0E+00	1.1E-02	5.4E-02	8.9E-01	3.7E-01	3.4E-01	2.1E+00	3.99E-05
VOC	Toluene	108-88-3	9.2E+01	1.0E+00	3.2E-02	1.2E-01	3.5E-01	4.2E-01	3.8E-01	8.3E-01	8.08E-05
VOC	Trichloroethene	79-01-6	1.3E+02	1.0E+00	1.8E-02	7.9E-02	5.7E-01	3.9E-01	3.5E-01	1.4E+00	5.53E-05
VOC	Vinyl Chloride	75-01-4	6.3E+01	1.0E+00	6.9E-03	2.1E-02	2.4E-01	3.5E-01	3.2E-01	5.7E-01	1.69E-05
VOC	Xylenes (total)	1330-20-7	1.1E+02	1.0E+00	5.0E-02	2.0E-01	4.1E-01	4.8E-01	4.4E-01	9.9E-01	1.32E-04
SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	3.9E+02	4.0E-01	6.8E-01	5.1E+00	1.6E+01	5.2E+00	1.9E+01	7.1E+01	4.26E-03
SVOC	Diethylphthalate	84-66-2	2.2E+02	1.0E+00	4.0E-03	2.3E-02	1.8E+00	3.5E-01	3.2E-01	4.4E+00	2.14E-05
SVOC	Di-n-octylphthalate	117-84-0	3.9E+02	3.0E-01	1.0E+00	7.6E+00	1.6E+01	7.6E+00	3.9E+01	7.2E+01	4.72E-03
SVOC	Fluoranthene	206-44-0	2.0E+02	1.0E+00	2.8E-01	1.5E+00	1.4E+00	1.7E+00	2.4E+00	5.7E+00	1.31E-03
SVOC	Naphthalene	91-20-3	1.3E+02	1.0E+00	5.0E-02	2.2E-01	5.5E-01	4.9E-01	4.5E-01	1.3E+00	1.49E-04
SVOC	Phenanthrene	85-01-8	1.8E+02	1.0E+00	1.4E-01	7.2E-01	1.0E+00	9.1E-01	9.7E-01	4.1E+00	5.59E-04
SVOC	Pyrene	129-00-0	2.0E+02	1.0E+00	2.8E-01	1.5E+00	1.4E+00	1.6E+00	2.4E+00	5.7E+00	1.29E-03
P/PCB	PCBs (total)	1336-36-3	3.3E+02	7.0E-01	4.5E-01	3.1E+00	7.2E+00	3.2E+00	7.7E+00	3.1E+01	3.31E-03
PEST	4,4'-DDD	72-54-8	3.2E+02	8.0E-01	2.7E-01	1.9E+00	6.5E+00	2.0E+00	3.3E+00	2.6E+01	2.17E-03
INORG	Antimony	7440-36-0	1.2E+02	0.0E+00	1.0E-03	0.0E+00	5.1E-01	3.3E-01	3.0E-01	1.2E+00	2.00E-06
INORG	Arsenic	7440-38-2	7.5E+01	0.0E+00	1.0E-03	0.0E+00	2.8E-01	3.3E-01	3.0E-01	6.6E-01	2.00E-06
INORG	Barium	7440-39-3	1.4E+02	0.0E+00	1.0E-03	0.0E+00	6.2E-01	3.3E-01	3.0E-01	1.5E+00	2.00E-06
INORG	Beryllium	7440-41-7	9.0E+00	0.0E+00	1.0E-03	0.0E+00	1.2E-01	3.3E-01	3.0E-01	2.8E-01	2.00E-06
INORG	Cadmium	7440-43-9	1.1E+02	0.0E+00	1.0E-03	0.0E+00	4.5E-01	3.3E-01	3.0E-01	1.1E+00	2.00E-06
INORG	Chromium (total)	7440-47-3	5.2E+01	0.0E+00	2.0E-03	0.0E+00	2.1E-01	3.3E-01	3.0E-01	4.9E-01	4.00E-06
INORG	Chromium III	16065-83-1	5.2E+01	0.0E+00	1.0E-03	0.0E+00	2.1E-01	3.3E-01	3.0E-01	4.9E-01	2.00E-06
INORG	Chromium VI	18540-29-9	5.2E+01	0.0E+00	2.0E-03	0.0E+00	2.1E-01	3.3E-01	3.0E-01	4.9E-01	4.00E-06
INORG	Cobalt	7440-48-4	5.9E+01	0.0E+00	4.0E-04	0.0E+00	2.2E-01	3.3E-01	3.0E-01	5.4E-01	8.00E-07
INORG	Copper	7440-50-8	6.4E+01	0.0E+00	1.0E-03	0.0E+00	2.4E-01	3.3E-01	3.0E-01	5.7E-01	2.00E-06
INORG	Cyanide (total)	57-12-5	2.6E+01	0.0E+00	1.0E-03	0.0E+00	1.5E-01	3.3E-01	3.0E-01	3.5E-01	2.00E-06
INORG	Lead	7439-92-1	2.1E+02	0.0E+00	1.0E-04	0.0E+00	1.5E+00	3.3E-01	3.0E-01	3.7E+00	2.00E-07

Attachment B.3: Nonsteady State Dermal Absorption of Chemical from Water
Closed Landfill Site, Elyria, Ohio

Chem Group	Chemical	CASRN	MW (g/mole)	FA (unitless)	K_p (cm/hr)	B (unitless)	τ (hr)	c	b	ts (hr)	DA (L/cm ² -event)
INORG	Manganese	7439-96-5	5.5E+01	0.0E+00	1.0E-03	0.0E+00	2.1E-01	3.3E-01	3.0E-01	5.1E-01	2.00E-06
INORG	Mercury	7439-97-6	2.0E+02	0.0E+00	1.0E-03	0.0E+00	1.4E+00	3.3E-01	3.0E-01	3.4E+00	2.00E-06
INORG	Nickel	7440-02-0	5.9E+01	0.0E+00	2.0E-04	0.0E+00	2.2E-01	3.3E-01	3.0E-01	5.4E-01	4.00E-07
INORG	Selenium	7782-49-2	7.9E+01	0.0E+00	1.0E-03	0.0E+00	2.9E-01	3.3E-01	3.0E-01	7.0E-01	2.00E-06
INORG	Silver	7440-22-4	1.1E+02	0.0E+00	6.0E-04	0.0E+00	4.2E-01	3.3E-01	3.0E-01	1.0E+00	1.20E-06
INORG	Vanadium	7440-62-2	5.1E+01	0.0E+00	1.0E-03	0.0E+00	2.0E-01	3.3E-01	3.0E-01	4.9E-01	2.00E-06
INORG	Zinc	7440-66-6	6.5E+01	0.0E+00	6.0E-04	0.0E+00	2.4E-01	3.3E-01	3.0E-01	5.9E-01	1.20E-06
Note:	Event Time	hours	t	2							

**Attachment B.3: Cancer Risk-Based Criteria for Maintenance Worker Exposure to Groundwater
Closed Landfill Site, Elyria, Ohio**

				Groundwater Incidental Ingestion			Groundwater Dermal Contact				Groundwater Vapor Inhalation			
Chem Group	Chemical	CASRN	Carc Class	LADD (mg/kg/d)	SF _{oral} (mg/kg/d) ⁻¹	RBC (mg/l)	DA (L/cm ² -event)	LADD (mg/kg/d)	SF _{derm} (mg/kg/d) ⁻¹	RBC (mg/l)	C _{air} (mg/m ³)	URF (m ³ /mg)	RBC (mg/l)	Cancer RBC (mg/l)
VOC	Acetone	67-64-1	ID	2.80E-07			1.27E-06	1.17E-07			3.32E-02			
VOC	Benzene	71-43-2	A	2.80E-07	5.5E-02	6.5E+01	3.70E-05	3.41E-06	5.5E-02	5.3E+00	1.21E-01	7.8E-03	5.4E-01	4.9E-01
VOC	2-Butanone	78-93-3	ID	2.80E-07			2.42E-06	2.23E-07			3.98E-02			
VOC	Carbon Disulfide	75-15-0		2.80E-07			3.11E-05	2.87E-06			1.25E-01			
VOC	Chloroform	67-66-3	B2	2.80E-07			1.86E-05	1.71E-06			9.70E-02	2.3E-02	2.3E-01	2.3E-01
VOC	1,1-Dichloroethene	75-35-4	C	2.80E-07			3.10E-05	2.86E-06			1.10E-01			
VOC	1,2-Dichloroethene (total)	540-59-0		2.80E-07			2.07E-05	1.91E-06			1.08E-01			
VOC	cis-1,2-Dichloroethene	156-59-2	D	2.80E-07			2.07E-05	1.91E-06			1.08E-01			
VOC	trans-1,2-Dichloroethene	156-60-5		2.80E-07			2.83E-05	2.62E-06			1.10E-01			
VOC	Ethyl Benzene	100-41-4	D	2.80E-07			1.27E-04	1.17E-05			1.04E-01			
VOC	4-Methyl-2-pentanone	108-10-1	ID	2.80E-07			7.32E-06	6.75E-07			5.88E-02			
VOC	Methylene Chloride	75-09-2	B2	2.80E-07	7.5E-03	4.8E+02	9.25E-06	8.54E-07	7.5E-03	1.6E+02	1.12E-01	4.7E-04	9.7E+00	8.9E+00
VOC	Styrene	100-42-5		2.80E-07			9.63E-05	8.88E-06			1.03E-01			
VOC	Tetrachloroethene	127-18-4	C-B2	2.80E-07	5.2E-02	6.9E+01	3.99E-05	3.68E-06	5.2E-02	5.2E+00	8.43E-02	3.1E-03	2.0E+00	1.4E+00
VOC	Toluene	108-88-3	ID	2.80E-07			8.08E-05	7.45E-06			1.12E-01			
VOC	Trichloroethene	79-01-6	C-B2	2.80E-07	1.1E-02	3.3E+02	5.53E-05	5.10E-06	1.1E-02	1.8E+01	9.43E-02	1.7E-03	3.2E+00	2.7E+00
VOC	Vinyl Chloride	75-01-4	A	2.80E-07	1.4E+00	2.6E+00	1.69E-05	1.56E-06	1.4E+00	4.6E-01	1.38E-01	8.8E-03	4.2E-01	2.0E-01
VOC	Xylenes (total)	1330-20-7	ID	2.80E-07			1.32E-04	1.22E-05			1.04E-01			
SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	2.80E-07	1.4E-02	2.6E+02	4.26E-03	3.93E-04	1.4E-02	1.8E-01	5.99E-05	4.0E-03	2.1E+03	1.8E-01
SVOC	Diethylphthalate	84-66-2	D	2.80E-07			2.14E-05	1.98E-06			3.19E-04			
SVOC	Di-n-octylphthalate	117-84-0		2.80E-07			4.72E-03	4.35E-04			2.30E-02			
SVOC	Fluoranthene	206-44-0	D	2.80E-07			1.31E-03	1.20E-04			1.02E-02			
SVOC	Naphthalene	91-20-3	C	2.80E-07			1.49E-04	1.37E-05			7.82E-02			
SVOC	Phenanthrene	85-01-8	D	2.80E-07			5.59E-04	5.16E-05			1.46E-02			
SVOC	Pyrene	129-00-0	D	2.80E-07			1.29E-03	1.19E-04			7.30E-03			
P/PCB	PCBs (total)	1336-36-3	B2	2.80E-07	2.0E+00	1.8E+00	3.31E-03	3.05E-04	2.0E+00	1.6E-03	5.75E-02	5.7E-01	1.6E-02	1.5E-03
PEST	4,4'-DDD	72-54-8	B2	2.80E-07	2.4E-01	1.5E+01	2.17E-03	2.00E-04	2.4E-01	2.1E-02	2.41E-03	6.9E-02	3.1E+00	2.1E-02
INORG	Antimony	7440-36-0		2.80E-07			2.00E-06	1.85E-07						
INORG	Arsenic	7440-38-2	A	2.80E-07	1.5E+00	2.4E+00	2.00E-06	1.85E-07	1.5E+00	3.6E+00		4.3E+00		1.4E+00
INORG	Barium	7440-39-3	D	2.80E-07			2.00E-06	1.85E-07						
INORG	Beryllium	7440-41-7	B1	2.80E-07			2.00E-06	1.85E-07				2.4E+00		
INORG	Cadmium	7440-43-9	B1	2.80E-07			2.00E-06	1.85E-07				1.8E+00		
INORG	Chromium (total)	7440-47-3		2.80E-07			4.00E-06	3.69E-07				1.2E+01		
INORG	Chromium III	16065-83-1	D	2.80E-07			2.00E-06	1.85E-07						
INORG	Chromium VI	18540-29-9	A	2.80E-07			4.00E-06	3.69E-07				1.2E+01		
INORG	Cobalt	7440-48-4	B1	2.80E-07			8.00E-07	7.38E-08				2.8E+00		
INORG	Copper	7440-50-8	D	2.80E-07			2.00E-06	1.85E-07						
INORG	Cyanide (total)	57-12-5	D	2.80E-07			2.00E-06	1.85E-07						
INORG	Lead	7439-92-1	B2	2.80E-07			2.00E-07	1.85E-08						
INORG	Manganese	7439-96-5	D	2.80E-07			2.00E-06	1.85E-07						
INORG	Mercury	7439-97-6	D	2.80E-07			2.00E-06	1.85E-07			7.59E-02			
INORG	Nickel	7440-02-0	A	2.80E-07			4.00E-07	3.69E-08				2.4E-01		
INORG	Selenium	7782-49-2	D	2.80E-07			2.00E-06	1.85E-07						

**Attachment B.3: Cancer Risk-Based Criteria for Maintenance Worker Exposure to Groundwater
Closed Landfill Site, Elyria, Ohio**

				Groundwater Incidental Ingestion			Groundwater Dermal Contact				Groundwater Vapor Inhalation			
Chem Group	Chemical	CASRN	Carc Class	LADD (mg/kg/d)	SF _{oral} (mg/kg/d) ⁻¹	RBC (mg/l)	DA (L/cm ² -event)	LADD (mg/kg/d)	SF _{derm} (mg/kg/d) ⁻¹	RBC (mg/l)	C _{air} (mg/m ³)	URF (m ³ /mg)	RBC (mg/l)	Cancer RBC (mg/l)
INORG	Silver	7440-22-4	D	2.80E-07			1.20E-06	1.11E-07						
INORG	Vanadium	7440-62-2		2.80E-07			2.00E-06	1.85E-07						
INORG	Zinc	7440-66-6	D	2.80E-07			1.20E-06	1.11E-07						
Notes:														
Target Cancer Risk of 10 ⁻⁶														
C/Q based on the 24-hour maximum exposure for a 15' x 15' excavation area = 10.1 kg/m ³ per (kg/m ² -s). Based on meteorological data from Cleveland, OH (USEPA 2002, Appendix D).														
RBC = Risk Based Criteria														
Abbreviations:														
Chem Group - Chemical Group														
Carc Class - EPA Weight-of-Evidence Cancer Classification														

Attachment B.3: NonCancer Risk-Based Criteria for Maintenance Worker Exposure to Groundwater
Closed Landfill Site, Elyria, Ohio

Chem Group	Chemical	CASRN	Carc Class	Groundwater Incidental Ingestion			Groundwater Dermal Contact				Groundwater Vapor Inhalation				Noncancer RBC (mg/l)
				ADD (mg/kg/d)	RfD _{oral} (mg/kg/d)	RBC (mg/l)	DA (L/cm ² -event)	ADD (mg/kg/d)	RfD _{derm} (mg/kg/d)	RBC (mg/l)	C _{air} (mg/m ³)	ADD (mg/m ³)	RfC (mg/m ³)	RBC (mg/l)	
VOC	Acetone	67-64-1	ID	1.96E-06	9.0E-01	4.6E+05	1.27E-06	8.21E-07	9.0E-01	1.1E+06	3.32E-02	4.55E-04	3.2E+00	6.9E+03	6.8E+03
VOC	Benzene	71-43-2	A	1.96E-06	4.0E-03	2.0E+03	3.70E-05	2.39E-05	4.0E-03	1.7E+02	1.21E-01	1.66E-03	3.0E-02	1.8E+01	1.6E+01
VOC	2-Butanone	78-93-3	ID	1.96E-06	6.0E-01	3.1E+05	2.42E-06	1.56E-06	6.0E-01	3.8E+05	3.98E-02	5.46E-04	5.0E+00	9.2E+03	8.7E+03
VOC	Carbon Disulfide	75-15-0		1.96E-06	1.0E-01	5.1E+04	3.11E-05	2.01E-05	1.0E-01	5.0E+03	1.25E-01	1.71E-03	7.0E-01	4.1E+02	3.8E+02
VOC	Chloroform	67-66-3	B2	1.96E-06	1.0E-02	5.1E+03	1.86E-05	1.20E-05	1.0E-02	8.3E+02	9.70E-02	1.33E-03	5.0E-02	3.8E+01	3.6E+01
VOC	1,1-Dichloroethene	75-35-4	C	1.96E-06	5.0E-02	2.6E+04	3.10E-05	2.00E-05	5.0E-02	2.5E+03	1.10E-01	1.51E-03	2.0E-01	1.3E+02	1.2E+02
VOC	1,2-Dichloroethene (total)	540-59-0		1.96E-06	1.0E-02	5.1E+03	2.07E-05	1.34E-05	1.0E-02	7.5E+02	1.08E-01	1.48E-03	3.5E-02	2.4E+01	2.3E+01
VOC	cis-1,2-Dichloroethene	156-59-2	D	1.96E-06	1.0E-02	5.1E+03	2.07E-05	1.34E-05	1.0E-02	7.5E+02	1.08E-01	1.48E-03	3.5E-02	2.4E+01	2.3E+01
VOC	trans-1,2-Dichloroethene	156-60-5		1.96E-06	2.0E-02	1.0E+04	2.83E-05	1.83E-05	2.0E-02	1.1E+03	1.10E-01	1.50E-03	6.0E-02	4.0E+01	3.8E+01
VOC	Ethyl Benzene	100-41-4	D	1.96E-06	1.0E-01	5.1E+04	1.27E-04	8.19E-05	1.0E-01	1.2E+03	1.04E-01	1.43E-03	1.0E+00	7.0E+02	4.4E+02
VOC	4-Methyl-2-pentanone	108-10-1	ID	1.96E-06			7.32E-06	4.72E-06			5.88E-02	8.06E-04	3.0E+00	3.7E+03	3.7E+03
VOC	Methylene Chloride	75-09-2	B2	1.96E-06	6.0E-02	3.1E+04	9.25E-06	5.98E-06	6.0E-02	1.0E+04	1.12E-01	1.54E-03	3.0E+00	1.9E+03	1.5E+03
VOC	Styrene	100-42-5		1.96E-06	2.0E-01	1.0E+05	9.63E-05	6.22E-05	2.0E-01	3.2E+03	1.03E-01	1.41E-03	1.0E+00	7.1E+02	5.8E+02
VOC	Tetrachloroethene	127-18-4	C-B2	1.96E-06	1.0E-02	5.1E+03	3.99E-05	2.58E-05	1.0E-02	3.9E+02	8.43E-02	1.16E-03	4.0E-01	3.5E+02	1.8E+02
VOC	Toluene	108-88-3	ID	1.96E-06	8.0E-02	4.1E+04	8.08E-05	5.22E-05	8.0E-02	1.5E+03	1.12E-01	1.53E-03	5.0E+00	3.3E+03	1.0E+03
VOC	Trichloroethene	79-01-6	C-B2	1.96E-06	6.0E-03	3.1E+03	5.53E-05	3.57E-05	6.0E-03	1.7E+02	9.43E-02	1.29E-03			1.6E+02
VOC	Vinyl Chloride	75-01-4	A	1.96E-06	3.0E-03	1.5E+03	1.69E-05	1.09E-05	3.0E-03	2.8E+02	1.38E-01	1.88E-03	1.0E-01	5.3E+01	4.3E+01
VOC	Xylenes (total)	1330-20-7	ID	1.96E-06	2.0E-01	1.0E+05	1.32E-04	8.51E-05	2.0E-01	2.4E+03	1.04E-01	1.43E-03	1.0E-01	7.0E+01	6.8E+01
SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	1.96E-06	2.0E-02	1.0E+04	4.26E-03	2.75E-03	2.0E-02	7.3E+00	5.99E-05	8.20E-07	7.0E-02	8.5E+04	7.3E+00
SVOC	Diethylphthalate	84-66-2	D	1.96E-06	8.0E-01	4.1E+05	2.14E-05	1.38E-05	8.0E-01	5.8E+04	3.19E-04	4.37E-06	2.8E+00	6.4E+05	4.7E+04
SVOC	Di-n-octylphthalate	117-84-0		1.96E-06	4.0E-02	2.0E+04	4.72E-03	3.05E-03	4.0E-02	1.3E+01	2.30E-02	3.15E-04			1.3E+01
SVOC	Fluoranthene	206-44-0	D	1.96E-06	4.0E-02	2.0E+04	1.31E-03	8.43E-04	4.0E-02	4.7E+01	1.02E-02	1.40E-04	1.4E-01	1.0E+03	4.5E+01
SVOC	Naphthalene	91-20-3	C	1.96E-06	2.0E-02	1.0E+04	1.49E-04	9.62E-05	2.0E-02	2.1E+02	7.82E-02	1.07E-03	3.0E-03	2.8E+00	2.8E+00
SVOC	Phenanthrene	85-01-8	D	1.96E-06	3.0E-02	1.5E+04	5.59E-04	3.61E-04	3.0E-02	8.3E+01	1.46E-02	2.00E-04	1.1E-01	5.3E+02	7.1E+01
SVOC	Pyrene	129-00-0	D	1.96E-06	3.0E-02	1.5E+04	1.29E-03	8.30E-04	3.0E-02	3.6E+01	7.30E-03	1.00E-04	1.1E-01	1.1E+03	3.5E+01
P/PCB	PCBs (total)	1336-36-3	B2	1.96E-06	2.0E-05	1.0E+01	3.31E-03	2.14E-03	2.0E-05	9.4E-03	5.75E-02	7.88E-04			9.4E-03
PEST	4,4'-DDD	72-54-8	B2	1.96E-06	3.0E-03	1.5E+03	2.17E-03	1.40E-03	3.0E-03	2.1E+00	2.41E-03	3.31E-05	1.1E-02	3.2E+02	2.1E+00
INORG	Antimony	7440-36-0		1.96E-06	4.0E-04	2.0E+02	2.00E-06	1.29E-06	6.0E-05	4.6E+01			1.4E-03		3.8E+01
INORG	Arsenic	7440-38-2	A	1.96E-06	3.0E-04	1.5E+02	2.00E-06	1.29E-06	3.0E-04	2.3E+02					9.2E+01
INORG	Barium	7440-39-3	D	1.96E-06	7.0E-02	3.6E+04	2.00E-06	1.29E-06	4.9E-03	3.8E+03					3.4E+03
INORG	Beryllium	7440-41-7	B1	1.96E-06	2.0E-03	1.0E+03	2.00E-06	1.29E-06	1.4E-05	1.1E+01			2.0E-05		1.1E+01
INORG	Cadmium	7440-43-9	B1	1.96E-06	5.0E-04	2.6E+02	2.00E-06	1.29E-06	2.5E-05	1.9E+01			2.0E-04		1.8E+01
INORG	Chromium (total)	7440-47-3		1.96E-06	3.0E-03	1.5E+03	4.00E-06	2.58E-06	7.5E-05	2.9E+01			1.0E-04		2.8E+01
INORG	Chromium III	16065-83-1	D	1.96E-06	1.5E+00	7.7E+05	2.00E-06	1.29E-06	2.0E-02	1.5E+04			5.3E+00		1.5E+04
INORG	Chromium VI	18540-29-9	A	1.96E-06	3.0E-03	1.5E+03	4.00E-06	2.58E-06	7.5E-05	2.9E+01			1.0E-04		2.8E+01
INORG	Cobalt	7440-48-4	B1	1.96E-06	2.0E-02	1.0E+04	8.00E-07	5.17E-07	2.0E-02	3.9E+04			2.0E-05		8.1E+03
INORG	Copper	7440-50-8	D	1.96E-06	4.0E-02	2.0E+04	2.00E-06	1.29E-06	4.0E-02	3.1E+04			1.4E-01		1.2E+04
INORG	Cyanide (total)	57-12-5	D	1.96E-06	2.0E-02	1.0E+04	2.00E-06	1.29E-06	2.0E-02	1.5E+04			7.0E-02		6.2E+03
INORG	Lead	7439-92-1	B2	1.96E-06			2.00E-07	1.29E-07							
INORG	Manganese	7439-96-5	D	1.96E-06	1.4E-01	7.2E+04	2.00E-06	1.29E-06	8.4E-03	6.5E+03			5.0E-05		6.0E+03
INORG	Mercury	7439-97-6	D	1.96E-06	3.0E-04	1.5E+02	2.00E-06	1.29E-06	3.0E-04	2.3E+02	7.59E-02	1.04E-03	3.0E-04	2.9E-01	2.9E-01
INORG	Nickel	7440-02-0	A	1.96E-06	2.0E-02	1.0E+04	4.00E-07	2.58E-07	8.0E-04	3.1E+03					2.4E+03
INORG	Selenium	7782-49-2	D	1.96E-06	5.0E-03	2.6E+03	2.00E-06	1.29E-06	5.0E-03	3.9E+03			1.8E-02		1.5E+03

**Attachment B.3: NonCancer Risk-Based Criteria for Maintenance Worker Exposure to Groundwater
Closed Landfill Site, Elyria, Ohio**

Chem Group	Chemical	CASRN	Carc Class	Groundwater Incidental Ingestion			Groundwater Dermal Contact				Groundwater Vapor Inhalation				Noncancer RBC (mg/l)
				ADD (mg/kg/d)	RfD _{oral} (mg/kg/d)	RBC (mg/l)	DA (L/cm ² -event)	ADD (mg/kg/d)	RfD _{derm} (mg/kg/d)	RBC (mg/l)	C _{air} (mg/m ³)	ADD (mg/m ³)	RfC (mg/m ³)	RBC (mg/l)	
INORG	Silver	7440-22-4	D	1.96E-06	5.0E-03	2.6E+03	1.20E-06	7.75E-07	2.0E-04	2.6E+02			1.0E-05		2.3E+02
INORG	Vanadium	7440-62-2		1.96E-06	1.0E-03	5.1E+02	2.00E-06	1.29E-06	2.6E-05	2.0E+01			3.5E-03		1.9E+01
INORG	Zinc	7440-66-6	D	1.96E-06	3.0E-01	1.5E+05	1.20E-06	7.75E-07	3.0E-01	3.9E+05			1.1E+00		1.1E+05
Notes:															
Target Hazard Index of 1.															
C/Q based on the 24-hour maximum exposure for a 15' x 15' excavation area = 10.1 kg/m ³ per (kg/m ² -s). Based on meteorological data from Cleveland, OH (USEPA 2002, Appendix D).															
RBC = Risk Based Criteria															
Abbreviations:															
Chem Group - Chemical Group															
Carc Class - EPA Weight-of-Evidence Cancer Classification															

**Attachment B.3: Upper-Bound Incremental Cancer Risks and Noncancer HIs for Maintenance Worker Groundwater Exposure
(Based on Highest GW Concentrations)
Closed Landfill Site, Elyria, Ohio**

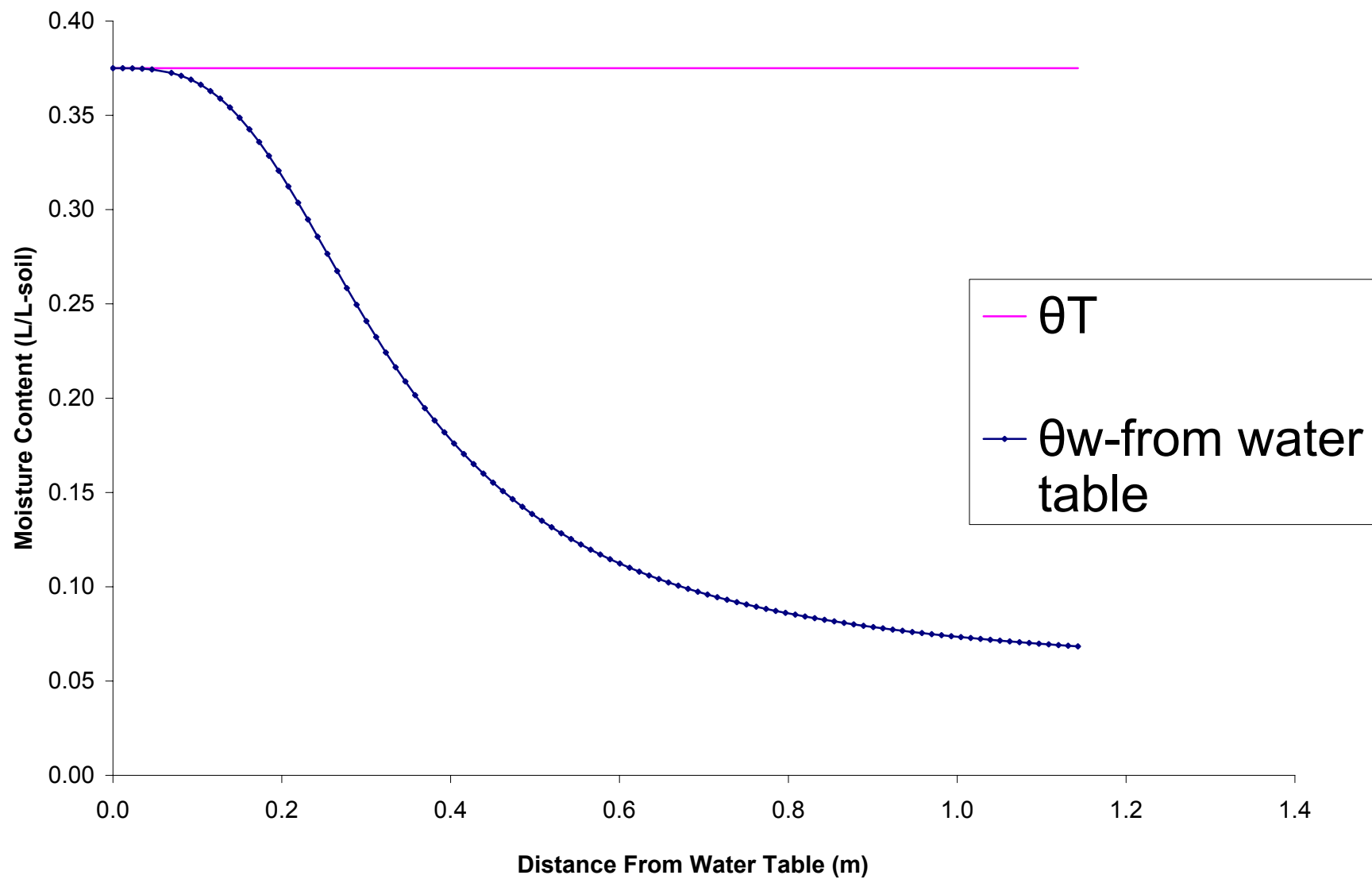
Area	Chem Group	Chemical	CASRN	Max Conc (mg/kg)	Max Limit (mg/kg)	GW Contact and Inhalation Cancer Risk	GW Contact and Inhalation Noncancer Hazard Quotient
Site-wide Groundwater	VOC	Acetone	67-64-1	1.10E-03	2.50E-02		2E-07
Site-wide Groundwater	VOC	Benzene	71-43-2	1.50E-04	5.00E-03	3E-10	9E-06
Site-wide Groundwater	VOC	Carbon Disulfide	75-15-0	1.90E-04	5.00E-03		5E-07
Site-wide Groundwater	VOC	Chloroform	67-66-3	5.70E-05	5.00E-03	2E-10	2E-06
Site-wide Groundwater	VOC	1,1-Dichloroethene	75-35-4	7.00E-03	5.00E-03		6E-05
Site-wide Groundwater	VOC	1,2-Dichloroethene (total)	540-59-0	7.90E-01	5.00E-03		3E-02
Site-wide Groundwater	VOC	cis-1,2-Dichloroethene	156-59-2	5.50E-02	5.00E-04		2E-03
Site-wide Groundwater	VOC	trans-1,2-Dichloroethene	156-60-5	3.70E-01	5.00E-03		1E-02
Site-wide Groundwater	VOC	Ethyl Benzene	100-41-4	9.00E-02	5.00E-03		2E-04
Site-wide Groundwater	VOC	Methylene Chloride	75-09-2	4.20E-02	1.00E-02	5E-09	3E-05
Site-wide Groundwater	VOC	Styrene	100-42-5	1.10E-03	5.00E-03		2E-06
Site-wide Groundwater	VOC	Toluene	108-88-3	4.40E-02	5.00E-03		3E-05
Site-wide Groundwater	VOC	Trichloroethene	79-01-6	7.00E+00	5.00E-01	3E-06	4E-02
Site-wide Groundwater	VOC	Vinyl Chloride	75-01-4	8.20E-01	1.00E-01	4E-06	2E-02
Site-wide Groundwater	VOC	Xylenes (total)	1330-20-7	7.80E-01	5.00E-03		1E-02
Site-wide Groundwater	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	2.00E-03	1.00E-02	1E-08	3E-04
Site-wide Groundwater	SVOC	Di-n-octylphthalate	117-84-0	2.00E-03	1.00E-02		2E-04
Site-wide Groundwater	INORG	Antimony	7440-36-0	3.90E-03	6.00E-02		1E-04
Site-wide Groundwater	INORG	Arsenic	7440-38-2	1.14E-01	5.00E-01	8E-08	1E-03
Site-wide Groundwater	INORG	Barium	7440-39-3	1.90E+00	1.00E+00		6E-04
Site-wide Groundwater	INORG	Cadmium	7440-43-9	6.60E-03	2.00E-02		4E-04
Site-wide Groundwater	INORG	Chromium (total)	7440-47-3	1.73E-01	5.00E-02		6E-03
Site-wide Groundwater	INORG	Chromium III	16065-83-1	3.65E-01	5.00E-02		2E-05
Site-wide Groundwater	INORG	Chromium VI	18540-29-9	9.50E-02	5.00E-02		3E-03
Site-wide Groundwater	INORG	Cobalt	7440-48-4	6.60E-03	5.00E-02		8E-07
Site-wide Groundwater	INORG	Copper	7440-50-8	1.14E+00	2.50E-02		9E-05
Site-wide Groundwater	INORG	Cyanide (total)	57-12-5	1.30E-01	5.00E-02		2E-05
Site-wide Groundwater	INORG	Manganese	7439-96-5	1.10E+01	3.00E-02		2E-03
Site-wide Groundwater	INORG	Mercury	7439-97-6	3.00E-04	1.00E-03		1E-03
Site-wide Groundwater	INORG	Nickel	7440-02-0	6.80E-01	5.00E-02		3E-04
Site-wide Groundwater	INORG	Selenium	7782-49-2	7.10E-02	4.00E-02		5E-05
Site-wide Groundwater	INORG	Silver	7440-22-4	2.00E-03	3.00E-02		9E-06
Site-wide Groundwater	INORG	Zinc	7440-66-6	1.32E+00	2.00E-02		1E-05

Attachment B.3: Reasonable Maximum Incremental Cancer Risks and Noncancer HIs for Soil Exposure (Based on UCL or Highest Soil Concentrations)
Closed Landfill Site, Elyria, Ohio

Area	Chem Group	Chemical	CASRN	Max Conc (mg/kg)	Max Limit (mg/kg)	Maintenance Worker Soil Direct Contact and Inhalation Cancer Risk	Maintenance Worker Soil Direct Contact and Inhalation Noncancer Hazard Quotient	Trespasser Soil Direct Contact and Inhalation Cancer Risk	Trespasser Soil Direct Contact and Inhalation Noncancer Hazard Quotient
Site-wide Soil	VOC	Acetone	67-64-1	1.90E+00			1E-04		1E-04
Site-wide Soil	VOC	2-Butanone	78-93-3	9.30E+00	1.00E-01		4E-04		4E-04
Site-wide Soil	VOC	1,1-Dichloroethene	75-35-4	1.40E-02	5.00E-01		1E-04		1E-04
Site-wide Soil	VOC	1,2-Dichloroethene (total)	540-59-0	4.50E+00			1E-01		1E-01
Site-wide Soil	VOC	Ethyl Benzene	100-41-4	3.40E+00	5.00E-02		2E-03		2E-03
Site-wide Soil	VOC	4-Methyl-2-pentanone	108-10-1	2.00E-03	1.00E+00		2E-07		2E-07
Site-wide Soil	VOC	Methylene Chloride	75-09-2	3.50E-02	5.00E-01	7E-09	1E-05	7E-09	1E-05
Site-wide Soil	VOC	Tetrachloroethene	127-18-4	2.50E-02	5.00E-01	3E-08	7E-05	3E-08	7E-05
Site-wide Soil	VOC	Toluene	108-88-3	7.80E-01	5.00E-01		1E-03		1E-03
Site-wide Soil	VOC	Trichloroethene	79-01-6	2.58E+01	2.50E+00	1E-05	7E-05	1E-05	7E-05
Site-wide Soil	VOC	Vinyl Chloride	75-01-4	8.20E-02	1.00E+00	6E-07	2E-03	6E-07	2E-03
Site-wide Soil	VOC	Xylenes (total)	1330-20-7	2.60E+01			1E-01		1E-01
Site-wide Soil	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	5.10E+00	1.60E+00	3E-08	3E-04	3E-08	3E-04
Site-wide Soil	SVOC	Diethylphthalate	84-66-2	1.10E-01	1.60E+00		3E-07		3E-07
Site-wide Soil	SVOC	Fluoranthene	206-44-0	1.90E-01	1.60E+00		8E-06		8E-06
Site-wide Soil	SVOC	Naphthalene	91-20-3	3.90E-01	1.60E+00		7E-03		7E-03
Site-wide Soil	SVOC	Phenanthrene	85-01-8	2.20E-01	1.60E+00		2E-05		2E-05
Site-wide Soil	SVOC	Pyrene	129-00-0	1.30E-01	1.60E+00		7E-06		7E-06
Site-wide Soil	PEST	4,4'-DDD	72-54-8	1.10E-01		7E-09	3E-05	7E-09	3E-05
Site-wide Soil	PCB	PCBs (total)	1336-36-3	7.70E-01		1E-06	5E-02	1E-06	5E-02
Site-wide Soil	INORG	Antimony	7440-36-0	3.85E+02			5E-01		5E-01
Site-wide Soil	INORG	Arsenic	7440-38-2	2.57E+01		9E-06	6E-02	9E-06	6E-02
Site-wide Soil	INORG	Barium	7440-39-3	2.17E+02			2E-03		2E-03
Site-wide Soil	INORG	Beryllium	7440-41-7	1.30E+00		6E-10	4E-04	6E-10	4E-04
Site-wide Soil	INORG	Cadmium	7440-43-9	2.09E+01		7E-09	2E-02	7E-09	2E-02
Site-wide Soil	INORG	Chromium (total)	7440-47-3	6.33E+03		2E-05	1E+00	2E-05	1E+00
Site-wide Soil	INORG	Cobalt	7440-48-4	3.65E+01		2E-08	2E-03	2E-08	2E-03
Site-wide Soil	INORG	Copper	7440-50-8	6.14E+03			8E-02		8E-02
Site-wide Soil	INORG	Cyanide (total)	57-12-5	1.43E+02			3E-03		3E-03
Site-wide Soil	INORG	Manganese	7439-96-5	2.81E+03			4E-02		4E-02
Site-wide Soil	INORG	Mercury	7439-97-6	4.50E-01			2E-02		2E-02
Site-wide Soil	INORG	Nickel	7440-02-0	4.18E+03		1E-06	1E-01	1E-06	1E-01
Site-wide Soil	INORG	Selenium	7782-49-2	3.20E+00			3E-04		3E-04
Site-wide Soil	INORG	Silver	7440-22-4	7.10E+00			1E-03		1E-03
Site-wide Soil	INORG	Vanadium	7440-62-2	3.88E+01			2E-02		2E-02
Site-wide Soil	INORG	Zinc	7440-66-6	6.69E+03			1E-02		1E-02
Notes:									
Soil concentrations used in risk and HQ estimates based on maximum Site-wide concentration expect for chromium (total), copper, nickel and trichloroethene where Site-wide 95% UCL concentration was determined.									
Routine worker exposure factors conservatively used to evaluate maintenance worker and trespasser exposures.									

ATTACHMENT B.4
RISK-BASED CRITERIA DEVELOPMENT AND RISK
CALCULATIONS FOR RESIDENTS

Attachment B.4: Soil Moisture Profile



Attachment B.4: Vapor Intrusion into Default Residential Building Slab On Grade from Groundwater Closed Landfill Site, Elyria, Ohio									
Chem Group	Chemical	CASRN	D _{air} (m ² /d)	D _{water} (m ² /d)	H (unitless)	D _{crack} (m ² /d)	D _{eff} ^T (m ² /d)	α _{so}	C _{bidg} (L-water/m ³)
VOC	Acetone	67-64-1	1.07E+00	9.85E-05	7.95E-04	1.40E-01	4.16E-02	2.04E-04	1.62E-04
VOC	Benzene	71-43-2	7.60E-01	8.47E-05	1.14E-01	9.96E-02	9.47E-04	1.54E-05	1.76E-03
VOC	2-Butanone	78-93-3	6.98E-01	8.47E-05	1.14E-03	9.15E-02	2.59E-02	1.74E-04	1.99E-04
VOC	Carbon Disulfide	75-15-0	8.99E-01	8.64E-05	6.20E-01	1.18E-01	2.30E-04	3.91E-06	2.42E-03
VOC	Chloroform	67-66-3	8.99E-01	8.64E-05	7.50E-02	1.18E-01	1.41E-03	2.23E-05	1.67E-03
VOC	1,1-Dichloroethene	75-35-4	7.78E-01	8.99E-05	5.35E-01	1.02E-01	2.66E-04	4.50E-06	2.41E-03
VOC	1,2-Dichloroethene (total)	540-59-0	6.36E-01	9.76E-05	8.35E-02	8.33E-02	1.34E-03	2.13E-05	1.78E-03
VOC	cis-1,2-Dichloroethene	156-59-2	6.36E-01	9.76E-05	8.35E-02	8.33E-02	1.34E-03	2.13E-05	1.78E-03
VOC	trans-1,2-Dichloroethene	156-60-5	6.11E-01	1.03E-04	1.93E-01	8.00E-02	6.93E-04	1.14E-05	2.20E-03
VOC	Ethyl Benzene	100-41-4	6.48E-01	6.74E-05	1.62E-01	8.49E-02	5.67E-04	9.43E-06	1.52E-03
VOC	4-Methyl-2-pentanone	108-10-1	6.48E-01	6.74E-05	2.82E-03	8.49E-02	1.29E-02	1.25E-04	3.52E-04
VOC	Methylene Chloride	75-09-2	8.73E-01	1.01E-04	4.49E-02	1.14E-01	2.43E-03	3.64E-05	1.64E-03
VOC	Styrene	100-42-5	6.13E-01	6.91E-05	5.65E-02	8.03E-02	1.38E-03	2.20E-05	1.24E-03
VOC	Tetrachloroethene	127-18-4	6.22E-01	7.08E-05	3.77E-01	8.15E-02	2.84E-04	4.81E-06	1.81E-03
VOC	Toluene	108-88-3	7.52E-01	7.43E-05	1.36E-01	9.85E-02	7.29E-04	1.20E-05	1.63E-03
VOC	Trichloroethene	79-01-6	6.83E-01	7.86E-05	2.11E-01	8.94E-02	5.19E-04	8.65E-06	1.83E-03
VOC	Vinyl Chloride	75-01-4	9.16E-01	1.06E-04	5.55E-01	1.20E-01	3.04E-04	5.14E-06	2.85E-03
VOC	Xylenes (total)	1330-20-7	6.74E-01	7.56E-05	1.38E-01	8.82E-02	7.18E-04	1.18E-05	1.63E-03
SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	3.03E-01	3.16E-05	2.09E-06	5.75E-02	1.31E-01	2.53E-04	5.30E-07
SVOC	Diethylphthalate	84-66-2	2.21E-01	5.49E-05	9.25E-06	3.59E-02	6.96E-02	2.31E-04	2.13E-06
SVOC	Di-n-octylphthalate	117-84-0	1.30E-01	3.09E-05	1.37E-03	1.71E-02	6.21E-03	7.77E-05	1.06E-04
SVOC	Fluoranthene	206-44-0	2.61E-01	5.49E-05	3.30E-04	3.44E-02	2.17E-02	1.62E-04	5.34E-05
SVOC	Naphthalene	91-20-3	5.10E-01	6.48E-05	9.90E-03	6.68E-02	4.91E-03	6.51E-05	6.45E-04
SVOC	Phenanthrene	85-01-8	3.24E-01	6.45E-05	4.76E-04	4.26E-02	2.29E-02	1.65E-04	7.88E-05
SVOC	Pyrene	129-00-0	2.35E-01	6.26E-05	2.26E-04	3.11E-02	2.44E-02	1.70E-04	3.83E-05
P/PCB	PCBs (total)	1336-36-3	1.73E-01	4.32E-05	4.09E-02	2.26E-02	9.53E-04	1.55E-05	6.34E-04
PEST	4,4'-DDD	72-54-8	1.46E-01	4.11E-05	8.20E-05	1.97E-02	2.15E-02	1.61E-04	1.32E-05
INORG	Antimony	7440-36-0							
INORG	Arsenic	7440-38-2							
INORG	Barium	7440-39-3							
INORG	Beryllium	7440-41-7							
INORG	Cadmium	7440-43-9							
INORG	Chromium (total)	7440-47-3							
INORG	Chromium III	16065-83-1							
INORG	Chromium VI	18540-29-9							
INORG	Cobalt	7440-48-4							
INORG	Copper	7440-50-8							
INORG	Cyanide (total)	57-12-5							
INORG	Lead	7439-92-1							
INORG	Manganese	7439-96-5							
INORG	Mercury	7439-97-6	2.65E-01	5.44E-05	1.45E-01	3.47E-02	4.50E-04	7.54E-06	1.09E-03
INORG	Nickel	7440-02-0							
INORG	Selenium	7782-49-2							
INORG	Silver	7440-22-4							
INORG	Vanadium	7440-62-2							
INORG	Zinc	7440-66-6							
Notes: Crack Soil and Building Characteristics									
	SCS Soil texture class		Sand						
	Bulk density	kg/L	ρ _b	1.65					
	Total porosity	L/L-soil	θ	0.375					
	Water-filled porosity	L/L-soil	θ _w	0.073					
	Air-filled porosity	L/L-soil	θ _a	0.302					
	Residual saturation	L/L-soil	θ _r	0.053					
	Hydraulic conductivity	cm/s	K	7.4E-03					
	Dynamic viscosity of water	g/cm-s	μ	0.01307					
	Density of water	g/cm ³	ρ _w	1.0					
	Gravitational acceleration	cm/s ²	g	980.7					
	Intrinsic permeability	cm ²	k	9.9E-08					
	Effective total saturation	unitless	S _{te}	0.063					
	van Genuchten N	unitless	N	3.177					
	van Genuchten M	unitless	M	0.685					
	Relative air permeability	unitless	k _{rg}	0.945					
	Permeability to vapor	cm ²	k _v	9.4E-08					
	Distance from building foundation to source	m	L _T	0.99					
	Bldg foundation thickness	m	L _{crack}	0.15					
	Bldg foundation length	m		10.56					
	Bldg foundation width	m		10.56					
	Bldg occupied height	m		2.44					
	Bldg occupied volume	m ³		272.09					
	Occupied depth below ground	m							
	Bldg area for vapor intrusion	m ²	A _B	111.5					
	Ratio of A _{crack} to A _B			2E-04					
	Area of cracks	m ²	A _{crack}	2.11E-02					
	Air exchange rate	hour ⁻¹	ac/h	1.0					
	Building ventilation rate	m ³ /d	Q _{bidg}	6.53E+03					
	Pressure difference between outdoors-indoors	kg/m-s ²	ΔP	1.0					
	Air viscosity	kg/m-s	μ	1.8E-05					
	Crack length (bldg perimeter)	m	X _{crack}	42.24					
	Crack depth below ground	m	Z _{crack}	0.15					
	Crack radius	m	r _{crack}	5E-04					
	Soil gas flow rate into bldg	m ³ /d	Q _{soil}	1.87E+00					

Attachment B.4: Cancer Risk-Based Criteria for Resident Exposure to Groundwater Vapor Intrusion
Closed Landfill Site, Elyria, Ohio

Chem Group	Chemical	CASRN	Carc Class	Vapor Inhalation		
				C _{air} (mg/m ³)	URF (m ³ /mg)	RBC (mg/l)
VOC	Acetone	67-64-1	ID	1.62E-04		
VOC	Benzene	71-43-2	A	1.76E-03	7.8E-03	1.8E-01
VOC	2-Butanone	78-93-3	ID	1.99E-04		
VOC	Carbon Disulfide	75-15-0		2.42E-03		
VOC	Chloroform	67-66-3	B2	1.67E-03	2.3E-02	6.3E-02
VOC	1,1-Dichloroethene	75-35-4	C	2.41E-03		
VOC	1,2-Dichloroethene (total)	540-59-0		1.78E-03		
VOC	cis-1,2-Dichloroethene	156-59-2	D	1.78E-03		
VOC	trans-1,2-Dichloroethene	156-60-5		2.20E-03		
VOC	Ethyl Benzene	100-41-4	D	1.52E-03		
VOC	4-Methyl-2-pentanone	108-10-1	ID	3.52E-04		
VOC	Methylene Chloride	75-09-2	B2	1.64E-03	4.7E-04	3.2E+00
VOC	Styrene	100-42-5		1.24E-03		
VOC	Tetrachloroethene	127-18-4	C-B2	1.81E-03	3.1E-03	4.4E-01
VOC	Toluene	108-88-3	ID	1.63E-03		
VOC	Trichloroethene	79-01-6	C-B2	1.83E-03	1.7E-03	7.8E-01
VOC	Vinyl Chloride	75-01-4	A	2.85E-03	8.8E-03	9.7E-02
VOC	Xylenes (total)	1330-20-7	ID	1.63E-03		
SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	5.30E-07	4.0E-03	1.1E+03
SVOC	Diethylphthalate	84-66-2	D	2.13E-06		
SVOC	Di-n-octylphthalate	117-84-0		1.06E-04		
SVOC	Fluoranthene	206-44-0	D	5.34E-05		
SVOC	Naphthalene	91-20-3	C	6.45E-04		
SVOC	Phenanthrene	85-01-8	D	7.88E-05		
SVOC	Pyrene	129-00-0	D	3.83E-05		
P/PCB	PCBs (total)	1336-36-3	B2	6.34E-04	5.7E-01	6.7E-03
PEST	4,4'-DDD	72-54-8	B2	1.32E-05	6.9E-02	2.7E+00
INORG	Antimony	7440-36-0				
INORG	Arsenic	7440-38-2	A		4.3E+00	
INORG	Barium	7440-39-3	D			
INORG	Beryllium	7440-41-7	B1		2.4E+00	
INORG	Cadmium	7440-43-9	B1		1.8E+00	
INORG	Chromium (total)	7440-47-3			1.2E+01	
INORG	Chromium III	16065-83-1	D			
INORG	Chromium VI	18540-29-9	A		1.2E+01	
INORG	Cobalt	7440-48-4	B1		2.8E+00	
INORG	Copper	7440-50-8	D			
INORG	Cyanide (total)	57-12-5	D			
INORG	Lead	7439-92-1	B2			
INORG	Manganese	7439-96-5	D			
INORG	Mercury	7439-97-6	D	1.09E-03		
INORG	Nickel	7440-02-0	A		2.4E-01	
INORG	Selenium	7782-49-2	D			
INORG	Silver	7440-22-4	D			
INORG	Vanadium	7440-62-2				
INORG	Zinc	7440-66-6	D			
Notes:						
Target Cancer Risk of 10 ⁻⁶						
RBC = Risk Based Criteria						
Abbreviations:						
Chem Group - Chemical Group						
Carc Class - EPA Weight-of-Evidence Cancer Classification						

**Attachment B.4: NonCancer Risk-Based Criteria for Resident Exposure to Groundwater
Vapor Intrusion
Closed Landfill Site, Elyria, Ohio**

Chem Group	Chemical	CASRN	Carc Class	Vapor Inhalation		
				C _{air} (mg/m ³)	RfC (mg/m ³)	RBC (mg/l)
VOC	Acetone	67-64-1	ID	1.62E-04	3.2E+00	2.0E+04
VOC	Benzene	71-43-2	A	1.76E-03	3.0E-02	1.8E+01
VOC	2-Butanone	78-93-3	ID	1.99E-04	5.0E+00	2.6E+04
VOC	Carbon Disulfide	75-15-0		2.42E-03	7.0E-01	3.0E+02
VOC	Chloroform	67-66-3	B2	1.67E-03	5.0E-02	3.1E+01
VOC	1,1-Dichloroethene	75-35-4	C	2.41E-03	2.0E-01	8.7E+01
VOC	1,2-Dichloroethene (total)	540-59-0		1.78E-03	3.5E-02	2.0E+01
VOC	cis-1,2-Dichloroethene	156-59-2	D	1.78E-03	3.5E-02	2.0E+01
VOC	trans-1,2-Dichloroethene	156-60-5		2.20E-03	6.0E-02	2.8E+01
VOC	Ethyl Benzene	100-41-4	D	1.52E-03	1.0E+00	6.8E+02
VOC	4-Methyl-2-pentanone	108-10-1	ID	3.52E-04	3.0E+00	8.9E+03
VOC	Methylene Chloride	75-09-2	B2	1.64E-03	3.0E+00	1.9E+03
VOC	Styrene	100-42-5		1.24E-03	1.0E+00	8.4E+02
VOC	Tetrachloroethene	127-18-4	C-B2	1.81E-03	4.0E-01	2.3E+02
VOC	Toluene	108-88-3	ID	1.63E-03	5.0E+00	3.2E+03
VOC	Trichloroethene	79-01-6	C-B2	1.83E-03		
VOC	Vinyl Chloride	75-01-4	A	2.85E-03	1.0E-01	3.7E+01
VOC	Xylenes (total)	1330-20-7	ID	1.63E-03	1.0E-01	6.4E+01
SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	5.30E-07	7.0E-02	1.4E+05
SVOC	Diethylphthalate	84-66-2	D	2.13E-06	2.8E+00	1.4E+06
SVOC	Di-n-octylphthalate	117-84-0		1.06E-04		
SVOC	Fluoranthene	206-44-0	D	5.34E-05	1.4E-01	2.7E+03
SVOC	Naphthalene	91-20-3	C	6.45E-04	3.0E-03	4.9E+00
SVOC	Phenanthrene	85-01-8	D	7.88E-05	1.1E-01	1.4E+03
SVOC	Pyrene	129-00-0	D	3.83E-05	1.1E-01	2.9E+03
P/PCB	PCBs (total)	1336-36-3	B2	6.34E-04		
PEST	4,4'-DDD	72-54-8	B2	1.32E-05	1.1E-02	8.3E+02
INORG	Antimony	7440-36-0			1.4E-03	
INORG	Arsenic	7440-38-2	A			
INORG	Barium	7440-39-3	D			
INORG	Beryllium	7440-41-7	B1		2.0E-05	
INORG	Cadmium	7440-43-9	B1		2.0E-04	
INORG	Chromium (total)	7440-47-3			1.0E-04	
INORG	Chromium III	16065-83-1	D		5.3E+00	
INORG	Chromium VI	18540-29-9	A		1.0E-04	
INORG	Cobalt	7440-48-4	B1		2.0E-05	
INORG	Copper	7440-50-8	D		1.4E-01	
INORG	Cyanide (total)	57-12-5	D		7.0E-02	
INORG	Lead	7439-92-1	B2			
INORG	Manganese	7439-96-5	D		5.0E-05	
INORG	Mercury	7439-97-6	D	1.09E-03	3.0E-04	2.9E-01
INORG	Nickel	7440-02-0	A			
INORG	Selenium	7782-49-2	D		1.8E-02	
INORG	Silver	7440-22-4	D		1.0E-05	
INORG	Vanadium	7440-62-2			3.5E-03	
INORG	Zinc	7440-66-6	D		1.1E+00	
Notes:						
Target Hazard Index of 1.						
RBC = Risk Based Criteria						
Abbreviations:						
Chem Group - Chemical Group						
Carc Class - EPA Weight-of-Evidence Cancer Classification						

**Attachment B.4: Upper-Bound Incremental Cancer Risks and Noncancer HIs for Residential Groundwater Exposure
(Based on Highest GW Concentrations)
Closed Landfill Site, Elyria, Ohio**

Area	Chem Group	Chemical	CASRN	Max Conc (mg/kg)	Max Limit (mg/kg)	GW Volatilization into Indoor Air Cancer Risk	GW Volatilization into Indoor Air Noncancer Hazard Quotient
Site-wide Groundwater	VOC	Acetone	67-64-1	1.10E-03	2.50E-02		5E-08
Site-wide Groundwater	VOC	Benzene	71-43-2	1.50E-04	5.00E-03	8E-10	8E-06
Site-wide Groundwater	VOC	Carbon Disulfide	75-15-0	1.90E-04	5.00E-03		6E-07
Site-wide Groundwater	VOC	Chloroform	67-66-3	5.70E-05	5.00E-03	9E-10	2E-06
Site-wide Groundwater	VOC	1,1-Dichloroethene	75-35-4	7.00E-03	5.00E-03		8E-05
Site-wide Groundwater	VOC	1,2-Dichloroethene (total)	540-59-0	7.90E-01	5.00E-03		4E-02
Site-wide Groundwater	VOC	cis-1,2-Dichloroethene	156-59-2	5.50E-02	5.00E-04		3E-03
Site-wide Groundwater	VOC	trans-1,2-Dichloroethene	156-60-5	3.70E-01	5.00E-03		1E-02
Site-wide Groundwater	VOC	Ethyl Benzene	100-41-4	9.00E-02	5.00E-03		1E-04
Site-wide Groundwater	VOC	Methylene Chloride	75-09-2	4.20E-02	1.00E-02	1E-08	2E-05
Site-wide Groundwater	VOC	Styrene	100-42-5	1.10E-03	5.00E-03		1E-06
Site-wide Groundwater	VOC	Toluene	108-88-3	4.40E-02	5.00E-03		1E-05
Site-wide Groundwater	VOC	Trichloroethene	79-01-6	7.00E+00	5.00E-01	9E-06	
Site-wide Groundwater	VOC	Vinyl Chloride	75-01-4	8.20E-01	1.00E-01	8E-06	2E-02
Site-wide Groundwater	VOC	Xylenes (total)	1330-20-7	7.80E-01	5.00E-03		1E-02
Site-wide Groundwater	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	2.00E-03	1.00E-02	2E-12	1E-08
Site-wide Groundwater	INORG	Mercury	7439-97-6	3.00E-04	1.00E-03		1E-03
Note:							
Cancer risk and hazard quotient estimates for residents were conservatively used to evaluate on-and off-site routine worker exposure from groundwater vapor intrusion.							

**Attachment B.4: Incremental Cancer Risks and Noncancer HQs for Off-site Residential Soil Inhalation Exposure
(Based on Highest Soil Concentrations)
Closed Landfill Site, Elyria, Ohio**

Chem Group	Chemical	CASRN	Max Conc (mg/kg)	Cancer RBC (mg/kg)	Cancer Risk	Noncancer RBC (mg/kg)	Noncancer Hazard Quotient
VOC	1,1-Dichloroethene	75-35-4	1.40E-02			1.2E+02	1E-04
VOC	1,2-Dichloroethene (total)	540-59-0	4.50E+00			3.6E+01	1E-01
VOC	Ethyl Benzene	100-41-4	3.40E+00			1.8E+03	2E-03
VOC	4-Methyl-2-pentanone	108-10-1	2.00E-03			1.1E+04	2E-07
VOC	Methylene Chloride	75-09-2	3.50E-02	5.3E+00	7E-09	2.7E+03	1E-05
VOC	Tetrachloroethene	127-18-4	2.50E-02	8.6E-01	3E-08	3.7E+02	7E-05
VOC	Toluene	108-88-3	7.80E-01			6.8E+03	1E-04
VOC	Trichloroethene	79-01-6	7.30E+01	1.9E+00	4E-05		
VOC	Vinyl Chloride	75-01-4	8.20E-02	1.5E-01	5E-07	4.9E+01	2E-03
VOC	Xylenes (total)	1330-20-7	2.60E+01			2.0E+02	1E-01
SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	5.10E+00	8.9E+04	6E-11	8.9E+06	6E-07
SVOC	Diethylphthalate	84-66-2	1.10E-01			9.7E+05	1E-07
SVOC	Fluoranthene	206-44-0	1.90E-01			1.4E+05	1E-06
SVOC	Naphthalene	91-20-3	3.90E-01			5.5E+01	7E-03
SVOC	Phenanthrene	85-01-8	2.20E-01			3.8E+04	6E-06
SVOC	Pyrene	129-00-0	1.30E-01			1.4E+05	1E-06
PEST	4,4'-DDD	72-54-8	1.10E-01	3.4E+02	3E-10	8.7E+04	1E-06
PCB	PCBs (total)	1336-36-3	7.70E-01	2.6E+00	3E-07		
INORG	Antimony	7440-36-0	3.85E+02			2.5E+06	2E-04
INORG	Arsenic	7440-38-2	2.57E+01	1.2E+03	2E-08		
INORG	Barium	7440-39-3	2.17E+02				
INORG	Beryllium	7440-41-7	1.30E+00	2.1E+03	6E-10	3.6E+04	4E-05
INORG	Cadmium	7440-43-9	2.09E+01	2.8E+03	7E-09	3.6E+05	6E-05
INORG	Chromium (total)	7440-47-3	3.45E+04	4.2E+02	8E-05	1.8E+05	2E-01
INORG	Cobalt	7440-48-4	3.65E+01	1.8E+03	2E-08	3.6E+04	1E-03
INORG	Copper	7440-50-8	2.91E+04			2.5E+08	1E-04
INORG	Cyanide (total)	57-12-5	1.43E+02			1.3E+08	1E-06
INORG	Lead	7439-92-1	1.74E+02				
INORG	Manganese	7439-96-5	2.81E+03			9.0E+04	3E-02
INORG	Mercury	7439-97-6	4.50E-01			3.1E+01	1E-02
INORG	Nickel	7440-02-0	2.43E+04	2.1E+04	1E-06		
INORG	Selenium	7782-49-2	3.20E+00			3.1E+07	1E-07
INORG	Silver	7440-22-4	7.10E+00			1.8E+04	4E-04
INORG	Vanadium	7440-62-2	3.88E+01			6.3E+06	6E-06
INORG	Zinc	7440-66-6	6.69E+03			1.9E+09	4E-06
				Sum	1E-04		5E-01
Note: Routine worker exposure factors conservatively used to evaluate off-site residents, maintenance workers and trespassers inhalation exposures to windblown dust and vapors.							

**Attachment B.4: Cancer Risk-Based Criteria for Drinking Water Exposure
Closed Landfill Site, Elyria, Ohio**

Chem Group	Chemical	CASRN	Carc Class	Ingestion		
				LADD (mg/kg/d)	SF _{oral} (mg/kg/d) ⁻¹	RBC (mg/l)
VOC	Acetone	67-64-1	ID	1.17E-02		
VOC	2-Butanone	78-93-3	ID	1.17E-02		
VOC	Carbon Disulfide	75-15-0		1.17E-02		
VOC	4-Methyl-2-pentanone	108-10-1	ID	1.17E-02		
SVOC	Diethylphthalate	84-66-2	D	1.17E-02		
SVOC	Di-n-octylphthalate	117-84-0		1.17E-02		
SVOC	Fluoranthene	206-44-0	D	1.17E-02		
SVOC	Naphthalene	91-20-3	C	1.17E-02		
SVOC	Phenanthrene	85-01-8	D	1.17E-02		
SVOC	Pyrene	129-00-0	D	1.17E-02		
PEST	4,4'-DDD	72-54-8	B2	1.17E-02	2.4E-01	3.5E-04
INORG	Cobalt	7440-48-4	B1	1.17E-02		
INORG	Manganese	7439-96-5	D	1.17E-02		
INORG	Nickel	7440-02-0	A	1.17E-02		
INORG	Silver	7440-22-4	D	1.17E-02		
INORG	Vanadium	7440-62-2		1.17E-02		
INORG	Zinc	7440-66-6	D	1.17E-02		
Notes:						
Target Cancer Risk of 10 ⁻⁶						
RBC = Risk Based Criteria						
Only chemicals without State or Federal MCLs are shown.						
Abbreviations:						
Chem Group - Chemical Group						
Carc Class - EPA Weight-of-Evidence Cancer Classification						

Attachment B.4: NonCancer Risk-Based Criteria for Drinking Water Exposure Closed Landfill Site, Elyria, Ohio						
Chem Group	Chemical	CASRN	Carc Class	Ingestion		
				ADD (mg/kg/d)	RfD _{oral} (mg/kg/d)	RBC (mg/l)
VOC	Acetone	67-64-1	ID	2.74E-02	9.0E-01	3E+01
VOC	2-Butanone	78-93-3	ID	2.74E-02	6.0E-01	2E+01
VOC	Carbon Disulfide	75-15-0		2.74E-02	1.0E-01	4E+00
VOC	4-Methyl-2-pentanone	108-10-1	ID	2.74E-02		
SVOC	Diethylphthalate	84-66-2	D	2.74E-02	8.0E-01	3E+01
SVOC	Di-n-octylphthalate	117-84-0		2.74E-02	4.0E-02	1E+00
SVOC	Fluoranthene	206-44-0	D	2.74E-02	4.0E-02	1E+00
SVOC	Naphthalene	91-20-3	C	2.74E-02	2.0E-02	7E-01
SVOC	Phenanthrene	85-01-8	D	2.74E-02	3.0E-02	1E+00
SVOC	Pyrene	129-00-0	D	2.74E-02	3.0E-02	1E+00
PEST	4,4'-DDD	72-54-8	B2	2.74E-02	3.0E-03	1E-01
INORG	Chromium III	16065-83-1	D	2.74E-02	1.5E+00	5E+01
INORG	Cobalt	7440-48-4	B1	2.74E-02	2.0E-02	7E-01
INORG	Lead	7439-92-1	B2	2.74E-02		
INORG	Manganese	7439-96-5	D	2.74E-02	1.4E-01	5E+00
INORG	Nickel	7440-02-0	A	2.74E-02	2.0E-02	7E-01
INORG	Silver	7440-22-4	D	2.74E-02	5.0E-03	2E-01
INORG	Vanadium	7440-62-2		2.74E-02	1.0E-03	4E-02
INORG	Zinc	7440-66-6	D	2.74E-02	3.0E-01	1E+01
Notes:						
Target Hazard Index of 1.						
RBC = Risk Based Criteria						
Only chemicals without State or Federal MCLs are shown.						
Abbreviations:						
Chem Group - Chemical Group						
Carc Class - EPA Weight-of-Evidence Cancer Classification						

ATTACHMENT B.5
CUMULATIVE CANCER RISKS AND
HAZARD INDEX ESTIMATES

Attachment B.5: Upper-Bound Cumulative Cancer Risks and Noncancer HIs for Soil Exposure
(Based on Highest Soil Concentrations)
Closed Landfill Site, Elyria, Ohio

Area	Routine Worker (Indoor) Soil Volatilization into Indoor Air Cumulative Cancer Risk	Routine Worker (Indoor) Soil Volatilization into Indoor Air Noncancer Hazard Index	Routine Worker (Outdoor) Soil Direct Contact and Inhalation Cumulative Cancer Risk	Routine Worker (Outdoor) Soil Direct Contact and Inhalation Noncancer Hazard Index
Die Storage Pad	1E-04	1E+00	6E-05	2E+00
Effluent Line			8E-06	6E-01
Fuel Oil Tank			8E-06	6E-01
N. Sludge Area	2E-06	1E-02	9E-05	7E+00
N. Trenches	7E-06	5E-02	1E-05	6E-01
Open Burn	3E-07	5E-04	5E-06	3E-01
Railway Spur			4E-06	3E-01
S. Sludge Area	3E-06	1E-02	6E-05	4E+00
S. Trenches	1E-04	1E+00	6E-05	2E+00
Unassigned	3E-06	5E-04	5E-06	6E-02
Notes:				
Shaded cells represent a cumulative cancer risk or hazard index for an area that is higher than 10^{-4} or 1, respectively.				
Nondetected cumulative cancer risk or hazard index estimates are based on half limits when the chemical was not detected in soil in the area but was detected in soil elsewhere at the site.				
Cumulative cancer risk or hazard index estimates represent a summation of the detected and nondetected cumulative cancer risks or hazard index estimates.				

**Attachment B.5: Upper-Bound Cumulative Cancer Risks and Noncancer HIs for Groundwater Exposure
(Based on Highest GW Concentrations)
Closed Landfill Site, Elyria, Ohio**

Area	Maintenance Worker GW Contact and Inhalation Cumulative Cancer Risk	Maintenance Worker GW Contact and Inhalation Noncancer Hazard Index	Resident (Indoor) GW Volatilization into Indoor Air Cumulative Cancer Risk	Resident (Indoor) GW Volatilization into Indoor Air Noncancer Hazard Index
Site-wide Groundwater	7E-06	1E-01	2E-05	9E-02
Notes:				
Shaded cells represent a cumulative cancer risk or hazard index that is higher than 10^{-4} or 1, respectively.				
Nondetected cumulative cancer risk or hazard index estimates are based on half limits when the chemical was not detected in groundwater in an area but was detected in groundwater elsewhere at the site.				
Cumulative cancer risk or hazard index estimates represent a summation of the detected and nondetected cumulative cancer risks or hazard index estimates.				
Cumulative cancer risk and hazard index estimates for residents were conservatively used to evaluate on-and off-site routine worker exposure from groundwater vapor intrusion.				

Attachment B.5: Noncancer Risk Results for the Routine Worker Exposure to Soil: Target Effect Summary
Closed Landfill Site, Elyria, Ohio

Area	Chem Group	Chemical	CASRN	Controlling Pathway	Target Effect/Organ	HQ	Reference
Die Storage Pad/South Trenches	INORG	Chromium (total)	7440-47-3	Ingestion	No effects, tox endpoint based on NOAEL	1E+00	IRIS
Die Storage Pad/South Trenches	INORG	Copper	7440-50-8	Ingestion	Gastrointestinal	4E-01	USEPA 1991
Die Storage Pad/South Trenches	INORG	Nickel	7440-02-0	Ingestion	Decreased body and organ weights	3E-01	IRIS
Die Storage Pad/South Trenches	VOC	Xylenes (total)	1330-20-7	Vapor Inhalation	Impaired motor coordination	1E-01	IRIS
Die Storage Pad/South Trenches	VOC	1,2 -Dichloroethene (total)	540-59-0	Vapor Inhalation	Liver (fatty degeneration), lung (pulmonary capillary hyperemia and distension of the alveolar septum), hematological	1E-01	PPRTV
Die Storage Pad/South Trenches	VARIOUS	Remaining chemicals	Various	Various	Various	3E-02	Various
Note:							
Soil concentrations used in risk and HI estimates were based on the highest soil concentration in each area							
References:							
Provisional Peer Reviewed Toxicity Values for Superfund (PPRTV) Database.							
USEPA. Integrated Risk Information System (IRIS). On-line database.							
USEPA. 1991. Maximum Contaminant Level Goals and National Primary Drinking Water Regulations for Lead and Copper. Final Rule. 56 FR 26460, June 7, 1991.							

**Attachment B.5: Cumulative Cancer Risks and Noncancer HIs for Soil Exposure - Reasonable Maximum Exposure
Closed Landfill Site, Elyria, Ohio**

Area	Maintenance Worker Soil Direct Contact and Inhalation Cumulative Cancer Risk	Maintenance Worker Soil Direct Contact and Inhalation Noncancer Hazard Index	Trespasser Soil Direct Contact and Inhalation Cumulative Cancer Risk	Trespasser Soil Direct Contact and Inhalation Noncancer Hazard Index
Site-wide Soil	4E-05	2E+00	4E-05	2E+00
Notes:				
Shaded cells represent a cumulative cancer risk or hazard index for an area that is higher than 10^{-4} or 1, respectively.				
Nondetected cumulative cancer risk or hazard index estimates are based on half limits when the chemical was not detected in soil in the area but was detected in soil elsewhere at the site.				
Cumulative cancer risk or hazard index estimates are the sum of the detected and nondetected cumulative cancer risks or hazard index estimates.				
Soil concentrations used in risk and HI estimates based on maximum Site-wide concentration expect for chromium (total), copper, nickel and trichloroethene where Site-wide 95% UCL concentration was determined.				
Routine worker exposure factors conservatively used to evaluate maintenance worker and trespasser exposures.				

Attachment B.5: Noncancer Risk Results for the Maintenance Worker/Trespasser Exposure to Soil: Target Effect Summary
Closed Landfill Site, Elyria, Ohio

Area	Chem Group	Chemical	CASRN	Controlling Pathway	Target Effect/Organ	HQ	Reference
Site-Wide	INORG	Chromium (total)	7440-47-3	Ingestion	No effects, tox endpoint based on NOAEL	1E+00	IRIS
Site-Wide	INORG	Antimony	7440-36-0	Ingestion	Longevity, blood, glucose, and cholesterol	5E-01	IRIS
Site-Wide	VARIOUS	Remaining chemicals	Various	Various	Various	2E-01	Various
Site-Wide	VOC	Xylenes (total)	1330-20-7	Vapor Inhalation	Impaired motor coordination	1E-01	IRIS
Site-Wide	VOC	1,2 -Dichloroethene (total)	540-59-0	Vapor Inhalation	Liver (fatty degeneration), lung (pulmonary capillary hyperemia and distension of the alveolar septum), hematological	1E-01	PPRTV
Site-Wide	INORG	Nickel	7440-02-0	Ingestion	Decreased body and organ weights	1E-01	IRIS
Site-Wide	INORG	Copper	7440-50-8	Ingestion	Gastrointestinal	8E-02	USEPA 1991
Notes:							
Soil concentrations used in cancer risk and HI estimates based on maximum Site-wide concentration except for chromium (total), copper, nickel, trichloroethene where Site-wide 95% UCL concentration was computed.							
References:							
Provisional Peer Reviewed Toxicity Values for Superfund (PPRTV) Database.							
USEPA. Integrated Risk Information System (IRIS). On-line database.							
USEPA.1991. Maximum Contaminant Level Goals and National Primary Drinking Water Regulations for Lead and Copper. Final Rule. 56 FR 26460, June 7, 1991.							