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INSTALLATION OF GROUNDWATER MONITORING WELLS AT THE SOUTH DAYTON DUMP, MORAINE, OHIO

MOBILIZATION ORDER NO. 557-01

INSTALLATION OF GROUNDWATER MONITORING WELLS AT THE SOUTH DAYTON DUMP, MORAINE, OHIO

MOBILIZATION ORDER NO. 557-01

Submitted to:

Ohio Environmental Protection Agency
Division of Emergency and Remedial Response
Southwest District Office
401 E. Fifth Street
Dayton, Ohio 45402-2911

Prepared by:

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June 1996
Project No. 60003.06

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1.0 INTRODUCTION

The South Dayton Dump (also referred to as the South Dayton Landfill or Moraine Recycling) is a 30-acre site located just south of Dayton, Ohio. Figure 1 presents a portion of a U. S. Geological Survey (USGS) topographic map of South Dayton showing the location of the site.

A previous investigation conducted at the South Dayton Dump determined that volatile organic compounds (VOCs) and metals are present in soils at levels above background. The OEPA is performing Site Team Evaluations and Prioritizations (STEPs) at the site pursuant to a Cooperative Agreement with the U.S. Environmental Protection Agency (USEPA). The OEPA, Southwest District Office, issued Mobilization Order No. 557-01 to PSARA Technologies, Inc., under a current level-of-effort (LOE) contract to install exploratory soil borings and groundwater monitoring wells at the site. The primary work product of the mobilization order was the installation of four monitoring wells, which will be used by OEPA to evaluate groundwater quality at the site.

As originally issued, the objectives of the mobilization order were to delineate the extent of the fill at the site and to install groundwater monitoring wells outside the extent of fill material but still within the estimated groundwater contaminant plume. Tasks proposed to define the extent of fill material (geophysical survey) were subsequently deleted from the Scope of Work due to budget limitations, and the final scope was reduced to installation of the four monitoring wells for OEPA use. Exploratory borings were conducted prior to installing the wells to provide information on the extent of fill, soil geology, and hydrogeology so that the wells could be placed in locations that would meet OEPA needs.

The work was conducted in accordance with previously submitted and approved documents including the following:

- Final Work Plan (PSARA 1996a)
- Site-specific Quality Assurance Project Plan (QAPP) (PSARA 1996b)
- Site-specific Health and Safety Plan (HASP) (PSARA 1996c)
- Site-specific Sampling and Analysis Plan (SAP, included in the QAPP)
- Generic QAPP for the LOE contract (PSARA 1993)

This report describes the activities surrounding the installation of the groundwater monitoring wells at the South Dayton Dump Site and the associated findings. Section 2 describes the site investigation activities, including a review of existing information and aerial photographs, installation and sampling of the exploratory borings, and installation of the monitoring wells. Section 3 presents a summary of the findings. Section 4 briefly describes variances from the approved Work Plan. Finally, Section 5 presents references.

2.0 SITE INVESTIGATION

2.1 HISTORICAL REVIEW

The South Dayton Dump is approximately a 30-acre site located at 1976 Springboro Road in Moraine, Ohio. It began accepting wastes in 1941 and operated as a licensed sanitary landfill until 1986. The South Dayton Dump accepted construction and demolition debris until it closed in early 1996.

According to Schmidt, 1986, the site overlies glacial outwash comprising mainly sand and gravel. Groundwater in the vicinity of the site flows west/southwest toward the Great Miami River. The depth to groundwater is approximately 20 to 45 feet below ground surface. The Great Miami River is located about 350 feet west of the site, and a water-filled gravel pit borders the site on its southwest side. A small wetland also exists on site.

OEPA files indicate that the South Dayton Dump accepted wastes including 1,1,1-trichloroethane; 2-butanone; xylenes; cutting oils; paint; Stoddard solvents; machine tool water-based coolants contaminated with cutting oils and solvents; and other unspecified cleaning solvents. During routine inspections, it was documented that containers labeled "hazardous" were discovered on site. Between 1950 and 1970, drummed wastes were occasionally accepted at the site. Photographs of the site from 1968 and 1973 show drums; drums were also seen during OEPA site visits in March and August of 1995.

Eleven soil samples collected at or near the site during a previous investigation found levels of contaminants significantly above background, with some concentrations above risk-based levels. The following contaminants were detected above background in soil samples: 1,2-dichloroethene, tetrachloroethene, toluene, polychlorinated biphenyls (PCBs), antimony, arsenic, barium, cadmium, chromium, copper, mercury, nickel, lead, zinc, and several polynuclear aromatic hydrocarbons (PAHs). Prior to the activities described in this report, no groundwater, surface water, or air samples had been collected at the site.

2.2 *REVIEW OF AERIAL PHOTOGRAPHS*

PSARA reviewed historical low-altitude aerial photographs of the site vicinity obtained by OEPA from the Ohio Department of Transportation. The aerial photographs, which were taken in 1956, 1959, 1968, and 1973, document the progression of the site from rural, undeveloped land through an extensive sand and gravel mining operation and ultimately to landfilling operations.

The site expanded from north to south throughout the time period represented by the aerial photographs. There area north of the site appears to have accepted some type of industrial waste prior to 1956. That northern parcel of land is now occupied by an active asphalt plant.

Sand and gravel were removed from the site to the top of the groundwater table. Local ponds were visible throughout the site in each of the aerial photographs reviewed. Debris of undetermined origin and type was then used to backfill the excavations created from sand mining operations. Stockpiled drums, pallets, and crates are visible in the 1968 photograph.

An automobile salvage yard occupied the area immediately north of the site in the 1968 photograph. All automobiles were gone from the site by the time the 1973 photograph was taken.

PSARA used the aerial photographs to estimate the maximum extent of the landfilling operations. The landfilling operations appear to have been limited to an area of approximately 30 acres. The western boundary is marked by a treeline and ridgeline that parallels the Great Miami River. The area encompassing the landfill is approximately 12 feet higher than the flood plain of the river. The southern extent of the fill is roughly marked by an access road in an easement for high-tension overhead electrical lines. The eastern limit of the fill is unclear but is estimated to be 350 feet west of Dryden Road. (There are reports that fill material actually extends beneath Dryden Road. No evidence of this exists on the aerial photographs, however.) The northern boundary of the site, though likely not the boundary of the fill, parallels a northern access road and is partially delineated in the field by a tree line.

Access to the site is gained through an east-west access road from Dryden Road.

Figure 2 presents a site map, which was developed from the 1973 aerial photograph. The scale of the photograph was determined by measuring the lengths of features near the center of the photo and comparing them to the actual measured lengths of the same features.

2.3 *EXPLORATORY BORINGS*

PSARA installed seven exploratory borings at the site between February 19 and 26, 1996. Data collected from the exploratory borings were ultimately used to optimize the placement of the groundwater monitoring wells.

The locations of the exploratory borings were determined based on information gathered from the aerial photographs and on accessibility. Based on general knowledge of the regional geology, it was assumed groundwater generally flowed toward the Great Miami River. Consequently, the borings were concentrated along the southern and western boundaries of the site. Two borings, labeled SD-001 and SD-002, were installed along a power line right-of-way at the southern border of the site. Due to access limitations, the remaining borings (SD-003 through SD-007) were installed within the boundaries of the landfill along the western treeline. Figure 3 illustrates the exploratory boring locations, and the Soil Boring Logs are presented in Appendix A. Well borings that had to be abandoned are designated on the boring logs by letters; these letters chronologically identify the number of borings attempted before one was successfully completed.

2.3.1 Soil Sampling

Prior to the installation of any soil borings, PSARA contacted the Ohio Utilities Protection Service (OUPS) to have member utilities mark any underground lines.

All drilling was conducted in Modified Level D personal protective equipment in accordance with the site-specific HASP. Ambient air monitoring for oxygen, explosivity, and VOCs was conducted throughout the duration of drilling activities.

The exploratory borings were installed and sampled using a combination of direct-push and traditional auger and split-spoon techniques. As originally stated in the Work Plan, all of the borings were to be installed and sampled using a direct-push technique called the ESP™ Method by the manufacturer. The ESP™ system utilizes a double-cased system,

which includes a 1.25-inch split spoon driven in front of an outer hollow steel drive casing. When used to collect soil samples, the entire assembly is driven through the sampling interval. The split spoon is retrieved by extracting the inner rods, leaving the outer drive casing in place. The split spoon is then reinserted through the casing, and the process is repeated until the boring is complete.

Site conditions, however, prevented the exclusive use of this technique. Extremely well compacted silty sand layers and cobble zones, usually encountered within the vadose zone, caused premature refusal in most instances where the ESP system was deployed from the surface.

To preserve the integrity of the sampling program, PSARA utilized a 2.25-inch-inside-diameter hollow-stem auger, in conjunction with a 2-inch split spoon to collect soil samples throughout the vadose zone. Upon reaching the top of the water table, the ESP™ system was deployed through the center of the augers. This combination of methods was selected in the field to allow for both sampling the harder-than-expected unconsolidated material in the vadose zone and the subsequent collection of groundwater samples below the water table.

Soil sampling continued in each boring until heaving sand prohibited further sampling. Soil samples were retrieved from the split-spoon samplers and split into two aliquots. One sample aliquot was placed in a new, labeled, zipper-lock bag for headspace screening analysis. The other aliquot was used to log the boring and was discarded with the drill cuttings.

Soil vapor headspace screening was conducted in the field with an HNu photoionization detector (PID) and a Foxboro flame ionization detector (FID). The PID analysis was used to supplement the FID analysis when it was noted in the field that methane was forming a significant portion of the headspace.

The PID is factory calibrated annually to benzene. However, in the field, it is impractical to use benzene as a calibration gas due to its hazardous nature. According to the manufacturers specifications and industry accepted practices, isobutlene gas is used for field calibration. The HNu has a relative response factor of 0.56 to the isobutlene calibration gas for a 10.2 eV probe. Therefore, the instrument is calibrated to read 56 ppm isobutlene instead of 100 ppm.

PSARA technician calibrated the PID immediately prior to use in the field according to the following procedure: fill then purge a plastic Tedlar bag with zero air; fill the Tedlar bag with a standard consisting of 100 ppm isobutylene balanced with zero air; insert the probe of the PID into the Tedlar bag and close with an airtight seal; and adjust the instrument's span (calibration device) to read 56 ppm.

The FID is factory calibrated annually against a methane standard to read methane concentrations directly. A PSARA technician calibrated the FID immediately prior to use in the field according to the following procedure: fill then purge a plastic Tedlar bag with zero air; fill the Tedlar bag with a standard consisting of 100 ppm methane balanced with zero air; insert the probe of the FID into the Tedlar bag and close with an air tight seal; and adjust the instrument's span (calibration device) to read 100 ppm.

Headspace screening was conducted on sample aliquots from each sampling location to determine relative amounts of VOCs present in the soil. Samples were screened upon the completion of each boring. Prior to analysis, the samples were placed inside the cab of the field vehicle and allowed to warm for approximately 15 minutes prior to performing the headspace screening analyses. During the screening analysis, the probes of the FID and PID were inserted into the headspace of the plastic bag containing the sample aliquot. Headspace analysis results are summarized in Table 1, and are included on the Soil Boring Logs in Appendix A.

The split-spoon samplers were decontaminated between each use according to the following procedure: wash with a nonphosphate detergent; rinse with potable water; rinse with deionized water; rinse with methanol; and finally rinse with deionized water. The decontamination fluids were collected in 5-gallon buckets during decontamination, and then transferred into a labeled 55-gallon drum, which was left at the staging area for disposal by OEPA.

All down-hole equipment (i.e., augers, drill rods, ESP™ equipment, etc.) was decontaminated between each boring with a high-pressure stream cleaner. The decontamination unit is a portable unit with a shielded collection tank used to contain decontamination fluids and soil. All decontamination fluids were containerized on site in labeled 55-gallon drums. Auger cuttings were also collected in labeled drums and stored on site pending disposal.

2.3.2 Groundwater Sampling

In addition to the collection and logging of soil samples, PSARA collected groundwater samples from borings SD-001, SD-002, SD-004A, and SD-005. Groundwater samples were not collected from the remaining borings because those borings had to be abandoned prior to reaching the saturated zone due to heaving sand.

Groundwater samples were collected by deploying the water sampling probe for the ESP™ system. The water sampling probe consists of a screened drive-point section that attaches to the inner rods, essentially replacing the split-spoon assembly previously described. The screened section has a double layer of rubber O-ring gaskets above and below the screened section. To deploy the sampler, both the outer casing and inner rod assemblies are removed from the ground and decontaminated. The water sampling probe is then inserted inside the outer casing with the screened section shielded by the outer casing. The entire assembly is advanced to the desired sampling interval, at which point the inner probe assembly is pushed in advance of the outer casing, thus opening the screen to the formation water.

Because of time limitations and problems with heaving sands and auger refusal groundwater samples were not collected from three intervals within the saturated zone, as originally proposed in the Work Plan. Samples were, however, collected from two intervals in most of the borings. The initial ("shallow") sample was collected from approximately 8 to 10 feet into the saturated zone, whereas the second ("deep") sample was then collected 10 to 15 feet below the shallow sample. A duplicate sample was collected from additional sample aliquots collected from the 28 foot interval from boring SD-004A. The groundwater sample locations are summarized in Table 2.

Groundwater samples were retrieved from the sampling probe with a small-diameter stainless steel bailer, which was decontaminated between each use according to the method for decontamination of split spoons described previously. The samples were collected in two 40-ml glass vials provided by OEPA. The vials were pre-preserved by adding hydrochloric acid. The samples were labeled, placed in individual plastic zipper-lock bags, and placed in a cooler with ice. The samples were maintained at the site by OEPA personnel and shipped by OEPA to the OEPA Division of Environmental Services for analysis.

Daily rinseate blanks were collected in accordance with the QAPP. Rinseate blanks were collected by assembling the water sampling probe, filling the probe with deionized water and decanting the rinseate into two pre-preserved 40-ml glass vials.

2.4 *MONITORING WELL INSTALLATIONS*

2.4.1 Monitoring Well Locations

It was anticipated that the locations of monitoring wells would be based on the groundwater analytical results, specifically, the number of parameters detected and their relative concentrations. The wells would then be located in areas with the highest contaminant levels. It was OEPA's best professional judgment, however, that there was little difference in the groundwater analytical results from the borings, and, therefore, the selection of well locations was based on the suspected groundwater flow direction and on ease of access. The locations were approved by the OEPA prior to the start of drilling. Due to the lack of a suitable location for an upgradient well, the OEPA omitted the installation of this well from the scope of work.

All wells were screened approximately 20 to 30 feet below the top of the groundwater table. One well, MW-101, was positioned midway between SD-001 and SD-002 along the southern site boundary. Monitoring wells MW-102 and MW-103 were installed west of the site in the flood plain of the Great Miami River and adjacent to a bike path that parallels the river. Monitoring well MW-101A was installed approximately 8 feet east of MW-101.

2.4.2 Monitoring Well Installation

PSARA installed groundwater monitoring wells MW-101, MW-102, and MW-103 at the site on April 5, April 8, and April 9, 1996, respectively. Monitoring well locations are presented in Figure 4. Due to faulty well construction of MW-101, a replacement well, MW-101A, was installed on May 7, 1996. Well construction consisted of 2-inch-diameter flush-threaded polyvinylchloride (PVC) riser pipe coupled to a 10-foot section of 0.010-inch machine-slotted PVC well screen. The well screen was surrounded by a filter pack of coarse washed quartz sand and sealed with at least a 2-foot layer of hydrated bentonite. The bentonite seal was topped with a bentonite and Portland cement grout and capped with a concrete pad. A locking well seal was placed on each well to prevent tampering.

Further well protection was provided by a locking steel standpipe protective cover installed in a 2-foot by 2-foot concrete pad. Further protection was provided by installing two steel posts filled with concrete adjacent to each well. Well Construction Diagrams are presented in Appendix B.

Well logs for the newly installed wells were submitted to the Ohio Department of Natural Resources (ODNR). Copies of the ODNR Well Logs are included in Appendix C.

2.4.3 Monitoring Well Development

On April 23, 1996, PSARA field personnel developed monitoring wells MW-101, MW-102, and MW-103 to remove excess fine particulates. Monitoring well MW-101A was developed on May 10, 1996. Prior to well development, PSARA measured the depth to groundwater in the monitoring wells with an oil/water interface probe and checked each well for the presence of nonaqueous-phase liquids (NAPLs) at the top and bottom of the water column. No measurable layer of NAPL was found in the wells on the dates they were developed. Depth-to-groundwater measurements are reported on the Well Development Logs in Appendix D and summarized in Table 5.

All wells were developed in accordance with the Work Plan. Monitoring wells MW-101, MW-102, and MW-103 were purged with a 2-inch submersible pump. The well was determined to be properly developed when the following criteria had been met: 1) at least three standing well volumes of water had been removed and the pH was within 0.1 S.U., the conductivity was within 10 µmhos/cm, and the temperature was within 0.5°C of the preceding measurements; and 2) the purge water was free of suspended silt and sediment or became less turbid during development.

An average of 30 gallons of water was removed from each well before the well was determined to be properly developed. The purge water was pumped into a 250-gallon poly tank provided by OEPA, transported to the Montgomery County Wastewater Treatment Plant, and discharged into the sanitary sewer system.

Monitoring well MW-101A was developed using a surge block and bailer. A 2-inch-diameter surge block was lowered into the well with a ridged drop rod. The surge block was moved up and down in 1-foot increments throughout the length of the screen. The well was then purged with a decontaminated stainless steel bailer until it was determined to be properly developed.

2.4.4 Monitoring Well Decommissioning

During well development activities, PSARA discovered that monitoring well MW-101 was installed with a bow or bend in the well casing. This deflection prohibited the efficient use of bailers for purging and sampling. Accordingly, PSARA replaced monitoring well MW-101 with MW-101A on May 7, 1996. The original well, MW-101, was decommissioned on the same day by overdrilling the well with 4.25-inch hollow-stem augers, pulling the well through the augers, and sealing the borehole with a hydrated mixture of Portland cement and bentonite. The boring was grouted from bottom to top through the augers. During extraction, the well broke, leaving the lower 5 feet of the PVC screen at the bottom of the boring.

A copy of the ODNR well sealing report is included in Appendix C.

3.0 SUMMARY OF FINDINGS

3.1 LOCAL AND REGIONAL GEOLOGY AND HYDROGEOLOGY

As stated earlier, the site lies adjacent to the Great Miami River, which flows north to south along the western boundary of the site. Regionally, the site overlays the Great Miami Buried Valley system. The valley fill is glacial outwash comprising primarily sand and gravel. Depth to bedrock beneath the site is unknown but, based on deep wells in the vicinity, is expected to be in excess of 185 feet below grade. There are till and bedrock highlands approximately 0.5 mile west of the site.

Regionally, the Great Miami River is expected to provide a major control for groundwater flow in the area. Therefore, regional groundwater flow in the area is expected to be west to southwest toward the river. Local variations are likely, however. Groundwater yields in the vicinity of the site are expected to be 500 to 1000 gpm (Schmidt 1986).

Based on the results of soil sampling, the soil beneath the site comprises primarily sand units with variable amounts of gravel and silt. Localized silty to sandy clay units were encountered across the site at variable depths. Additionally, localized cobble layers were encountered, usually within the vadose zone. Flowing and heaving sands were encountered during drilling operations within 5 to 8 feet of the top of the water table. Up to 3 feet of sand was observed flowing into the augers. Multiple thin brown oxidized zones were common in the vadose zone within 2 feet of the observed static water.

Exploratory borings SD-003 through SD-007, which were installed within the estimated boundaries of the landfill, indicate the fill material, which consists of ash, cinders, foundry sand, debris, and unidentifiable black sludge-like material, is approximately 8 to 12 feet thick along the western site border. The fill material overlays sand with variable amounts of silt and gravel. Abundant silt was encountered in borings SD-101 and SD-101A.

3.2 *SOIL SAMPLING RESULTS*

Soil sampling indicates the soil beneath the site comprises primarily sands with variable amounts of silt and gravel. Isolated coarse gravel/cobble zones were encountered across the site. Soil sampling within the presumed boundaries of the fill indicates the fill material is highly variable with ash/cinder zones, numerous pieces of burnt wood, miscellaneous waste material (plastic bags, broken glass, etc.), buff colored, well sorted sand (presumed to be foundry sand), and unidentifiable black sludge-like material.

Results of the headspace screening analyses revealed generally low to moderate amounts of volatile organic vapors in the sample headspace. Several borings (SD-003, SD-006, and SD-006A) had FID headspace screening results in excess of 500 ppm. Conversely, field screening of the same samples with the PID indicated significantly lower vapor concentrations. It is assumed, therefore, that since the FID will detect methane whereas the PID will not, the majority of the volatile organic vapors detected by the FID were methane.

Visible vapors were observed emanating from the top of the augers while drilling SD-007. Based on air monitoring results conducted during drilling operations, these vapors were also determined to be methane.

3.3 *GROUNDWATER SAMPLING RESULTS*

Table 3 summarizes the analytical results for groundwater samples collected from exploratory borings SD-001, SD-002, SD-004A, and SD-005. Figure 5 presents the groundwater analytical results in relation to the boring locations. All samples were analyzed for VOCs using EPA Method 624. None of the VOCs identified exceeded the maximum contaminant levels (MCLs). The groundwater analytical report is presented in Appendix E.

All groundwater data was used as screening data to guide the placement of monitoring wells and is not intended to represent aquifer quality. Factors such as excessive siltation of the samples, caused by not sampling a developed well, may decrease the quality of the samples collected using the ESP^{TM} water sampling probe. Additionally, the excessive siltation caused visible reaction (sustained effervescence) with the HCl used to preserve the sample. The effervescence caused headspace to develop within the sample vial, thus

reducing the quality of the sample. The data were judged to be usable only as screening data for locating the monitoring wells.

The groundwater monitoring wells are scheduled to be sampled by OEPA personnel.

3.4 QUALITY CONTROL SAMPLE RESULTS

Daily rinseate blanks were collected whenever groundwater samples were collected. Methylene chloride was detected in the blanks collected on February 20 and 21, 1996. Additionally, 0.9 ppb of 1,2-dichloroethane was detected in the blank collected on February 21, 1996. No final rinseate blank was collected on February 20, 1996, because the sample probe was destroyed while attempting to collect the final groundwater sample that day. A baseline rinseate blank, SDRI001, was collected as specified in the QAPP on February 20, 1996, prior to any sampling activities, however. No rinseate blank was collected on February 22, 1996, because no groundwater samples were collected on that day.

Trip blanks accompanied each sample shipment to the laboratory. Methylene chloride was detected in the trip blank collected on February 20, 1996. No VOCs were detected in the remaining trip blank samples. Results of the quality control samples are summarized in Table 4 and the Quality Control Sample analytical reports are included in Appendix F.

Methylene chloride was detected in the rinseate blanks collected on February 20, and February 21, 1996 and in the trip blank collected on February 20, 1996. Additionally, 1,2-Dichloroethane (1,2-DCA) was detected in the rinseate blank collected on February 21,1996.

The presence of methylene chloride in two of the rinseate blanks and one of the trip blanks, coupled with the absence of this compound in the groundwater samples, may be an indication of laboratory contamination. The presence of 1,2-DCA in the rinseate blank collected on February 21, 1996, indicates that decontamination procedures on that day were not totally effective. The rinseate blank was collected after sample SDGW004 but before sample SDGW005. It is likely that the results of SDGW004 are representative of the groundwater while the results of sample SDGW005 may be questionable.

3.5 *GROUNDWATER FLOW*

Approximate water table surface and groundwater flow direction were interpreted from the monitoring well elevations and the depth-to-groundwater measurements made on April 23, 1996. Groundwater elevation data is summarized in Table 5. The groundwater contour map presented in Figure 6 indicates that groundwater flows to the southeast under an approximate hydraulic gradient of 0.002 feet/foot.

Groundwater measurements were collected from monitoring well MW-101A on May 10, 1996. Monitoring wells MW-102 and MW-103 could not be accessed on this date because the Great Miami River was above flood stage, thus restricting access to these wells.

The direction of flow is contrary to the expected flow pattern (i.e., toward the Great Miami River). It is likely that flow near the river is complex and variable with river stage. Additionally, the water-filled gravel pit located along the south side of the site may also alter the groundwater flow patterns.

3.6 *MANAGEMENT OF INVESTIGATION-DERIVED WASTES*

All residual materials (i.e., soil, decontamination water, used personal protective equipment) generated during the site investigation were containerized in labeled 55-gallon drums. A staging area for the drums is located near the entrance gate to the site. The drums were placed on plastic sheeting and left in the staging area pending disposal. OEPA will sample and characterize the waste, and PSARA will arrange for disposal of the drums in accordance with the Work Plan and QAPP.

4.0 VARIANCES

The following summarizes significant changes to either the original objectives as stated in the mobilization order, the scope of work described in the Work Plan, or the sampling and analysis plan as described in the QAPP.

4.1 SCOPE OF WORK

The following items represent changes to the basic framework of the project directed by or agreed to by the OEPA:

- The geophysical survey requested in the mobilization order was deleted by OEPA.
- At the direction of OEPA, no background well was installed at the site.
- OEPA personnel assumed responsibility for sampling and characterizing of all IDW.
- Monitoring well MW-101 was decommissioned in accordance with standard industry practice. There was no contingency for well decommissioning in the approved project documents.

4.2 FIELD / SAMPLING PROCEDURES

The following items reflect changes in field procedures required to meet field conditions. All alterations of the field procedures were approved by onsite OEPA personnel.

- Heaving sands, which caused split spoons to become sand-locked in the augers or ESP™ casing, prevented complete soil sampling in the saturated zone.
- Monitoring well MW-101A was developed using a surge block and bailer at the request of OEPA.

- Development water was containerized in a poly tank provided by OEPA and was transported to the Montgomery County Waste Water Treatment plant for discharge. Permission to discharge was obtained by OEPA.

- Pre-preserved sample vials were provided by OEPA.

4.3 SAMPLE CUSTODY

OEPA personnel retained responsibility for sample custody in the field, maintaining the chain of custody and shipment of the samples to the laboratory. PSARA personnel handed each sample vial to the OEPA onsite representative as they were collected.

4.4 LABORATORY

At the direction of OEPA, the groundwater samples were submitted to the OEPA Department of Environmental Services Laboratory for analysis as opposed to Ross Analytical Services as specified in the QAPP.

4.5 DATA VALIDATION

Data validation was limited to the verification of sample holding times and the collection of rinseate and trip blanks. OEPA chose not to require matrix spike and matrix spike duplicate samples, and the lack of this data prevented full data validation as described in the QAPP.

5.0 RESIDUALS MANAGEMENT

PSARA remobilized to the site on October 2, 1996, to oversee the removal of IDW staged on the Cornett Trucking Property. OEPA representatives previously collected samples of the drummed soil to characterize the IDW. The soil was found to be non-hazardous and was, therefore, managed as solid waste. The drummed soil was emptied into a dump truck and shipped in bulk to Waste Management, Inc., Stony Hollow Landfill in Dayton, Ohio. The waste was profiled for disposal by OEPA and permission was granted by Waste Management, Inc., under profile number 416810. A total of 7.56 tons of soil, which represents the combined solid IDW from the South Sanitary Landfill and South Dayton Dump investigations, was received by the landfill. A copy of the bill of lading which corresponds to this soil is included in Appendix G.

Several drums of liquid IDW, specifically, decontamination fluids and purge water from the monitoring well development, was disposed of by OEPA into the Montgomery County Sanitary Sewer District sanitary sewer lines under an agreement reached between OEPA and Montgomery Sanitary Sewer District.

6.0 REFERENCES

PSARA Technologies, Inc. 1996a. Final Work Plan, South Dayton Dump and Dorothy Lane Landfill, Mobilization Order No. 557-01. Prepared for the Ohio Environmental Protection Agency , Division of Emergency and Remedial Response , Southwest District Office.

PSARA Technologies, Inc. 1996b. Site-specific Quality Assurance Project Plan, South Dayton Dump and Dorothy Lane Landfill, Montgomery County, Ohio, Mobilization Order No. 557-01. Prepared for the Ohio Environmental Protection Agency , Division of Emergency and Remedial Response , Southwest District Office.

PSARA Technologies, Inc. 1996c. Site-specific Health and Safety Plan. Dorothy Lane Landfill and South Dayton Dump, Moraine, Ohio, Mobilization Order No. 557-01. Prepared for the Ohio Environmental Protection Agency , Division of Emergency and Remedial Response , Southwest District Office.

PSARA Technologies, Inc. 1993. Generic Quality Assurance Project Plan, Remedial Response Level-of-Effort Contract. Prepared for the Ohio Environmental Protection Agency , Division of Emergency and Remedial Response , Southwest District Office.

Schmidt, James J. 1986. Groundwater Resources of Montgomery County. Ohio Department of Natural Resources.

TABLES

Table 1. Headspace Screening Results
February 19 through February 27, 1996
South Dayton Dump, Moraine, Ohio

Depth, ft	Concentration, ppm[a]																	
	SD-001	SD-002	SD-003		SD-004		SD-004A		SD-005		SD-006		SD-006A		SD-006B		SD-007	
	FID	FID	FID	PID	FID	PID	FID	PID	FID	PID	FID	PID	FID	PID	FID	PID	FID	PID
0 to 2	NS[b]	0.0	8.4	2.8	6.0	5.1	2.8	4.2	3.6	1.2	12	4	1	3	6	12	5	3
2 to 4	NS	0.2	540	5.2	1.4	3.8	1.8	3.0	4.0	1.6	500	4	>1000	6	--	--	5	1
4 to 6	NS	0.0	22	16.8	2.2	5.0	4.0	3.2	3.2	1.6	--	--	>1000	11	--	--	80	4
6 to 8	NS	0.0	--	--	2.4	4.8	3.8	4.2	2.6	2.0	--	--	--	--	--	--	20	1
8 to 10	NS	0.0	--	--	5.8	4.8	3.0	4.0	2.8	1.0	--	--	--	--	--	--	100	3
10 to 12	NS	0.0	--	--	18	40	7.2	6.8	3.0	1.2	--	--	--	--	--	--	300	2
12 to 14	NS	6.8	-	--		--	NR[c]	NR	NR	NR	--	--	--	--	--	--	20	3
14 to 16	29	14	--	--	--	--	4.2	3.8	14	10.2	--	--	--	--	-	--	--	--
16 to 18	160	6.6	--	--	--	--	24	8.0	10	16	--	--	--	--	--	--	--	--
18 to 20	300	60	--	--	--	--	2.8	4.0	12	6.2	--	--	--	--	--	--	--	--
20 to 22	18	400	--	--	--	--	22	7.5	7.8	3.6	--	--	--	--	--	--	--	--
22 to 24	--	180	--	--	--	--	5.2	5.8	24	5.0	--	--	--	--	--	--	--	--
24 to 26	-	160	--	--	--	--	8.6	5.4	10	3.2	--	--	--	--	--	--	--	--
26 to 28	--	--	--	--	--	--	4.8	4.6	--	--	--	--	--	--	--	--	--	--

[a] Vapor headspace concentrations are reported for total organic vapors including methane (FID) and not including methane (PID)
[b] NS=no sample collected
[c] NR - no recovery
[d] -- = boring did not extend through these intervals.

Table 2. Groundwater Sample Locations
South Dayton Dump, Moraine, Ohio

Sample Number	Location (Boring Number)	Date Collected	Sample Depth, ft
SDGW001	SD-001	Feb. 19, 1996	19
SDGW002	SD-002	Feb. 20, 1996	22
SDGW003	SD-002	Feb. 20, 1996	32
SDGW004	SD-001	Feb. 21, 1996	34
SDGW005	SD-004A	Feb. 23, 1996	23
SDGW006	SD-004A	Feb. 23, 1996	28
SDGW007[a]	SD-004A	Feb. 23, 1996	28
SDGW008	SD-005	Feb. 26, 1996	28
SDGW009	SD-005	Feb. 26, 1996	43

[a] Sample SDGW007 is a duplicate sample of SDGW006.

Table 3. Groundwater Analytical Results
South Dayton Dump, Moraine, Ohio

Constituent	Concentration, ppb								
	SDGW001	SDGW002	SDGW003	SDGW004	SDGW005	SDGW006	SDGW007	SDGW008	SDGW009
Benzene	1.2	0.8	1.9	0.9	0.8	0.6	0.5	0.7	1.6
1,1-Dichloroethane	0.5	1.2	2.8	0.8	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	1.5	1.9	2.3	1.5	2.4	1.5	1.5	2.1	2.9
Trichloroethene	4.6	<0.5	<0.5	2.8	1.5	2.0	2.2	<0.5	2.4
1,2 Dichloroethane	<0.5	0.5	<0.5	0.9	0.9	<0.5	0.8	<0.5	<0.5
cis-1,2-Dichloroethene	<0.5	0.9	1.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Xylene (total m+p)	<0.05	0.6	<0.5	<0.5	1.2	0.7	0.7	0.9	0.9
Vinyl chloride	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	0.6	0.7
1,2,4-Trimethylbenzene	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	0.5
o-Xylene	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	0.7

Table 4. Quality Control Sample Analytical Results
South Dayton Dump
Moraine, Ohio

Sample No.	SDR1001	SDR1002	SDR1003				
Sample Type	Rinseate Blank	Rinseate Blank	Rinseate Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Date Collected	Feb. 20, 1996	Feb. 21, 1996	Feb. 23, 1996	Feb. 20, 1996	Feb 21, 1996	Feb. 23, 1996	Feb. 26, 1996
CONSTITUENT	Concentration, (ppb)						
Methylene Chloride	0.6	0.7	<0.5	0.8	<0.5	<0.5	<0.5
1,2-Dichloroethane	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5

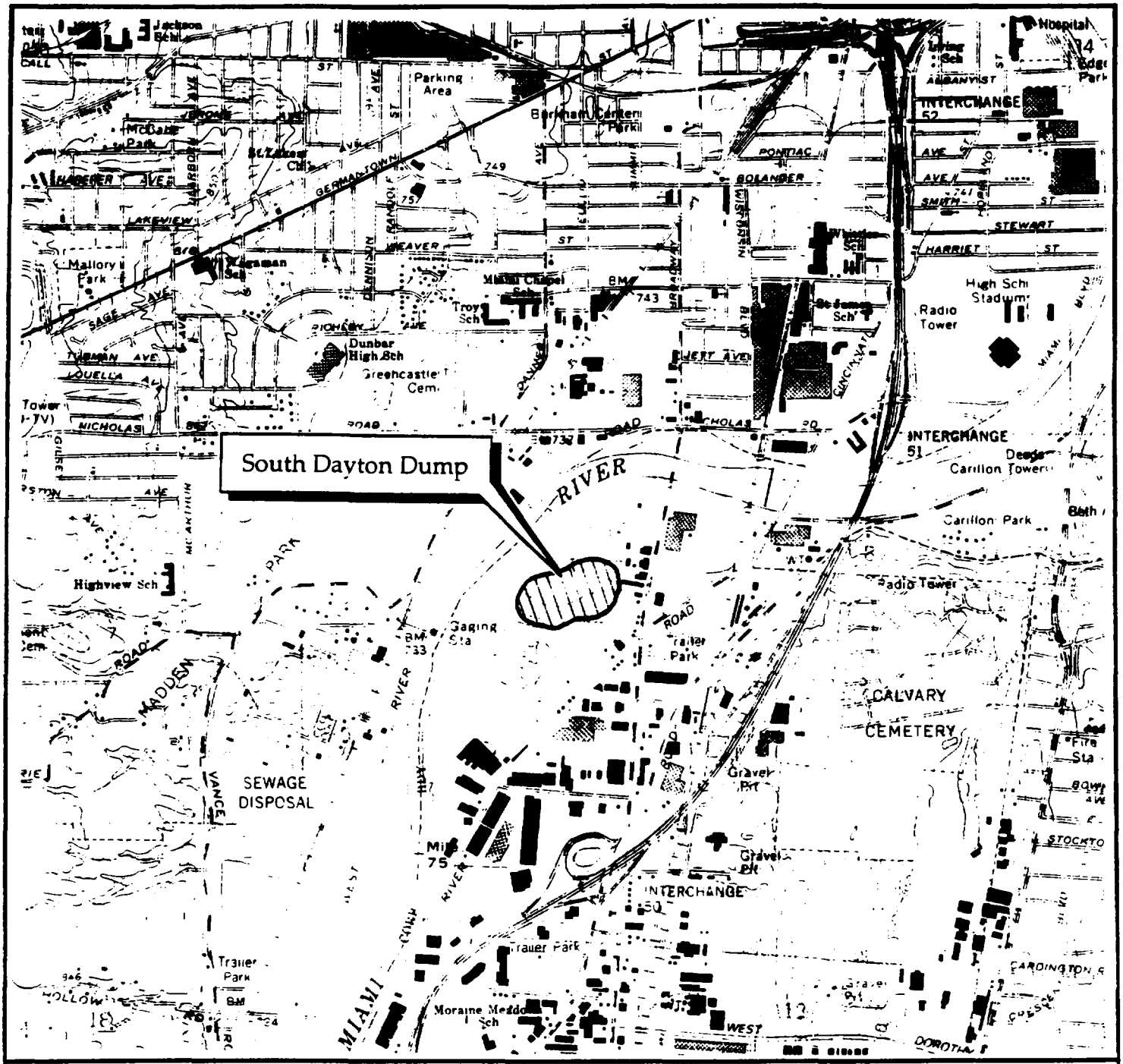
Table 5. Groundwater Elevation
April 23, 1996
South Dayton Dump, Moraine, Ohio

Well No.	Top of Casing Elevation, ft[a]	Depth to Groundwater, ft	Groundwater Elevation, ft[a]	Ground surface Elevation, ft[a]
MW-101	107.36	15.10	92.26	104.68
MW-102	100.00	6.97	93.03	96.96
MW-103	98.91	5.80	93.11	97.04
MW-101A[b]	107.42	10.52	96.90	104.68

a Elevation measured relative to arbitrary site datum, established as the top of the well casing in MW-102 (100.00 ft).

b Depth to water measurement collected on May 10, 1996.

FIGURES



PSARA TECHNOLOGIES INC.

LEGEND

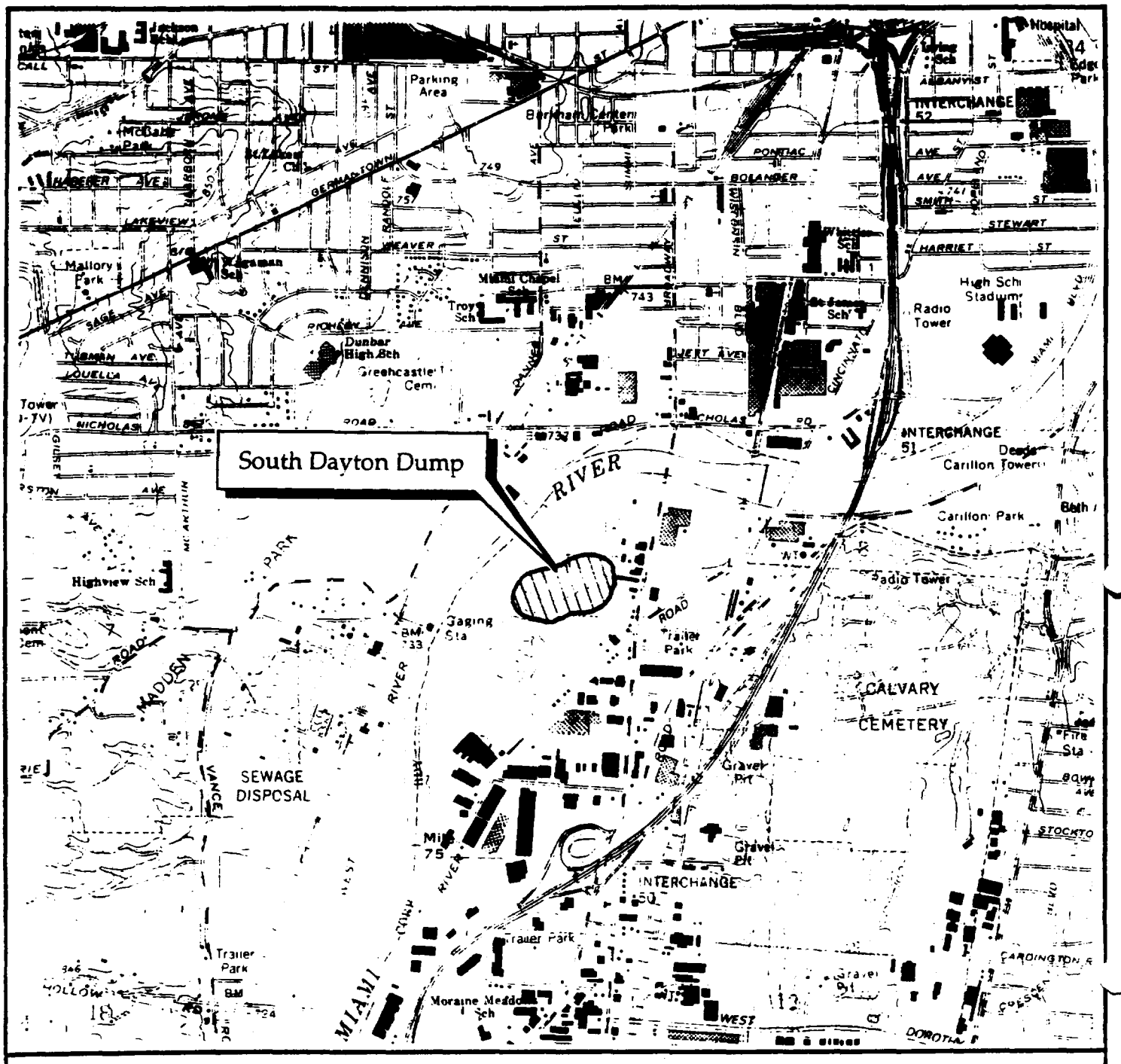
USGS 7.5 Minute Quadrangle:

DAYTON SOUTH, OHIO
39084-F2-TF-024

OHIO EPA

Figure 1.
Site Location Map
South Dayton Dump
Moraine, Ohio

Drawn By:	Date:	Scale:
RIC	5-28-96	1:24000



N

SCALE 1:24000

0 .5 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

OHIO

QUADRANGLE LOCATION

PSARA TECHNOLOGIES, INC.

LEGEND

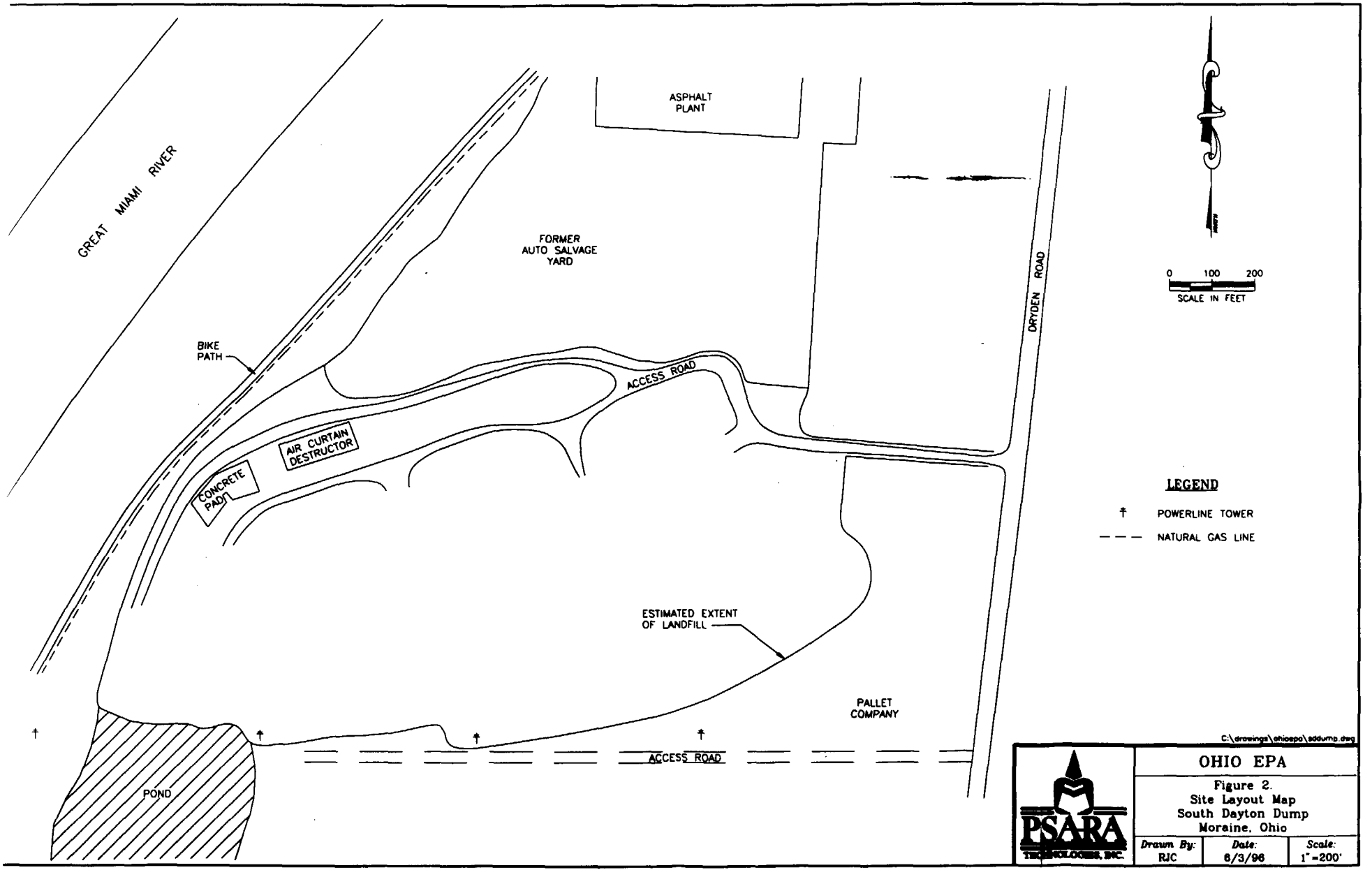
USGS 7.5 Minute Quadrangle:

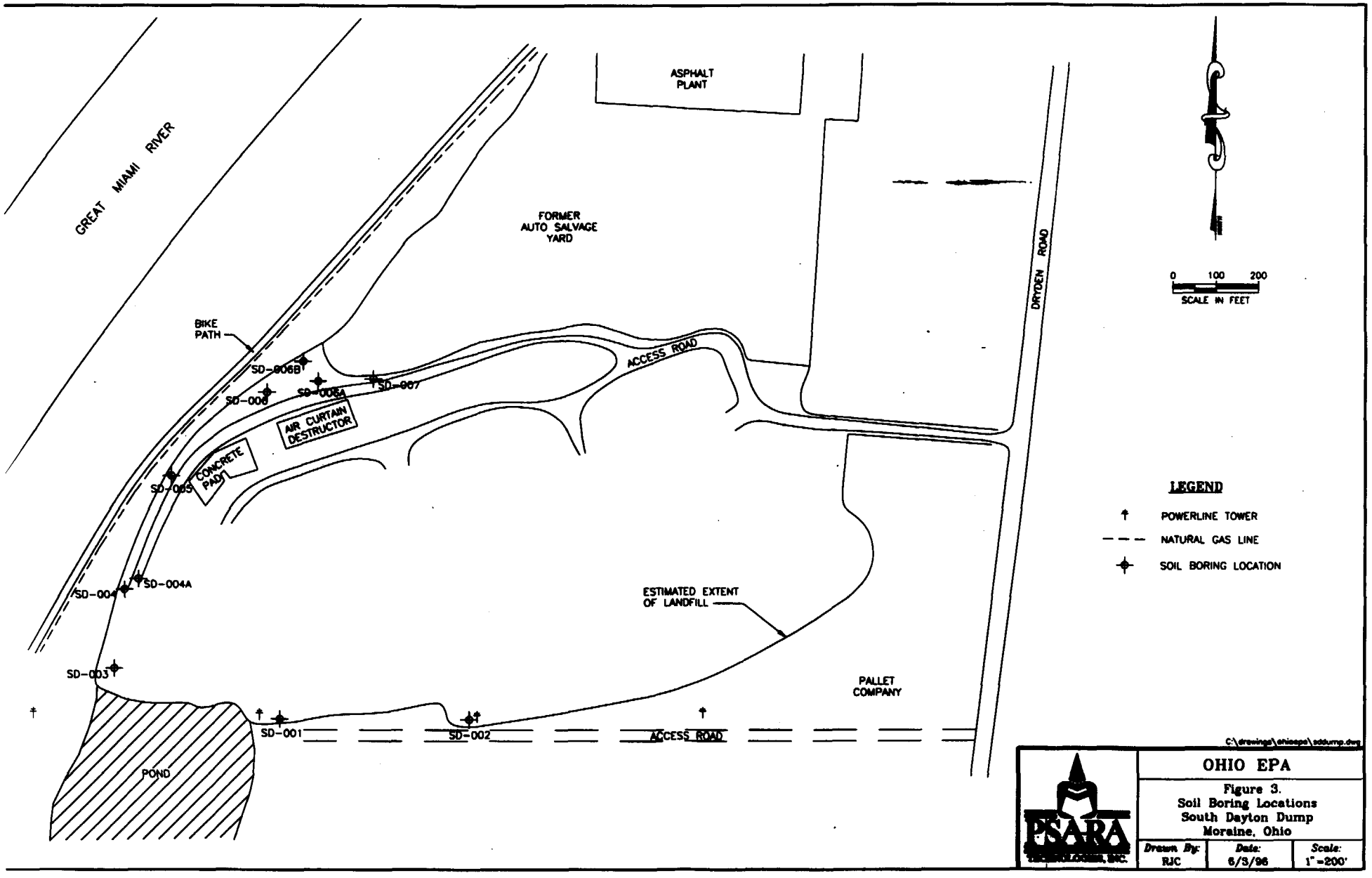
DAYTON SOUTH, OHIO
39084-F2-TF-024

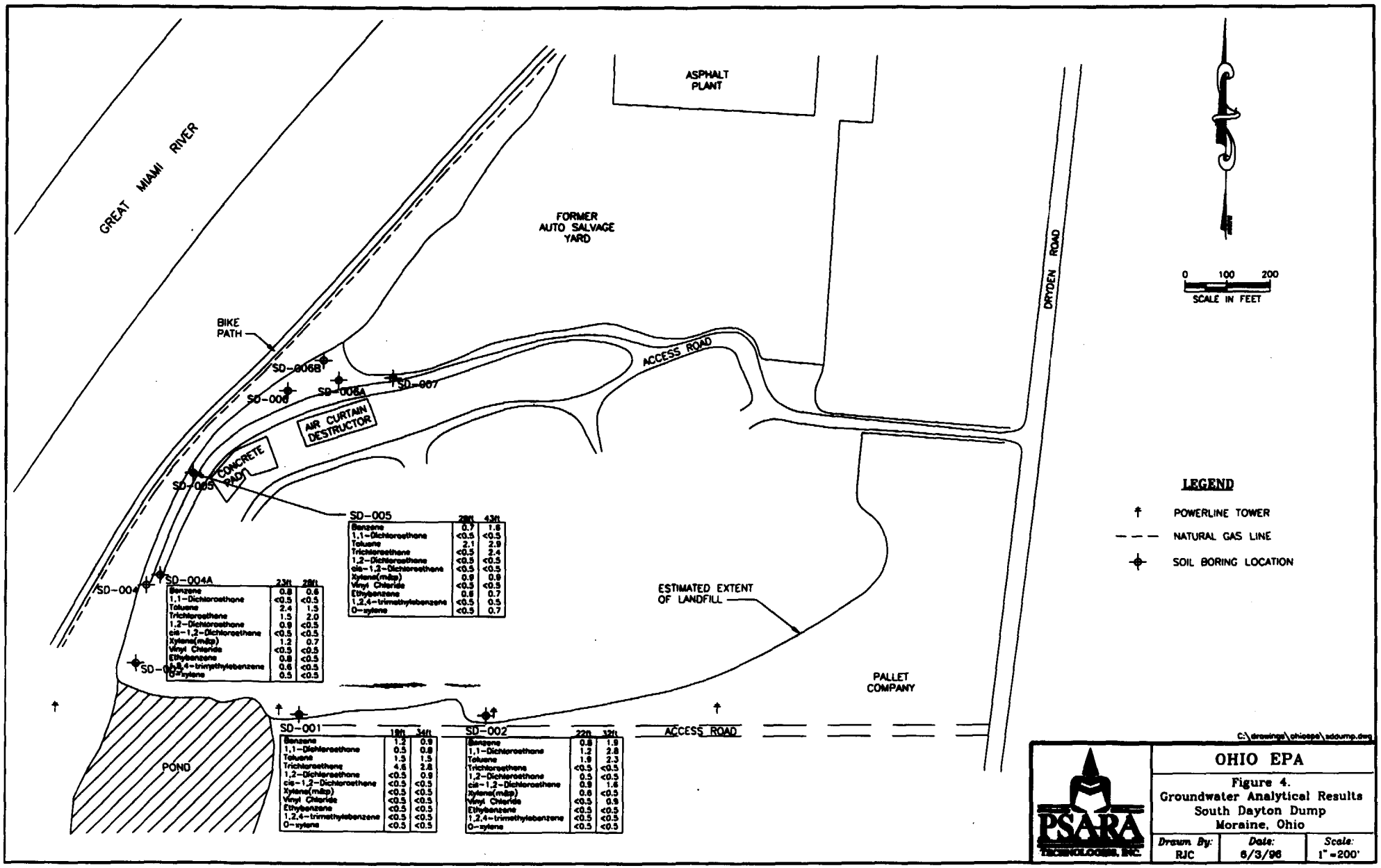
OHIO EPA

Figure 1.
Site Location Map
South Dayton Dump
Moraine, Ohio

Drawn By:	Date:	Scale:
RIC	5-28-96	1:24000


GREAT MIAMI RIVER
ASPHALT PLANT
FORMER AUTO SALVAGE YARD
DRYDEN ROAD
BIKE PATH
ACCESS ROAD
AIR CURTAIN DESTRUCTOR
CONCRETE PAD
ESTIMATED EXTENT OF LANDFILL
PALLET COMPANY
ACCESS ROAD
POND
0 100 200
SCALE IN FEET
LEGEND
POWERLINE TOWER
NATURAL GAS LINE
C:\drawings\ohiospo\sddump.dwg
PSARA TECHNOLOGIES, INC.
OHIO EPA
Figure 2.
Site Layout Map
South Dayton Dump
Moraine, Ohio
Drawn By: RJC
Date: 6/3/96
Scale: 1"=200'


GREAT MIAMI RIVER
ASPHALT PLANT
FORMER AUTO SALVAGE YARD
DRYDEN ROAD
BIKE PATH
SD-006B
SD-006
SD-006A
SD-007
ACCESS ROAD
AIR CURTAIN DESTRUCTOR
CONCRETE PAD
SD-005
SD-004
SD-004A
ESTIMATED EXTENT OF LANDFILL
SD-003
PALLET COMPANY
SD-001
SD-002
ACCESS ROAD
POND
0 100 200
SCALE IN FEET
LEGEND
POWERLINE TOWER
NATURAL GAS LINE
SOIL BORING LOCATION
C:\drawings\ohioepa\oddump.dwg
PSARA ENGINEERS, INC.
OHIO EPA
Figure 3.
Soil Boring Locations
South Dayton Dump
Moraine, Ohio
Drawn By: RJC
Date: 6/3/96
Scale: 1"=200'



SD-005	28ft	43ft
Benzene	0.7	1.6
1,1-Dichloroethane	<0.5	<0.5
Toluene	2.1	2.9
Trichloroethene	<0.5	2.4
1,2-Dichloroethane	<0.5	<0.5
cis-1,2-Dichloroethene	<0.5	<0.5
Xylene(m&p)	0.9	0.8
Vinyl Chloride	<0.5	<0.5
Ethylbenzene	0.6	0.7
1,2,4-trimethylebenzene	<0.5	0.5
O-xylene	<0.5	0.7

SD-004A	23ft	28ft
Benzene	0.8	0.6
1,1-Dichloroethane	<0.5	<0.5
Toluene	2.4	1.5
Trichloroethene	1.5	2.0
1,2-Dichloroethane	0.9	<0.5
cis-1,2-Dichloroethene	<0.5	<0.5
Xylene(m&p)	1.2	0.7
Vinyl Chloride	<0.5	<0.5
Ethylbenzene	0.8	<0.5
1,2,4-trimethylebenzene	0.6	<0.5
O-xylene	0.5	<0.5

SD-001	18ft	34ft
Benzene	1.2	0.9
1,1-Dichloroethane	0.5	0.8
Toluene	1.5	1.5
Trichloroethene	4.6	2.8
1,2-Dichloroethane	<0.5	0.9
cis-1,2-Dichloroethene	<0.5	<0.5
Xylene(m&p)	<0.5	<0.5
Vinyl Chloride	<0.5	<0.5
Ethylbenzene	<0.5	<0.5
1,2,4-trimethylebenzene	<0.5	<0.5
O-xylene	<0.5	<0.5

SD-002	22ft	32ft
Benzene	0.8	1.8
1,1-Dichloroethane	1.2	2.8
Toluene	1.8	2.3
Trichloroethene	<0.5	<0.5
1,2-Dichloroethane	0.5	<0.5
cis-1,2-Dichloroethene	0.9	1.6
Xylene(m&p)	0.6	<0.5
Vinyl Chloride	<0.5	0.8
Ethylbenzene	<0.5	<0.5
1,2,4-trimethylebenzene	<0.5	<0.5
O-xylene	<0.5	<0.5

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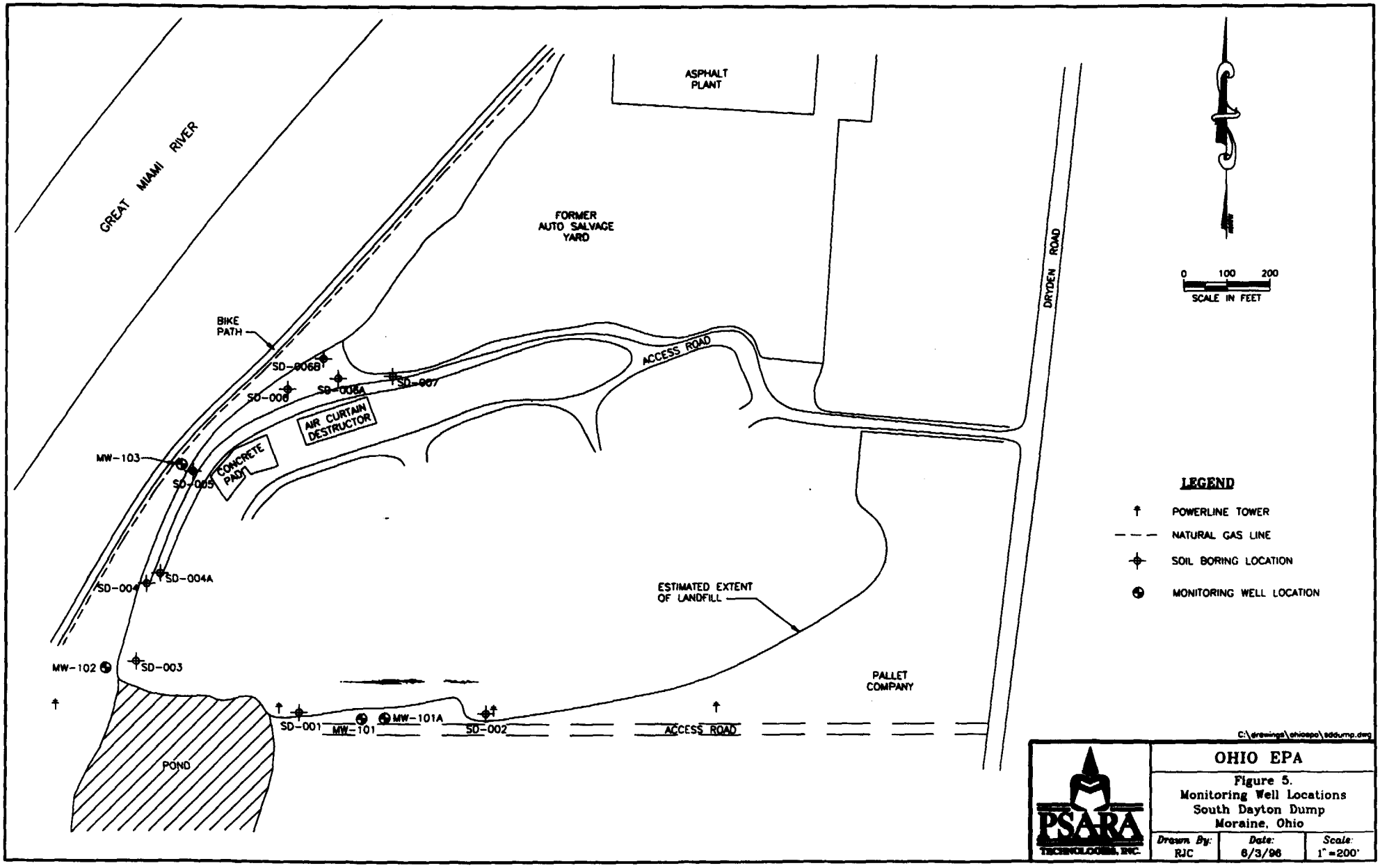
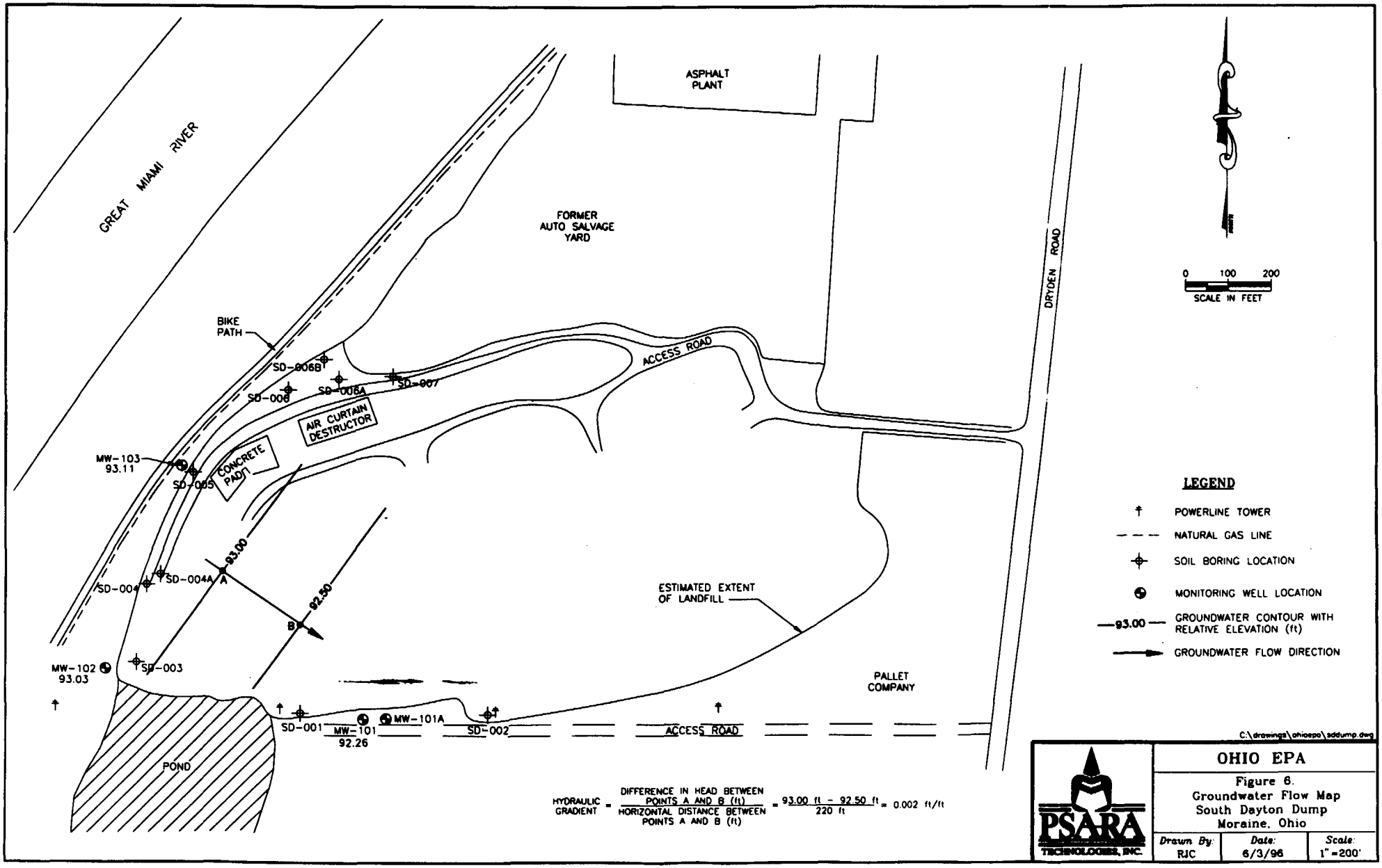
PSARA TECHNOLOGIES, INC.

OHIO EPA

Figure 4.
Groundwater Analytical Results
South Dayton Dump
Moraine, Ohio

Drawn By:	Date:	Scale:
RJC	6/3/96	1" =200'


GREAT MIAMI RIVER
ASPHALT PLANT
FORMER AUTO SALVAGE YARD
DRYDEN ROAD
BIKE PATH
SD-006B
SD-006
SD-006A
SD-007
ACCESS ROAD
AIR CURTAIN DESTRUCTOR
MW-103
SD-005
CONCRETE PAD
SD-004
SD-004A
ESTIMATED EXTENT OF LANDFILL
MW-102
SD-003
PALLET COMPANY
SD-001
MW-101
MW-101A
SD-002
ACCESS ROAD
POND
0 100 200
SCALE IN FEET
LEGEND
POWERLINE TOWER
NATURAL GAS LINE
SOIL BORING LOCATION
MONITORING WELL LOCATION
C:\drawings\ohioepa\sddump.dwg
PSARA TECHNOLOGIES, INC.
OHIO EPA
Figure 5.
Monitoring Well Locations
South Dayton Dump
Moraine, Ohio
Drawn By: RJC
Date: 6/3/96
Scale: 1"=200'


GREAT MIAMI RIVER
ASPHALT PLANT
FORMER AUTO SALVAGE YARD
DRYDEN ROAD
BIKE PATH
SD-006B
SD-006
SD-006A
SD-007
ACCESS ROAD
AIR CURTAIN DESTRUCTOR
MW-103 93.11
SD-005
CONCRETE PAD
SD-004
SD-004A
93.00
A
92.50
B
ESTIMATED EXTENT OF LANDFILL
MW-102 93.03
SD-003
PALLET COMPANY
SD-001
MW-101 92.26
MW-101A
SD-002
ACCESS ROAD
POND
0 100 200
SCALE IN FEET
LEGEND
POWERLINE TOWER
NATURAL GAS LINE
SOIL BORING LOCATION
MONITORING WELL LOCATION
93.00 GROUNDWATER CONTOUR WITH RELATIVE ELEVATION (ft)
GROUNDWATER FLOW DIRECTION
HYDRAULIC GRADIENT = DIFFERENCE IN HEAD BETWEEN POINTS A AND B (ft) / HORIZONTAL DISTANCE BETWEEN POINTS A AND B (ft) = 93.00 ft - 92.50 ft / 220 ft = 0.002 ft/ft
C:\drawings\ohioepa\addump.dwg
PSARA TECHNOLOGIES, INC.
OHIO EPA
Figure 6.
Groundwater Flow Map
South Dayton Dump
Moraine, Ohio
Drawn By: RJC
Date: 6/3/96
Scale: 1" = 200'

APPENDIX A

Soil Boring Logs

PSARA TECHNOLOGIES, INC.

Soil Boring Log

Project No. 60003.06
Boring No. SD-001
Page 1 of 2

General Information

Client: **Ohio EPA**	Boring No.: **SD-001**
Site Location: **South Dayton Dump, Dayton, Ohio**	Date(s) Drilled: **February 19, 1996**
PSARA Geologist: **R. Stuck**	Drilling Method / Borehole Size: **ESP/1.25 in.**
Drilling Contractor: **CAS**	Total Depth of Borehole (ft): **22**
Sampling Device: **1 x 24" split spoon**	Depth to Water Observed During Drilling (ft): **12**
Headspace Screening Instrument: ☐ PID ☒ FID	Well Installed: ☐ Yes ☒ No Well No.: —

Summary of Boring

Sample No.	Sample Depth (ft) From	Sample Depth (ft) To	Recovery (in)	Blow Count	Sample/Core Description	Headspace Reading (ppm) Total Organic	Headspace Reading (ppm) Total Methane
No samples collected	0	2	13		6 in. brown loamy soil over ≈4 in. black asphalt over ≈8 in. brown silty clay with brick.		
	2	4	6		Brown silty clay with minor amount (<5%) of very small gravel. Stiff.		
	4	6	0		No recovery.		
	6	8	6		Clay; brown silty to sandy clay with limestone fragments. Minor amount (<1%) of small gravel. Moist.		
	8	10	10		Silty sand with gravel. Approximately 4 in. over clay; brown silty clay with small gravel. green to gray staining. Faint hydrocarbon odor.		
	10	12	0		No recovery - limestone cobble.		
	12	14	4		Sand: fine to medium grained sand with minor silt. Wet.		
	14	16	4		Sand and gravel: coarse grained sand with gravel - few fines. Wet.		

Notes

Ent'd by: SLW
Ck'd by: MES
Date: 3/26/96

FORM NO. 001 0

PSARA TECHNOLOGIES, INC.	Soil Boring Log	Project No. 60003.06 Boring No. SD-001 Page 2 of 2

Summary of Boring

Sample No.	Sample Depth (ft)		Recovery (in)	Blow Count	Sample/Core Description	Headspace Reading (ppm)	
	From	To				Total Organic	Total Methane
Auger, Split Spoon	12	14	0	1-1-1-1	No recovery - spoon wet at ≈13 ft.		
SD001-01	14	16	8	5-3-2-2	Sand; fine to medium grained sand overlaying medium size gravel.	280	
SD001-02	16	18	20	7-6-6-8	Sand and gravel; medium to coarse sand with large gravel (up to 2 in.), wet. Some silt.	160	
SD001-03	18	20	22	20-17-16-18	Coarsening downward sequence of fine to medium grained sand down to coarse clean gravel at bottom of spoon. Some clay/silt in sandy units.	300	
SD001-04	20	22	14	11-14-18-21	Sand; fine to medium sand (≈4 ") overlying tight sand with abundant silty clay and gravel. Dry spots throughout tight clayey sand. Wet above.	18	
SD001-05	22	24	0		≈2 ft of heaving sand.		

Notes

Ent'd by: SLW
Ck'd by: MES
Date: 3/26/96

PSARA TECHNOLOGIES, INC.	Soil Boring Log	Project No. 60003.06 Boring No. SD-002 Page 1 of 2

General Information

Client: **Ohio EPA**	Boring No.: **SD-002**
Site Location: **South Dayton Dump, Dayton. Ohio**	Date(s) Drilled: **February 20, 1996**
PSARA Geologist: **R. Stuck**	Drilling Method / Borehole Size: **2.25-in. I.D. HSA/4.75 in.**
Drilling Contractor: **CAS**	Total Depth of Borehole (ft): **26**
Sampling Device: **2 x 24 in. split spoon**	Depth to Water Observed During Drilling (ft): **12**
Headspace Screening Instrument: ☐ PID ☒ FID	Well Installed: ☐ Yes ☒ No Well No.: —

Summary of Boring

Sample No.	Sample Depth (ft)		Recovery (in)	Blow Count	Sample/Core Description	Headspace Reading (ppm)	
	From	To				Total Organic	Total Methane
SD002-1	0	2	18	7-7-6-5	Clay; brown silty clay with large gravel upper 4 in. Minor (<5%) small gravel with black mottling throughout. Tight.	0.0	
SD002-2	2	4	12	3-3-3-3	Clay; brown silty clay with black mottles and minor amount of small gravel. Tight. Moist upper 2 in. Glass and other debris fragments.	0.2	
SD002-3	4	6	18	3-4-4-4	Clay; light brown silty clay (upper 6 in.) overlaying brown silty to sandy clay with abundant small gravel. Sand lower 2 in. of spoon.	0.0	
SD002-4	6	8	12	6-21-16-14	Sand; poorly sorted sand with up to 10% small to medium gravel. Clean on fine end. Larger cobble fragments.	0.0	
SD002-5	8	10	12	14-35-21-24	Sand: poorly sorted sand with up to 15% small round gravel. Minor amount of silt. Loosely compacted.	0.0	
SD002-6	10	12	12	15-17-16-15	Sand: poorly sorted sand with up to 15% small gravel. Silty, loosely compacted. Faint odor.	0.0	

Notes

Ent'd by: SLW
Ck'd by: MFS
Date: 3/26/96

FORM NO. 2010

PSARA TECHNOLOGIES, INC.	Soil Boring Log	Project No. 60003.06 Boring No. SD-002 Page 2 of 2

Summary of Boring

Sample No.	Sample Depth (ft)		Recovery (in)	Blow Count	Sample/Core Description	Headspace Reading (ppm)	
	From	To				Total Organic	Total Methane
SD002-7	12	14	10	12-27-22-22	Sand; poorly sorted sand with abundant small gravel, silt and clay. Numberous rusty brown mottles and streaks. Wet. Tight.	6.8	
SD002-8	14	16	14	30-8-7-7	Sand; poorly sorted fine to coarse sand with gravel and silt (upper 6 in.) overlaying fine to medium sand with minor small gravel/coarse sand and no silt. Wet throughout.	14	
SD002-9	16	18	12	4-7-10-10	Sand and gravel - ≈6 in. of coarse sand and gravel with no visible fines overlaying 6 in. of medium grained, well saturated sand.	6.6	
SD002-10	18	20	8	14-16-4-4	Sand; poorly sorted sand with small gravel and silt. Wet.	60	
SD002-11	20	22	6	6-6-4-4	Gravel; coarse angular gravel with few medium to fine sand and silt. Wet.	400	
SD002-12	22	24	6	---	Sand; tightly compacted sand with abundant clay and gravel. Wet throughout.	180	
SD002-13	24	26	28	50-32-32-25	Sand; wet fine to medium grained sand overlaying tight sandy clay with gravel, moist to damp (≈6 in.) overlaying fine to medium grained wet sand.	160	

Notes

Ent'd by: SLW
Ck'd by: MES
Date: 3/26/96

PSARA TECHNOLOGIES, INC.

Soil Boring Log

Project No. 60003.06
Boring No. SD-003
Page 1 of 1

General Information

Client: **Ohio EPA**	Boring No.: **SD-003**
Site Location: **South Dayton Dump, Dayton, Ohio**	Date(s) Drilled: **February 22, 1996**
PSARA Geologist: **R. Stuck**	Drilling Method / Borehole Size: **2.25-in. I.D. HSA/4.75 in.**
Drilling Contractor: **CAS**	Total Depth of Borehole (ft): **6**
Sampling Device: **2 x 24 in. split spoon**	Depth to Water Observed During Drilling (ft):
Headspace Screening Instrument: [X] PID [X] FID	Well Installed: [ ] Yes [X] No Well No.:

Summary of Boring

Sample No.	Sample Depth (ft) From	Sample Depth (ft) To	Recovery (in)	Blow Count	Sample/Core Description	Headspace Reading (ppm) FID	Headspace Reading (ppm) PID
SD003-01	0	2	18	2-2-2-27	Sequence of mixed units: 6" of black to brown wet clay with organics overlaying ≈4 in. of black mottled clayey sand over ≈4 in. of wet pinkish medium grained sand over wet brown silt.	8.4	2.8
SD003-02	2	4	8	2-16-21-26	Sand; black to brown sand with abundant silt and clay (?). Wet. Very sticky. Black staining throughout.	540	5.2
SD003-03	4	6	12	4-4-5-5	Sand; variegated black, gray and white sand with tight clayey zones.	22	16.8
					Boring stopped due to buried waste.		

Notes

Cutting "sludgy" on auger when we withdrew.

Ent'd by: SLW
Ck'd by:
Date: 3/27/96

FORM NO. 031.0

PSARA TECHNOLOGIES, INC.	Soil Boring Log	Project No. 60003.06 Boring No. SD-004 Page 1 of 1

General Information

Client: **Ohio EPA**	Boring No.: **SD-004**
Site Location: **South Dayton Dump, Dayton, Ohio**	Date(s) Drilled: **February 22, 1996**
PSARA Geologist: **R. Stuck**	Drilling Method / Borehole Size: **ESP/1.25 in.**
Drilling Contractor: **CAS**	Total Depth of Borehole (ft): **12**
Sampling Device: **1 x 24" split spoon**	Depth to Water Observed During Drilling (ft):
Headspace Screening Instrument: X PID X FID	Well Installed: ___ Yes X No Well No.:

Summary of Boring

Sample No.	Sample Depth (ft)		Recovery (in)	Blow Count	Sample/Core Description	Headspace Reading (ppm)	
	From	To				FID	PID
SD004-1	0	2	6	---	Clay; brown to black silty to sandy clay with cinders, slag, and other debris.	6.0	5.1
SD004-2	2	4	8	---	Brown clay with abundant glass fragments and assorted debris (5") over coarse pink brick fragments.	1.4	3.8
SD004-3	4	6	14	---	Clay; brown silty to sandy clay with small gravel and gravel fragments, rusty brown mottling and few brick fragments.	2.2	5.0
SD004-4	6	8	4	---	Sand: buff colored medium grained sand over-lain by limestone cobble fragments.	2.4	4.8
SD004-5	8	10	14	---	Sand: coarse to fine grained sand with abundant silt. Up to 5% small angular gravel.	5.8	4.8
SD004-6	10	12	8	---	Sand: poorly sorted fine to coarse sand with gravel up to 20%, very well compacted. Silty.	18	40
					Probe refusal @ 12 ft		

Notes

Ent'd by: SLW
Ck'd by:
Date: 3/27/96

FORM NO. 2210

PSARA TECHNOLOGIES, INC.	Soil Boring Log	Project No. 60003.06 Boring No. SD-004A Page 1 of 2

General Information

Client: **Ohio EPA**	Boring No.: **SD-004A**
Site Location: **South Dayton Dump, Dayton, Ohio**	Date(s) Drilled: **February 22 - 23, 1996**
PSARA Geologist: **R. Stuck**	Drilling Method / Borehole Size: **ESP /1.25 in.**
Drilling Contractor: **CAS**	Total Depth of Borehole (ft): **28**
Sampling Device: **1 x 24" split spoon**	Depth to Water Observed During Drilling (ft): **17**
Headspace Screening Instrument: ☒ PID ☒ FID	Well Installed: ☐ Yes ☒ No Well No.:

Summary of Boring

Sample No.	Sample Depth (ft)		Recovery (in)	Blow Count	Sample/Core Description	Headspace Reading (ppm)	
	From	To				FID	PID
SD004A-1	0	2	12	---	Clay; black organic rich clay with abundant cinders.	2.8	4.2
SD004A-2	2	4	0	---	No recovery, rock in spoon.		
SD004A-3	4	6	4	---	Clay; brown silty clay with abundant coarse sand, moist.	1.8	3.0
SD004A-4	6	8	12	---	Clay; brown silty clay with abundant sand and small gravel (upper 5") overlaying poorly sorted sand with gravel and silt. Numerous limestone cobble fragments.	4.0	3.2
SD004A-5	8	10	14	---	Sand; poorly sorted sand with silt and abundant small subangular gravel (up to 15%).	3.8	4.2
SD004A-6	10	12	18	---	Sand: poorly sorted fine to coarse sand with abundant gravel and silt. Gravel up to 15% and up to 1" diameter. Dry and loosely compacted.	3.0	4.0
SD004A-7	12	14	16	---	Sand; poorly sorted sand with gravel and silt. Numerous cobble fragments including 1 broken granite cobble.	7.2	6.8

Notes

	Ent'd by: SLW
	Ck'd by: MES
	Date: 3/27/96

PSARA TECHNOLOGIES, INC.	Soil Boring Log	Project No. 60003.06 Boring No. SD-004A Page 2 of 2

Summary of Boring

Sample No.	Sample Depth (ft)		Recovery (in)	Blow Count	Sample/Core Description	Headspace Reading (ppm)	
	From	To				FID	PID
SD004A-8*	14	16	18	—	Sand; poorly sorted sand with gravel and silt, ≈20% small subrounded gravel. Oxidized zone ≈1" thick 2 inches from bottom of spoon.	4.2	3.8
SD004A-9**	16	18	12	12-13-16-9	Sand; poorly sorted sand with abundant gravel and few fines (upper 4 in.) overlaying poorly sorted silty sand with gravel (≈3 in.) overlaying wet silty sand with gravel.	24	8.0
SD004A-10***	18	20	6	—	Sand and gravel; poorly sorted sand with gravel and silt. Wet.	2.8	4.0
SD004A-11	20	22	8	—	Sand; poorly sorted sand with gravel and silt. Several cobble fragments. Very silty near bottom of spoon. Wet.	22	7.5
SD004A-12	22	24	6		Sand and gravel; poorly sorted sand with gravel and silt. Appears to have segregated during sampling. Wet.	5.2	5.8
SD004A-13	24	26	6		Gravel: poorly sorted rounded gravel with coarse sand. Wet.	8.6	5.4
SD004A-14	26	28	2		Sand and gravel: poorly sorted medium to coarse sand and minor amount of silt. Wet. BOH at 28 ft.	4.8	4.6

Notes

* Lost probe tools down hole at 16-18 ft interval. Unable to retrieve. Grouted hole. Offset ≈2 ft.

Will continue with 2.25 HSA.	Ent'd by: SLW
** Boring continued with 2.25 HSA offset ≈2 ft from SD004A initial attempt.	Ck'd by: MES
*** Switch back to ESP through augers.	Date: 3/27/96

PSARA TECHNOLOGIES, INC.

Soil Boring Log

Project No. 60003.06
Boring No. SD-005
Page 1 of 2

General Information

Client: **Ohio EPA**	Boring No.: **SD-005**
Site Location: **South Dayton Dump, Dayton. Ohio**	Date(s) Drilled: **February 23, 1996**
PSARA Geologist: **R. Stuck**	Drilling Method / Borehole Size: **HSA /4.75 and ESP/1.25**
Drilling Contractor: **CAS**	Total Depth of Borehole (ft): **43**
Sampling Device: **2 x 24 in. and 1 x 24 in. split spoons**	Depth to Water Observed During Drilling (ft): **18**
Headspace Screening Instrument: X PID _ FID	Well Installed: _ Yes X No Well No.: ---

Summary of Boring

Sample No.	Sample Depth (ft) From	Sample Depth (ft) To	Recovery (in)	Blow Count	Sample/Core Description	Headspace Reading (ppm) FID	Headspace Reading (ppm) PID
SD005-1	0	2	18	4-6-4-4	Black organic rich clay overlaying =6 in. of variegated black to gray clay with cinders, slag burnt wood over 6 in. of rusty brown and sandy clay with assorted debris.	3.6	1.2
SD005-2	2	4	18	3-3-3-6	Black to gray cinder rich clay with glass, brick, and slag. Gray streaks. Moist zone (upper 1"). Overlaying brown sandy clay to clayey sand lower 6 in.	4.0	1.6
SD005-3	4	6	8	6-8-6-3	Clay; brown to black silty clay with gravel. Loosely compacted.	3.2	1.6
SD005-4	6	8	18	4-4-4-4	Clay: brown silty clay with black streaks. Few sandy clay zones. Small gravel up to 5%. Hard.	2.6	2.0
SD005-5	8	10	18	3-4-3-3	Clay: brown silty clay with abundant coarse sand and small gravel throughout. Black mottling upper 6 in. Fewer gravel near bottom of spoon.	2.8	1.0
SD005-6	10	12	20	4-4-4-4	Clay; brown silty clay with coarse sand and small gravel. Single burnt wood at 5 in. from top of spoon.	3.0	1.2

Notes

Ent'd by: SLW
Ck'd by:
Date: 3/27/96

FORM NO. 001.0

PSARA TECHNOLOGIES, INC.

Soil Boring Log

Project No. 60003.06
Boring No. SD-005
Page 2 of 2

Summary of Boring

Sample No.	Sample Depth (ft)		Recovery (in)	Blow Count	Sample/Core Description	Headspace Reading (ppm)	
	From	To				FID	PID
SD005-7	12	14	14	5-5-11-12	Clay; brown silty clay upper 4 in. overlaying buff colored clayey sand to sandy clay with up to 10% small rounded gravel.	14	10.2
SD005-8	14	16	12	31-21-19-17	Sand; poorly sorted sand with abundant silt and clay - gravel up to 5%. Single broken limestone cobble.	10	16
SD005-9	16	18	18	27-18-15-16	Sand; poorly sorted sand with up to 20% small rounded gravel and abundant silt/clay. Wet lower 4 in.	12	6.2
SD005-10	18	20	6	21-19-14-7	Sand and gravel; poorly sorted fine to coarse sand with up to 30% gravel. Wet.	7.8	3.6
SD005-11*	20	22	8	—	Sand and gravel; poorly sorted with clay and silt. Wet.	24	5.0
SD005-12	22	24	6	—	Sand and gravel; poorly sorted with clay and silt. Wet.	10	3.2
SD005-13	24	26	0	—	No recovery.	—	—
SD005-14	26	28			** Soil sampling abandoned ≈3 ft of heave into outer casing. Unable to clear.	—	—

Notes

* Switch to soil sampling with ESP system with augers at 18 ft.

Ent'd by: SLW
Ck'd by: MES
Date: 3/27/96

FORM NO. 002.0

PSARA TECHNOLOGIES, INC.

Soil Boring Log

Project No. 60003.06
Boring No. SD-006
Page 1 of 1

General Information

Client: **Ohio EPA**	Boring No.: **SD-006**
Site Location: **South Dayton Dump. Dayton. Ohio**	Date(s) Drilled: **February 26. 1996**
PSARA Geologist: **R. Stuck**	Drilling Method / Borehole Size: **2.25-in. I.D. HSA/4.75 in.**
Drilling Contractor: **CAS**	Total Depth of Borehole (ft): **4**
Sampling Device: **2 x 24 in. split spoon**	Depth to Water Observed During Drilling (ft): **---**
Headspace Screening Instrument: [X] PID [X] FID	Well Installed: [ ] Yes [X] No Well No.: ---

Summary of Boring

Sample No.	Sample Depth (ft) From	Sample Depth (ft) To	Recovery (in)	Blow Count	Sample/Core Description	Headspace Reading (ppm) FID	Headspace Reading (ppm) PID
SD006-1	0	2	12	3-4-6-4	**Fill: black slag rich fill with abundant cinders.**	12	4
					burnt wood fragments and assorted debris.		
SD006-2	2	4	20	3-3-2-1	**Clay: brown to black sandy clay with silt and**	500	4
					gravel, loosely compacted.		
					BOH at 2 ft. Boring abandoned due to toxic		
					atmosphere and potentially explosvie vapors.		

Notes

Ent'd by: SLW
Ck'd by: HES
Date: 3/27/96

FORM NO. 1010

PSARA TECHNOLOGIES, INC.

Soil Boring Log

Project No. 60003.06
Boring No. SD-006A
Page 1 of 1

General Information

Client: **Ohio EPA**	Boring No.: **SD-006A**
Site Location: **South Dayton Dump, Dayton, Ohio**	Date(s) Drilled: **February 26, 1996**
PSARA Geologist: **R. Stuck/C. Hall**	Drilling Method / Borehole Size: **2.25-in. I.D. HSA/4.75 in.**
Drilling Contractor: **CAS**	Total Depth of Borehole (ft): **6**
Sampling Device: **2 x 24 in. split spoon**	Depth to Water Observed During Drilling (ft): **---**
Headspace Screening Instrument: X PID X FID	Well Installed: ___ Yes X No Well No.: ---

Summary of Boring

Sample No.	Sample Depth (ft) From	Sample Depth (ft) To	Recovery (in)	Blow Count	Sample/Core Description	Headspace Reading (ppm) FID	Headspace Reading (ppm) PID
SD006A-1	0	2	18	4-4-5-5	Fill: black slag rich with sand size material.	1	3
					numerous cinders with burnt wood fragments.		
					Loosely compacted.		
SD006A-2	2	4	16	4-4-4-4	Ash (?); black silt sized with small white and	>1000	6
					tan fragments. Slag-rich fill lower 5 in.		
SD006A-3	4	6	12	2-2-3-2	Fill; cinder and ash rich black fill with	>1000	11
					assorted debris including white plastic bag.		

Notes

Boring abandoned due to excessive waste and landfill material

Ent'd by: SLW
Ck'd by:
Date: 3/27/96

FORM NO. 001 0

PSARA TECHNOLOGIES, INC.	Soil Boring Log	Project No. 60003.06 Boring No. SD-006B Page 1 of 1

General Information

Client: **Ohio EPA**	Boring No.: **SD-006B**
Site Location: **South Dayton Dump, Dayton, Ohio**	Date(s) Drilled: **February 26, 1996**
PSARA Geologist: **C. Hall**	Drilling Method / Borehole Size: **2.25-in. I.D. HSA/4.75 in.**
Drilling Contractor: **CAS**	Total Depth of Borehole (ft): **2**
Sampling Device: **2 x 24 in. split spoon**	Depth to Water Observed During Drilling (ft): ---
Headspace Screening Instrument: ☒ PID ☒ FID	Well Installed: ☐ Yes ☒ No Well No.: ---

Summary of Boring

Sample No.	Sample Depth (ft)		Recovery (in)	Blow Count	Sample/Core Description	Headspace Reading (ppm)	
	From	To				FID	PID
SD006B-1	0	2	4	4-1-2-3	Black fill slag material, slightly clayey. Moist.	6	12
					Abandon hole at 2 ft, strong organic odor.		

Notes

Ent'd by: SLW
Ck'd by: MES
Date: 3/27/96

FORM NO. 001.0

PSARA TECHNOLOGIES, INC.

Soil Boring Log

Project No. 60003.06
Boring No. SD-007
Page 1 of 1

General Information

Client: **Ohio EPA**	Boring No.: **SD-007**
Site Location: **South Dayton Dump, Dayton, Ohio**	Date(s) Drilled: **February 26, 1996**
PSARA Geologist: **C. Hall**	Drilling Method / Borehole Size: **2.25-in. I.D. HSA/4.75 in.**
Drilling Contractor: **CAS**	Total Depth of Borehole (ft): **14**
Sampling Device: **2 x 24 in. split spoon**	Depth to Water Observed During Drilling (ft): ---
Headspace Screening Instrument: ☒ PID ☒ FID	Well Installed: ☐ Yes ☒ No Well No.: ---

Summary of Boring

Sample No.	Sample Depth (ft)		Recovery (in)	Blow Count	Sample/Core Description	Headspace Reading (ppm)	
	From	To				FID	PID
SD007-1	0	2	20	2-3-4-6	Fill, coarse grained sand and gravel, large amount slag material, loosely compacted.	5	3
SD007-2	2	4	10	7-5-2-2	Fill, sand and gravel, cinder slag material, burnt wood fragments. Loosely compacted.	5	1
SD007-3	4	6	11	6-10-5-5	Sand, orangish-red, coarse grained, loosely compacted.	80	4
SD007-4	6	8	10	2-1-1-1	Fill, sand, ash, black burnt wood fragments, small amount slag material, loosely compacted.	20	1
SD007-5	8	10	6	1-1-2-1	Fill, black sand, and ash, coarse grained sand, small amount slag material, loosely compacted.	100	3
SD007-6	10	12	10	1-1-1-1	Fill, black sand and cinder, glass fragments, loosely compacted, clay in shoe of spoon.	300	2
SD007-7	12	14	10	2-1-1-1	Clay, dark brown, minor amount of sand, wood fragments at bottom of spoon, loosely compacted coarse grained sand in shoe of spoon.	20	3

Notes

Ent'd by: SLW
Ck'd by: MES
Date: 3/27/96

PSARA TECHNOLOGIES, INC.

Soil Boring Log

Project No. 60003.06
Boring No. MW-101
Page 1 of 1

General Information

Client: **Ohio EPA**	Boring No.: **MW-101**
Site Location: **South Dayton Dump, Dayton, Ohio**	Date(s) Drilled: **April 5, 1996**
PSARA Geologist: **R. Stuck**	Drilling Method / Borehole Size: **4.25-in. I.D. HSA/8.25 in.**
Drilling Contractor: **JEDI**	Total Depth of Borehole (ft): **38**
Sampling Device: **N/A Logged from cuttings**	Depth to Water Observed During Drilling (ft): **15**
Headspace Screening Instrument: [X] PID [ ] FID	Well Installed: [X] Yes [ ] No Well No.:

Summary of Boring

Sample No.	Sample Depth (ft) From	Sample Depth (ft) To	Recovery (in)	Blow Count	Sample/Core Description	Headspace Reading (ppm) FID	Headspace Reading (ppm) PID
	0	11			Clay; brown silty to sandy clay with organic fragments and gravel. Concrete slabs at surface.		
	11	12			Cobble/boulder.		
	12	29			Sandy clay to clayey sand with gravel.		
	29	38			Wet sand to silt. Very fine grained, gray plastic.		

Notes

Ent'd by: SLW
Ck'd by: MES
Date: 3/27/96

FORM NO. 001.0

PSARA TECHNOLOGIES, INC.	**Soil Boring Log**	Project No. 60003.06 Boring No. MW-102 Page 1 of 1

General Information

Client: **Ohio EPA**	Boring No.: **MW-102**
Site Location: **South Dayton Dump, Dayton, Ohio**	Date(s) Drilled: **April 8, 1996**
PSARA Geologist: **R. Stuck**	Drilling Method / Borehole Size: **4.25-in. I.D. HSA/8.25 in.**
Drilling Contractor: **JEDI**	Total Depth of Borehole (ft): **32**
Sampling Device: **N/A Logged by cuttings**	Depth to Water Observed During Drilling (ft): **10**
Headspace Screening Instrument: ☐ PID ☐ FID	Well Installed: ☒ Yes ☐ No Well No.: **MW-102**

Summary of Boring

Sample No.	Sample Depth (ft)		Recovery (in)	Blow Count	Sample/Core Description	Headspace Reading (ppm)	
	From	To				FID	PID
	0	10			**Brown clayey top soil with silt and gravel.**		
	10	15			**Brown silty to sandy clay, wet.**		
	15	32			**Sand and gravel; coarse gravel and cobbles; minor coarse sand. Damp to wet.**		

Notes

Ent'd by: DMW
Ck'd by: MES
Date: 4/30/96

FORM NO. 001.0

PSARA TECHNOLOGIES, INC.

Soil Boring Log

Project No. 60003.06
Boring No. MW-103
Page 1 of 1

General Information

Client: **Ohio EPA**	Boring No.: **MW-103**
Site Location: **South Dayton Dump, Dayton, Ohio**	Date(s) Drilled: **April 9, 1996**
PSARA Geologist: **R. Stuck**	Drilling Method / Borehole Size: **4.25-in. I.D. HSA/8.25 in.**
Drilling Contractor: **JEDI**	Total Depth of Borehole (ft): **32**
Sampling Device: **N/A Logged by cuttings**	Depth to Water Observed During Drilling (ft): **10**
Headspace Screening Instrument: ☐ PID ☐ FID	Well Installed: ☒ Yes ☐ No Well No.: **MW-103**

Summary of Boring

Sample No.	Sample Depth (ft) From	Sample Depth (ft) To	Recovery (in)	Blow Count	Sample/Core Description	Headspace Reading (ppm) FID	Headspace Reading (ppm) PID
	0	8			**Clay; brown sandy clay with gravel.**		
	8	12			**Clay; brown sandy clay, damp to wet.**		
	12	32			**Sand and gravel; very few cuttings.**		

Notes

Ent'd by: DMW
Ck'd by: MES
Date: 4/30/96

FORM NO. 001.0

PSARA TECHNOLOGIES, INC.	Soil Boring Log	Project No. 60003.06 Boring No. MW-101A Page 1 of 1

General Information

Client: **Ohio EPA**	Boring No.: **MW-101A**
Site Location: **South Dayton Dump, Dayton, Ohio**	Date(s) Drilled: **May 7, 1996**
PSARA Geologist: **R. Stuck**	Drilling Method / Borehole Size: **4.25-in. I.D. HSA/8.25 in.**
Drilling Contractor: **JEDI**	Total Depth of Borehole (ft): **35**
Sampling Device: **N/A Logged from cuttings**	Depth to Water Observed During Drilling (ft): **15**
Headspace Screening Instrument: ☐ PID ☐ FID	Well Installed: ☒ Yes ☐ No Well No.: **MW-101A**

Summary of Boring

Sample No.	Sample Depth (ft)		Recovery (in)	Blow Count	Sample/Core Description	Headspace Reading (ppm)	
	From	To				FID	PID
	0	8			Brown silty clay with gravel.		
	8	15			Brown silty to sandy clay, moist to damp.		
	15	19			Sand and gravel with cobbles. Few cuttings.		
	19	35			Gray to brown sandy silt. Wet. Some cuttings plastic.		

Notes

Ent'd by: DMW
Ck'd by: MES
Date: 5/13/96

FORM NO. C01.0

APPENDIX B

Well Construction Diagrams

PSARA TECHNOLOGIES, INC.

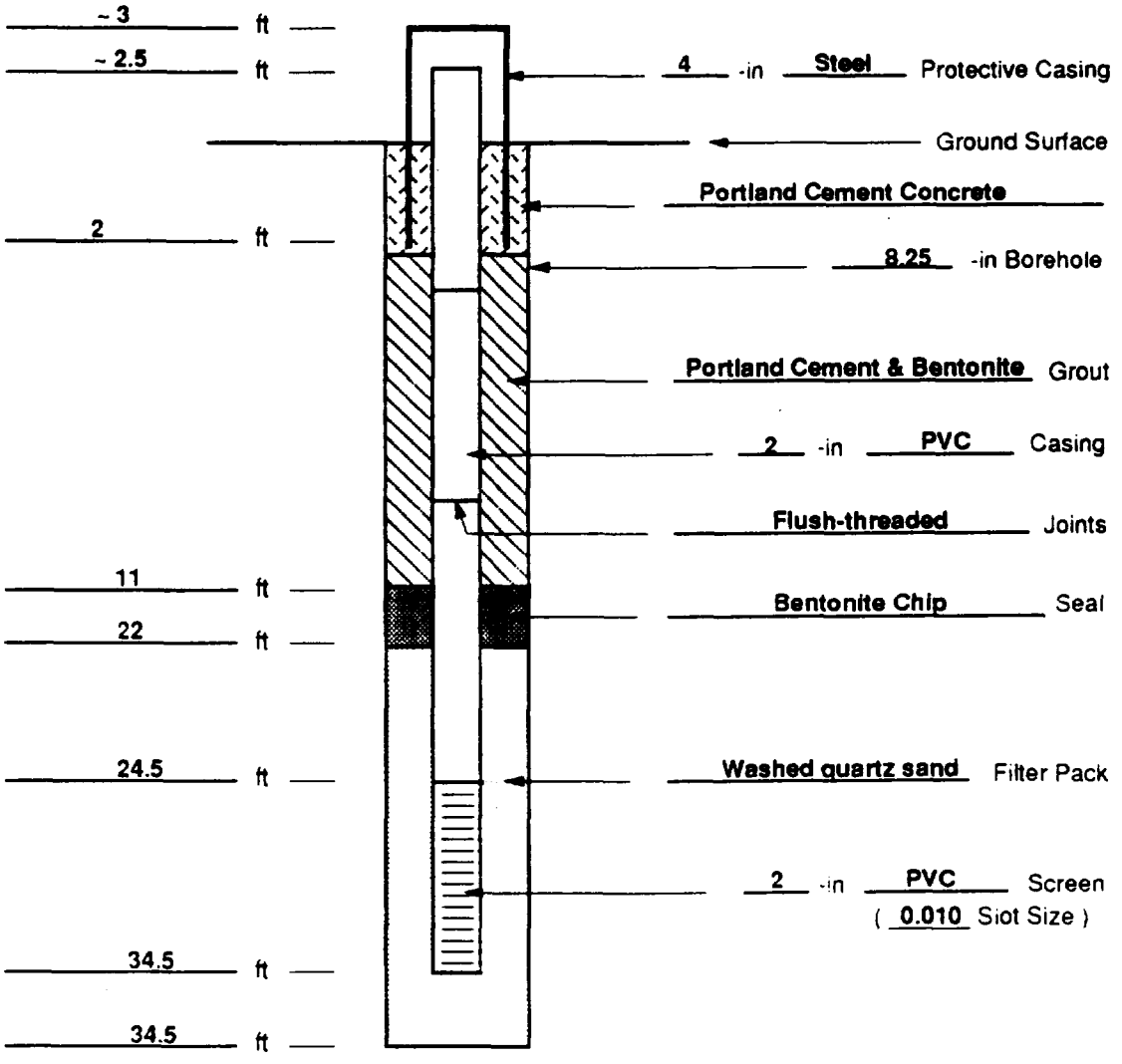
Well Construction Diagram

Project No. 60003.06
Well No. MW-101

General Information

Client: **Ohio EPA**	Well No.: **MW-101**
Site Location: **South Dayton Dump, Dayton, Ohio**	Date Completed: **April 5, 1996**
PSARA Geologist: **R. Stuck**	Drilling Method: **4.25-in. I.D. HSA/8.25 in.**
Drilling Contractor: **JEDI**	Depth to Static Water (ft): **15.10 (4/23/96)**

Construction Details



NOT TO SCALE

Ent'd by: SLW
Ck'd by: MES
Date: 6/4/96

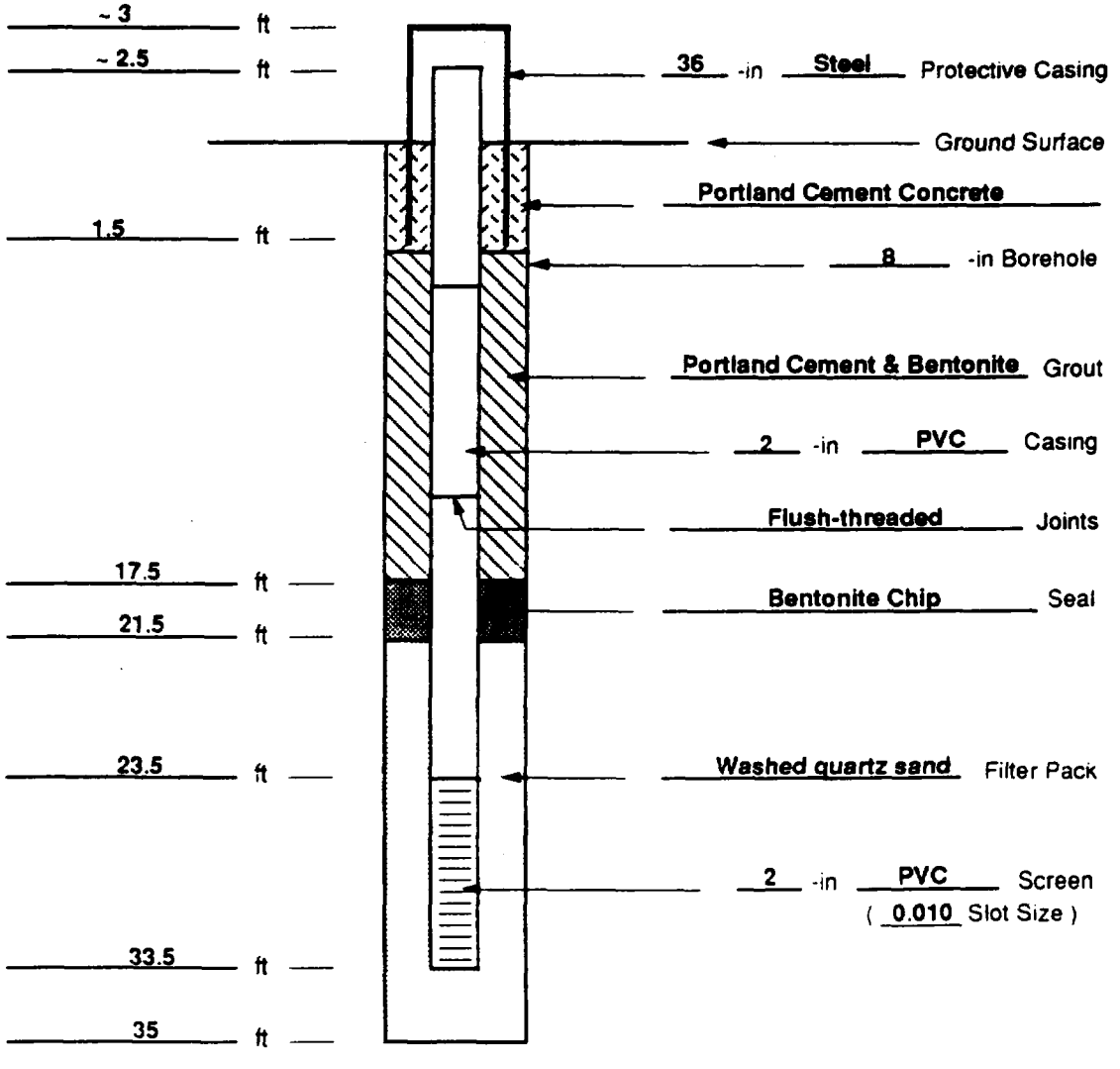
FORM NO 005.0

PSARA TECHNOLOGIES, INC.	Well Construction Diagram	Project No. 60003.06 Well No. MW-101A

General Information

Client: **Ohio EPA**	Well No.: **MW-101A**
Site Location: **South Dayton Dump, Dayton, Ohio**	Date Completed: **May 7, 1996**
PSARA Geologist: **R. Stuck**	Drilling Method: **4.25-in. I.D. HSA/8.25 in.**
Drilling Contractor: **JEDI**	Depth to Static Water (ft): **16**

Construction Details



NOT TO SCALE

Ent'd by: SLW
Ck'd by: MSS
Date: 6/4/96

FORM NO. 005 0

PSARA TECHNOLOGIES, INC.

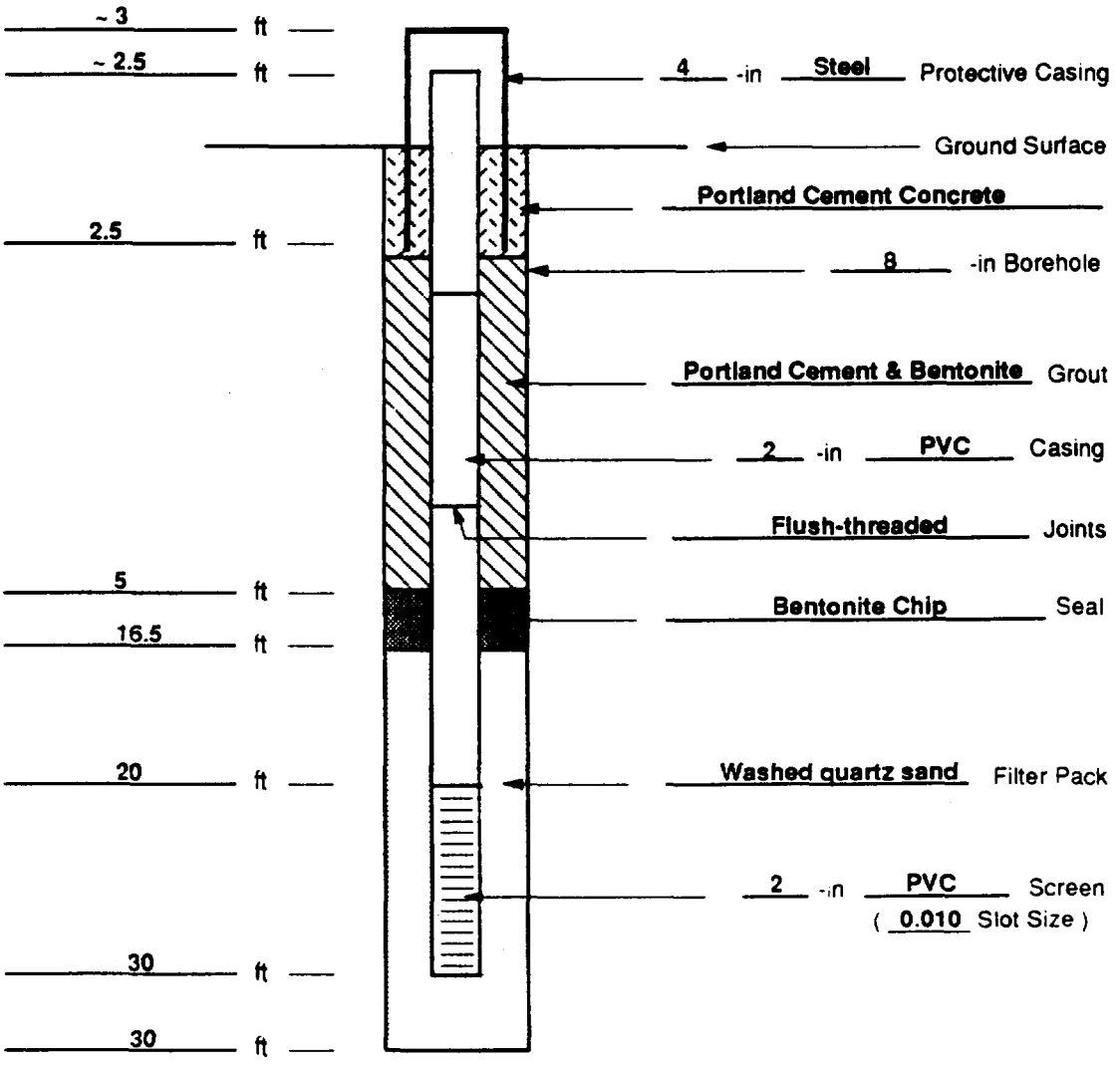
Well Construction Diagram

Project No 60003.06
Well No. MW-102

General Information

Client: **Ohio EPA**	Well No.: **MW-102**
Site Location: **South Dayton Dump, Dayton, Ohio**	Date Completed: **April 8, 1996**
PSARA Geologist: **R. Stuck**	Drilling Method: **4.25-in. I.D. HSA/8.25 in.**
Drilling Contractor: **JEDI**	Depth to Static Water (ft): **6.97 (4/23/96)**

Construction Details



NOT TO SCALE

Ent'd by: SLW
Ck'd by: MES
Date: 6/4/96

FORM NO. 005 0

PSARA TECHNOLOGIES, INC.

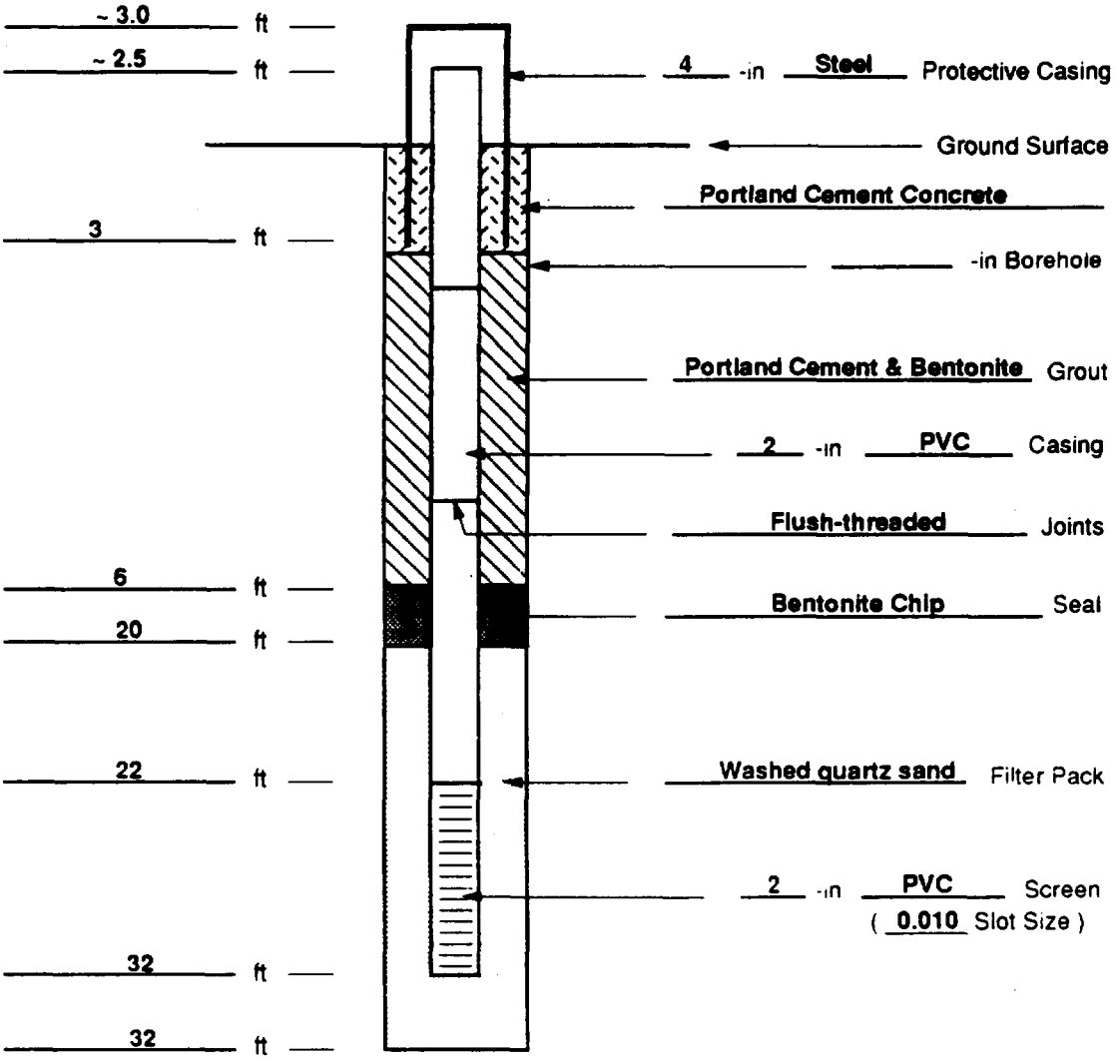
Well Construction Diagram

Project No. 60003.06
Well No. MW-103

General Information

Client: **Ohio EPA**	Well No.: **MW-103**
Site Location: **South Dayton Dump, Dayton, Ohio**	Date Completed: **April 9, 1996**
PSARA Geologist: **R. Stuck**	Drilling Method: **4.25-in. I.D. HSA/8.25 in.**
Drilling Contractor: **JEDI**	Depth to Static Water (ft): **5.80 (4/23/96)**

Construction Details



NOT TO SCALE

Ent'd by: SLW
Ck'd by: MS
Date: 6/4/96

FORM NO. 205.0

APPENDIX C

ODNR Well Logs and Drilling Reports

TYPE OR USE PEN
SELF TRANSCRIBING

Ohio Department of Natural Resources
Division of Water, 1939 Fountain Square Drive

COUNTY MONTGOMERY TOWNSHIP MIAMI

OWNER/BUILDER (Circle One and Print) South Dayton Dump PROPERTY ADDRESS (Address of well location) 1975 DRYDEN RD.

LOCATION OF PROPERTY DAYTON, OHIO Moraine, OH

CONSTRUCTION DETAILS

CASING (Length below ground) Borehole Diameter 9 7/8 in.
Diameter 2 in. Length 23 ft. Wall Thickness Sch 40 in.
Diameter ____ in. Length ____ ft. Wall Thickness ____ in.
Type: [1] Steel [2] Galv. [X] PVC [1] [2] Other
Joints: [X] Threaded [1] [2] Welded [1] [2] Solvent [1] [2] Other
Other: Length ____ Type ____ Wall Thickness ____ in.

SCREEN
Type (wire wrapped, louvered, etc.) ____ Material PVC
Length 10 ft. Diameter 2 in. Slot .010
Set between 32 ft. and 22 ft.

GROUT
Material Portland Cement
Method of installation TREMMIE
Depth: placed from ft. to ft.

GRAVEL PACK (Filter Pack)
Material #5 SAND Volume used 5 BAGS
Method of installation GRAVITY
Depth: placed from 32 ft. to 20 ft.

Pitless Device ☐ Adapter ☐ Pitless-adapted unit
Use of Well MONITOR
☐ Rotary ☐ Cable ☒ Augered ☐ Driven ☐ Dug ☐ Other
Date of Completion 4-9-96

WELL LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

MW #103

Show color, texture, hardness, and formation: sandstone, shale, limestone, gravel, clay, sand, etc.	From	To
GRAVEL BASE	0	2
Clay; Brown Silty Sandy	2	8
Clack to Grey Silty Clay	8	17
Clack to GREY SILTY CLAY-LESS SILTY	17	20
Brown SAND & GRAVEL w/Cobbles : WET	20	25
Brown Sand & GRAVEL w/Cobbles : WET	25	27
Brown Sand & GRAVEL w/Cobbles : WET	27	32
DEPTH 32'		
WATER ON RODS 20'		
WATER AT COMP. 18'		

WELL TEST

☐ Bailing ☐ Pumping* ☐ Other
Test rate NA gpm Duration of test hr
Drawdown
Measured from: ☐ top of casing ☐ ground level ☐ Other
Static Level (depth to water) ft. Date:
Quality (clear, cloudy, taste, odor)

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

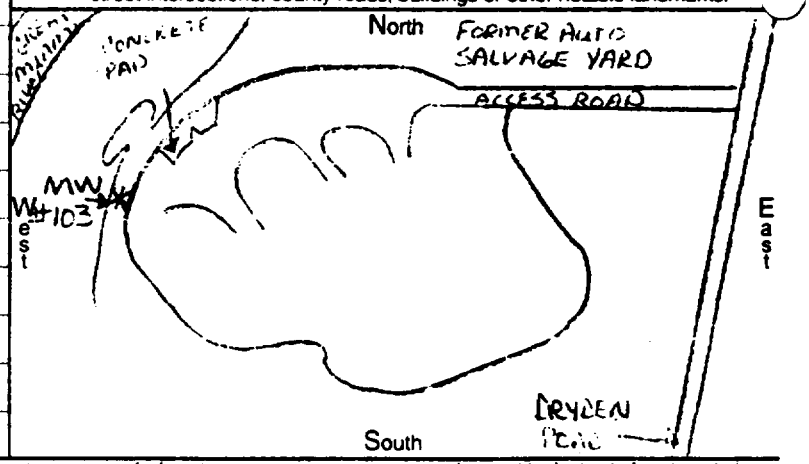
PUMP

Type of pump NA Capacity gpm
Pump set at ft.
Pump installed by

WELL LOCATION

Location of well in State Plane coordinates, if available:
Zone x y
Elevation of well ft./m. Datum plain: ☐NAD27 ☐NAD83
Source of coordinates: ☐GPS ☐Survey ☐Other

Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks.



(If additional space is needed to complete well log, use next consecutively numbered form.)

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm [illegible] Environmental Drilling
Signed
Address P.O. Box 130
Date 4-22-96
City, State, Zip [illegible]
ODH Registration Number

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.

ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 1939 FOUNTAIN SQ. DRIVE, COLS., OHIO 43224

Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

DWR 7502 46190

TYPE OR USE PEN
SELF TRANSCRIBING
PRESSURED

WELL LOG AND DRILLER'S REPORT

Ohio Department of Natural Resources
Divison of Water, 1939 Fountain Square Drive
Columbus, Ohio 43224; Phone (614) 265-6739

Permit Number

COUNTY MONTGOMERY TOWNSHIP MIAMI SECTION/LOT No. (Circle One)

OWNER/BUILDER (Circle One or Both) SOUTH DAYTON DUMP PROPERTY ADDRESS (Address of well location) 1975 NAD DRYDEN RD., MORAINE, OH
First Last Number Street City

LOCATION OF PROPERTY ~~DAYTON, OHIO~~ MORAINE, OHIO Zip Code

CONSTRUCTION DETAILS

CASING (Length below grade) Borehole Diameter 9 1/2 in.

Diameter 2 in. Length 23 ft. Wall Thickness Sch40 in.

Diameter ____ in. Length ____ ft. Wall Thickness ____ in.

Type: [1] Steel [1] Galv. [X] PVC [1] [2] Other ____

Joints: [X] Threaded [1] Welded [1] Solvent [1] [2] Other ____

Other: Length ____ Type ____ Wall Thickness ____ in.

SCREEN

Type (wire wrapped, louvered, etc.) ____ Material PVC

Length 10 ft. Diameter 2 in.

Set between 30 ft. and 20 ft. Slot .010

GROUT

Material Portland & BENT. Volume used 5 BAGS

Method of installation TRIMMIE

Depth: placed from 14 ft. to 1 ft.

GRAVEL PACK (Filter Pack)

Material #5 SAND Volume used 3 1/2 bags

Method of installation GRAVITY

Depth: placed from 30 ft. to 18 ft.

Pitless Device ☐ Adapter ☐ Preassembled unit.

Use of Well MONITOR

☐ Rotary ☐ Cable [X] Augered ☐ Driven ☐ Dug ☐ Other ____

Date of Completion 4-8-96

WELL LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Show color, texture, hardness, and formation: MW #102
sandstone, shale, limestone, gravel, clay, sand, etc.

From	To	
Brown Silty Clay w/GRAVEL	0	10
Brown Silty to Sandy wet clay	10	15
Sand & Gravel, coarse Gravel w/COBBLES	15	32

SOUTH 32'
WELL AT 32'
WATER ON ROCKS 15'
WATER AT TEMP, 10'

WELL TEST

☐ Bailing ☐ Pumping* ☐ Other ____

Test rate NA gpm Duration of test ____ hrs.

Drawdown ____ ft.

Measured from: ☐ top of casing ☐ ground level ☐ Other ____

Static Level (depth to water) ____ ft. Date: ____

Quality (clear, cloudy, taste, odor) ____

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

PUMP

Type of pump NA Capacity ____ gpm

Pump set at ____ ft.

Pump installed by ____

WELL LOCATION

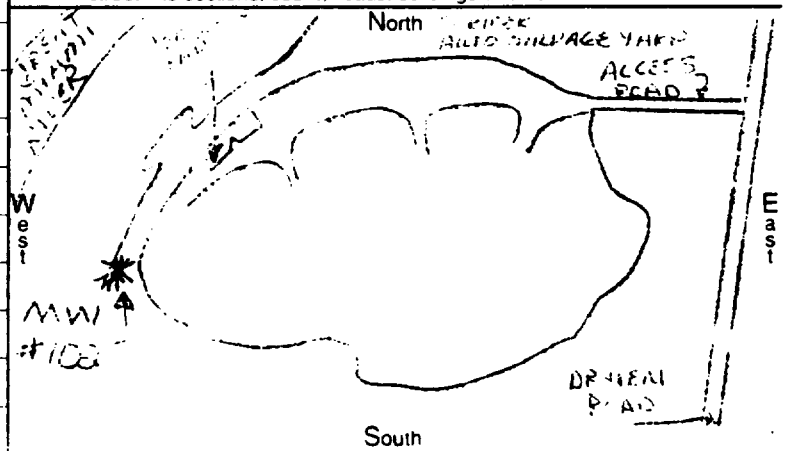
Location of well in State Plane coordinates, if available:

Zone ____ x ____ y ____

Elevation of well ____ ft./m. Datum plain: ☐ NAD27 ☐ NAD83

Source of coordinates: ☐ GPS ☐ Survey ☐ Other ____

Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks.



If additional space is needed to complete well log, use consecutively numbered form.

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm ____

Signed ____

Address ____

Date ____

City, State, Zip ____

ODH Registration Number ____

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.

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TYPE OR USE PEN
SELF TRANSCRIBING

Ohio Department of Natural Resources
Division of Water, 1939 Fountain Square Drive
Columbus, Ohio 43224 Phone (614) 265-6739

COUNTY MONTGOMERY TOWNSHIP MIAMI SECTION/LOT NO.

OWNER/BUILDER (Circle One or Both) South Dayton Dump PROPERTY ADDRESS (Address of well location) 1975 DRYDEN RD. MORAINE, OHIO
Plat Lot Number Street City

LOCATION OF PROPERTY ~~DAYTON, OHIO~~ MORAINE, OHIO

CONSTRUCTION DETAILS

CASING (Length below grade) Borehole Diameter 9 1/2 in.
Diameter 2 in. Length 23 ft. Wall Thickness Sch 40 in.
Diameter ____ in. Length ____ ft. Wall Thickness ____ in.
Type: [1] Steel [1] Galv. [X] PVC [1] [2] Other ____
Joints: [X] Threaded [1] Welded [1] Solvent [1] [2] Other ____
Other: Length ____ Type ____ Wall Thickness ____ in.

SCREEN
Type (wire wrapped, louvered, etc.) ____ Material PVC
Length 10 ft. Diameter 2 in.
Set between 34 ft. and 24 ft. Slot .010

GROUT
Material Portland CEMENT Volume used 6 BAGS
Method of installation TRIMMIE
Depth: placed from 20 ft. to 1 ft.

GRAVEL PACK (Filter Pack)
Material #5 SAND Volume used 3 1/2 BAGS
Method of installation GRAVITY
Depth: placed from 34 ft. to 32 ft.

Pitless Device ☐ Adapter ☐ Preassembled unit
Use of Well MONITOR
☐ Rotary ☐ Cable ☒ Augered ☐ Driven ☐ Dug ☐ Other ____
Date of Completion 4-5-96

WELL LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.
Show color, texture, hardness, and formation: sandstone, shale, limestone, gravel, clay, sand, etc.

MW# 101

From	To	
		Brown Silty SANDY CLAY
0	11	w/ GRAVEL
11	12	BOULDERS
		Brown Silty SANDY CLAY
12	29	w/GRAVEL : WET
		WET SANDY SILT, VERY FINE
29	38	GREY SAND

T.D. 38'
W.T. WELL AT 34'
WATER ON ROCKS 8'
WATER AT COMP. 6'

WELL TEST

☐ Bailing ☐ Pumping* ☐ Other ____
Test rate NA gpm Duration of test ____ hrs.
Drawdown ____
Measured from: ☐ top of casing ☐ ground level ☐ Other ____
Static Level (depth to water) ____ ft. Date: ____
Quality (clear, cloudy, taste, odor) ____

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

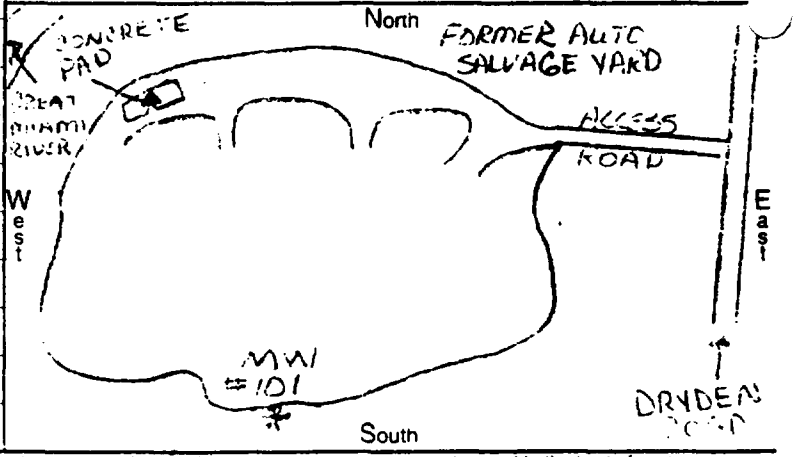
PUMP

Type of pump NA Capacity ____ gpm
Pump set at ____ ft.
Pump installed by ____

WELL LOCATION

Location of well in State Plane coordinates, if available:
Zone ____ x ____ y ____
Elevation of well ____ ft./m. Datum plain: ☐ NAD27 ☐ NAD83
Source of coordinates: ☐ GPS ☐ Survey ☐ Other ____

Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks.



* additional space is needed to complete well log, use next consecutively numbered form.)

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm [illegible] Signed [illegible]
Address [illegible] Date [illegible]
City, State, Zip [illegible] ODH Registration Number ____

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
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DNR 7602.3

TYPE OR USE PEN

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 1939 Fountain Square Drive
Columbus, Ohio 43224 Phone (614) 265-6739

COUNTY Montgomery TOWNSHIP Miami SECTION/LOT No. (Circle One)

OWNER/BUILDER (Circle One or Both) South Dayton Dump First Last PROPERTY ADDRESS (Address of well location) 1975 DRYDEN RD Number Street MORAINE City

LOCATION OF PROPERTY MORAINE, OHIO

CONSTRUCTION DETAILS

CASING *(Length below grade) Borehole Diameter 9 7/8 in.
Diameter 2 in. Length* 21 ft. Wall Thickness Sch 40 in.
Diameter ____ in. Length* ____ ft. Wall Thickness ____ in.
Type: [1] Steel [1] Galv. [X] PVC [1] [2] Other
Joints: [X] Threaded [1] Welded [1] Solvent [1] [2] Other
Other: Length ____ Type ____ Wall Thickness ____ in.

SCREEN
Type (wire wrapped, louvered, etc.) ____ Material PVC
Length 10 ft. Diameter 2 in.
Set between 21 ft. and 31 ft. Slot .010

GROUT
Material Holeplug Volume used 5 BAGS
Method of installation TRIMMIE
Depth: placed from ~~2~~ 17 ft. to 2 ft.

GRAVEL PACK (Filter Pack)
Material #5 SAND Volume used 3½ bags
Method of installation GRAVITY
Depth: placed from 31 ft. to ~~21~~ 19 ft.

Pitless Device ☐ Adapter ☐ Preassembled unit
Use of Well MONITOR
☐ Rotary ☐ Cable ☒ Augered ☐ Driven ☐ Dug ☐ Other
Date of Completion 5-7-96

WELL LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Show color, texture, hardness, and formation: sand, shale, limestone, gravel, clay, sand, etc. MW 1010	From	To
GRAVEL BASE	0	2
BROWN SILTY SANDY CLAY	2	8
GREY SILTY CLAY	8	17
BLACK TO GREY SILTY CLAY	17	20
BROWN SAND & GRAVEL w/COBBLES	20	25
BROWN SAND & GRAVEL	25	31

WELL TEST

☐ Bailing ☐ Pumping* ☐ Other
Test rate NA gpm Duration of test ____ hrs.
Drawdown ____ ft.
Measured from: ☐ top of casing ☐ ground level ☐ Other
Static Level (depth to water) ____ ft. Date:
Quality (clear, cloudy, taste, odor) ____

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

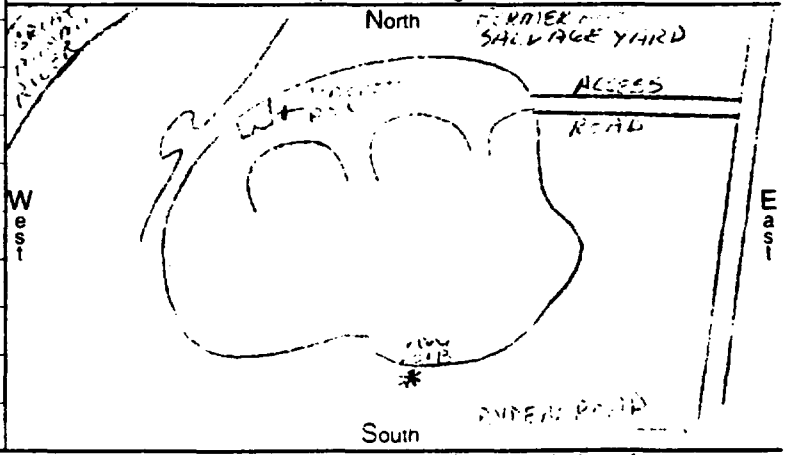
PUMP

Type of pump NA Capacity ____ gpm
Pump set at ____ ft.
Pump installed by ____

WELL LOCATION

Location of well in State Plane coordinates, if available:
Zone ____ x ____ y ____
Elevation of well ____ ft./m. Datum plain: ☐ NAD27 ☐ NAD83
Source of coordinates: ☐ GPS ☐ Survey ☐ Other

Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks.



(additional space is needed to complete well log, use next consecutively numbered form.)

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm ____ Signed ____
Address ____ Date ____
City, State, Zip ____ ODH Registration Number ____

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.

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DNR 5810.96

WATER WELL SEALING REPORT
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Water
1939 Fountain Square Drive
Columbus, Ohio 43224-9971
Voice: (614) 265-6739 Fax: (614) 447-9503

0100384

LOCATION

County Montgomery Township Miami Section/Lot Number (Circle One or Both)
Owner/Builder (Circle One or Both) South Dayton Dump
Address of Well Location 1975 (Number) DRYDEN ROAD (Street Name)
City MORAINE, OHIO Zip Code +4
½ miles W (n, e, s, w) of I-75 and Dryden (nearest intersection)
Property Location Description on the W (n, e, s, w) side of DRYDEN ROAD (road name)

Location of Well in State Plane Coordinates, if available N ☐ S ☐ X _____ ft. or m +/- _____ Y _____ ft. or m +/- _____
Elevation of Well _____ ft. or m +/- _____ Datum Plain: ☐ NAD27 ☐ NAD83
Source of Coordinates: ☐ GPS ☐ Survey ☐ Other

ORIGINAL WELL ODNR Well Log Number MW #101 Copy attached? (circle one) Yes or No

MEASURED CONSTRUCTION DETAILS Date of measurements 5-7-96

Depth of Well 34' Static Water Level 20'
Size of Casing 2" Length of casing 23'
Well Condition Good

SEALING PROCEDURE
Method of Placement GRAVITY

				Sealing Material	Volume
Placement:	From 34'	To 0'		BENTONITE CHIPS	50 GAL
	From	To			
	From	To			

Was Casing Removed? Yes or No (Circle one)
Condition of Casing Good
Perforations: From 1' To 23'
From To

Date Sealing Performed 5-7-96
Reason(s) for Sealing ABANDONED MONITOR WELL

CONTRACTOR
Name ODH Registration #
Address
City/State/Zip

Signature I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05 (B)(9), Ohio Revised Code - file within 30 days after completion of sealing.
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APPENDIX D

Well Development Logs

PSARA TECHNOLOGIES, INC.

Well Development Log

Project No. 60003.06
Well No. MW-101

General Information

Client: **Ohio EPA**	Well No.: **MW-101**
Site Location: **South Dayton Dump, Dayton, Ohio**	Date Developed: **April 23, 1996** Time: **0845** to **1430**
PSARA Technician(s): **S. Walton**	Weather: **Rain, 45-60°F**

Well Volume Calculations

Measuring Point: [X] Top of Casing [ ] Other:	Measurement Instr.: [ ] Tape [X] Electronic [ ] O/W Probe
Depth to Water (ft): D1 = **15.10**	Height of Water Column (ft): H = (D2 - D1) = **19.18**
Depth to Well Bottom (ft): D2 = **34.28**	Volume of Water in Well (gal): V = (H x F) = **3.13**
Product Present: [ ] Yes [X] No	Depth to Product (ft): **NA** Product Thickness (in): **NA**

2" well: F = 0.163 4" well: F = 0.651

Well Development Data

Well Volume	pH	Conductivity (µmho)	Temperature (°C)	Appearance / Odor
First Bailer	**8.84**	**400**	**11.0**	**Very silty, grey**
Volume No. 1	**8.61**	**514**	**10.8**	**Clearing**
Volume No. 2	**8.46**	**440**	**10.5**	**Silty, sandy - dry @ 3.5 gallons**
Volume No. 3	**7.51**	**617**	**8.3**	**Grey, silty, sandy**
Volume No. 4	**8.04**	**675**	**8.8**	**Grey, silty, sandy**
Volume No. 5	**7.71**	**699**	**9.2**	**Grey, silty, sandy**

Total Volume Purged (gal): **13** Well Purged Dry: [X] Yes [ ] No

Notes

	pH	Conductivity	Temperature	Appearance/Odor
Volume No. 6	**8.44**	**472**	**11.0**	**Clear**
Volume No. 7	**8.47**	**431**	**10.0**	**Light brown**
Volume No. 8	**8.48**	**385**	**10.0**	**Brownish**

- After first 3.5 gallons, let recharge for ~45 minutes up to 18 feet, then purged another volume.

- Return at 1135 - depth to water is 18.85. Well bottom at 36.13. Purged third well volume and half of a fourth volume before well purged dry.

- Depth to water 19.93 at 1345. Purged additional volume.

- Notice obstruction in well when attempt is made to purge additional volumes with bailer.

1930 leave site. Well undeveloped.

Ent'd by: DMW

4/24 Return to site and purge will volumes 6, 7, and 8

Ck'd by: MES

Date: 5/21/96

FORM NO. 303.0

PSARA TECHNOLOGIES, INC.

Well Development Log

Project No. 60003.06
Well No. MW-101A

General Information

Client: **Ohio EPA**	Well No.: **MW-101A**
Site Location: **South Dayton Dump, Dayton, Ohio**	Date Developed: **May 10, 1996** Time: **1100** to **1155**
PSARA Technician(s): **S. Walton**	Weather: **Sunny, 70°F**

Well Volume Calculations

Measuring Point: [X] Top of Casing [ ] Other:	Measurement Instr.: [ ] Tape [X] Electronic [ ] O/W Probe
Depth to Water (ft): D1 = **10.52**	Height of Water Column (ft): H = (D2 - D1) = **24.36**
Depth to Well Bottom (ft): D2 = **34.88**	Volume of Water in Well (gal): V = (H x F) = **3.97**
Product Present: [ ] Yes [X] No	Depth to Product (ft): **NA** Product Thickness (in): **NA**

2" well: F = 0.163 4" well: F = 0.651

Well Development Data

Well Volume	pH	Conductivity (µmho)	Temperature (°C)	Appearance / Odor
First Bailer	**7.93**	**300**	**17.2**	**Sandy, light brown; silty brown**
Volume No. 1	**7.92**	**700**	**14.2**	**Lighter, sandy, silty brown**
Volume No. 2	**7.93**	**600**	**16.6**	**Silty brown**
Volume No. 3	**7.90**	**1400**	**16.4**	**Silty brown**
Volume No. 4	**7.74**	**1022**	**18.3**	**Clearing; silty, light brown**
Volume No. 5	**7.74**	**1002**	**17.0**	**Clearing; silty, light brown**
Total Volume Purged (gal): **40**			Well Purged Dry: [ ] Yes [X] No	

Notes

	pH	Conductivity	Temperature	Appearance
Volume No. 6	7.86	1005	16.2	Clearing, silty light brown
Volume No. 7	7.75	1002	14.8	Clearing, silty light brown
Volume No. 8	7.78	950	17.4	Clearing, silty light brown
Volume No. 9	7.73	978	16.7	Clearing, silty light brown
Volume No. 10	7.80	927	17.5	Purge water is mostly clear

Pushed surge block to bottom, came up to 10' at 6" to 8" intervals, pushed back to bottom. Pulled up again and out at 6" to 8" intervals. Depth to bottom at 34.94' prior to bailing.

Bailed well. Recharge was instant. Stainless Steel bailer.

Water in drum. Leave on site.

Ent'd by: DMW
Ck'd by: MCS
Date: 5/23/96

FORM NO. 003.0

PSARA TECHNOLOGIES, INC.

Well Development Log

Project No. 60003.06
Well No: MW-102

General Information

Client: **Ohio EPA**	Well No.: **MW-102**
Site Location: **South Dayton Dump, Dayton, Ohio**	Date Developed: **April 23, 1996** Time: **1050** to **1130**
PSARA Technician(s): **S. Walton**	Weather: **50-60°F, rain.**

Well Volume Calculations

Measuring Point: [X] Top of Casing [ ] Other:	Measurement Instr.: [ ] Tape [X] Electronic [ ] O/W Probe
Depth to Water (ft): D1 = **6.97**	Height of Water Column (ft): H = (D2 - D1) = **24.99**
Depth to Well Bottom (ft): D2 = **31.96**	Volume of Water in Well (gal): V = (H x F) = **4.07**
Product Present: [ ] Yes [X] No	Depth to Product (ft): **NA** Product Thickness (in): **NA**

2" well: F = 0.163 4" well: F = 0.651

Well Development Data

Well Volume	pH	Conductivity (µmho)	Temperature (°C)	Appearance / Odor
First Bailer	**7.31**	**696**	**7.9**	**Silty, brown**
Volume No. 1	**7.25**	**707**	**8.6**	**Silty, brown**
Volume No. 2	**7.70**	**723**	**8.5**	**Silty, brown**
Volume No. 3	**7.55**	**711**	**9.1**	**Silty, brown**
Volume No. 4	**7.60**	**726**	**9.1**	**Clearing, silty after surging**
Volume No. 5	**7.56**	**745**	**9.3**	**Silty, surge**
Total Volume Purged (gal): **28**			Well Purged Dry: [ ] Yes [X] No	

Notes	pH	Conductivity	Temperature	Appearance
Volume No. 6	**7.51**	**741**	**9.2**	**Clearing**
Volume No. 7	**7.57**	**746**	**9.2**	**Clear**

Ent'd by: DMW
Ck'd by: MES
Date: 5/21/96

FORM NO. 003.0

PSARA TECHNOLOGIES, INC.

Well Development Log

Project No. 60003.06
Well No. MW-103

General Information

Client: **Ohio EPA**	Well No.: **MW-103**
Site Location: **South Dayton Dump, Dayton, Ohio**	Date Developed: **April 23, 1996** Time: **1000** to **1045**
PSARA Technician(s): **S. Walton**	Weather: **rain, 50-60°F**

Well Volume Calculations

Measuring Point: [X] Top of Casing [ ] Other:	Measurement Instr.: [ ] Tape [X] Electronic [ ] O/W Probe
Depth to Water (ft): D1 = **5.80**	Height of Water Column (ft): H = (D2 - D1) = **26.31**
Depth to Well Bottom (ft): D2 = **32.11**	Volume of Water in Well (gal): V = (H x F) = **4.29**
Product Present: [ ] Yes [X] No	Depth to Product (ft): **NA** Product Thickness (in): **NA**

2" well: F = 0.163 4" well: F = 0.651

Well Development Data

Well Volume	pH	Conductivity (µmho)	Temperature (°C)	Appearance / Odor
First Bailer	**8.2**	**420**	**8.0**	**Very silty brown**
Volume No. 1	**7.9**	**410**	**7.8**	**Very silty brown**
Volume No. 2	**7.9**	**430**	**7.9**	**Clearing**
Volume No. 3	**7.8**	**580**	**8.0**	**Silty**
Volume No. 4	**7.8**	**650**	**8.2**	**Silty**
Volume No. 5	**7.74**	**700**	**8.2**	**Silty**
Total Volume Purged (gal): **≈40**			Well Purged Dry: [ ] Yes [X] No	

Notes	pH	Conductivity	Temperature	Appearance
Volume No. 6	7.8	700	8.0	**Clearing**
Volume No. 7	7.8	700	8.7	**Clearing**
Volume No. 8	7.8	709	8.4	**Clear**

Ent'd by: DMW
Ck'd by: MES
Date: 5/21/96

FORM NO. 003.0

APPENDIX C:

COMPREHENSIVE ANALYTICAL RESULTS

Comprehensive Analytical Results - Soil Samples

SAMPLE NUMBERS	96-DV-03-S01	96-DV-03-S02	96-DV-03-S03	96-DV-03-D03	96-DV-03-S04	96-DV-03-S05	96-DV-03-S06	96-DV-03-S07	96-DV-03-S08	96-DV-03-S09
DATE SAMPLE COLLECTED	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96
TIME SAMPLE COLLECTED	10:10	11:10	11:30	11:30	2:05	16:00	18:00	14:45	15:30	16:30
SAMPLE DEPTH	4'-4'6"	0-1"	18"-26"	18"-26"	18"-26'	5'	18"-28"	0-2"	2-3"	3-6"
QA/QC DESCRIPTION (if applicable)				Field Duplicate				Background		

COMPOUND DETECTED (µg/kg)											
VOLATILE ORGANIC COMPOUNDS	CROL										
chloromethane	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
bromomethane	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
vinyl chloride	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
chloroethane	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
methylene chloride	10 µg/kg	12JBU	16BU	12JBU	12JBU	16JBU	12JBU	16JBU	11JBU	16	11JBU
acetone	10 µg/kg	12U	10U	12U	3J	16U	12U	16U	11U	11U	11U
carbon disulfide	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
1,1-dichloroethene	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
1,1-dichloroethane	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
1,2-dichlorothene (total)	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
chloroform	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
1,2-dichloroethane	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
2-butanone	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
1,1,1-trichloroethane	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
carbon tetrachloride	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
bromodichloromethane	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
1,2-dichloropropane	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
cis-1,3-dichloropropene	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
trichloroethene	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
dibromochloromethane	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
1,1,2-trichloroethane	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
benzene	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
trans-1,3-dichloropropene	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
bromoform	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
4-methyl-2-pentanone	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
2-hexanone	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
tetrachloroethene	10 µg/kg	59	10U	12U	12U	16U	12U	16U	11U	11U	11U
1,1,2,2-tetrachloroethane	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
toluene	10 µg/kg	12U	10U	7J	5J	16U	12U	16U	11U	10J	11U
chlorobenzene	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U

Comprehensive Analytical Results - Soil Samples

SAMPLE NUMBERS	96-DV-03-S10	96-DV-03-S11
DATE SAMPLE COLLECTED	7/09/96	7/09/96
TIME SAMPLE COLLECTED	17:20	17:00
SAMPLE DEPTH	0-4"	3-4"
QA/QC DESCRIPTION (if applicable)		

COMPOUND DETECTED (µg/kg)			
VOLATILE ORGANIC COMPOUNDS	CROL		
chloromethane	10 µg/kg	12U	11U
bromomethane	10 µg/kg	12U	11U
vinyl chloride	10 µg/kg	12U	11U
chloroethane	10 µg/kg	12U	11U
methylene chloride	10 µg/kg	12JBU	17BU
acetone	10 µg/kg	12U	11U
carbon disulfide	10 µg/kg	12U	11U
1,1-dichloroethene	10 µg/kg	12U	11U
1,1-dichloroethane	10 µg/kg	12U	11U
1,2-dichlorothene (total)	10 µg/kg	12U	11U
chloroform	10 µg/kg	12U	11U
1,2-dichloroethane	10 µg/kg	12U	11U
2-butanone	10 µg/kg	12U	11U
1,1,1-trichloroethane	10 µg/kg	12U	11U
carbon tetrachloride	10 µg/kg	12U	11U
bromodichloromethane	10 µg/kg	12U	11U
1,2-dichloropropane	10 µg/kg	12U	11U
cis-1,3-dichloropropene	10 µg/kg	12U	11U
trichloroethene	10 µg/kg	11J	11U
dibromochloromethane	10 µg/kg	12U	11U
1,1,2-trichloroethane	10 µg/kg	12U	11U
benzene	10 µg/kg	12U	11U
trans-1,3-dichloropropene	10 µg/kg	12U	11U
bromoform	10 µg/kg	12U	11U
4-methyl-2-pentanone	10 µg/kg	12U	11U
2-hexanone	10 µg/kg	12U	11U
tetrachloroethene	10 µg/kg	12U	11U
1,1,2,2-tetrachloroethane	10 µg/kg	12U	11U
toluene	10 µg/kg	4J	7J

Comprehensive Analytical Results - Soil Samples

SAMPLE NUMBERS		96-DV-03-S01	96-DV-03-S02	96-DV-03-S03	96-DV-03-D03	96-DV-03-S04	96-DV-03-S05	96-DV-03-S06	96-DV-03-S07	96-DV-03-S08	96-DV-03-S09
DATE SAMPLE COLLECTED		7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96
TIME SAMPLE COLLECTED		10:10	11:10	11:30	11:30	2:05	16:00	18:00	14:45	15:30	16:30
SAMPLE DEPTH		4'-4'6"	0-1"	18"-26"	18"-26"	18"-26'	5'	18"-28"	0-2"	2-3"	3-6"
QA/QC DESCRIPTION (if applicable)					Field Duplicate				Background		
ethyl benzene	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
styrene	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
xylene (Total)	10 µg/kg	12U	10U	12U	12U	16U	12U	16U	11U	11U	11U
SEMI-VOLATILE ORGANIC COMPOUNDS	**CRQL**										
phenol	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	64J
bis(2-chloroethyl)ether	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
2-chlorophenol	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
1,3-dichlorobenzene	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
1,4-dichlorobenzene	330 µg/kg	140J	340U	410U	410U	520U	380U	530U	380U	370U	350U
1,2-dichlorobenzene	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
2-methylphenol	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
4-methylphenol	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
n-nitroso-di-n-dipropylamine	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
hexachloroethane	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
nitrobenzene	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
isophorone	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
2-nitrophenol	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
2,4-dimethylphenol	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
bis(2-chloroethoxy)methane	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
2,4-dichlorophenol	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
1,2,4-trichlorobenzene	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
naphthalene	330 µg/kg	410U	20J	410U	410U	58J	380U	530U	380U	250J	35J
4-chloroaniline	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
hexachlorobutadiene	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
4-chloro-3-methylphenol	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
2-methylnaphthalene	330 µg/kg	410U	340U	410U	410U	77J	380U	530U	380U	390	49J

Comprehensive Analytical Results - Soil Samples

SAMPLE NUMBERS		96-DV-03-S10	96-DV-03-S11
DATE SAMPLE COLLECTED		7/09/96	7/09/96
TIME SAMPLE COLLECTED		17:20	17:00
SAMPLE DEPTH		0-4"	3-4"
QA/QC DESCRIPTION (if applicable)			
chlorobenzene	10 µg/kg	12U	11U
ethyl benzene	10 µg/kg	12U	11U
styrene	10 µg/kg	12U	11U
xylene (Total)	10 µg/kg	12U	11U
SEMI-VOLATILE ORGANIC COMPOUNDS	**CRQL**		
phenol	330 µg/kg	400U	360U
bis(2-chloroethyl)ether	330 µg/kg	400U	360U
2-chlorophenol	330 µg/kg	400U	360U
1,3-dichlorobenzene	330 µg/kg	400U	360U
1,4-dichlorobenzene	330 µg/kg	400U	360U
1,2-dichlorobenzene	330 µg/kg	400U	360U
2-methylphenol	330 µg/kg	400U	360U
4-methylphenol	330 µg/kg	400U	360U
n-nitroso-di-n-dipropylamine	330 µg/kg	400U	360U
hexachloroethane	330 µg/kg	400U	360U
nitrobenzene	330 µg/kg	400U	360U
isophorone	330 µg/kg	400U	360U
2-nitrophenol	330 µg/kg	400U	360U
2,4-dimethylphenol	330 µg/kg	400U	360U
bis(2-chloroethoxy)methane	330 µg/kg	400U	360U
2,4-dichlorophenol	330 µg/kg	400U	360U
1,2,4-trichlorobenzene	330 µg/kg	400U	360U
naphthalene	330 µg/kg	26J	59J
4-chloroaniline	330 µg/kg	400U	360U
hexachlorobutadiene	330 µg/kg	400U	360U
4-chloro-3-methylphenol	330 µg/kg	400U	360U
2-methylnaphthalene	330 µg/kg	46J	74J

Comprehensive Analytical Results - Soil Samples

SAMPLE NUMBERS	96-DV-03-S01	96-DV-03-S02	96-DV-03-S03	96-DV-03-D03	96-DV-03-S04	96-DV-03-S05	96-DV-03-S06	96-DV-03-S07	96-DV-03-S08	96-DV-03-S09
DATE SAMPLE COLLECTED	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96
TIME SAMPLE COLLECTED	10:10	11:10	11:30	11:30	2:05	16:00	18:00	14:45	15:30	16:30
SAMPLE DEPTH	4'-4'6"	0-1"	18"-26"	18"-26"	18"-26'	5'	18"-28"	0-2"	2-3"	3-6"
QA/QC DESCRIPTION (if applicable)				Field Duplicate				Background		

COMPOUND DETECTED (µg/kg)											
SEMI-VOLATILE ORGANIC COMPOUNDS	CRQL										
hexachlorocyclopentadiene	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
2,4,6-trichlorophenol	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
2,4,5-trichlorophenol	800 µg/kg	1000U	860U	1000U	1000U	1300U	960U	1300U	940U	920U	880U
2-chloronaphthalene	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
2-nitroaniline	800 µg/kg	1000U	860U	1000U	1000U	1300U	960U	1300U	940U	920U	880U
dimethylphthalate	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
acenaphthylene	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
2,6-dinitrotoluene	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
3-nitroaniline	330 µg/kg	1000U	860U	1000U	1000U	1300U	960U	1300U	940U	920U	880U
acenaphthene	330 µg/kg	410U	340U	410U	410U	33J	380U	530U	380U	91J	350U
2,4-dinitrophenol	800 µg/kg	1000U	860U	1000U	1000U	1300U	960U	1300U	940U	920U	880U
4-nitrophenol	800 µg/kg	1000U	860U	1000U	1000U	1300U	960U	1300U	940U	920U	880U
dibenzofuran	330 µg/kg	410U	340U	410U	410U	28J	380U	530U	380U	160J	350U
2,4-dinitrotoluene	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
diethylphthalate	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
4-chlorophenyl-phenyl ether	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
fluorene	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	87J	350U
4-nitroaniline	800 µg/kg	1000U	860U	1000U	1000U	1300U	960U	1300U	940U	920U	880U
4,6-dinitro-2-methylphenol	800 µg/kg	1000U	860U	1000U	1000U	1300U	960U	1300U	940U	920U	880U
n-nitrosodiphenylamine	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	27J	350U
4-bromophenyl-phenyl ether	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
hexachlorobenzene	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	370U	350U
pentachlorophenol	800 µg/kg	1000U	860U	1000U	1000U	1300U	960U	1300U	940U	920U	880U
phenanthrene	330 µg/kg	410U	340U	33J	34J	170J	21J	530U	63J	1700	180J
anthracene	330 µg/kg	410U	340U	410U	410U	29J	380U	530U	380U	290J	26J
di-n-butylphthalate	330 µg/kg	410U	18J	410U	27J	28J	380U	31J	28J	370U	1500
fluoranthene	330 µg/kg	410U	21J	410U	410U	140J	31J	530U	110J	2000	340J
pyrene	330 µg/kg	410U	20J	410U	410U	160J	30J	530U	130J	1900	320J

Comprehensive Analytical Results - Soil Samples

SAMPLE NUMBERS	96-DV-03-S10	96-DV-03-S11
DATE SAMPLE COLLECTED	7/09/96	7/09/96
TIME SAMPLE COLLECTED	17:20	17:00
SAMPLE DEPTH	0-4"	3-4"
QA/QC DESCRIPTION (if applicable)		

COMPOUND DETECTED (µg/kg)			
SEMI-VOLATILE ORGANIC COMPOUNDS	CRQL		
hexachlorocyclopentadiene	330 µg/kg	400U	360U
2,4,6-trichlorophenol	330 µg/kg	400U	360U
2,4,5-trichlorophenol	800 µg/kg	1000U	900U
2-chloronaphthalene	330 µg/kg	400U	360U
2-nitroaniline	800 µg/kg	1000U	900U
dimethylphthalate	330 µg/kg	400U	360U
acenaphthylene	330 µg/kg	400U	50J
2,6-dinitrotoluene	330 µg/kg	400U	360U
3-nitroaniline	330 µg/kg	1000U	900U
acenaphthene	330 µg/kg	400U	26J
2,4-dinitrophenol	800 µg/kg	1000U	900U
4-nitrophenol	800 µg/kg	1000U	900U
dibenzofuran	330 µg/kg	400U	29J
2,4-dinitrotoluene	330 µg/kg	400U	360U
diethylphthalate	330 µg/kg	400U	360U
4-chlorophenyl-phenyl ether	330 µg/kg	400U	360U
fluorene	330 µg/kg	400U	38J
4-nitroaniline	800 µg/kg	1000U	900U
4,6-dinitro-2-methylphenol	800 µg/kg	1000U	900U
n-nitrosodiphenylamine	330 µg/kg	400U	360U
4-bromophenyl-phenyl ether	330 µg/kg	400U	360U
hexachlorobenzene	330 µg/kg	400U	360U
pentachlorophenol	800 µg/kg	1000U	900U
phenanthrene	330 µg/kg	100J	570
anthracene	330 µg/kg	400U	97J
di-n-butylphthalate	330 µg/kg	35J	360U
fluoranthene	330 µg/kg	100J	1300
pyrene	330 µg/kg	120J	1600

Comprehensive Analytical Results - Soil Samples

SAMPLE NUMBERS	96-DV-03-S01	96-DV-03-S02	96-DV-03-S03	96-DV-03-D03	96-DV-03-S04	96-DV-03-S05	96-DV-03-S06	96-DV-03-S07	96-DV-03-S08	96-DV-03-S09
DATE SAMPLE COLLECTED	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96
TIME SAMPLE COLLECTED	10:10	11:10	11:30	11:30	2:05	16:00	18:00	14:45	15:30	16:30
SAMPLE DEPTH	4'-4'6"	0-1"	18"-26"	18"-26"	18"-26'	5'	18"-28"	0-2"	2-3"	3-6"
QA/QC DESCRIPTION (if applicable)				Field Duplicate				Background		
COMPOUND DETECTED (µg/kg)										
SEMI-VOLATILE ORGANIC COMPOUNDS	**CRQL**									
butylbenzylphthalate	330 µg/kg	410U	25J	410U	33J	520U	380U	530U	26J	370U	18000E
carbazole	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380J	280J	350U
benzo(a)anthracene	330 µg/kg	410U	340U	410U	410U	41J	380U	530U	58J	1100	180J
chrysene	330 µg/kg	410U	340U	21J	25J	56J	27J	530U	83J	1200	320J
bis(2-ethylhexyl)phthalate	330 µg/kg	24J	33J	410U	410U	540	380U	530U	32J	230J	2100
di-n-octylphthalate	330 µg/kg	410U	23J	410U	410U	520U	380U	530U	380U	19J	350U
benzo(b)fluoranthene	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	1000	320J
benzo(k)fluoranthene	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	950	200J
benzo(a)pyrene	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	62J	820	110J
indeno(1,2,3-cd)pyrene	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	48J	480	120J
dibenzo(a,h)anthracene	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	310J	350U
benzo(g,h,i)perylene	330 µg/kg	410U	340U	410U	410U	520U	380U	530U	380U	160J	350U
PESTICIDES/PCBs	**CRQL**										
alpha-BHC	1.7 µg/kg	2.1U	1.8U	2.1U	2.1U	2.6U	2.0U	2.7U	1.9U	0.71PJ	1.8U
beta-BHC	1.7 µg/kg	2.1U	1.8U	2.1U	2.1U	2.6U	2.0U	2.7U	1.9U	1.9U	1.8U
delta-BHC	1.7 µg/kg	2.1U	1.8U	2.1U	2.1U	2.6U	2.0U	2.7U	1.9U	1.9U	1.8U
gamma-BHC (Lindane)	1.7 µg/kg	2.1U	1.8U	2.1U	2.1U	2.6U	2.0U	2.7U	1.9U	1.8J	1.8U
heptachlor	1.7 µg/kg	2.1U	1.8U	2.1U	2.1U	2.6U	2.0U	2.7U	1.9U	1.9U	1.8U
aldrin	1.7 µg/kg	2.1U	1.8U	2.1U	2.1U	2.6U	2.0U	2.7U	1.9U	1.9U	1.8U
heptachlor epoxide	1.7 µg/kg	2.1U	1.8U	2.1U	0.49PJ	0.78PJ	2.0U	2.7U	1.9U	1.9U	1.8U
endosulfan I	1.7 µg/kg	2.1U	1.8U	2.1U	2.1U	2.6U	2.0U	2.7U	0.42PJ	1.9U	1.8U
dieldrin	3.3 µg/kg	4.1U	3.4U	4.1U	4.1U	5.2U	3.8U	5.3U	3.8U	3.7U	3.5U
4,4-DDE	3.3 µg/kg	4.1U	3.4U	4.1U	4.1U	2.6J	0.44PJ	5.3U	3.8U	2.4PJ	3.5U
endrin	3.3 µg/kg	1.4PJ	3.4U	2.3PJ	4.1U	5.2U	3.8U	5.3U	3.8U	3.7U	3.5U
endosulfan II	3.3 µg/kg	4.1U	3.4U	4.1U	4.1U	5.2U	3.8U	5.3U	1.4J	5.4	3.5U
4,4-DDD	3.3 µg/kg	4.1U	3.4U	4.1U	4.1U	5.2U	3.8U	5.3U	0.65J	3.7U	3.5U
endosulfan sulfate	3.3 µg/kg	4.1U	3.4U	4.1U	4.1U	5.2U	3.8U	5.3U	3.8U	3.7U	3.5U
4,4-DDT	3.3 µg/kg	0.60PJ	3.4U	4.1U	4.1U	5.2U	0.71PJ	5.3U	1.6PJ	8.8P	3.5U

C(prehensive Analytical Results - Soil(mples

SAMPLE NUMBERS	96-DV-03-S10	96-DV-03-S11
DATE SAMPLE COLLECTED	7/09/96	7/09/96
TIME SAMPLE COLLECTED	17:20	17:00
SAMPLE DEPTH	0-4"	3-4"
QA/QC DESCRIPTION (if applicable)		

COMPOUND DETECTED (µg/kg)			
SEMI-VOLATILE ORGANIC COMPOUNDS	CRQL		
butylbenzylphthalate	330 µg/kg	61J	360U
carbazole	330 µg/kg	400U	38J
benzo(a)anthracene	330 µg/kg	51J	950
chrysene	330 µg/kg	93J	1000
bis(2-ethylhexyl)phthalate	330 µg/kg	72J	120J
di-n-octylphthalate	330 µg/kg	400U	360U
benzo(b)fluoranthene	330 µg/kg	79J	1300
benzo(k)fluoranthene	330 µg/kg	73J	920
benzo(a)pyrene	330 µg/kg	400U	1000
indeno(1,2,3-cd)pyrene	330 µg/kg	400U	910
dibenzo(a,h)anthracene	330 µg/kg	400U	450
benzo(g,h,i)perylene	330 µg/kg	400U	310J

PESTICIDES/PCBs	CRQL		
alpha-BHC	1.7 µg/kg	2.1U	1.8U
beta-BHC	1.7 µg/kg	2.1U	1.8U
delta-BHC	1.7 µg/kg	2.1U	1.8U
gamma-BHC (Lindane)	1.7 µg/kg	0.77PJ	0.42J
heptachlor	1.7 µg/kg	2.1U	1.8U
aldrin	1.7 µg/kg	2.1U	1.8U
heptachlor epoxide	1.7 µg/kg	2.1U	1.8U
endosulfan I	1.7 µg/kg	2.1U	1.8U
dieldrin	3.3 µg/kg	4.0U	3.6U
4,4-DDE	3.3 µg/kg	4.0U	3.6U
endrin	3.3 µg/kg	4.0U	3.6U
endosulfan II	3.3 µg/kg	4.0U	3.6U
4,4-DDD	3.3 µg/kg	4.0U	4.4
endosulfan sulfate	3.3 µg/kg	4.0U	3.6U
4,4-DDT	3.3 µg/kg	4.0U	3.6U

Comprehensive Analytical Results - Soil Samples

SAMPLE NUMBERS	96-DV-03-S01	96-DV-03-S02	96-DV-03-S03	96-DV-03-D03	96-DV-03-S04	96-DV-03-S05	96-DV-03-S06	96-DV-03-S07	96-DV-03-S08	96-DV-03-S09
DATE SAMPLE COLLECTED	07/09/96	07/09/96	07/09/96	07/09/96	07/09/96	07/09/96	07/09/96	07/09/96	07/09/96	07/09/96
TIME SAMPLE COLLECTED	10:10	11:10	11:30	11:30	2:05	16:00	18:00	14:45	15:30	16:30
SAMPLE DEPTH	4'-4'6"	0-1"	18"-26"	18"-26"	18"-26'	5'	18"-28"	0-2"	2-3"	3-6"
QA/QC DESCRIPTION (if applicable)				Field Duplicate				Background		

COMPOUND DETECTED (µg/kg)											
PESTICIDES/PCBs	CROL										
methoxychlor	17 µg/kg	21U	18U	1.8PJ	21U	26U	0.94PJ	27U	19U	19U	18U
endrin ketone	3.3 µg/kg	4.1U	3.4U	4.1U	4.1U	5.2U	3.8U	5.3U	3.8U	3.7U	3.5U
endrin aldehyde	3.3 µg/kg	2.2PJ	3.4U	6.6	6.6P	5.2U	4.0P	5.3U	6.4P	3.7U	3.5U
alpha-chlordane	1.7 µg/kg	2.1U	1.8U	2.1U	2.1U	5.4P	2.0U	2.7U	1.9U	1.9U	1.8U
gamma-chlordane	1.7 µg/kg	2.1U	0.35PJ	2.1U	0.96PJ	4.3	2.0U	2.7U	1.9U	1.9U	1.8U
toxaphene	170 µg/kg	210U	180U	210U	210U	260U	200U	270U	190U	190U	180U
aroclor-1016	33 µg/kg	41U	34U	41U	41U	52U	38U	53U	38U	37U	35U
aroclor-1221	33 µg/kg	83U	69U	83U	84U	100U	78U	110U	76U	74U	71U
aroclor-1232	67 µg/kg	41U	34U	41U	41U	52U	38U	53U	38U	37U	35U
aroclor-1242	33 µg/kg	41U	34U	41U	41U	52U	38U	53U	38U	37U	35U
aroclor-1248	33 µg/kg	41U	34U	41U	41U	52U	38U	53U	38U	37U	35U
aroclor-1254	33 µg/kg	41U	34U	41U	41U	52U	38U	53U	38U	37U	830
aroclor-1260	33 µg/kg	41U	34U	41U	41U	52U	38U	53U	38U	37U	1200

TCL COMPOUND QUALIFIERS	DEFINITION
J	Indicates an estimated value.
U	Compound was analyzed for but not detected.
B	Compound is found in the associated blank as well as in the sample.
D	This flag indicates all compounds identified in an analysis at a secondary dilution factor.
E	This flag indentifies compounds whose concentrations exceed the calibration range of the GC/MS instrumet.
P	Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.

(nprehensive Analytical Results - Soi(,mples

SAMPLE NUMBERS	96-DV-03-S10	96-DV-03-S11
DATE SAMPLE COLLECTED	7/09/96	7/09/96
TIME SAMPLE COLLECTED	17:20	17:00
SAMPLE DEPTH	0-4"	3-4"
QA/QC DESCRIPTION (if applicable)		

COMPOUND DETECTED (µg/kg)			
PESTICIDES/PCBs	CRQL		
methoxychlor	17 µg/kg	21U	18U
endrin ketone	3.3 µg/kg	4.0U	7.5P
endrin aldehyde	3.3 µg/kg	4.0U	3.6U
alpha-chlordane	1.7 µg/kg	2.1U	1.8U
gamma-chlordane	1.7 µg/kg	2.1U	2.3P
toxaphene	170 µg/kg	210U	180U
aroclor-1016	33 µg/kg	40U	36U
aroclor-1221	33 µg/kg	82U	73U
aroclor-1232	67 µg/kg	40U	36U
aroclor-1242	33 µg/kg	40U	36U
aroclor-1248	33 µg/kg	40U	36U
aroclor-1254	33 µg/kg	170P	36U
aroclor-1260	33 µg/kg	40U	36U

TCL COMPOUND QUALIFIERS	DEFINITION
J	Indicates an estimated value.
U	Compound was analyzed for but not detected.
B	Compound is found in the associated blank as well as in the sample.
D	This flag indicates all compounds identified in an analysis at a secondary dilution factor.
E	This flag indentifies compounds whose concentrations exceed the calibration range of the GC/MS instrumet.
P	Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.

Comprehensive Analytical Results - Soil Samples

SAMPLE NUMBERS	96-DV-03-S01	96-DV-03-S02	96-DV-03-S03	96-DV-03-D03	96-DV-03-S04	96-DV-03-S05	96-DV-03-S06	96-DV-03-S07	96-DV-03-S08	96-DV-03-S09
DATE SAMPLE COLLECTED	07/09/96	07/09/96	07/09/96	07/09/96	07/09/96	07/09/96	07/09/96	07/09/96	07/09/96	07/09/96
TIME SAMPLE COLLECTED	10:10	11:10	11:30	11:30	2:05	16:00	18:00	14:45	15:30	16:30
SAMPLE DEPTH	4'-4'6"	0-1"	18"-26"	18"-26"	18"-26'	5'	18"-28"	0-2"	2-3"	3-6"
QA/QC DESCRIPTION (if applicable)				Field Duplicate				Background		
ANALYTE DETECTED (mg/kg)										
TAL METALS/CYANIDE	*CRDL*									
aluminum	40 mg/kg	3470	10400	1910	1140	5290	9920	6210	6890	14300	4970
antimony	12 mg/kg	0.75U	0.70B	0.74U	0.90U	1.0B	3.5B	1.0U	0.68U	278	2.9B
arsenic	2 mg/kg	20.7	77.2	1.6B	1.2U	27.0	12.2	49.7	6.0	141	36.0
barium	40 mg/kg	182	272	12.2B	7.2B	222	268	320	112	13000	824
beryllium	1 mg/kg	2.0	5.8	0.25U	0.30U	3.1	0.68B	3.3	0.62B	0.77B	2.6
cadmium	1 mg/kg	0.47B	6.6	0.43B	0.30U	0.38B	0.23U	0.33U	0.57B	0.69B	3.9
calcium	1000 mg/kg	4060	5650	995B	979B	16400	25500	2280	12900	5410	19800
chromium	2 mg/kg	5.5	23.6	17.6	8.5	14.0	12.6	16.5	17.3	62.0	50.7
cobalt	10 mg/kg	6.0B	16.2	2.0B	1.4B	9.6B	7.9B	8.7B	6.6B	17.5	11.2
copper	5 mg/kg	26.8	91.8	136	96.9	73.0	18.3	41.5	22.5	1830	1680
iron	20 mg/kg	3240	9430	24200	15900	5890	19200	3120	13200	59500	13800
lead	0.6 mg/kg	29.9	110	15.4	7.2	97.0	16.8	18.2	31.5	652	1990
magnesium	1000 mg/kg	1010B	1480	565B	560B	8070	13200	596B	6100	2480	18200
manganese	3 mg/kg	98.2	99.1	427	265	72.8	621	45.2	681	614	236
mercury	0.1 mg/kg	0.12U	0.48	0.12U	0.15U	0.14U	0.12U	0.17U	0.18	0.11U	0.21
nickel	8 mg/kg	10.4	34.6	18.7	11.3B	20.0	15.1	16.6	12.9	78.3	85.0
potassium	1000 mg/kg	611B	1390	126B	86B	810B	1010B	1230B	886B	1400	685B
selenium	1 mg/kg	1.3	8.8	0.99U	1.2U	6.3	0.93U	8.6	0.90U	2.1	2.8
silver	2 mg/kg	0.25U	0.21U	0.25U	0.30U	0.28U	0.23U	0.33U	0.45B	0.23B	0.90B
sodium	1000 mg/kg	276B	364B	327B	318B	448B	364B	406B	207B	254B	279B
thallium	2 mg/kg	1.0U	1.8B	2.1B	1.3B	1.7B	2.4	1.3U	2.2B	4.0	1.5B
vanadium	10 mg/kg	18.3	92.6	1.2B	0.62B	47.7	24.0	61.9	17.4	18.5	33.6
zinc	4 mg/kg	33.7	39.4	41.7	22.3	231	60.9	48.0	76.9	286	291
cyanide	2 mg/kg	0.27B	0.26B	0.19U	0.22U	0.34B	0.17U	0.29B	0.30B	2.3	3.7

TAL ANALYTE QUALIFIERS	DEFINITION
B	Value is real, but is above instrument detection limit and below contract-required detection limit.
U	Analyte was analyzed for but not detected.

(ıprehensive Analytical Results - Soi(.mples

SAMPLE NUMBERS	96-DV-03-S10	96-DV-03-S11
DATE SAMPLE COLLECTED	7/09/96	7/09/96
TIME SAMPLE COLLECTED	17:20	17:00
SAMPLE DEPTH	0-4"	3-4"
QA/QC DESCRIPTION (if applicable)		

ANALYTE DETECTED (mg/kg)			
TAL METALS/CYANIDE	*CRDL*		
aluminum	40 mg/kg	8080	3290
antimony	12 mg/kg	8.4B	2.1B
arsenic	2 mg/kg	15.4	6.6
barium	40 mg/kg	318	93.8
beryllium	1 mg/kg	1.9	1.1B
cadmium	1 mg/kg	16.3	1.4
calcium	1000 mg/kg	48800	98000
chromium	2 mg/kg	43.2	18.7
cobalt	10 mg/kg	13.8	4.3B
copper	5 mg/kg	191000	405
iron	20 mg/kg	92300	16000
lead	0.6 mg/kg	12100	242
magnesium	1000 mg/kg	8860	36200
manganese	3 mg/kg	693	344
mercury	0.1 mg/kg	0.13U	0.11U
nickel	8 mg/kg	139	24.2
potassium	1000 mg/kg	763B	599B
selenium	1 mg/kg	2.6	0.93B
silver	2 mg/kg	7.6	0.22U
sodium	1000 mg/kg	809B	368B
thallium	2 mg/kg	4.5	1.3B
vanadium	10 mg/kg	28.1	15.6
zinc	4 mg/kg	11500	159
cyanide	2 mg/kg	0.60B	0.55

TAL ANALYTE QUALIFIERS	DEFINITION
B	Value is real, but is above instrument detection limit and below contract-required detection limit.
U	Analyte was analyzed for but not detected.

Comprehensive Analytical Results - Sediment Samples

SAMPLE NUMBERS	96-DV-03-S15	96-DV-03-S16	96-DV-03-S17	96-DV-03-D17	96-DV-03-S18	96-DV-03-S19
DATE SAMPLE COLLECTED	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96
TIME SAMPLE COLLECTED	10:30	11:00	15:15	15:15	14:45	15:45
SAMPLE DEPTH	15'-18'	15'-18'	0-6"	0-6"	0-6"	0-6"
QA/QC DESCRIPTION (if applicable)				Field Duplicate		Background
COMPOUND DETECTED (µg/kg)						
VOLATILE ORGANIC COMPOUNDS	**CROL**					
chloromethane	10 µg/kg	26U	29U	15U	14U	18U	18U
bromomethane	10 µg/kg	26U	29U	15U	14U	18U	18U
vinyl chloride	10 µg/kg	26U	29U	15U	14U	18U	18U
chloroethane	10 µg/kg	26U	29U	15U	14U	18U	18U
methylene chloride	10 µg/kg	26BJU	29BJU	15BJU	14BJU	18BJU	18BJU
acetone	10 µg/kg	47	43	15U	14U	33	19
carbon disulfide	10 µg/kg	26U	29U	15U	14U	18U	18U
1,1-dichloroethene	10 µg/kg	26U	29U	15U	14U	18U	18U
1,1-dichloroethane	10 µg/kg	26U	29U	15U	14U	18U	18U
1,2-dichlorothene (total)	10 µg/kg	26U	29U	15U	14U	18U	18U
chloroform	10 µg/kg	26U	29U	15U	14U	18U	18U
1,2-dichloroethane	10 µg/kg	26U	29U	15U	14U	18U	18U
2-butanone	10 µg/kg	26U	10J	15U	14U	5J	18U
1,1,1-trichloroethane	10 µg/kg	26U	29U	15U	14U	18U	18U
carbon tetrachloride	10 µg/kg	26U	29U	15U	14U	18U	18U
bromodichloromethane	10 µg/kg	26U	29U	15U	14U	18U	18U
1,2-dichloropropane	10 µg/kg	26U	29U	15U	14U	18U	18U
cis-1,3-dichloropropene	10 µg/kg	26U	29U	15U	14U	18U	18U
trichloroethene	10 µg/kg	0.8J	29U	0.7J	14U	18U	18U
dibromochloromethane	10 µg/kg	26U	29U	15U	14U	18U	18U
1,1,2-trichloroethane	10 µg/kg	26U	29U	15U	14U	18U	18U
benzene	10 µg/kg	26U	29U	15U	14U	18U	18U
trans-1,3-dichloropropene	10 µg/kg	26U	29U	15U	14U	18U	18U
bromoform	10 µg/kg	26U	29U	15U	14U	18U	18U
4-methyl-2-pentanone	10 µg/kg	26U	29U	15U	14U	18U	18U
2-hexanone	10 µg/kg	26U	29U	15U	14U	18U	18U
tetrachloroethene	10 µg/kg	26U	29U	15U	14U	18U	18U
1,1,2,2-tetrachloroethane	10 µg/kg	26U	29U	15U	14U	18U	18U
toluene	10 µg/kg	26U	29U	15U	14U	18U	1J

Comprehensive Analytical Results - Sediment Samples

SAMPLE NUMBERS	96-DV-03-S15	96-DV-03-S16	96-DV-03-S17	96-DV-03-D17	96-DV-03-S18	96-DV-03-S19				
DATE SAMPLE COLLECTED	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96				
TIME SAMPLE COLLECTED	10:30	11:00	15:15	15:15	14:45	15:45				
SAMPLE DEPTH	15'-18'	15'-18'	0-6"	0-6"	0-6"	0-6"				
QA/QC DESCRIPTION (if applicable)				Field Duplicate		Background				
COMPOUND DETECTED (µg/kg)										
VOLATILE ORGANIC COMPOUNDS	**CRQL**									
chlorobenzene	10 µg/kg	26U	29U	15U	14U	18U	18U			
ethyl benzene	10 µg/kg	26U	29U	15U	14U	18U	18U			
styrene	10 µg/kg	26U	29U	15U	14U	18U	18U			
xylene (total)	10 µg/kg	26U	29U	15U	14U	18U	18U			
SEMI-VOLATILE ORGANIC COMPOUNDS	**CRQL**									
phenol	330 µg/kg	850U	940U	500U	460U	580U	600U			
bis(2-chloroethyl)ether	330 µg/kg	850U	940U	500U	460U	580U	600U			
2-chlorophenol	330 µg/kg	850U	940U	500U	460U	580U	600U			
1,3-dichlorobenzene	330 µg/kg	850U	940U	500U	460U	580U	600U			
1,4-dichlorobenzene	330 µg/kg	850U	940U	500U	460U	580U	600U			
1,2-dichlorobenzene	330 µg/kg	850U	940U	500U	460U	580U	600U			
2-methylphenol	330 µg/kg	850U	940U	500U	460U	580U	600U			
2,2-oxybis(1-chloropropane)	330 µg/kg	850U	940U	500U	460U	580U	600U			
4-methylphenol	330 µg/kg	850U	940U	500U	460U	580U	600U			
n-nitroso-di-n-diproprylamine	330 µg/kg	850U	940U	500U	460U	580U	600U			
hexachloroethane	330 µg/kg	850U	940U	500U	460U	580U	600U			
nitrobenzene	330 µg/kg	850U	940U	500U	460U	580U	600U			
isophorone	330 µg/kg	850U	940U	500U	460U	580U	600U			
2-nitrophenol	330 µg/kg	850U	940U	500U	460U	580U	600U			
2,4-dimethylphenol	330 µg/kg	850U	940U	500U	460U	580U	600U			
bis(2-chloroethoxy)methane	330 µg/kg	850U	940U	500U	460U	580U	600U			
2,4-dichlorophenol	330 µg/kg	850U	940U	500U	460U	580U	600U			
1,2,4-trichlorobenzene	330 µg/kg	850U	940U	500U	460U	580U	600U			
naphthalene	330 µg/kg	70J	77J	31J	25J	18J	63J			
4-chloroaniline	330 µg/kg	850U	940U	500U	460U	580U	600U			
hexachlorobutadiene	330 µg/kg	850U	940U	500U	460U	580U	600U			
4-chloro-3-methylphenol	330 µg/kg	850U	940U	500U	460U	580U	600U			
2-methylnaphthalene	330 µg/kg	120J	75J	23J	19J	16J	31J			

Comprehensive Analytical Results - Sediment Samples

SAMPLE NUMBERS		96-DV-03-S15	96-DV-03-S16	96-DV-03-S17	96-DV-03-D17	96-DV-03-S18	96-DV-03-S19
DATE SAMPLE COLLECTED		7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96
TIME SAMPLE COLLECTED		10:30	11:00	15:15	15:15	14:45	15:45
SAMPLE DEPTH		15'-18'	15'-18'	0-6"	0-6"	0-6"	0-6"
QA/QC DESCRIPTION (if applicable)					Field Duplicate		Background
COMPOUND DETECTED (µg/kg)							
SEMI-VOLATILE ORGANIC COMPOUNDS	**CRQL**						
hexachlorocyclopentadiene	330 µg/kg	850U	940U	500U	460U	580U	600U
2,4,6-trichlorophenol	330 µg/kg	850U	940U	500U	460U	580U	600U
2,4,5-trichlorophenol	800 µg/kg	2100U	2400U	1300U	1200U	1500U	1500U
2-chloronaphthalene	330 µg/kg	850U	940U	500U	460U	580U	600U
2-nitroaniline	800 µg/kg	2100U	2400U	1300U	1200U	1500U	1500U
dimethylphthalate	330 µg/kg	850U	940U	500U	460U	580U	600U
acenaphthylene	330 µg/kg	850U	61J	160J	150J	14J	22J
2,6-dinitrotoluene	330 µg/kg	850U	940U	500U	460U	580U	600U
3-nitroaniline	330 µg/kg	2100U	2400U	1300U	1200U	1500U	1500U
acenaphthene	330 µg/kg	59J	92J	21J	15J	40J	89J
2,4-dinitrophenol	800 µg/kg	2100U	2400U	1300U	1200U	1500U	1500U
4-nitrphenol	800 µg/kg	2100U	2400U	1300U	1200U	1500U	1500U
dibenzofuran	330 µg/kg	70J	95J	11J	7J	34J	100J
2,4-dinitrotoluene	330 µg/kg	850U	940U	500U	460U	580U	600U
diethylphthalate	330 µg/kg	850U	39J	24J	27J	51J	33J
4-chlorophenyl-phenyl ether	330 µg/kg	850U	940U	500U	460U	580U	600U
fluorene	330 µg/kg	76J	160J	53J	43J	60J	130J
4-nitroaniline	800 µg/kg	2100U	2400U	1300U	1200U	1500U	1500U
4,6-dinitro-2-methylphenol	800 µg/kg	2100U	2400U	1300U	1200U	1500U	1500U
n-nitrosodiphenylamine	330 µg/kg	850U	940U	500U	460U	580U	600U
4-bromophenyl-phenyl ether	330 µg/kg	850U	940U	500U	460U	580U	600U
hexachlorobenzene	330 µg/kg	850U	940U	500U	460U	580U	600U
pentachlorophenol	800 µg/kg	2100U	2400U	1300U	1200U	1500U	1500U
phenanthrene	330 µg/kg	890	1500	700	610	830	1900
anthracene	330 µg/kg	110J	230J	400J	390J	75J	170J
carbazole	330 µg/kg	85J	110J	20J	15J	84J	190J
di-n-butylphthalate	330 µg/kg	850BJU	940BJU	500BJU	460BJU	580BJU	600BJU
fluoranthene	330 µg/kg	1100	2600	2000	2000	1400	2200
pyrene	330 µg/kg	1300	3000	4700E	3700E	1400	2700

Co(:ehensive Analytical Results - Sedim(Samples

SAMPLE NUMBERS	96-DV-03-S15	96-DV-03-S16	96-DV-03-S17	96-DV-03-D17	96-DV-03-S18	96-DV-03-S19				
DATE SAMPLE COLLECTED	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96				
TIME SAMPLE COLLECTED	10:30	11:00	15:15	15:15	14:45	15:45				
SAMPLE DEPTH	15'-18'	15'-18'	0-6"	0-6"	0-6"	0-6"				
QA/QC DESCRIPTION (if applicable)				Field Duplicate		Background				
COMPOUND DETECTED (µg/kg)										
SEMI-VOLATILE ORGANIC COMPOUNDS	**CRQL**									
butylbenzylphthalate	330 µg/kg	850U	940U	500U	460U	580U	84J				
3,3-dichlorobenzidine	330 µg/kg	850U	940U	500U	460U	580U	600U				
benzo(a)anthracene	330 µg/kg	490J	1500	2200	2100	600	1300				
chrysene	330 µg/kg	550J	1500	2500	2100	710	1500				
bis(2-ethylhexyl)phthalate	330 µg/kg	850U	470J	500U	84J	330J	360J				
di-n-octylphthalate	330 µg/kg	850U	940U	500U	460U	580U	600U				
benzo(b)fluoranthene	330 µg/kg	800J	2500	2700	2300	1000	1800				
benzo(k)fluoranthene	330 µg/kg	300J	950	930	930	410J	690				
benzo(a)pyrene	330 µg/kg	460J	1800	2100	2100	580	1100				
indeno(1,2,3-cd)pyrene	330 µg/kg	460J	1900	1900	1400	650	1400				
dibenzo(a,h)anthracene	330 µg/kg	120J	480J	430J	320J	150J	310J				
benzo(g,h,i)perylene	330 µg/kg	490J	2000	2200	1600	660	1400				
PESTICIDES/PCBs	**CRQL**									
alpha-BHC	1.7 µg/kg	4.5U	4.9U	2.6U	2.4U	3.0U	3.1U				
beta-BHC	1.7 µg/kg	4.5U	4.9U	2.6U	2.4U	3.0U	3.1U				
delta-BHC	1.7 µg/kg	4.5U	4.9U	1.4JP	1.5JP	3.0U	3.1U				
gamma-BHC (Lindane)	1.7 µg/kg	4.5U	4.9U	2.6U	2.4U	3.0U	3.1U				
heptachlor	1.7 µg/kg	4.5U	4.9U	2.6U	2.4U	3.0U	3.1U				
aldrin	1.7 µg/kg	4.5U	4.9U	2.6U	2.4U	3.0U	1.3JP				
heptachlor epoxide	1.7 µg/kg	4.5U	4.9U	2.6U	2.4U	3.0U	3.1U				
endosulfan I	1.7 µg/kg	4.5U	4.9U	2.6U	2.4U	3.0U	3.1U				
dieldrin	3.3 µg/kg	9.6P	2.6JP	0.86JP	4.6U	2.5JP	4.0JP				
4,4-DDE	3.3 µg/kg	8.7U	2.2JP	5.0U	4.6U	2.6JP	2.4JP				
endrin	3.3 µg/kg	34	9.4U	3.4JP	4.8P	2.4JP	6.0U				
endosulfan II	3.3 µg/kg	8.7U	9.4U	5.0U	4.6U	5.8U	6.0U				
4,4-DDD	3.3 µg/kg	1.7JP	9.4U	2.2JP	4.9	3.4JP	3.6JP				
endosulfan sulfate	3.3 µg/kg	3.7JP	9.4U	5.0U	4.6U	3.0JP	6.0U				
4,4-DDT	3.3 µg/kg	4.4JP	2.4JP	2.1JP	2.2JP	2.7JP	2.3JP				

Comprehensive Analytical Results - Sediment Samples

	96-DV-03-S15	96-DV-03-S16	96-DV-03-S17	96-DV-03-D17	96-DV-03-S18	96-DV-03-S19
DATE SAMPLE COLLECTED	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96
TIME SAMPLE COLLECTED	10:30	11:00	15:15	15:15	14:45	15:45
SAMPLE DEPTH	15'-18'	15'-18'	0-6"	0-6"	0-6"	0-6"
QA/QC DESCRIPTION (if applicable)				Field Duplicate		Background

COMPOUND DETECTED (µg/kg)							
PESTICIDES/PCBs	**CROL**						
methoxychlor	17 µg/kg	18J	17JP	50	65	8.9JP	12JP
endrin ketone	3.3 µg/kg	8.7U	4.9J	3.2JP	4.0JP	5.8U	2.5JP
endrin aldehyde	3.3 µg/kg	7.9JP	9.4U	5.0U	4.6U	5.8U	6.0U
alpha-chlordane	1.7 µg/kg	12	1.8JP	0.72JP	2.4U	7.0P	6.6P
gamma-chlordane	1.7 µg/kg	4.9P	3.2J	1.4J	2.4U	6.9	5.6P
toxaphene	170 µg/kg	450U	490U	260U	240U	300U	310U
aroclor-1016	33 µg/kg	87U	94U	50U	46U	58U	60U
aroclor-1221	33 µg/kg	180U	190U	100U	93U	120U	120U
aroclor-1232	67 µg/kg	87U	94U	50U	46U	58U	60U
aroclor-1242	33 µg/kg	87U	94U	50U	46U	58U	60U
aroclor-1248	33 µg/kg	87U	94U	50U	46U	58U	60U
aroclor-1254	33 µg/kg	660	94U	50U	46U	58U	60U
aroclor-1260	33 µg/kg	87U	94U	50U	46U	58U	60U

TCL COMPOUND QUALIFIERS	DEFINITION
J	Indicates an estimated value.
U	Compound was analyzed for but not detected.
B	Compound is found in the associated blank as well as in the sample.
D	This flag indicates all compounds identified in an analysis at a secondary dilution factor.
E	This flag indentifies compounds whose concentrations exceed the calibration range of the GC/MS instrumet.
P	Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.

Comprehensive Analytical Results - Sediment Samples

	96-DV-03-S15	96-DV-03-S16	96-DV-03-S17	96-DV-03-D17	96-DV-03-S18	96-DV-03-S19				
DATE SAMPLE COLLECTED	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96				
TIME SAMPLE COLLECTED	10:30	11:00	15:15	15:15	14:45	15:45				
SAMPLE DEPTH	15'-18'	15'-18'	0-6"	0-6"	0-6"	0-6"				
QA/QC DESCRIPTION (if applicable)				Field Duplicate		Background				
ANALYTE DETECTED (mg/kg)										
TAL METALS/CYANIDE	***CRDL***									
aluminum	40 mg/kg	2750	6590	9750	8450	8940	8600				
antimony	12 mg/kg	9.1U	13.5U	7.9U	8.1U	10U	10.1U				
arsenic	2 mg/kg	10.3	12.6	9.2	9.2	6.0	9				
barium	40 mg/kg	73.0	137	128	125	117	130				
beryllium	1 mg/kg	0.28B	0.35B	0.54B	0.48B	0.5B	0.47B				
cadmium	1 mg/kg	1.0U	1.5U	0.89U	0.91U	1.1U	1.1U				
calcium	1000 mg/kg	53600	11800	61700	58100	81900	74900				
chromium	2 mg/kg	23.1	17.2	14.9	13.7	18	22.3				
cobalt	10 mg/kg	3.7B	6.7B	6.6B	6.2B	6.5B	7.2B				
copper	5 mg/kg	29.3	24.7	29.3	29.0	26	33.5				
iron	20 mg/kg	11300	13500	16400	15500	15000	15800				
lead	0.6 mg/kg	33.7	42.0	51.6	47.2	30.5	47.9				
magnesium	1000 mg/kg	13600	21600	17200	16100	24200	20600				
manganese	3 mg/kg	205	545	299	258	330	420				
mercury	0.1 mg/kg	0.08U	0.12U	0.63	0.65	0.09U	0.13B				
nickel	8 mg/kg	13.4	18.7B	16.2	17.9	19.9	23.7				
potassium	1000 mg/kg	297B	736B	812B	709B	1090B	991B				
selenium	1 mg/kg	1.1B	0.59B	0.4B	0.59B	0.73B	0.59B				
silver	2 mg/kg	1.4U	2.1U	1.2U	1.2U	1.5U	1.5U				
sodium	1000 mg/kg	165B	206B	144B	131B	191B	183B				
thallium	2 mg/kg	0.68B	0.98U	1.0B	0.66B	0.84B	0.9B				
vanadium	10 mg/kg	9.6B	16.8B	21.8	19.2	20.2	20				
zinc	4 mg/kg	80.7	143	93.6B	80.4	114	132				
cyanide	2 mg/kg	0.27B	0.17U	0.19B	0.21B	0.23B	0.32B				

TAL ANALYTE QUALIFIERS	DEFINITION
B	Value is real, but is above instrument detection limit and below contract-required detection limit.
U	Analyte was analyzed for but not detected.

Comprehensive Analytical Results - Monitoring Wells Samples

SAMPLE NUMBERS	96-DV-03-S22	96-DV-03-S23	96-DV-03-D23	96-DV-03-S24	96-DV-03-S25
DATE SAMPLE COLLECTED	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96
TIME SAMPLE COLLECTED	9:50	10:50	10:50	13:55	14:30
MONITORING WELL NUMBERS	MW 104	MW 101	MW 101D	MW 103	MW 102
QA/QC DESCRIPTION (if applicable)	Background		Field Duplicate		
COMPOUND DETECTED (µg/L)					
VOLATILE ORGANIC COMPOUNDS	**CROL**				
chloromethane	10 µg/L	10U	10U	10U	10U	10U
bromomethane	10 µg/L	10U	10U	10U	10U	10U
vinyl chloride	10 µg/L	10U	4J	4J	10U	10U
chloroethane	10 µg/L	10U	2J	10U	10U	22
methylene chloride	10 µg/L	10U	10U	4J	10U	6J
acetone	10 µg/L	10U	30	29	10U	10U
carbon disulfide	10 µg/L	10U	10U	10U	10U	10U
1,1-dichloroethene	10 µg/L	10U	10U	10U	10U	10U
1,1-dichloroethane	10 µg/L	10U	13	13	10U	10U
1,2-dichloroethene (Total)	10 µg/L	10U	150	140	10U	10U
chloroform	10 µg/L	10U	10U	10U	10U	10U
1,2-dichloroethane	10 µg/L	10U	10U	10U	10U	10U
2-butanone	10 µg/L	10U	10U	10U	10U	10U
1,1,1-trichloroethane	10 µg/L	10U	10U	10U	10U	10U
carbon tetrachloride	10 µg/L	10U	10U	10U	10U	10U
bromodichloromethane	10 µg/L	10U	10U	10U	10U	10U
1,2-dichloropropane	10 µg/L	10U	10U	10U	10U	10U
cis-1,3-dichloropropene	10 µg/L	10U	10U	10U	10U	10U
trichloroethene	10 µg/L	10U	10U	10U	10U	10U
dibromochloromethane	10 µg/L	10U	10U	10U	10U	10U
1,1,2-trichloroethane	10 µg/L	10U	10U	10U	10U	10U
benzene	10 µg/L	10U	10U	10U	10U	10U
trans-1,3-dichloropropene	10 µg/L	10U	10U	10U	10U	10U
bromoform	10 µg/L	10U	10U	10U	10U	10U
4-methyl-2-pentanone	10 µg/L	10U	10U	10U	10U	10U
2-hexanone	10 µg/L	10U	10U	10U	10U	10U
tetrachloroethene	10 µg/L	10U	10U	10U	10U	10U
1,1,2,2-tetrachloroethane	10 µg/L	10U	10U	10U	10U	10U
toluene	10 µg/L	10U	10U	1J	10U	15
chlorobenzene	10 µg/L	10U	10U	10U	10U	10U

Compre asive Analytical Results - Monitorin Wells Samples

SAMPLE NUMBERS		96-DV-03-S22	96-DV-03-S23	96-DV-03-D23	96-DV-03-S24	96-DV-03-S25					
DATE SAMPLE COLLECTED		7/09/96	7/09/96	7/09/96	7/09/96	7/09/96					
TIME SAMPLE COLLECTED		9:50	10:50	10:50	13:55	14:30					
MONITORING WELL NUMBERS		MW 104	MW 101	MW 101D	MW 103	MW 102					
QA/QC DESCRIPTION (if applicable)		Background		Field Duplicate							
ethyl benzene	10 µg/L	10U	10U	10U	10U	10U					
styrene	10 µg/L	10U	10U	10U	10U	10U					
xylene (Total)	10 µg/L	10U	10U	10U	10U	4J					
SEMI-VOLATILE ORGANIC COMPOUNDS	**CRQL**										
phenol	10 µg/L	10U	130EB	10U	10U	10U					
bis(2-chloroethyl)ether	10 µg/L	10U	10U	10U	10U	10U					
2-chlorophenol	10 µg/L	10U	10U	10U	10U	10U					
1,3-dichlorobenzene	10 µg/L	10U	10U	10U	10U	10U					
1,4-dichlorobenzene	10 µg/L	10U	10U	10U	10U	10U					
1,2-dichlorobenzene	10 µg/L	10U	10U	10U	10U	10U					
2-methylphenol	10 µg/L	10U	10U	10U	10U	10U					
4-methylphenol	10 µg/L	10U	10U	10U	10U	10U					
n-nitroso-di-n-propylamine	10 µg/L	10U	10U	10U	10U	10U					
hexachloroethane	10 µg/L	10U	10U	10U	10U	10U					
nitrobenzene	10 µg/L	10U	10U	10U	10U	10U					
isophorone	10 µg/L	10U	10U	10U	10U	10U					
2-nitrophenol	10 µg/L	10U	10U	10U	10U	10U					
2,4-dimethylphenol	10 µg/L	10U	10U	10U	10U	10U					
bis(2-chloroethoxy)methane	10 µg/L	10U	10U	10U	10U	10U					
2,4-dichlorophenol	10 µg/L	10U	10U	10U	10U	10U					
1,2,4-trichlorobenzene	10 µg/L	10U	10U	10U	10U	10U					
naphthalene	10 µg/L	10U	10U	10U	10U	10U					
4-chloroaniline	10 µg/L	10U	10U	10U	10U	10U					
hexachlorobutadiene	10 µg/L	10U	10U	10U	10U	10U					
4-chloro-3-methylphenol	10 µg/L	10U	10U	10U	10U	10U					
2-methylnaphthalene	10 µg/L	10U	10U	10U	10U	10U					

Comprehensive Analytical Results - Monitoring Well Samples

SAMPLE NUMBERS	96-DV-03-S22	96-DV-03-S23	96-DV-03-D23	96-DV-03-S24	96-DV-03-S25
DATE SAMPLE COLLECTED	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96
TIME SAMPLE COLLECTED	9:50	10:50	10:50	13:55	14:30
SAMPLE DEPTH (below surface)					
QA/QC DESCRIPTION (if applicable)	Background		Field Duplicate		
COMPOUND DETECTED (µg/L)					
SEMI-VOLATILE ORGANIC COMPOUNDS	**CRQL**				
hexachlorocyclopentadiene	10 µg/L	10U	10U	10U	10U	10U
2,4,6-trichlorophenol	10 µg/L	10U	10U	10U	10U	10U
2,4,5-trichlorophenol	25 µg/L	25U	25U	25U	25U	25U
2-chloronaphthalene	10 µg/L	10U	10U	10U	10U	10U
2-nitroaniline	25 µg/L	25U	25U	25U	25U	25U
dimethyl phthalate	10 µg/L	10U	10U	10U	10U	10U
acenaphthylene	10 µg/L	10U	10U	10U	10U	10U
2,6-dinitrotoluene	10 µg/L	10U	10U	10U	10U	10U
3-nitroaniline	25 µg/L	25U	25U	25U	25U	25U
acenaphthene	10 µg/L	10U	10U	10U	10U	10U
2,4-dinitrophenol	25 µg/L	25U	25U	25U	25U	25U
4-nitrophenol	25 µg/L	25U	25U	25U	25U	25U
dibenzofuran	10 µg/L	10U	10U	10U	10U	10U
2,4-dinitrotoluene	10 µg/L	10U	10U	10U	10U	10U
diethylphthalate	10 µg/L	10JBU	10JBU	10JBU	10U	10U
4-chlorophenyl-phenyl ether	10 µg/L	10U	10U	10U	10U	10U
fluorene	10 µg/L	10U	10U	10U	10U	10U
4-nitroaniline	25 µg/L	25U	25U	25U	25U	25U
4,6-dinitro-2-methylphenol	25 µg/L	25U	25U	25U	25U	25U
n-nitrosodiphenylamine	10 µg/L	10U	10U	10U	10U	10U
4-bromophenyl-phenyl ether	10 µg/L	10U	10U	10U	10U	10U
hexachlorobenzene	10 µg/L	10U	10U	10U	10U	10U
pentachlorophenol	10 µg/L	25U	25U	25U	25U	25U
phenanthrene	10 µg/L	10U	10U	10U	10U	10U
anthracene	10 µg/L	10U	10U	10U	10U	10U
di-n-butylphthalate	10 µg/L	10U	10U	10U	10U	10U
fluoranthene	10 µg/L	10U	10U	10U	10U	10U
pyrene	10 µg/L	10U	10U	10U	10U	10U
butylbenzylphthalate	10 µg/L	10U	10U	10U	10U	10U
3,3'-dichlorobenzidine	10 µg/L	10U	10U	10U	10U	10U

Compr nsive Analytical Results - Monitori Well Samples

SAMPLE NUMBERS	96-DV-03-S22	96-DV-03-S23	96-DV-03-D23	96-DV-03-S24	96-DV-03-S25
DATE SAMPLE COLLECTED	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96
TIME SAMPLE COLLECTED	9:50	10:50	10:50	13:55	14:30
SAMPLE DEPTH (below surface)					
QA/QC DESCRIPTION (if applicable)	Background		Field Duplicate		

COMPOUND DETECTED (µg/L)											
SEMI-VOLATILE ORGANIC COMPOUNDS	CRQL										
benzo(a)anthracene	10 µg/L	10U	10U	10U	10U	10U					
bis(2-ethylhexyl)phthalate	10 µg/L	1J	2J	10U	2J	10U					
chrysene	10 µg/L	10U	10U	10U	10U	10U					
di-n-octyl phthalate	10 µg/L	3J	1J	10U	10U	10U					
benzo(b)fluoranthene	10 µg/L	10U	10U	10U	10U	10U					
benzo(k)fluoranthene	10 µg/L	10U	10U	10U	10U	10U					
benzo(a)pyrene	10 µg/L	10U	10U	10U	10U	10U					
indenol(1,2,3-cd)pyrene	10 µg/L	10U	10U	10U	10U	10U					
dibenzo(a,h)anthracene	10 µg/L	10U	10U	10U	10U	10U					
benzo(g,h,i)perylene	10 µg/L	10U	10U	10U	10U	10U					

PESTICIDES/PCBs	CRQL										
alpha-BHC	0.05 µg/L	0.050U	0.050U	0.050U	0.050U	0.050U					
beta-BHC	0.05 µg/L	0.050U	0.050U	0.050U	0.050U	0.050U					
delta-BHC	0.05 µg/L	0.050U	0.050U	0.050U	0.050U	0.050U					
gamma-BHC (Lindane)	0.05 µg/L	0.050U	0.050U	0.050U	0.050U	0.050U					
heptachlor	0.05 µg/L	0.050U	0.051PJ	.0082PJ	.0095PJ	.0092PJ					
aldrin	0.05 µg/L	0.050U	0.050U	0.050U	0.050U	0.050U					
heptachlor epoxide	0.05 µg/L	0.050U	0.050U	0.050U	0.050U	0.050U					
endosulfan I	0.05 µg/L	0.050U	0.050U	0.050U	0.050U	0.050U					
dieldrin	0.10 µg/L	0.10U	0.10U	0.10U	0.10U	0.10U					
4,4'-DDE	0.10 µg/L	0.10U	0.10U	0.10U	0.10U	0.10U					
endrin	0.10 µg/L	0.10U	0.10U	0.10U	0.10U	0.10U					
endosulfan II	0.10 µg/L	0.10U	0.10U	0.10U	0.10U	0.10U					
4,4'-DDD	0.10 µg/L	0.10U	0.10U	0.10U	0.10U	0.10U					
endosulfan sulfate	0.10 µg/L	0.10U	0.10U	0.10U	0.10U	0.10U					
4,4'-DDT	0.10 µg/L	0.10U	0.10U	0.10U	0.10U	0.10U					

Comprehensive Analytical Results - Monitoring Well Samples

SAMPLE NUMBERS	96-DV-03-S22	96-DV-03-S23	96-DV-03-D23	96-DV-03-S24	96-DV-03-S25
DATE SAMPLE COLLECTED	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96
TIME SAMPLE COLLECTED	9:50	10:50	10:50	13:55	14:30
SAMPLE DEPTH (below surface)					
QA/QC DESCRIPTION (if applicable)	Background		Field Duplicate		

COMPOUND DETECTED (µg/L)						
PESTICIDES/PCBs	CRQL					
methoxychlor	0.50 µg/L	0.50U	0.50U	0.50U	0.50U	0.50U
endrin ketone	0.10 µg/L	0.10U	0.10U	0.10U	0.10U	0.10U
endrin aldehyde	0.10 µg/L	0.10U	0.10U	0.10U	0.10U	0.10U
alpha-chlordane	0.05 µg/L	0.050U	0.050U	0.050U	0.050U	0.050U
gamma-chlordane	0.05 µg/L	0.050U	0.050U	0.050U	0.050U	0.050U
toxaphene	5.0 µg/L	5.0U	5.0U	5.0U	5.0U	5.0U
aroclor-1016	1.0 µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
aroclor-1221	1.0 µg/L	2.0U	2.0U	2.0U	2.0U	2.0U
aroclor-1232	2.0 µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
aroclor-1242	1.0 µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
aroclor-1248	1.0 µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
aroclor-1254	1.0 µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
aroclor-1260	1.0 µg/L	1.0U	1.0U	1.0U	1.0U	1.0U

TCL COMPOUND QUALIFIERS	DEFINITION
J	Indicates an estimated value.
U	Compound was analyzed for but not detected.
B	Compound is found in the associated blank as well as in the sample.
D	This flag indicates all compounds identified in an analysis at a secondary dilution factor.
E	This flag indentifies compounds whose concentrations exceed the calibration range of the GC/MS instrumet.
P	Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.

Comprehensive Analytical Results - Monitoring Well Samples

SAMPLE NUMBERS	96-DV-03-S22	96-DV-03-S23	96-DV-03-D23	96-DV-03-S24	96-DV-03-S25
DATE SAMPLE COLLECTED	7/09/96	7/09/96	7/09/96	7/09/96	7/09/96
TIME SAMPLE COLLECTED	9:50	10:50	10:50	13:55	14:30
SAMPLE DEPTH (below surface)					
QA/QC DESCRIPTION (if applicable)	Background		Field Duplicate		

ANALYTE DETECTED (µg/L)											
TAL METALS/CYANIDE	*CRDL*										
aluminum	200 µg/L	5730	10000	361	98.4B	183B					
antimony	60 µg/L	3.0U	3.0U	3.0U	3.0U	3.0U					
arsenic	10 µg/L	547	9.6B	4.0U	4.0U	4.0U					
barium	200 µg/L	2530	330	347	92.5B	84.4B					
beryllium	5 µg/L	1.0U	1.0U	1.0U	1.0U	1.0U					
cadmium	5 µg/L	1.0U	1.0U	1.0U	1.0U	1.0U					
calcium	5000 µg/L	190000	224000	81700	78800	87000					
chromium	10 µg/L	17.3	17.4	1.2B	7.6B	1.0U					
cobalt	50 µg/L	24.6B	12.3B	2.0B	1.0U	1.0U					
copper	25 µg/L	27.8	30.8	4.9B	3.2B	3.1B					
iron	100 µg/L	38000	20600	720	180	332					
lead	3 µg/L	13.4	21.5	8.7	2.8B	1.1B					
magnesium	5000 µg/L	75400	76800	12400	23100	25000					
manganese	15 µg/L	1000	1000	86.7	46.3	107					
mercury	0.2 µg/L	0.20U	0.20U	0.20U	0.20U	0.20U					
nickel	40 µg/L	17.3B	29.7B	14.2B	1.1B	2.2B					
potassium	5000 µg/L	9570	39600	114000	2720B	3390B					
selenium	5 µg/L	8.3	4.0U	4.0U	4.0U	4.0U					
silver	10 µg/L	1.0U	1.0U	1.0U	1.0U	1.0U					
sodium	5000 µg/L	81800	46200	98700	13400	12400					
thallium	10 µg/L	4.6B	4.4B	4.0U	4.0U	4.0U					
vanadium	50 µg/L	14.8B	20.9B	1.0U	1.0U	1.0U					
zinc	20 µg/L	89.7	77.7	10B	7.2B	9.5B					
cyanide	10 µg/L	9.2B	3.0U	3.0U	3.0U	3.0U					

TAL ANALYTE QUALIFIERS	DEFINITION
B	Value is real, but is above instrument detection limit and below contract-required detection limit.
U	Analyte was analyzed for but not detected.

APPENDIX E

Groundwater Analytical Report

ORGANIC SAMPLE SUBMISSION / REPORT FORM

Date Received 96/02/21 Lab Number 08921

Station/Location South Dayton (South) SDGW001 - A

Sample Collected By PSURA / Rick Cisler Affiliation PSURA is LOE Contractor

Bill to DERR Report Analysis to Rick Cisler/DERR

Division: [ ]DSW [ ]DDAGW [✓]DERR [ ]DHWM [ ]DAPC [ ]DSIWM _____Other

District: [ ]CDO [ ]NEDO [ ]NWDO [ ]SEDO [✓]SWDO

Sample Type: [✓]Aqueous [ ]Sediment [ ]Tissue [ ]Oil [ ]Air Canister [ ]Air Filter [X]Grab [ ]Composite

_____Other

Date & Time of Sample Begin YY MM DD HH MM 96/02/19 1620 2C End ~~96/02/19 1620~~ 19

Sample Use: [ ]Rush [ ]Litigation [ ]Complaint [✓]Compliance [ ]Survey [ ]Ambient [ ]Other

Well Use: [ ]Industrial [ ]Public [ ]Private NA

Sample Volume Submitted: 2 # of Vials _____# of Liter Jars _____Other

Analysis Requested	Method		Analyzed	Reported	Analyst
Volatile Organic Compounds (VOC): (GC/MS)	[X]624 [ ]8260	[ ]524.2	96/02/22	96/02/26	AT
Volatile Organic Compounds (VOC): (GC)	[ ]601&602	[ ]502.2	/ /	/ /	
Base-Neutral & Acid Extractables: (GC/MS)	[ ]625	[ ]8270	/ /	/ /	
Base-Neutral Extractables (PAHs): (GC/MS)	[ ]625	[ ]8270	/ /	/ /	
Acid Extractables (Phenols): (GC/MS)	[ ]625	[ ]8270	/ /	/ /	
Pesticides: (GC)	[ ]608	[ ]8080	/ /	/ /	
Polychlorinated biphenyls (PCBs): (GC)	[ ]608	[ ]8080	/ /	/ /	
Chlordane: (GC)	[ ]608	[ ]8080	/ /	/ /	
Toxaphene: (GC)	[ ]608	[ ]8080	/ /	/ /	
Others: _____			/ /	/ /	

Volatile Preserved with [X]HCL [ ]Sodium Thiosulfate Bioassay Sample Submitted: [ ]Yes [✓]No

Comments:

DES QA approval included on computer printout

SD001 19

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	C8921 SOUTH DAYTON DUMP	**Method:**	624
Date Collected:	02/20/96	**Collected by:**	PASARA
Data Analyzed:	02/22/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22206.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
71-43-2	Benzene	1.2	0.5
108-86-1	Bromobenzene	ND	0.5
74-97-5	Bromochloromethane	ND	0.5
75-27-4	Bromodichloromethane	ND	0.5
75-25-2	Bromoform	ND	0.5
74-83-9	Bromomethane	ND	0.5
104-51-8	N-Butylbenzene	ND	0.5
135-98-8	Sec-Butylbenzene	ND	0.5
98-06-6	Tert-Butylbenzene	ND	0.5
56-23-5	Carbon tetrachloride	ND	0.5
108-90-7	Chlorobenzene	ND	0.5
75-00-3	Chloroethane	ND	0.5
67-66-3	Chloroform	ND	0.5
74-87-3	Chloromethane	ND	0.5
95-49-8	2-Chlorotoluene	ND	0.5
106-43-4	4-Chlorotoluene	ND	0.5
124-48-1	Dibromochloromethane	ND	0.5
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.5
106-93-4	1,2-Dibromoethane	ND	0.5
74-95-3	Dibromomethane	ND	0.5
95-50-1	1,2-Dichlorobenzene	ND	0.5
541-73-1	1,3-Dichlorobenzene	ND	0.5
106-46-7	1,4-Dichlorobenzene	ND	0.5
75-71-8	Dichlorodifluoromethane	ND	0.5
75-34-3	1,1-Dichloroethane	0.5	0.5
107-06-2	1,2-Dichloroethane	ND	0.5
75-35-4	1,1-Dichloroethene	ND	0.5
156-59-4	Cis-1,2-dichloroethene	ND	0.5
156-60-5	Trans-1,2-dichloroethene	ND	0.5
78-87-5	1,2-Dichloropropane	ND	0.5
142-28-9	1,3-Dichloropropane	ND	0.5
594-20-7	2,2-Dichloropropane	ND	0.5
563-58-6	1,1-Dichloropropene	ND	0.5
10061-1-5	Cis-1,3-dichloropropene	ND	0.5
10061-02-6	Trans-1,3-dichloropropene	ND	0.5
100-41-4	Ethylbenzene	ND	0.5
87-68-3	Hexachlorobutadiene	ND	0.5

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8921 SOUTH DAYTON DUMP	**Method:**	624
Date Collected:	02/20/96	**Collected by:**	PASARA
Data Analyzed:	02/22/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22206.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
98-82-8	Isopropylbenzene	ND	0.5
99-87-6	4-Isopropyltoluene	ND	0.5
75-09-2	Methylene chloride	ND	0.5
91-20-3	Naphthalene	ND	0.5
103-65-1	N-Propylbenzene	ND	0.5
100-42-5	Styrene	ND	0.5
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.5
79-34-5	1,1,2.2-Tetrachloroethane	ND	0.5
127-18-4	Tetrachloroethene	ND	0.5
108-88-3	Toluene	1.5	0.5
87-61-6	1,2,3-Trichlorobenzene	ND	0.5
120-82-1	1,2,4-Trichlorobenzene	ND	0.5
71-55-6	1,1,1-Trichloroethane	ND	0.5
79-00-5	1,1,2-Trichloroethane	ND	0.5
79-01-6	Trichloroethene	4.6	0.5
75-69-4	Trichlorofluoromethane	ND	0.5
96-18-4	1,2,3-Trichloropropane	ND	0.5
95-63-6	1,2,4-Trimethylbenzene	ND	0.5
108-67-8	1,3,5-Trimethylbenzene	ND	0.5
75-01-4	Vinyl chloride	ND	0.5
95-47-6	O-xylene	ND	0.5
108-38-3	Total m&p-xylenes	ND	0.5

Explanation of terms:

CAS NO : Chemical Abstracts Service Number.

ND : Compound not detected OR less than DL

DL : Detection Limit taking into account MDL and sample dilution considering actual volume of sample analyzed.

Comments:

Ohio EPA

Volatile Organic Analysis Data Report

Tentatively Identified Compounds

Sample: O8921 SOUTH DAYTON DUMP

Number TICs found: 0 Concentration units: ug/L

CAS NO.	COMPOUND	R. TIME	EST. CONC

Notes: Tentatively Identified Compounds are listed for the 10 most prominant compounds. Additional compounds may be present if all 10 are listed. Names listed represent the best fit as determined by library identification by computer. The name listed is not necessarily the name of the actual compound. Where less than 10 compounds are listed, no additional compounds were found.

APPROVED BY Q.A

FEB 2 8 1995

BY

Division of Environmental Services

ORGANIC SAMPLE SUBMISSION / REPORT FORM

SD 00 2

Date Received 96/02/21 Lab Number 08924

Station/Location South Dayton Dump - SDGW002-C RECEIVED

Sample Collected By PSARA / Matt Justice Affiliation PSARA/Fiso LOE Contractor

Bill to DERR Report Analysis to RICK CISTER / DERR SOUTHWEST DISTRICT

Division: [ ]DSW [ ]DDAGW [X]DERR [ ]DHWM [ ]DAPC [ ]DSIWM ______ Other

District: [ ]CDO [ ]NEDO [ ]NWDO [ ]SEDO [X]SWDO

Sample Type: [X]Aqueous [ ]Sediment [ ]Tissue [ ]Oil [ ]Air Canister [ ]Air Filter [ ]Grab [ ]Composite ______ Other

Date & Time of Sample (YY MM DD HH MM) Begin 96/02/20 15/15 End _/_/_/_/_ 21

Sample Use: [ ]Rush [ ]Litigation [ ]Complaint [X]Compliance [ ]Survey [ ]Ambient [ ]Other

Well Use: [ ]Industrial [ ]Public [ ]Private NA

Sample Volume Submitted: 2 # of Vials ____ # of Liter Jars ______ Other

Analysis Requested	Method		Analyzed	Reported	Analyst
Volatile Organic Compounds (VOC): (GC/MS)	[X]624 [ ]8260	[ ]524.2	96/02/22	96/02/26	GT
Volatile Organic Compounds (VOC): (GC)	[ ]601&602	[ ]502.2	_/_/_	_/_/_	
Base-Neutral & Acid Extractables: (GC/MS)	[ ]625	[ ]8270	_/_/_	_/_/_	
Base-Neutral Extractables (PAHs): (GC/MS)	[ ]625	[ ]8270	_/_/_	_/_/_	
Acid Extractables (Phenols): (GC/MS)	[ ]625	[ ]8270	_/_/_	_/_/_	
Pesticides: (GC)	[ ]608	[ ]8080	_/_/_	_/_/_	
Polychlorinated biphenyls (PCBs): (GC)	[ ]608	[ ]8080	_/_/_	_/_/_	
Chlordane: (GC)	[ ]608	[ ]8080	_/_/_	_/_/_	
Toxaphene: (GC)	[ ]608	[ ]8080	_/_/_	_/_/_	
Others:			_/_/_	_/_/_	

Volatile Preserved with [X]HCL [ ]Sodium Thiosulfate Bioassay Sample Submitted: [ ]Yes [X]No

Comments: Analyze per Steve Martin in Conversation with T. Rasanen & D. Bhatt. Data will be used as a screening only, due to large amount of Head Space & air bubbles. KLH

DES QA approval included on computer printout

SD002 2.21

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8924 SOUTH DAYTON DUMP	**Method:**	624
Date Collected:	02/20/96	**Collected by:**	PSARA
Data Analyzed:	02/22/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22204.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
71-43-2	Benzene	0.8	0.5
108-86-1	Bromobenzene	ND	0.5
74-97-5	Bromochloromethane	ND	0.5
75-27-4	Bromodichloromethane	ND	0.5
75-25-2	Bromoform	ND	0.5
74-83-9	Bromomethane	ND	0.5
104-51-8	N-Butylbenzene	ND	0.5
135-98-8	Sec-Butylbenzene	ND	0.5
98-06-6	Tert-Butylbenzene	ND	0.5
56-23-5	Carbon tetrachloride	ND	0.5
108-90-7	Chlorobenzene	ND	0.5
75-00-3	Chloroethane	ND	0.5
67-66-3	Chloroform	ND	0.5
74-87-3	Chloromethane	ND	0.5
95-49-8	2-Chlorotoluene	ND	0.5
106-43-4	4-Chlorotoluene	ND	0.5
124-48-1	Dibromochloromethane	ND	0.5
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.5
106-93-4	1,2-Dibromoethane	ND	0.5
74-95-3	Dibromomethane	ND	0.5
95-50-1	1,2-Dichlorobenzene	ND	0.5
541-73-1	1,3-Dichlorobenzene	ND	0.5
106-46-7	1,4-Dichlorobenzene	ND	0.5
75-71-8	Dichlorodifluoromethane	ND	0.5
75-34-3	1,1-Dichloroethane	1.2	0.5
107-06-2	1,2-Dichloroethane	0.5	0.5
75-35-4	1,1-Dichloroethene	ND	0.5
156-59-4	Cis-1,2-dichloroethene	0.9	0.5
156-60-5	Trans-1,2-dichloroethene	ND	0.5
78-87-5	1,2-Dichloropropane	ND	0.5
142-28-9	1,3-Dichloropropane	ND	0.5
594-20-7	2,2-Dichloropropane	ND	0.5
563-58-6	1,1-Dichloropropene	ND	0.5
10061-1-5	Cis-1,3-dichloropropene	ND	0.5
10061-02-6	Trans-1,3-dichloropropene	ND	0.5
100-41-4	Ethylbenzene	ND	0.5
87-68-3	Hexachlorobutadiene	ND	0.5

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8924 SOUTH DAYTON DUMP	**Method:**	624
Date Collected:	02/20/96	**Collected by:**	PSARA
Data Analyzed:	02/22/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22204.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
98-82-8	Isopropylbenzene	ND	0.5
99-87-6	4-Isopropyltoluene	ND	0.5
75-09-2	Methylene chloride	ND	0.5
91-20-3	Naphthalene	ND	0.5
103-65-1	N-Propylbenzene	ND	0.5
100-42-5	Styrene	ND	0.5
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.5
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.5
127-18-4	Tetrachloroethene	ND	0.5
108-88-3	Toluene	1.9	0.5
87-61-6	1,2,3-Trichlorobenzene	ND	0.5
120-82-1	1,2,4-Trichlorobenzene	ND	0.5
71-55-6	1,1,1-Trichloroethane	ND	0.5
79-00-5	1,1,2-Trichloroethane	ND	0.5
79-01-6	Trichloroethene	ND	0.5
75-69-4	Trichlorofluoromethane	ND	0.5
96-18-4	1,2,3-Trichloropropane	ND	0.5
95-63-6	1,2,4-Trimethylbenzene	ND	0.5
108-67-8	1,3,5-Trimethylbenzene	ND	0.5
75-01-4	Vinyl chloride	ND	0.5
95-47-6	O-xylene	ND	0.5
108-38-3	Total m&p-xylenes	0.6	0.5

Explanation of terms:

CAS NO : Chemical Abstracts Service Number.

ND : Compound not detected OR less than DL

DL : Detection Limit taking into account MDL and sample dilution considering actual volume of sample analyzed.

Comments: Data will be used as a screening only, due to large amount of head space & air bubbles.

Ohio EPA

Volatile Organic Analysis Data Report

Tentatively Identified Compounds

Sample: O8924 SOUTH DAYTON DUMP

Number TICs found: 1 Concentration units: ug/L

CAS NO.	COMPOUND	R. TIME	EST. CONC
000066-25-1	Hexanal	12.29	2.35

Notes: Tentatively Identified Compounds are listed for the 10 most prominant compounds. Additional compounds may be present if all 10 are listed. Names listed represent the best fit as determined by library identification by computer. The name listed is not necessarily the name of the actual compound. Where less than 10 compounds are listed. no additional compounds were found.

APPROVED BY Q.A

FEB 23 1996

BY

OHIOEPA Division of Environmental Services

ORGANIC SAMPLE SUBMISSION / REPORT FORM

0002

Date Received 96/02/21 Lab Number 08925

Station/Location South Dayton Dump - SDGW-003-D

Sample Collected By PSARA / matt Justice Affiliation PSARA is LOE Contractor

Bill to DERR Report Analysis to Rick Cisler / DERR

Division: [ ]DSW [ ]DDAGW [X]DERR [ ]DHWM [ ]DAPC [ ]DSIWM _____Other

District: [ ]CDO [ ]NEDO [ ]NWDO [ ]SEDO [X]SWDO

Sample Type: [X]Aqueous [ ]Sediment [ ]Tissue [ ]Oil [ ]Air Canister [ ]Air Filter [ ]Grab [ ]Composite _____Other

Date & Time of Sample Begin YY MM DD HH MM 96/02/20/16/40 End YY MM DD HH MM __/__/__/__/__ 321

Sample Use: [ ]Rush [ ]Litigation [ ]Complaint [X]Compliance [ ]Survey [ ]Ambient [ ]Other

Well Use: [ ]Industrial [ ]Public [ ]Private NA

Sample Volume Submitted: 2 # of Vials _____# of Liter Jars _____Other

Analysis Requested	Method		Analyzed	Reported	Analyst
Volatile Organic Compounds (VOC): (GC/MS)	[X]624 [ ]8260	[ ]524.2	96/02/22	96/02/26	AT
Volatile Organic Compounds (VOC): (GC)	[ ]601&602	[ ]502.2	__/__/__	__/__/__	
Base-Neutral & Acid Extractables: (GC/MS)	[ ]625	[ ]8270	__/__/__	__/__/__	
Base-Neutral Extractables (PAHs): (GC/MS)	[ ]625	[ ]8270	__/__/__	__/__/__	
Acid Extractables (Phenols): (GC/MS)	[ ]625	[ ]8270	__/__/__	__/__/__	
Pesticides: (GC)	[ ]608	[ ]8080	__/__/__	__/__/__	
Polychlorinated Biphenyls (PCBs): (GC)	[ ]608	[ ]8080	__/__/__	__/__/__	
Chlordane: (GC)	[ ]608	[ ]8080	__/__/__	__/__/__	
Toxaphene: (GC)	[ ]608	[ ]8080	__/__/__	__/__/__	
Others: _____			__/__/__	__/__/__	

Volatile Preserved with [X]HCL [ ]Sodium Thiosulfate Bioassay Sample Submitted: [ ]Yes [X]No

Comments:
Analysis per Steve Martin per Conversation with T. Rosanna & V. Grist
Data will be used as a Screening only, due to large amount
of Head Space & Air Bubbles. KCH

DES QA approval included on computer printout

0002 321

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8925 SOUTH DAYTON DUMP	**Method:**	624
Date Collected:	02/20/96	**Collected by:**	PASARA
Data Analyzed:	02/22/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22205.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
71-43-2	Benzene	1.9	0.5
108-86-1	Bromobenzene	ND	0.5
74-97-5	Bromochloromethane	ND	0.5
75-27-4	Bromodichloromethane	ND	0.5
75-25-2	Bromoform	ND	0.5
74-83-9	Bromomethane	ND	0.5
104-51-8	N-Butylbenzene	ND	0.5
135-98-8	Sec-Butylbenzene	ND	0.5
98-06-6	Tert-Butylbenzene	ND	0.5
56-23-5	Carbon tetrachloride	ND	0.5
108-90-7	Chlorobenzene	ND	0.5
75-00-3	Chloroethane	ND	0.5
67-66-3	Chloroform	ND	0.5
74-87-3	Chloromethane	ND	0.5
95-49-8	2-Chlorotoluene	ND	0.5
106-43-4	4-Chlorotoluene	ND	0.5
124-48-1	Dibromochloromethane	ND	0.5
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.5
106-93-4	1,2-Dibromoethane	ND	0.5
74-95-3	Dibromomethane	ND	0.5
95-50-1	1,2-Dichlorobenzene	ND	0.5
541-73-1	1,3-Dichlorobenzene	ND	0.5
106-46-7	1,4-Dichlorobenzene	ND	0.5
75-71-8	Dichlorodifluoromethane	ND	0.5
75-34-3	1,1-Dichloroethane	2.8	0.5
107-06-2	1,2-Dichloroethane	ND	0.5
75-35-4	1,1-Dichloroethene	ND	0.5
156-59-4	Cis-1,2-dichloroethene	1.6	0.5
156-60-5	Trans-1,2-dichloroethene	ND	0.5
78-87-5	1,2-Dichloropropane	ND	0.5
142-28-9	1,3-Dichloropropane	ND	0.5
594-20-7	2,2-Dichloropropane	ND	0.5
563-58-6	1,1-Dichloropropene	ND	0.5
10061-1-5	Cis-1,3-dichloropropene	ND	0.5
10061-02-6	Trans-1,3-dichloropropene	ND	0.5
100-41-4	Ethylbenzene	ND	0.5
87-68-3	Hexachlorobutadiene	ND	0.5

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8925 SOUTH DAYTON DUMP	**Method:**	624
Date Collected:	02/20/96	**Collected by:**	PASARA
Data Analyzed:	02/22/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22205.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
98-82-8	Isopropylbenzene	ND	0.5
99-87-6	4-Isopropyltoluene	ND	0.5
75-09-2	Methylene chloride	ND	0.5
91-20-3	Naphthalene	ND	0.5
103-65-1	N-Propylbenzene	ND	0.5
100-42-5	Styrene	ND	0.5
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.5
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.5
127-18-4	Tetrachloroethene	ND	0.5
108-88-3	Toluene	2.3	0.5
87-61-6	1,2,3-Trichlorobenzene	ND	0.5
120-82-1	1,2,4-Trichlorobenzene	ND	0.5
71-55-6	1,1,1-Trichloroethane	ND	0.5
79-00-5	1,1,2-Trichloroethane	ND	0.5
79-01-6	Trichloroethene	ND	0.5
75-69-4	Trichlorofluoromethane	ND	0.5
96-18-4	1,2,3-Trichloropropane	ND	0.5
95-63-6	1,2,4-Trimethylbenzene	ND	0.5
108-67-8	1,3,5-Trimethylbenzene	ND	0.5
75-01-4	Vinyl chloride	0.9	0.5
95-47-6	O-xylene	ND	0.5
108-38-3	Total m&p-xylenes	ND	0.5

Explanation of terms:

CAS NO : Chemical Abstracts Service Number.

ND : Compound not detected OR less than DL

DL : Detection Limit taking into account MDL and sample dilution considering actual volume of sample analyzed.

Comments: Data will be used as a screening only, due to large amount of head space & air bubbles.

Ohio EPA

Volatile Organic Analysis Data Report

Tentatively Identified Compounds

Sample: O8925 SOUTH DAYTON DUMP

Number TICs found: 2 Concentration units: ug/L

CAS NO.	COMPOUND	R. TIME	EST. CONC
000115-07-1	Propene	1.68	67.19
000075-28-5	Isobutane	1.88	6.08

Notes: Tentatively Identified Compounds are listed for the 10 most prominant compounds. Additional compounds may be present if all 10 are listed. Names listed represent the best fit as determined by library identification by computer. The name listed is not necessarily the name of the actual compound. Where less than 10 compounds are listed, no additional compounds were found.

APPROVED BY Q.A

FEB 23 1996

BY [signature]

See Comments

Date Received 96/02/23 Lab Number 08926

Station/Location SOUTH DAYTON DUMP - BOREHOLE 001 @ 34' SDGW004

Sample Collected By RICH STICIC/PSARA, B. WARNETT/ODPA Affiliation PSARA IS LOE CONTRACTOR

Bill to DERR Report Analysis to RICK LISLER/ODPA/DERR

Division: [ ]DSW [ ]DDAGW [X]DERR [ ]DHWM [ ]DAPC [ ]DSIWM _____Other

District: [ ]CDO [ ]NEDO [ ]NWDO [ ]SEDO [X]SWDO

Sample Type: [X]Aqueous [ ]Sediment [ ]Tissue [ ]Oil [ ]Air Canister [ ]Air Filter [ ]Grab [ ]Composite _____Other

Date & Time of Sample Begin YY MM DD HH MM 96/12/12/ 14/00 End YY MM DD HH MM 96/12/12/ 14/30

Sample Use: [ ]Rush [ ]Litigation [ ]Complaint [ ]Compliance [X]Survey [ ]Ambient [ ]Other

Well Use: [ ]Industrial [ ]Public [ ]Private N/A

Sample Volume Submitted: 2* # of Vials — # of Liter Jars _____Other

Analysis Requested	Method		Analyzed	Reported	Analyst
Volatile Organic Compounds (VOC): (GC/MS)	[X]624 [ ]8260	[ ]524.2	96/02/27	96/03/01	KT
Volatile Organic Compounds (VOC): (GC)	[ ]601&602	[ ]502.2	/ /	/ /	
Base-Neutral & Acid Extractables: (GC/MS)	[ ]625	[ ]8270	/ /	/ /	
Base-Neutral Extractables (PAHs): (GC/MS)	[ ]625	[ ]8270	/ /	/ /	
Acid Extractables (Phenols): (GC/MS)	[ ]625	[ ]8270	/ /	/ /	
Pesticides: (GC)	[ ]608	[ ]8080	/ /	/ /	
Polychlorinated biphenyls (PCBs): (GC)	[ ]608	[ ]8080	/ /	/ /	
Chlordane: (GC)	[ ]608	[ ]8080	/ /	/ /	
Toxaphene: (GC)	[ ]608	[ ]8080	/ /	/ /	
Others: _____			/ /	/ /	

Volatile Preserved with [X]HCL [ ]Sodium Thiosulfate Bioassay Sample Submitted: [ ]Yes [X]No

Comments: SAMPLE VERY SILTY/TURBID; FOAMY, EFFERVESCENT
* 1 Vial submitted with headspace, 1 Vial submitted with Air bubbles. KLH

DES CA approval included on computer printout

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Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8926 SOUTH DAYTON DUMP	**Method:**	624
Date Collected:	02/21/96	**Collected by:**	PSARA
Data Analyzed:	02/27/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22721.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
71-43-2	Benzene	0.9	0.5
108-86-1	Bromobenzene	ND	0.5
74-97-5	Bromochloromethane	ND	0.5
75-27-4	Bromodichloromethane	ND	0.5
75-25-2	Bromoform	ND	0.5
74-83-9	Bromomethane	ND	0.5
104-51-8	N-Butylbenzene	ND	0.5
135-98-8	Sec-Butylbenzene	ND	0.5
98-06-6	Tert-Butylbenzene	ND	0.5
56-23-5	Carbon tetrachloride	ND	0.5
108-90-7	Chlorobenzene	ND	0.5
75-00-3	Chloroethane	ND	0.5
67-66-3	Chloroform	ND	0.5
74-87-3	Chloromethane	ND	0.5
95-49-8	2-Chlorotoluene	ND	0.5
106-43-4	4-Chlorotoluene	ND	0.5
124-48-1	Dibromochloromethane	ND	0.5
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.5
106-93-4	1,2-Dibromoethane	ND	0.5
74-95-3	Dibromomethane	ND	0.5
95-50-1	1,2-Dichlorobenzene	ND	0.5
541-73-1	1,3-Dichlorobenzene	ND	0.5
106-46-7	1,4-Dichlorobenzene	ND	0.5
75-71-8	Dichlorodifluoromethane	ND	0.5
75-34-3	1,1-Dichloroethane	0.8	0.5
107-06-2	1,2-Dichloroethane	0.9	0.5
75-35-4	1,1-Dichloroethene	ND	0.5
156-59-4	Cis-1,2-dichloroethene	ND	0.5
156-60-5	Trans-1,2-dichloroethene	ND	0.5
78-87-5	1,2-Dichloropropane	ND	0.5
142-28-9	1,3-Dichloropropane	ND	0.5
594-20-7	2,2-Dichloropropane	ND	0.5
563-58-6	1,1-Dichloropropene	ND	0.5
10061-1-5	Cis-1,3-dichloropropene	ND	0.5
10061-02-6	Trans-1,3-dichloropropene	ND	0.5
100-41-4	Ethylbenzene	ND	0.5
87-68-3	Hexachlorobutadiene	ND	0.5

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8926 SOUTH DAYTON DUMP	**Method:**	624
Date Collected:	02/21/96	**Collected by:**	PSARA
Data Analyzed:	02/27/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22721.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
98-82-8	Isopropylbenzene	ND	0.5
99-87-6	4-Isopropyltoluene	ND	0.5
75-09-2	Methylene chloride	ND	0.5
91-20-3	Naphthalene	ND	0.5
103-65-1	N-Propylbenzene	ND	0.5
100-42-5	Styrene	ND	0.5
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.5
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.5
127-18-4	Tetrachloroethene	ND	0.5
108-88-3	Toluene	1.5	0.5
87-61-6	1,2,3-Trichlorobenzene	ND	0.5
120-82-1	1,2,4-Trichlorobenzene	ND	0.5
71-55-6	1,1,1-Trichloroethane	ND	0.5
79-00-5	1,1,2-Trichloroethane	ND	0.5
79-01-6	Trichloroethene	2.8	0.5
75-69-4	Trichlorofluoromethane	ND	0.5
96-18-4	1,2,3-Trichloropropane	ND	0.5
95-63-6	1,2,4-Trimethylbenzene	ND	0.5
108-67-8	1,3,5-Trimethylbenzene	ND	0.5
75-01-4	Vinyl chloride	ND	0.5
95-47-6	O-xylene	ND	0.5
108-38-3	Total m&p-xylenes	ND	0.5

Explanation of terms:

CAS NO : Chemical Abstracts Service Number.

ND : Compound not detected OR less than DL

DL : Detection Limit taking into account MDL and sample dilution considering actual volume of sample analyzed.

Comments: Data will be used as a screening, due to a large amount of head space.

Ohio EPA

Volatile Organic Analysis Data Report

Tentatively Identified Compounds

Sample: O8926 SOUTH DAYTON DUMP

Number TICs found: 1 Concentration units: ug/L

CAS NO.	COMPOUND	R. TIME	EST. CONC
000115-11-7	1-Propene, 2-methyl-	2.02	3.74

Notes: Tentatively Identified Compounds are listed for the 10 most prominant compounds. Additional compounds may be present if all 10 are listed. Names listed represent the best fit as determined by library identification by computer. The name listed is not necessarily the name of the actual compound. Where less than 10 compounds are listed, no additional compounds were found.

APPROVED BY Q.A

MAR 31 1996

BY J. McDaniel

Date Received 961021260 Lab Number

Station/Location South Dayton Dump - SDGWC05

Sample Collected By Steve / Rick Cislo Affiliation Ohio EPA, DERR

Bill to Report Analysis to Steve Martin, DERR

Division: [ ]DSW [ ]DDAGW [✓]DERR [ ]DHWM [ ]DAPC [ ]DSIWM _____Other

District: [ ]CDO [ ]NEDO [ ]NWDO [ ]SEDO [✓]SWDO

Sample Type: [✓]Aqueous [ ]Sediment [ ]Tissue [ ]Oil [ ]Air Canister [ ]Air Filter [ ]Grab [ ]Composite

_____Other

	YY	MM	DD	HH	MM
Date & Time of Sample Begin	96	10	21	23	10
End	96	10	21	23	15

Sample Use: [ ]Rush [ ]Litigation [✓]Complaint [ ]Compliance [ ]Survey [ ]Ambient [ ]Other

Well Use: [ ]Industrial [ ]Public [ ]Private

Sample Volume Submitted: 2* # of Vials _____# of Liter Jars _____Other

Analysis Requested	Method		Analyzed	Reported	Analyst
Volatile Organic Compounds (VOC): (GC/MS)	[X]624 [ ]8260	[ ]524.2	961021 27	961031 01	[X]
Volatile Organic Compounds (VOC): (GC)	[ ]601&602	[ ]502.2	/ /	/ /	
Base-Neutral & Acid Extractables: (GC/MS)	[ ]625	[ ]8270	/ /	/ /	
Base-Neutral Extractables (PAHs): (GC/MS)	[ ]625	[ ]8270	/ /	/ /	
Acid Extractables (Phenols): (GC/MS)	[ ]625	[ ]8270	/ /	/ /	
Pesticides: (GC)	[ ]608	[ ]8080	/ /	/ /	
Polychlorinated biphenyls (PCBs): (GC)	[ ]608	[ ]8080	/ /	/ /	
Chlordane: (GC)	[ ]608	[ ]8080	/ /	/ /	
Toxaphene: (GC)	[ ]608	[ ]8080	/ /	/ /	
Others: _____			/ /	/ /	

Volatile Preserved with [X]HCL [ ]Sodium Thiosulfate Bioassay Sample Submitted: [ ]Yes [ ]No

Comments:

Sample ID = SDGWC05

* Headspace in bottle vials - Runas a Screening only.

KCH

DES QA approval included on computer printout

SD 0011A 221

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8930 SOUTH DAYTON DUMP	**Method:**	624
Date Collected:	02/23/96	**Collected by:**	PSARA
Data Analyzed:	02/27/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22706.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
71-43-2	Benzene	0.8	0.5
108-86-1	Bromobenzene	ND	0.5
74-97-5	Bromochloromethane	ND	0.5
75-27-4	Bromodichloromethane	ND	0.5
75-25-2	Bromoform	ND	0.5
74-83-9	Bromomethane	ND	0.5
104-51-8	N-Butylbenzene	ND	0.5
135-98-8	Sec-Butylbenzene	ND	0.5
98-06-6	Tert-Butylbenzene	ND	0.5
56-23-5	Carbon tetrachloride	ND	0.5
108-90-7	Chlorobenzene	ND	0.5
75-00-3	Chloroethane	ND	0.5
67-66-3	Chloroform	ND	0.5
74-87-3	Chloromethane	ND	0.5
95-49-8	2-Chlorotoluene	ND	0.5
106-43-4	4-Chlorotoluene	ND	0.5
124-48-1	Dibromochloromethane	ND	0.5
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.5
106-93-4	1,2-Dibromoethane	ND	0.5
74-95-3	Dibromomethane	ND	0.5
95-50-1	1,2-Dichlorobenzene	ND	0.5
541-73-1	1,3-Dichlorobenzene	ND	0.5
106-46-7	1,4-Dichlorobenzene	ND	0.5
75-71-8	Dichlorodifluoromethane	ND	0.5
75-34-3	1,1-Dichloroethane	ND	0.5
107-06-2	1,2-Dichloroethane	0.9	0.5
75-35-4	1,1-Dichloroethene	ND	0.5
156-59-4	Cis-1,2-dichloroethene	ND	0.5
156-60-5	Trans-1,2-dichloroethene	ND	0.5
78-87-5	1,2-Dichloropropane	ND	0.5
142-28-9	1,3-Dichloropropane	ND	0.5
594-20-7	2,2-Dichloropropane	ND	0.5
563-58-6	1,1-Dichloropropene	ND	0.5
10061-1-5	Cis-1,3-dichloropropene	ND	0.5
10061-02-6	Trans-1,3-dichloropropene	ND	0.5
100-41-4	Ethylbenzene	0.8	0.5
87-68-3	Hexachlorobutadiene	ND	0.5

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8930 SOUTH DAYTON DUMP	**Method:**	624
Date Collected:	02/23/96	**Collected by:**	PSARA
Data Analyzed:	02/27/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22706.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
98-82-8	Isopropylbenzene	ND	0.5
99-87-6	4-Isopropyltoluene	ND	0.5
75-09-2	Methylene chloride	ND	0.5
91-20-3	Naphthalene	ND	0.5
103-65-1	N-Propylbenzene	ND	0.5
100-42-5	Styrene	ND	0.5
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.5
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.5
127-18-4	Tetrachloroethene	ND	0.5
108-88-3	Toluene	2.4	0.5
87-61-6	1,2,3-Trichlorobenzene	ND	0.5
120-82-1	1,2,4-Trichlorobenzene	ND	0.5
71-55-6	1,1,1-Trichloroethane	ND	0.5
79-00-5	1,1,2-Trichloroethane	ND	0.5
79-01-6	Trichloroethene	1.5	0.5
75-69-4	Trichlorofluoromethane	ND	0.5
96-18-4	1,2,3-Trichloropropane	ND	0.5
95-63-6	1,2,4-Trimethylbenzene	0.6	0.5
108-67-8	1,3,5-Trimethylbenzene	ND	0.5
75-01-4	Vinyl chloride	ND	0.5
95-47-6	O-xylene	0.5	0.5
108-38-3	Total m&p-xylenes	1.2	0.5

Explanation of terms:

CAS NO : Chemical Abstracts Service Number.

ND : Compound not detected OR less than DL

DL : Detection Limit taking into account MDL and sample dilution considering actual volume of sample analyzed.

Comments: Data will be used as a screening, due to a large amount of head space & air bubbles.

Ohio EPA
Volatile Organic Analysis Data Report
Tentatively Identified Compounds

Sample: O8930 SOUTH DAYTON DUMP

Number TICs found: 3

Concentration units: ug/L

CAS NO.	COMPOUND	R. TIME	EST. C
000078-78-4	Butane, 2-methyl-	2.67	3.87
000109-66-0	Pentane	3.01	3.07
000096-37-7	Cyclopentane, methyl-	6.32	1.11

Notes: Tentatively Identified Compounds are listed for the 10 most prominant compc
Additional compounds may be present if all 10 are listed. Names listed repre
the best fit as determined by library identification by computer. The name list
is not necessarily the name of the actual compound. Where less than 10 cor
are listed, no additional compounds were found.

APP

BY

Date Received 96102126 Lab Number 08932

Station/Location South Dayton Dump - SDGW006

Sample Collected By Pskas / Cisler Affiliation Ohio EPA

Bill to _____ Report Analysis to Steve Mark

Division: [ ]DSW [ ]DDAGW [✓]DERR [ ]DHWM [ ]DAPC [ ]DSIWM _____Other

District: [ ]CDO [ ]NEDO [ ]NWDO [ ]SEDO [✓]SWDO

Sample Type: [✓]Aqueous [ ]Sediment [ ]Tissue [ ]Oil [ ]Air Canister [ ]Air Filter [ ]Grab [ ]Composite

_____Other

Date & Time of Sample — YY MM DD HH MM

Begin 96 10 23 11 55 End ~~96 10 23 17 00~~

Sample Use: [ ]Rush [ ]Litigation [ ]Complaint [✓]Compliance [ ]Survey [ ]Ambient [ ]Other

Well Use: [ ]Industrial [ ]Public [ ]Private

Sample Volume Submitted: 2* # of Vials ____# of Liter Jars _____Other

Analysis Requested	Method		Analyzed	Reported	Analyst
Volatile Organic Compounds (VOC): (GC/MS)	[✓]624	[ ]8260 [ ]524.2	96 10 27	96 11 01	[illegible]
Volatile Organic Compounds (VOC): (GC)	[ ]601&602	[ ]502.2	/ /	/ /	
Base-Neutral & Acid Extractables: (GC/MS)	[ ]625	[ ]8270	/ /	/ /	
Base-Neutral Extractables (PAHs): (GC/MS)	[ ]625	[ ]8270	/ /	/ /	
Acid Extractables (Phenols): (GC/MS)	[ ]625	[ ]8270	/ /	/ /	
Pesticides: (GC)	[ ]608	[ ]8080	/ /	/ /	
Polychlorinated biphenyls (PCBs): (GC)	[ ]608	[ ]8080	/ /	/ /	
Chlordane: (GC)	[ ]608	[ ]8080	/ /	/ /	
Toxaphene: (GC)	[ ]608	[ ]8080	/ /	/ /	
Others: _____			/ /	/ /	

Volatile Preserved with [✓]HCL [ ]Sodium Thiosulfate Bioassay Sample Submitted: [ ]Yes [ ]No

Comments:
Sample ID = SDGW006 * 1 Vial with lg. air bubble. KLH

DES QA approval included on computer printout

SDGW006A 2

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8932 SOUTH DAYTON DUMP	**Method:**	624
Date Collected:	02/23/96	**Collected by:**	PSARA
Data Analyzed:	02/27/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22709.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
71-43-2	Benzene	0.6	0.5
108-86-1	Bromobenzene	ND	0.5
74-97-5	Bromochloromethane	ND	0.5
75-27-4	Bromodichloromethane	ND	0.5
75-25-2	Bromoform	ND	0.5
74-83-9	Bromomethane	ND	0.5
104-51-8	N-Butylbenzene	ND	0.5
135-98-8	Sec-Butylbenzene	ND	0.5
98-06-6	Tert-Butylbenzene	ND	0.5
56-23-5	Carbon tetrachloride	ND	0.5
108-90-7	Chlorobenzene	ND	0.5
75-00-3	Chloroethane	ND	0.5
67-66-3	Chloroform	ND	0.5
74-87-3	Chloromethane	ND	0.5
95-49-8	2-Chlorotoluene	ND	0.5
106-43-4	4-Chlorotoluene	ND	0.5
124-48-1	Dibromochloromethane	ND	0.5
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.5
106-93-4	1,2-Dibromoethane	ND	0.5
74-95-3	Dibromomethane	ND	0.5
95-50-1	1,2-Dichlorobenzene	ND	0.5
541-73-1	1,3-Dichlorobenzene	ND	0.5
106-46-7	1,4-Dichlorobenzene	ND	0.5
75-71-8	Dichlorodifluoromethane	ND	0.5
75-34-3	1,1-Dichloroethane	ND	0.5
107-06-2	1,2-Dichloroethane	ND	0.5
75-35-4	1,1-Dichloroethene	ND	0.5
156-59-4	Cis-1,2-dichloroethene	ND	0.5
156-60-5	Trans-1,2-dichloroethene	ND	0.5
78-87-5	1,2-Dichloropropane	ND	0.5
142-28-9	1,3-Dichloropropane	ND	0.5
594-20-7	2,2-Dichloropropane	ND	0.5
563-58-6	1,1-Dichloropropene	ND	0.5
10061-1-5	Cis-1,3-dichloropropene	ND	0.5
10061-02-6	Trans-1,3-dichloropropene	ND	0.5
100-41-4	Ethylbenzene	ND	0.5
87-68-3	Hexachlorobutadiene	ND	0.5

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8932 SOUTH DAYTON DUMP	**Method:**	624
Date Collected:	02/23/96	**Collected by:**	PSARA
Data Analyzed:	02/27/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22709.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
98-82-8	Isopropylbenzene	ND	0.5
99-87-6	4-Isopropyltoluene	ND	0.5
75-09-2	Methylene chloride	ND	0.5
91-20-3	Naphthalene	ND	0.5
103-65-1	N-Propylbenzene	ND	0.5
100-42-5	Styrene	ND	0.5
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.5
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.5
127-18-4	Tetrachloroethene	ND	0.5
108-88-3	Toluene	1.5	0.5
87-61-6	1,2,3-Trichlorobenzene	ND	0.5
120-82-1	1,2,4-Trichlorobenzene	ND	0.5
71-55-6	1,1,1-Trichloroethane	ND	0.5
79-00-5	1,1,2-Trichloroethane	ND	0.5
79-01-6	Trichloroethene	2.0	0.5
75-69-4	Trichlorofluoromethane	ND	0.5
96-18-4	1,2,3-Trichloropropane	ND	0.5
95-63-6	1,2,4-Trimethylbenzene	ND	0.5
108-67-8	1,3,5-Trimethylbenzene	ND	0.5
75-01-4	Vinyl chloride	ND	0.5
95-47-6	O-xylene	ND	0.5
108-38-3	Total m&p-xylenes	0.7	0.5

Explanation of terms:

CAS NO : Chemical Abstracts Service Number.

ND : Compound not detected OR less than DL

DL : Detection Limit taking into account MDL and sample dilution considering actual volume of sample analyzed.

Comments:

Ohio EPA

Volatile Organic Analysis Data Report

Tentatively Identified Compounds

Sample: O8932 SOUTH DAYTON DUMP

Number TICs found: 0 Concentration units: ug/L

CAS NO.	COMPOUND	R. TIME	EST. CONC

Notes: Tentatively Identified Compounds are listed for the 10 most prominant compounds. Additional compounds may be present if all 10 are listed. Names listed represent the best fit as determined by library identification by computer. The name listed is not necessarily the name of the actual compound. Where less than 10 compounds are listed, no additional compounds were found.

APPROVED BY O.A

MAR 31 1995

BY

Date Received 96 02 26 Lab Number 08935

Station/Location South Dayton Dump - SDGW007

Sample Collected By RSAT / Rick Gisler Affiliation Ohio EPA, DERR

Bill to DERR Report Analysis to Steve Martin

Division: [ ]DSW [ ]DDAGW [✓]DERR [ ]DHWM [ ]DAPC [ ]DSIWM _____Other

District: [ ]CDO [ ]NEDO [ ]NWDO [ ]SEDO [✓]SWDO

Sample Type: [ ]Aqueous [ ]Sediment [ ]Tissue [ ]Oil [ ]Air Canister [ ]Air Filter [ ]Grab [ ]Composite

_____Other

Date & Time of Sample (YY MM DD HH MM)

Begin 96 10 21 23 11 15 End ~~96 10 23 1 13 00~~

Sample Use: [ ]Rush [ ]Litigation [✓]Complaint [ ]Compliance [ ]Survey [ ]Ambient [ ]Other

Well Use: [ ]Industrial [ ]Public [ ]Private

Sample Volume Submitted: 2* # of Vials _____# of Liter Jars _____Other

Analysis Requested	Method		Analyzed	Reported	Analyst
Volatile Organic Compounds (VOC): (GC/MS)	[X]624 [ ]8260	[ ]524.2	96 10 27	96 10 31	[illegible]
Volatile Organic Compounds (VOC): (GC)	[ ]601&602	[ ]502.2	/ /	/ /	
Base-Neutral & Acid Extractables: (GC/MS)	[ ]625	[ ]8270	/ /	/ /	
Base-Neutral Extractables (PAHs): (GC/MS)	[ ]625	[ ]8270	/ /	/ /	
Acid Extractables (Phenols): (GC/MS)	[ ]625	[ ]8270	/ /	/ /	
Pesticides: (GC)	[ ]608	[ ]8080	/ /	/ /	
Polychlorinated biphenyls (PCBs): (GC)	[ ]608	[ ]8080	/ /	/ /	
Chlordane: (GC)	[ ]608	[ ]8080	/ /	/ /	
Toxaphene: (GC)	[ ]608	[ ]8080	/ /	/ /	
Others: _____			/ /	/ /	

Volatile Preserved with [✓]HCL [ ]Sodium Thiosulfate Bioassay Sample Submitted: [ ]Yes [ ]No

Comments:

SDGW007 = SAMPLE #

* Small air bubble in 1 Vial.

DES CA approval included on computer printout

DDGA 24 Duplicate

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8933 SOUTH DAYTON DUMP	**Method:**	624
Date Collected:	02/23/96	**Collected by:**	PSARA
Data Analyzed:	02/27/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22710.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
71-43-2	Benzene	0.5	0.5
108-86-1	Bromobenzene	ND	0.5
74-97-5	Bromochloromethane	ND	0.5
75-27-4	Bromodichloromethane	ND	0.5
75-25-2	Bromoform	ND	0.5
74-83-9	Bromomethane	ND	0.5
104-51-8	N-Butylbenzene	ND	0.5
135-98-8	Sec-Butylbenzene	ND	0.5
98-06-6	Tert-Butylbenzene	ND	0.5
56-23-5	Carbon tetrachloride	ND	0.5
108-90-7	Chlorobenzene	ND	0.5
75-00-3	Chloroethane	ND	0.5
67-66-3	Chloroform	ND	0.5
74-87-3	Chloromethane	ND	0.5
95-49-8	2-Chlorotoluene	ND	0.5
106-43-4	4-Chlorotoluene	ND	0.5
124-48-1	Dibromochloromethane	ND	0.5
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.5
106-93-4	1,2-Dibromoethane	ND	0.5
74-95-3	Dibromomethane	ND	0.5
95-50-1	1,2-Dichlorobenzene	ND	0.5
541-73-1	1,3-Dichlorobenzene	ND	0.5
106-46-7	1,4-Dichlorobenzene	ND	0.5
75-71-8	Dichlorodifluoromethane	ND	0.5
75-34-3	1,1-Dichloroethane	ND	0.5
107-06-2	1,2-Dichloroethane	0.8	0.5
75-35-4	1,1-Dichloroethene	ND	0.5
156-59-4	Cis-1,2-dichloroethene	ND	0.5
156-60-5	Trans-1,2-dichloroethene	ND	0.5
78-87-5	1,2-Dichloropropane	ND	0.5
142-28-9	1,3-Dichloropropane	ND	0.5
594-20-7	2,2-Dichloropropane	ND	0.5
563-58-6	1,1-Dichloropropene	ND	0.5
10061-1-5	Cis-1,3-dichloropropene	ND	0.5
10061-02-6	Trans-1,3-dichloropropene	ND	0.5
100-41-4	Ethylbenzene	ND	0.5
87-68-3	Hexachlorobutadiene	ND	0.5

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8933 SOUTH DAYTON DUMP	**Method:**	624
Date Collected:	02/23/96	**Collected by:**	PSARA
Data Analyzed;	02/27/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22710.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
98-82-8	Isopropylbenzene	ND	0.5
99-87-6	4-Isopropyltoluene	ND	0.5
75-09-2	Methylene chloride	ND	0.5
91-20-3	Naphthalene	ND	0.5
103-65-1	N-Propylbenzene	ND	0.5
100-42-5	Styrene	ND	0.5
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.5
79-34-5	1,1,2,2-Tetrachloroetnane	ND	0.5
127-18-4	Tetrachloroethene	ND	0.5
108-88-3	Toluene	1.5	0.5
87-61-6	1,2,3-Trichlorobenzene	ND	0.5
120-82-1	1,2,4-Trichlorobenzene	ND	0.5
71-55-6	1,1,1-Trichloroethane	ND	0.5
79-00-5	1,1,2-Trichloroethane	ND	0.5
79-01-6	Trichloroethene	2.2	0.5
75-69-4	Trichlorofluoromethane	ND	0.5
96-18-4	1,2,3-Trichloropropane	ND	0.5
95-63-6	1,2,4-Trimethylbenzene	ND	0.5
108-67-8	1,3,5-Trimethylbenzene	ND	0.5
75-01-4	Vinyl chloride	ND	0.5
95-47-6	O-xylene	ND	0.5
108-38-3	Total m&p-xylenes	0.7	0.5

Explanation of terms:

CAS NO : Chemical Abstracts Service Number.

ND : Compound not detected OR less than DL

DL : Detection Limit taking into account MDL and sample dilution considering actual volume of sample analyzed.

Comments:

Ohio EPA

Volatile Organic Analysis Data Report

Tentatively Identified Compounds

Sample: O8933 SOUTH DAYTON DUMP

Number TICs found: 0 Concentration units: ug/L

CAS NO.	COMPOUND	R. TIME	EST. CONC

Notes: Tentatively Identified Compounds are listed for the 10 most prominant compounds. Additional compounds may be present if all 10 are listed. Names listed represent the best fit as determined by library identification by computer. The name listed is not necessarily the name of the actual compound. Where less than 10 compounds are listed, no additional compounds were found.

APPROVED BY O.A

MAR 21 1996

BY J. McDaniel

Date Received 961021 21

Lab Number MAR 0 5 1996 08942

Station/Location South Dayton Dump SDDGW008 SOUTHWEST DISTRICT

Sample Collected By Barn/Gisler Affiliation Derr

Bill to DERR Report Analysis to Steve Martin

Division: [ ]DSW [ ]DDAGW [X]DERR [ ]DHWM [ ]DAPC [ ]DSIWM _____Other

District: [ ]CDO [ ]NEDO [ ]NWDO [ ]SEDO [X]SWDO

Sample Type: [X]Aqueous [ ]Sediment [ ]Tissue [ ]Oil [ ]Air Canister [ ]Air Filter [ ]Grab [ ]Composite

_____Other

	YY MM DD HH MM		YY MM DD HH MM
Date & Time of Sample Begin	96 10 21 26 09 45	End	__ __ __ __ __

Sample Use: [ ]Rush [ ]Litigation [ ]Complaint [X]Compliance [ ]Survey [ ]Ambient [ ]Other

Well Use: [ ]Industrial [ ]Public [ ]Private NA

Sample Volume Submitted: 2R # of Vials ____ # of Liter Jars _____Other

Analysis Requested	Method		Analyzed	Reported	Analyst
Volatile Organic Compounds (VOC): (GC/MS)	[X]624 [ ]8260	[ ]524.2	96 10 27	96 10 31	VT
Volatile Organic Compounds (VOC): (GC)	[ ]601&602	[ ]502.2	__/__/__	__/__/__	
Base-Neutral & Acid Extractables: (GC/MS)	[ ]625	[ ]8270	__/__/__	__/__/__	
Base-Neutral Extractables (PAHs): (GC/MS)	[ ]625	[ ]8270	__/__/__	__/__/__	
Acid Extractables (Phenols): (GC/MS)	[ ]625	[ ]8270	__/__/__	__/__/__	
Pesticides: (GC)	[ ]608	[ ]8080	__/__/__	__/__/__	
Polychlorinated biphenyls (PCBs): (GC)	[ ]608	[ ]8080	__/__/__	__/__/__	
Chlordane: (GC)	[ ]608	[ ]8080	__/__/__	__/__/__	
Toxaphene: (GC)	[ ]608	[ ]8080	__/__/__	__/__/__	
Others: _____			__/__/__	__/__/__	

Volatile Preserved with [X]HCL [ ]Sodium Thiosulfate Bioassay Sample Submitted: [ ]Yes [ ]No

Comments:

* air bubbles in Both Vials

DES QA approval included on computer printout

SD005 2R-01

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8942 SOUTH DAYTON DUMP	**Method:**	624
Date Collected:	02/26/96	**Collected by:**	CISLER
Data Analyzed:	02/27/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22712.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
71-43-2	Benzene	0.7	0.5
108-86-1	Bromobenzene	ND	0.5
74-97-5	Bromochloromethane	ND	0.5
75-27-4	Bromodichloromethane	ND	0.5
75-25-2	Bromoform	ND	0.5
74-83-9	Bromomethane	ND	0.5
104-51-8	N-Butylbenzene	ND	0.5
135-98-8	Sec-Butylbenzene	ND	0.5
98-06-6	Tert-Butylbenzene	ND	0.5
56-23-5	Carbon tetrachloride	ND	0.5
108-90-7	Chlorobenzene	ND	0.5
75-00-3	Chloroethane	ND	0.5
67-66-3	Chloroform	ND	0.5
74-87-3	Chloromethane	ND	0.5
95-49-8	2-Chlorotoluene	ND	0.5
106-43-4	4-Chlorotoluene	ND	0.5
124-48-1	Dibromochloromethane	ND	0.5
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.5
106-93-4	1,2-Dibromoethane	ND	0.5
74-95-3	Dibromomethane	ND	0.5
95-50-1	1,2-Dichlorobenzene	ND	0.5
541-73-1	1,3-Dichlorobenzene	ND	0.5
106-46-7	1,4-Dichlorobenzene	ND	0.5
75-71-8	Dichlorodifluoromethane	ND	0.5
75-34-3	1,1-Dichloroethane	ND	0.5
107-06-2	1,2-Dichloroethane	ND	0.5
75-35-4	1,1-Dichloroethene	ND	0.5
156-59-4	Cis-1,2-dichloroethene	ND	0.5
156-60-5	Trans-1,2-dichloroethene	ND	0.5
78-87-5	1,2-Dichloropropane	ND	0.5
142-28-9	1,3-Dichloropropane	ND	0.5
594-20-7	2,2-Dichloropropane	ND	0.5
563-58-6	1,1-Dichloropropene	ND	0.5
10061-1-5	Cis-1,3-dichloropropene	ND	0.5
10061-02-6	Trans-1,3-dichloropropene	ND	0.5
100-41-4	Ethylbenzene	0.6	0.5
87-68-3	Hexachlorobutadiene	ND	0.5

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8942 SOUTH DAYTON DUMP	**Method:**	624
Date Collected:	02/26/96	**Collected by:**	CISLER
Data Analyzed:	02/27/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22712.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
98-82-8	Isopropylbenzene	ND	0.5
99-87-6	4-Isopropyltoluene	ND	0.5
75-09-2	Methylene chloride	ND	0.5
91-20-3	Naphthalene	ND	0.5
103-65-1	N-Propylbenzene	ND	0.5
100-42-5	Styrene	ND	0.5
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.5
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.5
127-18-4	Tetrachloroethene	ND	0.5
108-88-3	Toluene	2.1	0.5
87-61-6	1,2,3-Trichlorobenzene	ND	0.5
120-82-1	1,2,4-Trichlorobenzene	ND	0.5
71-55-6	1,1,1-Trichloroethane	ND	0.5
79-00-5	1,1,2-Trichloroethane	ND	0.5
79-01-6	Trichloroethene	ND	0.5
75-69-4	Trichlorofluoromethane	ND	0.5
96-18-4	1,2,3-Trichloropropane	ND	0.5
95-63-6	1,2,4-Trimethylbenzene	ND	0.5
108-67-8	1,3,5-Trimethylbenzene	ND	0.5
75-01-4	Vinyl chloride	ND	0.5
95-47-6	O-xylene	ND	0.5
108-38-3	Total m&p-xylenes	0.9	0.5

Explanation of terms:

CAS NO : Chemical Abstracts Service Number.

ND : Compound not detected OR less than DL

DL : Detection Limit taking into account MDL and sample dilution considering actual volume of sample analyzed.

Comments: Data will be used as a screening, due to a large amount of head space & air bubbles.

Ohio EPA

Volatile Organic Analysis Data Report

Tentatively Identified Compounds

Sample: O8942 SOUTH DAYTON DUMP

Number TICs found: 1 Concentration units: ug/L

CAS NO.	COMPOUND	R. TIME	EST. CONC
000106-97-8	Butane	2.04	5.65

Notes: Tentatively Identified Compounds are listed for the 10 most prominant compounds. Additional compounds may be present if all 10 are listed. Names listed represent the best fit as determined by library identification by computer. The name listed is not necessarily the name of the actual compound. Where less than 10 compounds are listed, no additional compounds were found.

APPROVED BY Q.A

MAR 01 1995

BY

Date Received 961021 27 MAR 05 1996 Lab Number 08941

Station/Location South Dayton Dump SDDGW09 ...WEST DISTRICT...

Sample Collected By Penn/Cisler Affiliation DERR

Bill to DERR Report Analysis to Steve Martin

Division: [ ]DSW [ ]DDAGW [X]DERR [ ]DHWM [ ]DAPC [ ]DSIWM _____Other

District: [ ]CDO [ ]NEDO [ ]NWDO [ ]SEDO [X]SWDO

Sample Type: [X]Aqueous [ ]Sediment [ ]Tissue [ ]Oil [ ]Air Canister [ ]Air Filter [ ]Grab [ ]Composite

_____Other

YY MM DD HH MM YY MM DD HH MM

Date & Time of Sample Begin 961021 26 1013 0 End __ __ __ __ __

Sample Use: [ ]Rush [ ]Litigation [X]Complaint [X]Compliance [ ]Survey [ ]Ambient [ ]Other 42-43

Well Use: [ ]Industrial [ ]Public [ ]Private NA

Sample Volume Submitted: 2 # of Vials ____# of Liter Jars _____Other

Analysis Requested	Method		Analyzed	Reported	Analyst
Volatile Organic Compounds (VOC): (GC/MS)	[X]624 [ ]8260 [ ]524.2		961021 27	961031 01	VJ
Volatile Organic Compounds (VOC): (GC)	[ ]601&602	[ ]502.2	__/__/__	__/__/__	
Base-Neutral & Acid Extractables: (GC/MS)	[ ]625	[ ]8270	__/__/__	__/__/__	
Base-Neutral Extractables (PAHs): (GC/MS)	[ ]625	[ ]8270	__/__/__	__/__/__	
Acid Extractables (Phenols): (GC/MS)	[ ]625	[ ]8270	__/__/__	__/__/__	
Pesticides: (GC)	[ ]608	[ ]8080	__/__/__	__/__/__	
Polychlorinated biphenyls (PCBs): (GC)	[ ]608	[ ]8080	__/__/__	__/__/__	
Chlordane: (GC)	[ ]608	[ ]8080	__/__/__	__/__/__	
Toxaphene: (GC)	[ ]608	[ ]8080	__/__/__	__/__/__	
Others: _____			__/__/__	__/__/__	

Volatile Preserved with [X]HCL [ ]Sodium Thiosulfate Bioassay Sample Submitted: [ ]Yes [ ]No

Comments:
* Headspace on Both Vials - Use as a Screening only per U.S.

DES QA approval included on computer printout

SDDGW09 42-43

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8941 SOUTH DAYTON DUMP	**Method:**	624
Date Collected:	02/26/96	**Collected by:**	CISLER
Data Analyzed:	02/27/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22711.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
71-43-2	Benzene	1.6	0.5
108-86-1	Bromobenzene	ND	0.5
74-97-5	Bromochloromethane	ND	0.5
75-27-4	Bromodichloromethane	ND	0.5
75-25-2	Bromoform	ND	0.5
74-83-9	Bromomethane	ND	0.5
104-51-8	N-Butylbenzene	ND	0.5
135-98-8	Sec-Butylbenzene	ND	0.5
98-06-6	Tert-Butylbenzene	ND	0.5
56-23-5	Carbon tetrachloride	ND	0.5
108-90-7	Chlorobenzene	ND	0.5
75-00-3	Chloroethane	ND	0.5
67-66-3	Chloroform	ND	0.5
74-87-3	Chloromethane	ND	0.5
95-49-8	2-Chlorotoluene	ND	0.5
106-43-4	4-Chlorotoluene	ND	0.5
124-48-1	Dibromochloromethane	ND	0.5
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.5
106-93-4	1,2-Dibromoethane	ND	0.5
74-95-3	Dibromomethane	ND	0.5
95-50-1	1,2-Dichlorobenzene	ND	0.5
541-73-1	1,3-Dichlorobenzene	ND	0.5
106-46-7	1,4-Dichlorobenzene	ND	0.5
75-71-8	Dichlorodifluoromethane	ND	0.5
75-34-3	1,1-Dichloroethane	ND	0.5
107-06-2	1,2-Dichloroethane	ND	0.5
75-35-4	1,1-Dichloroethene	ND	0.5
156-59-4	Cis-1,2-dichloroethene	ND	0.5
156-60-5	Trans-1,2-dichloroethene	ND	0.5
78-87-5	1,2-Dichloropropane	ND	0.5
142-28-9	1,3-Dichloropropane	ND	0.5
594-20-7	2,2-Dichloropropane	ND	0.5
563-58-6	1,1-Dichloropropene	ND	0.5
10061-1-5	Cis-1,3-dichloropropene	ND	0.5
10061-02-6	Trans-1,3-dichloropropene	ND	0.5
100-41-4	Ethylbenzene	0.7	0.5
87-68-3	Hexachlorobutadiene	ND	0.5

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8941 SOUTH DAYTON DUMP	**Method:**	624
Date Collected:	02/26/96	**Collected by:**	CISLER
Data Analyzed:	02/27/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22711.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
98-82-8	Isopropylbenzene	ND	0.5
99-87-6	4-Isopropyltoluene	ND	0.5
75-09-2	Methylene chloride	ND	0.5
91-20-3	Naphthalene	ND	0.5
103-65-1	N-Propylbenzene	ND	0.5
100-42-5	Styrene	ND	0.5
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.5
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.5
127-18-4	Tetrachloroethene	ND	0.5
108-88-3	Toluene	2.9	0.5
87-61-6	1,2,3-Trichlorobenzene	ND	0.5
120-82-1	1,2,4-Trichlorobenzene	ND	0.5
71-55-6	1,1,1-Trichloroethane	ND	0.5
79-00-5	1,1,2-Trichloroethane	ND	0.5
79-01-6	Trichloroethene	2.4	0.5
75-69-4	Trichlorofluoromethane	ND	0.5
96-18-4	1,2,3-Trichloropropane	ND	0.5
95-63-6	1,2,4-Trimethylbenzene	0.5	0.5
108-67-8	1,3,5-Trimethylbenzene	ND	0.5
75-01-4	Vinyl chloride	ND	0.5
95-47-6	O-xylene	0.7	0.5
108-38-3	Total m&p-xylenes	0.9	0.5

Explanation of terms:

CAS NO : Chemical Abstracts Service Number.

ND : Compound not detected OR less than DL

DL : Detection Limit taking into account MDL and sample dilution considering actual volume of sample analyzed.

Comments: Data will be used as a screening only, due to large amount of head space & air bubbles.

Ohio EPA

Volatile Organic Analysis Data Report

Tentatively Identified Compounds

Sample: O8941 SOUTH DAYTON DUMP

Number TICs found: 2 Concentration units: ug/L

CAS NO.	COMPOUND	R. TIME	EST. CONC
000106-98-9	1-Butene	2.01	4.76
000115-11-7	1-Propene, 2-methyl-	2.03	0.93

Notes: Tentatively Identified Compounds are listed for the 10 most prominant compounds. Additional compounds may be present if all 10 are listed. Names listed represent the best fit as determined by library identification by computer. The name listed is not necessarily the name of the actual compound. Where less than 10 compounds are listed, no additional compounds were found.

APPROVED BY Q.A

MAR 01 1995

BY J McDaniel

APPENDIX F

Quality Control Sample Analytical Reports

ORGANIC SAMPLE SUBMISSION / REPORT FORM

Date Received 96/02/21 Lab Number 08922

Station/Location South Dayton Dump SOR1001-B

Sample Collected By PSARA / Mark Justice Affiliation PSARA is LOE Contractor

Bill to DERR Report Analysis to Rick Cisko / DERR

Division: [ ]DSW [ ]DDAGW [✓]DERR [ ]DHWM [ ]DAPC [ ]DSIWM _____Other

District: [ ]CDO [ ]NEDO [ ]NWDO [ ]SEDO [✓]SWDO

Sample Type: [✓]Aqueous [ ]Sediment [ ]Tissue [ ]Oil [ ]Air Canister [ ]Air Filter [X]Grab [ ]Composite _____Other

	YY	MM	DD	HH	MM
Date & Time of Sample Begin	96	02	20	10	30
End	/	/	/	/	

Sample Use: [ ]Rush [ ]Litigation [✓]Complaint [ ]Compliance [ ]Survey [ ]Ambient [ ]Other

Well Use: [ ]Industrial [ ]Public [ ]Private N/A

Sample Volume Submitted: 2 # of Vials _____# of Liter Jars _____Other

Analysis Requested	Method		Analyzed	Reported	Analyst
Volatile Organic Compounds (VOC): (GC/MS)	[✓]624 [ ]8260	[ ]524.2	96/02/22	96/02/26	AT
Volatile Organic Compounds (VOC): (GC)	[ ]601&602	[ ]502.2	/ /	/ /	
Base-Neutral & Acid Extractables: (GC/MS)	[ ]625	[ ]8270	/ /	/ /	
Base-Neutral Extractables (PAHs): (GC/MS)	[ ]625	[ ]8270	/ /	/ /	
Acid Extractables (Phenols): (GC/MS)	[ ]625	[ ]8270	/ /	/ /	
Pesticides: (GC)	[ ]608	[ ]8080	/ /	/ /	
Polychlorinated biphenyls (PCBs): (GC)	[ ]608	[ ]8080	/ /	/ /	
Chlordane: (GC)	[ ]608	[ ]8080	/ /	/ /	
Toxaphene: (GC)	[ ]608	[ ]8080	/ /	/ /	
Others: _____			/ /	/ /	

Volatile Preserved with [X]HCL [ ]Sodium Thiosulfate Bioassay Sample Submitted: [ ]Yes [✓]No

Comments:

DES QA approval included on computer printout

Rinsate

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8922 SOUTH DAYTON DUMP	**Method:**	624
Date Collected:	02/20/96	**Collected by:**	PASARA
Data Analyzed:	02/22/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22207.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
71-43-2	Benzene	ND	0.5
108-86-1	Bromobenzene	ND	0.5
74-97-5	Bromochloromethane	ND	0.5
75-27-4	Bromodichloromethane	ND	0.5
75-25-2	Bromoform	ND	0.5
74-83-9	Bromomethane	ND	0.5
104-51-8	N-Butylbenzene	ND	0.5
135-98-8	Sec-Butylbenzene	ND	0.5
98-06-6	Tert-Butylbenzene	ND	0.5
56-23-5	Carbon tetrachloride	ND	0.5
108-90-7	Chlorobenzene	ND	0.5
75-00-3	Chloroethane	ND	0.5
67-66-3	Chloroform	ND	0.5
74-87-3	Chloromethane	ND	0.5
95-49-8	2-Chlorotoluene	ND	0.5
106-43-4	4-Chlorotoluene	ND	0.5
124-48-1	Dibromochloromethane	ND	0.5
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.5
106-93-4	1,2-Dibromoethane	ND	0.5
74-95-3	Dibromomethane	ND	0.5
95-50-1	1,2-Dichlorobenzene	ND	0.5
541-73-1	1,3-Dichlorobenzene	ND	0.5
106-46-7	1,4-Dichlorobenzene	ND	0.5
75-71-8	Dichlorodifluoromethane	ND	0.5
75-34-3	1,1-Dichloroethane	ND	0.5
107-06-2	1,2-Dichloroethane	ND	0.5
75-35-4	1,1-Dichloroethene	ND	0.5
156-59-4	Cis-1,2-dichloroethene	ND	0.5
156-60-5	Trans-1,2-dichloroethene	ND	0.5
78-87-5	1,2-Dichloropropane	ND	0.5
142-28-9	1,3-Dichloropropane	ND	0.5
594-20-7	2,2-Dichloropropane	ND	0.5
563-58-6	1,1-Dichloropropene	ND	0.5
10061-1-5	Cis-1,3-dichloropropene	ND	0.5
10061-02-6	Trans-1,3-dichloropropene	ND	0.5
100-41-4	Ethylbenzene	ND	0.5
87-68-3	Hexachlorobutadiene	ND	0.5

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8922 SOUTH DAYTON DUMP	**Method:**	624
Date Collected:	02/20/96	**Collected by:**	PASARA
Data Analyzed:	02/22/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22207.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
98-82-8	Isopropylbenzene	ND	0.5
99-87-6	4-Isopropyltoluene	ND	0.5
75-09-2	Methylene chloride	0.6	0.5
91-20-3	Naphthalene	ND	0.5
103-65-1	N-Propylbenzene	ND	0.5
100-42-5	Styrene	ND	0.5
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.5
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.5
127-18-4	Tetrachloroethene	ND	0.5
108-88-3	Toluene	ND	0.5
87-61-6	1,2,3-Trichlorobenzene	ND	0.5
120-82-1	1,2,4-Trichlorobenzene	ND	0.5
71-55-6	1,1,1-Trichloroethane	ND	0.5
79-00-5	1,1,2-Trichloroethane	ND	0.5
79-01-6	Trichloroethene	ND	0.5
75-69-4	Trichlorofluoromethane	ND	0.5
96-18-4	1,2,3-Trichloropropane	ND	0.5
95-63-6	1,2,4-Trimethylbenzene	ND	0.5
108-67-8	1,3,5-Trimethylbenzene	ND	0.5
75-01-4	Vinyl chloride	ND	0.5
95-47-6	O-xylene	ND	0.5
108-38-3	Total m&p-xylenes	ND	0.5

Explanation of terms:

CAS NO : Chemical Abstracts Service Number.

ND : Compound not detected OR less than DL

DL : Detection Limit taking into account MDL and sample dilution considering actual volume of sample analyzed.

Comments:

Ohio EPA

Volatile Organic Analysis Data Report

Tentatively Identified Compounds

Sample: O8922 SOUTH DAYTON DUMP

Number TICs found: 2 Concentration units: ug/L

CAS NO.	COMPOUND	R. TIME	EST. CONC
000067-64-1	Acetone	3.71	1.57
001066-40-6	Silanol, trimethyl-	6.64	1.98

Notes: Tentatively Identified Compounds are listed for the 10 most prominant compounds. Additional compounds may be present if all 10 are listed. Names listed represent the best fit as determined by library identification by computer. The name listed is not necessarily the name of the actual compound. Where less than 10 compounds are listed, no additional compounds were found.

APPROVED BY Q.A

FEB 2 3 1995

BY

Date Received 96 10 21 23 Lab Number 08927

Station/Location SOUTH DAYTON DUMP SDRIOO2 BOEING SOOO1

Sample Collected By RICH SUCK/PSAT, B. MARTIN/ECY Affiliation PSAT IS LOE CONTRACTOR

Bill to ECY Report Analysis to RICK USLEGE ECY/SWRO

Division: [ ]DSW [ ]DDAGW [✓]DERR [ ]DHWM [ ]DAPC [ ]DSIWM _____Other

District: [ ]CDO [ ]NEDO [ ]NWDO [ ]SEDO [✓]SWDO

Sample Type: [✓]Aqueous [ ]Sediment [ ]Tissue [ ]Oil [ ]Air Canister [ ]Air Filter [ ]Grab [ ]Composite

_____Other

	YY MM DD	HH MM		YY MM DD	HH MM
Date & Time of Sample Begin	96 12 12	16 30	End	96 12 12	16 36

Sample Use: [ ]Rush [ ]Litigation [ ]Complaint [✓]Compliance [✓]Survey [ ]Ambient [ ]Other

Well Use: [ ]Industrial [ ]Public [ ]Private N/A

Sample Volume Submitted: 2 # of Vials — # of Liter Jars — Other

Analysis Requested	Method		Analyzed	Reported	Analyst
Volatile Organic Compounds (VOC): (GC/MS)	[✓]624 [ ]8260	[ ]524.2	961021 27	961031 01	[illegible]
Volatile Organic Compounds (VOC): (GC)	[ ]601&602	[ ]502.2	/ /	/ /	
Base-Neutral & Acid Extractables: (GC/MS)	[ ]625	[ ]8270	/ /	/ /	
Base-Neutral Extractables (PAHs): (GC/MS)	[ ]625	[ ]8270	/ /	/ /	
Acid Extractables (Phenols): (GC/MS)	[ ]625	[ ]8270	/ /	/ /	
Pesticides: (GC)	[ ]608	[ ]8080	/ /	/ /	
Polychlorinated biphenyls (PCBs): (GC)	[ ]608	[ ]8080	/ /	/ /	
Chlordane: (GC)	[ ]608	[ ]8080	/ /	/ /	
Toxaphene: (GC)	[ ]608	[ ]8080	/ /	/ /	
Others: _____			/ /	/ /	

Volatile Preserved with [✓]HCL [ ]Sodium Thiosulfate Bioassay Sample Submitted: [ ]Yes [✓]No

Comments: RINSATE SAMPLE

DES QA approval included on computer printout

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8927 SOUTH DAYTON DUMP	**Method:**	624
Date Collected:	02/21/96	**Collected by:**	PSARA
Data Analyzed:	02/27/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22713.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
71-43-2	Benzene	ND	0.5
108-86-1	Bromobenzene	ND	0.5
74-97-5	Bromochloromethane	ND	0.5
75-27-4	Bromodichloromethane	ND	0.5
75-25-2	Bromoform	ND	0.5
74-83-9	Bromomethane	ND	0.5
104-51-8	N-Butylbenzene	ND	0.5
135-98-8	Sec-Butylbenzene	ND	0.5
98-06-6	Tert-Butylbenzene	ND	0.5
56-23-5	Carbon tetrachloride	ND	0.5
108-90-7	Chlorobenzene	ND	0.5
75-00-3	Chloroethane	ND	0.5
67-66-3	Chloroform	ND	0.5
74-87-3	Chloromethane	ND	0.5
95-49-8	2-Chlorotoluene	ND	0.5
106-43-4	4-Chlorotoluene	ND	0.5
124-48-1	Dibromochloromethane	ND	0.5
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.5
106-93-4	1,2-Dibromoethane	ND	0.5
74-95-3	Dibromomethane	ND	0.5
95-50-1	1,2-Dichlorobenzene	ND	0.5
541-73-1	1,3-Dichlorobenzene	ND	0.5
106-46-7	1,4-Dichlorobenzene	ND	0.5
75-71-8	Dichlorodifluoromethane	ND	0.5
75-34-3	1,1-Dichloroethane	ND	0.5
107-06-2	1,2-Dichloroethane	0.9	0.5
75-35-4	1,1-Dichloroethene	ND	0.5
156-59-4	Cis-1,2-dichloroethene	ND	0.5
156-60-5	Trans-1,2-dichloroethene	ND	0.5
78-87-5	1,2-Dichloropropane	ND	0.5
142-28-9	1,3-Dichloropropane	ND	0.5
594-20-7	2,2-Dichloropropane	ND	0.5
563-58-6	1,1-Dichloropropene	ND	0.5
10061-1-5	Cis-1,3-dichloropropene	ND	0.5
10061-02-6	Trans-1,3-dichloropropene	ND	0.5
100-41-4	Ethylbenzene	ND	0.5
87-68-3	Hexachlorobutadiene	ND	0.5

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8927 SOUTH DAYTON DUMP	**Method:**	624
Date Collected:	02/21/96	**Collected by:**	PSARA
Data Analyzed:	02/27/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22713.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
98-82-8	Isopropylbenzene	ND	0.5
99-87-6	4-Isopropyltoluene	ND	0.5
75-09-2	Methylene chloride	0.7	0.5
91-20-3	Naphthalene	ND	0.5
103-65-1	N-Propylbenzene	ND	0.5
100-42-5	Styrene	ND	0.5
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.5
79-34-5	1,1.2.2-Tetrachloroethane	ND	0.5
127-18-4	Tetrachloroethene	ND	0.5
108-88-3	Toluene	ND	0.5
87-61-6	1,2,3-Trichlorobenzene	ND	0.5
120-82-1	1,2,4-Trichlorobenzene	ND	0.5
71-55-6	1,1,1-Trichloroethane	ND	0.5
79-00-5	1,1,2-Trichioroethane	ND	0.5
79-01-6	Trichloroethene	ND	0.5
75-69-4	Trichlorofluoromethane	ND	0.5
96-18-4	1,2,3-Trichloropropane	ND	0.5
95-63-6	1,2,4-Trimethylbenzene	ND	0.5
108-67-8	1,3,5-Trimethylbenzene	ND	0.5
75-01-4	Vinyl chloride	ND	0.5
95-47-6	O-xylene	ND	0.5
108-38-3	Total m&p-xylenes	ND	0.5

Explanation of terms:

CAS NO : Chemical Abstracts Service Number.

ND : Compound not detected OR less than DL

DL : Detection Limit taking into account MDL and sample dilution considering actual volume of sample analyzed.

Comments:

Ohio EPA

Volatile Organic Analysis Data Report

Tentatively Identified Compounds

Sample: O8927 SOUTH DAYTON DUMP

Number TICs found: 1 Concentration units: ug/L

CAS NO.	COMPOUND	R. TIME	EST. CONC
000067-64-1	Acetone	3.72	1.99

Notes: Tentatively Identified Compounds are listed for the 10 most prominant compounds. Additional ccmpounds may be present if all 10 are listed. Names listed represent the best fit as determined by library identification by computer. The name listed is not necessarily the name of the actual compound. Where less than 10 compounds are listed, no additional compounds were found.

APPROVED BY Q.A

MAR 31 1995

BY

Date Received 961021261 Lab Number 08931

Station/Location South Dayton Dump - SD005 - SDRI-003

Sample Collected By PSARA / RICK CISLER Affiliation Ohio EPA, DERR

Bill to _____ Report Analysis to Steve Martin, DERR

Division: [ ]DSW [ ]DDAGW [✓]DERR [ ]DHWM [ ]DAPC [ ]DSIWM _____Other

District: [ ]CDO [ ]NEDO [ ]NWDO [ ]SEDO [✓]SWDO

Sample Type: [✓]Aqueous [ ]Sediment [ ]Tissue [ ]Oil [ ]Air Canister [ ]Air Filter [ ]Grab [ ]Composite _____Other

Date & Time of Sample Begin YY MM DD HH MM 96 10 23 14 00 End ~~96 10 23 14 15~~

Sample Use: [ ]Rush [ ]Litigation [ ]Complaint [✓]Compliance [ ]Survey [ ]Ambient [ ]Other

Well Use: [ ]Industrial [ ]Public [ ]Private

Sample Volume Submitted: 2 # of Vials ____# of Liter Jars _____Other

Analysis Requested	Method		Analyzed	Reported	Analyst
Volatile Organic Compounds (VOC): (GC/MS)	[✓]624 [ ]8260 [ ]524.2		961021 27	961031 1	AT
Volatile Organic Compounds (VOC): (GC)	[ ]601&602	[ ]502.2	/ /	/ /	
Base-Neutral & Acid Extractables: (GC/MS)	[ ]625	[ ]8270	/ /	/ /	
Base-Neutral Extractables (PAHs): (GC/MS)	[ ]625	[ ]8270	/ /	/ /	
Acid Extractables (Phenols): (GC/MS)	[ ]625	[ ]8270	/ /	/ /	
Pesticides: (GC)	[ ]608	[ ]8080	/ /	/ /	
Polychlorinated biphenyls (PCBs): (GC)	[ ]608	[ ]8080	/ /	/ /	
Chlordane: (GC)	[ ]608	[ ]8080	/ /	/ /	
Toxaphene: (GC)	[ ]608	[ ]8080	/ /	/ /	
Others: _____			/ /	/ /	

Volatile Preserved with [✓]HCL [ ]Sodium Thiosulfate Bioassay Sample Submitted: [ ]Yes [ ]No

Comments:

SD005 - SDRI 003

DES CA approval included on computer printout

RINSATE

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8931 SOUTH DAYTON DUMP	**Method:**	624
Date Collected:	02/23/96	**Collected by:**	PSARA
Data Analyzed:	02/27/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22715.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
71-43-2	Benzene	ND	0.5
108-86-1	Bromobenzene	ND	0.5
74-97-5	Bromochloromethane	ND	0.5
75-27-4	Bromodichloromethane	ND	0.5
75-25-2	Bromoform	ND	0.5
74-83-9	Bromomethane	ND	0.5
104-51-8	N-Butylbenzene	ND	0.5
135-98-8	Sec-Butylbenzene	ND	0.5
98-06-6	Tert-Butylbenzene	ND	0.5
56-23-5	Carbon tetrachloride	ND	0.5
108-90-7	Chlorobenzene	ND	0.5
75-00-3	Chloroethane	ND	0.5
67-66-3	Chloroform	ND	0.5
74-87-3	Chloromethane	ND	0.5
95-49-8	2-Chlorotoluene	ND	0.5
106-43-4	4-Chlorotoluene	ND	0.5
124-48-1	Dibromochloromethane	ND	0.5
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.5
106-93-4	1,2-Dibromoethane	ND	0.5
74-95-3	Dibromomethane	ND	0.5
95-50-1	1,2-Dichlorobenzene	ND	0.5
541-73-1	1,3-Dichlorobenzene	ND	0.5
106-46-7	1,4-Dichlorobenzene	ND	0.5
75-71-8	Dichlorodifluoromethane	ND	0.5
75-34-3	1,1-Dichloroethane	ND	0.5
107-06-2	1,2-Dichloroethane	ND	0.5
75-35-4	1,1-Dichloroethene	ND	0.5
156-59-4	Cis-1,2-dichloroethene	ND	0.5
156-60-5	Trans-1,2-dichloroethene	ND	0.5
78-87-5	1,2-Dichloropropane	ND	0.5
142-28-9	1,3-Dichloropropane	ND	0.5
594-20-7	2,2-Dichloropropane	ND	0.5
563-58-6	1,1-Dichloropropene	ND	0.5
10061-1-5	Cis-1,3-dichloropropene	ND	0.5
10061-02-6	Trans-1,3-dichloropropene	ND	0.5
100-41-4	Ethylbenzene	ND	0.5
87-68-3	Hexachlorobutadiene	ND	0.5

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8931 SOUTH DAYTON DUMP	**Method:**	624
Date Collected:	02/23/96	**Collected by:**	PSARA
Data Analyzed:	02/27/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22715.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
98-82-8	Isopropylbenzene	ND	0.5
99-87-6	4-Isopropyltoluene	ND	0.5
75-09-2	Methylene chloride	ND	0.5
91-20-3	Naphthalene	ND	0.5
103-65-1	N-Propylbenzene	ND	0.5
100-42-5	Styrene	ND	0.5
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.5
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.5
127-18-4	Tetrachloroethene	ND	0.5
108-88-3	Toluene	ND	0.5
87-61-6	1.2,3-Trichlorobenzene	ND	0.5
120-82-1	1,2,4-Trichlorobenzene	ND	0.5
71-55-6	1,1,1-Trichloroethane	ND	0.5
79-00-5	1,1,2-Trichloroethane	ND	0.5
79-01-6	Trichloroethene	ND	0.5
75-69-4	Trichlorofluoromethane	ND	0.5
96-18-4	1,2,3-Trichloropropane	ND	0.5
95-63-6	1,2,4-Trimethylbenzene	ND	0.5
108-67-8	1,3,5-Trimethylbenzene	ND	0.5
75-01-4	Vinyl chloride	ND	0.5
95-47-6	O-xylene	ND	0.5
108-38-3	Total m&p-xylenes	ND	0.5

Explanation of terms:

CAS NO : Chemical Abstracts Service Number.

ND : Compound not detected OR less than DL

DL : Detection Limit taking into account MDL and sample dilution considering actual volume of sample analyzed.

Comments:

Ohio EPA

Volatile Organic Analysis Data Report

Tentatively Identified Compounds

Sample: O8931 SOUTH DAYTON DUMP

Number TICs found: 1 Concentration units: ug/L

CAS NO.	COMPOUND	R. TIME	EST. CONC
001066-40-6	Silanol, trimethyl-	6.66	1.10

Notes: Tentatively Identified Compounds are listed for the 10 most prominant compounds. Additional compounds may be present if all 10 are listed. Names listed represent the best fit as determined by library identification by computer. The name listed is not necessarily the name of the actual compound. Where less than 10 compounds are listed, no additional compounds were found.

APPROVED BY Q.A

MAR 01 1996

BY

ORGANIC SAMPLE SUBMISSION / REPORT FORM

Date Received 96/02/21 Lab Number 08923

FEB 28 1996

Station/Location Trip Blank Soil

Sample Collected By ESE-EA / DERR-SWI lab Affiliation

Bill to DERR Report Analysis to BRICK Cisler/DERR

Division: [ ]DSW [ ]DDAGW [X]DERR [ ]DHWM [ ]DAPC [ ]DSIWM _____Other

District: [ ]CDO [ ]NEDO [ ]NWDO [ ]SEDO [X]SWDO

Sample Type: [X]Aqueous [ ]Sediment [ ]Tissue [ ]Oil [ ]Air Canister [ ]Air Filter [ ]Grab [ ]Composite _____Other

Date & Time of Sample Begin YY MM DD HH MM 96/02/20 __/__ End YY MM DD HH MM __/__/__/__/__

Sample Use: [ ]Rush [ ]Litigation [ ]Complaint [X]Compliance [ ]Survey [ ]Ambient [ ]Other

Well Use: [ ]Industrial [ ]Public [ ]Private

Sample Volume Submitted: 1 # of Vials _____# of Liter Jars _____Other

Analysis Requested	Method		Analyzed	Reported	Analyst
Volatile Organic Compounds (VOC): (GC/MS)	[X]624 [ ]8260	[ ]524.2	96/02/22	96/02/26	[illegible]
Volatile Organic Compounds (VOC): (GC)	[ ]601&602	[ ]502.2	__/__/__	__/__/__	_____
Base-Neutral & Acid Extractables: (GC/MS)	[ ]625	[ ]8270	__/__/__	__/__/__	_____
Base-Neutral Extractables (PAHs): (GC/MS)	[ ]625	[ ]8270	__/__/__	__/__/__	_____
Acid Extractables (Phenols): (GC/MS)	[ ]625	[ ]8270	__/__/__	__/__/__	_____
Pesticides: (GC)	[ ]608	[ ]8080	__/__/__	__/__/__	_____
Polychlorinated biphenyls (PCBs): (GC)	[ ]608	[ ]8080	__/__/__	__/__/__	_____
Chlordane: (GC)	[ ]608	[ ]8080	__/__/__	__/__/__	_____
Toxaphene: (GC)	[ ]608	[ ]8080	__/__/__	__/__/__	_____
Others: _____			__/__/__	__/__/__	_____

Volatile Preserved with [X]HCL [ ]Sodium Thiosulfate Bioassay Sample Submitted: [ ]Yes [X]No

Comments:

DES CA approval included on computer printout

Trip Blank

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8923 TRIP BLANK	**Method:**	624
Date Collected:	02/20/96	**Collected by:**	PASARA
Data Analyzed:	02/22/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22208.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
71-43-2	Benzene	ND	0.5
108-86-1	Bromobenzene	ND	0.5
74-97-5	Bromochloromethane	ND	0.5
75-27-4	Bromodichloromethane	ND	0.5
75-25-2	Bromoform	ND	0.5
74-83-9	Bromomethane	ND	0.5
104-51-8	N-Butylbenzene	ND	0.5
135-98-8	Sec-Butylbenzene	ND	0.5
98-06-6	Tert-Butylbenzene	ND	0.5
56-23-5	Carbon tetrachloride	ND	0.5
108-90-7	Chlorobenzene	ND	0.5
75-00-3	Chloroethane	ND	0.5
67-66-3	Chloroform	ND	0.5
74-87-3	Chloromethane	ND	0.5
95-49-8	2-Chlorotoluene	ND	0.5
106-43-4	4-Chlorotoluene	ND	0.5
124-48-1	Dibromochloromethane	ND	0.5
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.5
106-93-4	1,2-Dibromoethane	ND	0.5
74-95-3	Dibromomethane	ND	0.5
95-50-1	1,2-Dichlorobenzene	ND	0.5
541-73-1	1,3-Dichlorobenzene	ND	0.5
106-46-7	1,4-Dichlorobenzene	ND	0.5
75-71-8	Dichlorodifluoromethane	ND	0.5
75-34-3	1,1-Dichloroethane	ND	0.5
107-06-2	1,2-Dichloroethane	ND	0.5
75-35-4	1,1-Dichloroethene	ND	0.5
156-59-4	Cis-1,2-dichloroethene	ND	0.5
156-60-5	Trans-1,2-dichloroethene	ND	0.5
78-87-5	1,2-Dichloropropane	ND	0.5
142-28-9	1,3-Dichloropropane	ND	0.5
594-20-7	2,2-Dichloropropane	ND	0.5
563-58-6	1,1-Dichloropropene	ND	0.5
10061-1-5	Cis-1,3-dichloropropene	ND	0.5
10061-02-6	Trans-1,3-dichloropropene	ND	0.5
100-41-4	Ethylbenzene	ND	0.5
87-68-3	Hexachlorobutadiene	ND	0.5

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8923 TRIP BLANK	**Method:**	624
Date Collected:	02/20/96	**Collected by:**	PASARA
Data Analyzed:	02/22/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22208.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
98-82-8	Isopropylbenzene	ND	0.5
99-87-6	4-Isopropyltoluene	ND	0.5
75-09-2	Methylene chloride	0.8	0.5
91-20-3	Naphthalene	ND	0.5
103-65-1	N-Propylbenzene	ND	0.5
100-42-5	Styrene	ND	0.5
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.5
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.5
127-18-4	Tetrachloroethene	ND	0.5
108-88-3	Toluene	ND	0.5
87-61-6	1,2,3-Trichlorobenzene	ND	0.5
120-82-1	1,2,4-Trichlorobenzene	ND	0.5
71-55-6	1,1,1-Trichloroethane	ND	0.5
79-00-5	1,1,2-Trichloroethane	ND	0.5
79-01-6	Trichloroethene	ND	0.5
75-69-4	Trichlorofluoromethane	ND	0.5
96-18-4	1,2,3-Trichloropropane	ND	0.5
95-63-6	1,2,4-Trimethylbenzene	ND	0.5
108-67-8	1,3,5-Trimethylbenzene	ND	0.5
75-01-4	Vinyl chloride	ND	0.5
95-47-6	O-xylene	ND	0.5
108-38-3	Total m&p-xylenes	ND	0.5

Explanation of terms:

CAS NO : Chemical Abstracts Service Number.

ND : Compound not detected OR less than DL

DL : Detection Limit taking into account MDL and sample dilution considering actual volume of sample analyzed.

Comments:

Ohio EPA

Volatile Organic Analysis Data Report

Tentatively Identified Compounds

Sample: O8923 TRIP BLANK

Number TICs found: 0 Concentration units: ug/L

CAS NO.	COMPOUND	R. TIME	EST. CONC

Notes: Tentatively Identified Compounds are listed for the 10 most prominant compounds. Additional compounds may be present if all 10 are listed. Names listed represent the best fit as determined by library identification by computer. The name listed is not necessarily the name of the actual compound. Where less than 10 compounds are listed, no additional compounds were found.

APPROVED BY Q.A

FEB 23 1995

BY

Date Received 96/02/23 Lab Number 08928

Station/Location TRIP BLANK SOUTH BAYTOWN PUMP FOR SAMPLES ON 2/21,22/96
Sample Collected By B. AINSWORTH OEPA Affiliation CEPA / SWDO / DDAGW
Bill to 2662 Report Analysis to ZACK CISLER OEPA/DERR

Division: [ ]DSW [ ]DDAGW [✓]DERR [ ]DHWM [ ]DAPC [ ]DSIWM _____Other
District: [ ]CDO [ ]NEDO [ ]NWDO [ ]SEDO [✓]SWDO

Sample Type: [✓]Aqueous [ ]Sediment [ ]Tissue [ ]Oil [ ]Air Canister [ ]Air Filter [ ]Grab [ ]Composite
_____Other

Date & Time of Sample Begin YY MM DD HH MM 96/2/21 --/-- End YY MM DD HH MM --/--/-- --/--

Sample Use: [ ]Rush [ ]Litigation [ ]Complaint [✓]Compliance [✓]Survey [ ]Ambient [ ]Other

Well Use: [ ]Industrial [ ]Public [ ]Private N/A

Sample Volume Submitted: 1 # of Vials — # of Liter Jars _____Other

Analysis Requested	Method		Analyzed	Reported	Analyst
Volatile Organic Compounds (VOC): (GC/MS)	[✓]624 [ ]8260	[ ]524.2	96/02/27	96/03/01	JH
Volatile Organic Compounds (VOC): (GC)	[ ]601&602	[ ]502.2	--/--/--	--/--/--	
Base-Neutral & Acid Extractables: (GC/MS)	[ ]625	[ ]8270	--/--/--	--/--/--	
Base-Neutral Extractables (PAHs): (GC/MS)	[ ]625	[ ]8270	--/--/--	--/--/--	
Acid Extractables (Phenols): (GC/MS)	[ ]625	[ ]8270	--/--/--	--/--/--	
Pesticides: (GC)	[ ]608	[ ]8080	--/--/--	--/--/--	
Polychlorinated biphenyls (PCBs): (GC)	[ ]608	[ ]8080	--/--/--	--/--/--	
Chlordane: (GC)	[ ]608	[ ]8080	--/--/--	--/--/--	
Toxaphene: (GC)	[ ]608	[ ]8080	--/--/--	--/--/--	
Others: _____			--/--/--	--/--/--	

Volatile Preserved with [✓]HCL [ ]Sodium Thiosulfate Bioassay Sample Submitted: [ ]Yes [✓]No

Comments:
TRIP BLANK

DES QA approval included on computer printout

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8928 TRIP BLANK	**Method:**	624
Date Collected:	02/21/96	**Collected by:**	B.MARLATT
Data Analyzed:	02/27/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22714.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
71-43-2	Benzene	ND	0.5
108-86-1	Bromobenzene	ND	0.5
74-97-5	Bromochloromethane	ND	0.5
75-27-4	Bromodichloromethane	ND	0.5
75-25-2	Bromoform	ND	0.5
74-83-9	Bromomethane	ND	0.5
104-51-8	N-Butylbenzene	ND	0.5
135-98-8	Sec-Butylbenzene	ND	0.5
98-06-6	Tert-Butylbenzene	ND	0.5
56-23-5	Carbon tetrachloride	ND	0.5
108-90-7	Chlorobenzene	ND	0.5
75-00-3	Chloroethane	ND	0.5
67-66-3	Chloroform	ND	0.5
74-87-3	Chloromethane	ND	0.5
95-49-8	2-Chlorotoluene	ND	0.5
106-43-4	4-Chlorotoluene	ND	0.5
124-48-1	Dibromochloromethane	ND	0.5
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.5
106-93-4	1,2-Dibromoethane	ND	0.5
74-95-3	Dibromomethane	ND	0.5
95-50-1	1,2-Dichlorobenzene	ND	0.5
541-73-1	1,3-Dichlorobenzene	ND	0.5
106-46-7	1,4-Dichlorobenzene	ND	0.5
75-71-8	Dichlorodifluoromethane	ND	0.5
75-34-3	1,1-Dichloroethane	ND	0.5
107-06-2	1,2-Dichloroethane	ND	0.5
75-35-4	1,1-Dichloroethene	ND	0.5
156-59-4	Cis-1,2-dichloroethene	ND	0.5
156-60-5	Trans-1,2-dichloroethene	ND	0.5
78-87-5	1,2-Dichloropropane	ND	0.5
142-28-9	1,3-Dichloropropane	ND	0.5
594-20-7	2,2-Dichloropropane	ND	0.5
563-58-6	1,1-Dichloropropene	ND	0.5
10061-1-5	Cis-1,3-dichloropropene	ND	0.5
10061-02-6	Trans-1,3-dichloropropene	ND	0.5
100-41-4	Ethylbenzene	ND	0.5
87-68-3	Hexachlorobutadiene	ND	0.5

Ohio EPA

Volatile Organic Analysis Data Report

Tentatively Identified Compounds

Sample: O8928 TRIP BLANK

Number TICs found: 0 Concentration units: ug/L

CAS NO.	COMPOUND	R. TIME	EST. CONC

Notes: Tentatively Identified Compounds are listed for the 10 most prominant compounds. Additional compounds may be present if all 10 are listed. Names listed represent the best fit as determined by library identification by computer. The name listed is not necessarily the name of the actual compound. Where less than 10 compounds are listed, no additional compounds were found.

APPROVED BY Q.A

MAR 01 1996

BY J McDaniel

Date Received 96/02/26 MAR 0 6 1996 Lab Number 08934

Station/Location South Dayton Dump - Trip Blank

Sample Collected By PARSAT / Rick Gobrecht DISTRICT Affiliation Ohio EPA, DERR

Bill to _____ Report Analysis to Steve Martin, DERR

Division: [ ]DSW [ ]DDAGW [X]DERR [ ]DHWM [ ]DAPC [ ]DSIWM _____Other

District: [ ]CDO [ ]NEDO [ ]NWDO [ ]SEDO [X]SWDO

Sample Type: [X]Aqueous [ ]Sediment [ ]Tissue [ ]Oil [ ]Air Canister [ ]Air Filter [ ]Grab [ ]Composite _____Other

Date & Time of Sample Begin YY MM DD HH MM 96/02/23 __/__ End YY MM DD HH MM __/__/__/__/__

Sample Use: [ ]Rush [ ]Litigation [ ]Complaint [X]Compliance [ ]Survey [ ]Ambient [ ]Other

Well Use: [ ]Industrial [ ]Public [ ]Private TRIP BLANK

Sample Volume Submitted: 1 # of Vials ____# of Liter Jars _____Other

Analysis Requested	Method		Analyzed	Reported	Analyst
Volatile Organic Compounds (VOC): (GC/MS)	[X]624 [ ]8260	[ ]524.2	96/02/27	96/03/01	VAT
Volatile Organic Compounds (VOC): (GC)	[ ]601&602	[ ]502.2	__/__/__	__/__/__	
Base-Neutral & Acid Extractables: (GC/MS)	[ ]625	[ ]8270	__/__/__	__/__/__	
Base-Neutral Extractables (PAHs): (GC/MS)	[ ]625	[ ]8270	__/__/__	__/__/__	
Acid Extractables (Phenols): (GC/MS)	[ ]625	[ ]8270	__/__/__	__/__/__	
Pesticides: (GC)	[ ]608	[ ]8080	__/__/__	__/__/__	
Polychlorinated biphenyls (PCBs): (GC)	[ ]608	[ ]8080	__/__/__	__/__/__	
Chlordane: (GC)	[ ]608	[ ]8080	__/__/__	__/__/__	
Toxaphene: (GC)	[ ]608	[ ]8080	__/__/__	__/__/__	
Others: _____			__/__/__	__/__/__	

Volatile Preserved with [X]HCL [ ]Sodium Thiosulfate Bicassay Sample Submitted: [ ]Yes [ ]No

Comments:

DES QA approval included on computer printout

TRIP BLANK

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8934 TRIP BLANK	**Method:**	624
Date Collected:	02/23/96	**Collected by:**	PSARA
Data Analyzed:	02/27/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22716.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
71-43-2	Benzene	ND	0.5
108-86-1	Bromobenzene	ND	0.5
74-97-5	Bromochloromethane	ND	0.5
75-27-4	Bromodichloromethane	ND	0.5
75-25-2	Bromoform	ND	0.5
74-83-9	Bromomethane	ND	0.5
104-51-8	N-Butylbenzene	ND	0.5
135-98-8	Sec-Butylbenzene	ND	0.5
98-06-6	Tert-Butylbenzene	ND	0.5
56-23-5	Carbon tetrachloride	ND	0.5
108-90-7	Chlorobenzene	ND	0.5
75-00-3	Chloroethane	ND	0.5
67-66-3	Chloroform	ND	0.5
74-87-3	Chloromethane	ND	0.5
95-49-8	2-Chlorotoluene	ND	0.5
106-43-4	4-Chlorotoluene	ND	0.5
124-48-1	Dibromochloromethane	ND	0.5
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.5
106-93-4	1,2-Dibromoethane	ND	0.5
74-95-3	Dibromomethane	ND	0.5
95-50-1	1,2-Dichlorobenzene	ND	0.5
541-73-1	1,3-Dichlorobenzene	ND	0.5
106-46-7	1,4-Dichlorobenzene	ND	0.5
75-71-8	Dichlorodifluoromethane	ND	0.5
75-34-3	1,1-Dichloroethane	ND	0.5
107-06-2	1,2-Dichloroethane	ND	0.5
75-35-4	1,1-Dichloroethene	ND	0.5
156-59-4	Cis-1,2-dichloroethene	ND	0.5
156-60-5	Trans-1,2-dichloroethene	ND	0.5
78-87-5	1,2-Dichloropropane	ND	0.5
142-28-9	1,3-Dichloropropane	ND	0.5
594-20-7	2,2-Dichloropropane	ND	0.5
563-58-6	1,1-Dichloropropene	ND	0.5
10061-1-5	Cis-1,3-dichloropropene	ND	0.5
10061-02-6	Trans-1,3-dichloropropene	ND	0.5
100-41-4	Ethylbenzene	ND	0.5
87-68-3	Hexachlorobutadiene	ND	0.5

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8934 TRIP BLANK	**Method:**	624
Date Collected:	02/23/96	**Collected by:**	PSARA
Data Analyzed:	02/27/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22716.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
98-82-8	Isopropylbenzene	ND	0.5
99-87-6	4-Isopropyltoluene	ND	0.5
75-09-2	Methylene chloride	ND	0.5
91-20-3	Naphthalene	ND	0.5
103-65-1	N-Propylbenzene	ND	0.5
100-42-5	Styrene	ND	0.5
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.5
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.5
127-18-4	Tetrachloroethene	ND	0.5
108-88-3	Toluene	ND	0.5
87-61-6	1,2,3-Trichlorobenzene	ND	0.5
120-82-1	1,2,4-Trichlorobenzene	ND	0.5
71-55-6	1,1,1-Trichloroethane	ND	0.5
79-00-5	1,1,2-Trichloroethane	ND	0.5
79-01-6	Trichloroethene	ND	0.5
75-69-4	Trichlorofluoromethane	ND	0.5
96-18-4	1,2,3-Trichloropropane	ND	0.5
95-63-6	1,2,4-Trimethylbenzene	ND	0.5
108-67-8	1,3,5-Trimethylbenzene	ND	0.5
75-01-4	Vinyl chloride	ND	0.5
95-47-6	O-xylene	ND	0.5
108-38-3	Total m&p-xylenes	ND	0.5

Explanation of terms:

CAS NO : Chemical Abstracts Service Number.

ND : Compound not detected OR less than DL

DL : Detection Limit taking into account MDL and sample dilution considering actual volume of sample analyzed.

Comments:

Ohio EPA

Volatile Organic Analysis Data Report

Tentatively Identified Compounds

Sample: O8934 TRIP BLANK

Number TICs found: 0 Concentration units: ug/L

CAS NO.	COMPOUND	R. TIME	EST. CONC

Notes: Tentatively Identified Compounds are listed for the 10 most prominant compounds. Additional compounds may be present if all 10 are listed. Names listed represent the best fit as determined by library identification by computer. The name listed is not necessarily the name of the actual compound. Where less than 10 compounds are listed, no additional compounds were found.

APPROVED BY Q.A

MAR 01 1996

BY J McDaniel

ORGANIC SAMPLE SUBMISSION REPORT FORM — EPA

Date Received 96/02/27 MAR 0 5 1996 Lab Number 08943

Station/Location Trip blank

Sample Collected By Lab Affiliation DERR

Bill to DERR Report Analysis to S. Martin

Division: [ ]DSW [ ]DDAGW [X]DERR [ ]DHWM [ ]DAPC [ ]DSIWM _____Other

District: [ ]CDO [ ]NEDO [ ]NWDO [ ]SEDO [X]SWDO

Sample Type: [X]Aqueous [ ]Sediment [ ]Tissue [ ]Oil [ ]Air Canister [ ]Air Filter [ ]Grab [ ]Composite _____Other

Date & Time of Sample Begin YY MM DD HH MM 96/02/26 __/__ End YY MM DD HH MM __/__/__/__/__

Sample Use: [ ]Rush [ ]Litigation [ ]Complaint [X]Compliance [ ]Survey [ ]Ambient [ ]Other

Well Use: [ ]Industrial [ ]Public [ ]Private

Sample Volume Submitted: 1 # of Vials _____# of Liter Jars _____Other

Analysis Requested	Method		Analyzed	Reported	Analyst
Volatile Organic Compounds (VOC): (GC/MS)	[X]624 [ ]8260	[ ]524.2	96/02/27	96/03/01	[illegible]
Volatile Organic Compounds (VOC): (GC)	[ ]601&602	[ ]502.2	__/__/__	__/__/__	
Base-Neutral & Acid Extractables: (GC/MS)	[ ]625	[ ]8270	__/__/__	__/__/__	
Base-Neutral Extractables (PAHs): (GC/MS)	[ ]625	[ ]8270	__/__/__	__/__/__	
Acid Extractables (Phenols): (GC/MS)	[ ]625	[ ]8270	__/__/__	__/__/__	
Pesticides: (GC)	[ ]608	[ ]8080	__/__/__	__/__/__	
Polychlorinated biphenyls (PCBs): (GC)	[ ]608	[ ]8080	__/__/__	__/__/__	
Chlordane: (GC)	[ ]608	[ ]8080	__/__/__	__/__/__	
Toxaphene: (GC)	[ ]608	[ ]8080	__/__/__	__/__/__	
Others: _____			__/__/__	__/__/__	

Volatile Preserved with [X]HCL [ ]Sodium Thiosulfate Bioassay Sample Submitted: [ ]Yes [ ]No

Comments:

Shot written at lab

DES QA approval included on computer printout

Trip Blank

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8943 TRIP BLANK	**Method:**	624
Date Collected:	02/26/96	**Collected by:**	LAB
Data Analyzed:	02/27/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22719.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
71-43-2	Benzene	ND	0.5
108-86-1	Bromobenzene	ND	0.5
74-97-5	Bromochloromethane	ND	0.5
75-27-4	Bromodichloromethane	ND	0.5
75-25-2	Bromoform	ND	0.5
74-83-9	Bromomethane	ND	0.5
104-51-8	N-Butylbenzene	ND	0.5
135-98-8	Sec-Butylbenzene	ND	0.5
98-06-6	Tert-Butylbenzene	ND	0.5
56-23-5	Carbon tetrachloride	ND	0.5
108-90-7	Chlorobenzene	ND	0.5
75-00-3	Chloroethane	ND	0.5
67-66-3	Chloroform	ND	0.5
74-87-3	Chloromethane	ND	0.5
95-49-8	2-Chlorotoluene	ND	0.5
106-43-4	4-Chlorotoluene	ND	0.5
124-48-1	Dibromochloromethane	ND	0.5
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.5
106-93-4	1,2-Dibromoethane	ND	0.5
74-95-3	Dibromomethane	ND	0.5
95-50-1	1,2-Dichlorobenzene	ND	0.5
541-73-1	1,3-Dichlorobenzene	ND	0.5
106-46-7	1,4-Dichlorobenzene	ND	0.5
75-71-8	Dichlorodifluoromethane	ND	0.5
75-34-3	1,1-Dichloroethane	ND	0.5
107-06-2	1,2-Dichloroethane	ND	0.5
75-35-4	1,1-Dichloroethene	ND	0.5
156-59-4	Cis-1,2-dichloroethene	ND	0.5
156-60-5	Trans-1,2-dichloroethene	ND	0.5
78-87-5	1,2-Dichloropropane	ND	0.5
142-28-9	1,3-Dichloropropane	ND	0.5
594-20-7	2,2-Dichloropropane	ND	0.5
563-58-6	1,1-Dichloropropene	ND	0.5
10061-1-5	Cis-1,3-dichloropropene	ND	0.5
10061-02-6	Trans-1,3-dichloropropene	ND	0.5
100-41-4	Ethylbenzene	ND	0.5
87-68-3	Hexachlorobutadiene	ND	0.5

Ohio EPA
Volatile Organic Analysis Data Report

Sample:	O8943 TRIP BLANK	**Method:**	624
Date Collected:	02/26/96	**Collected by:**	LAB
Data Analyzed:	02/27/96	**Analyzed by:**	A.JAMAL
Matrix:	Water	**Dilution:**	1
File No:	V22719.D	**Conc. Units:**	ug/L

CAS NO.	COMPOUND	CONC	DL
98-82-8	Isopropylbenzene	ND	0.5
99-87-6	4-Isopropyltoluene	ND	0.5
75-09-2	Methylene chloride	ND	0.5
91-20-3	Naphthalene	ND	0.5
103-65-1	N-Propylbenzene	ND	0.5
100-42-5	Styrene	ND	0.5
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.5
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.5
127-18-4	Tetrachloroethene	ND	0.5
108-88-3	Toluene	ND	0.5
87-61-6	1,2,3-Trichlorobenzene	ND	0.5
120-82-1	1,2,4-Trichlorobenzene	ND	0.5
71-55-6	1,1,1-Trichloroethane	ND	0.5
79-00-5	1,1,2-Trichloroethane	ND	0.5
79-01-6	Trichloroethene	ND	0.5
75-69-4	Trichlorofluoromethane	ND	0.5
96-18-4	1,2,3-Trichloropropane	ND	0.5
95-63-6	1,2,4-Trimethylbenzene	ND	0.5
108-67-8	1,3,5-Trimethylbenzene	ND	0.5
75-01-4	Vinyl chloride	ND	0.5
95-47-6	O-xylene	ND	0.5
108-38-3	Total m&p-xylenes	ND	0.5

Explanation of terms:

CAS NO : Chemical Abstracts Service Number.

ND : Compound not detected OR less than DL

DL : Detection Limit taking into account MDL and sample dilution considering actual volume of sample analyzed.

Comments:

Ohio EPA

Volatile Organic Analysis Data Report

Tentatively Identified Compounds

Sample: O8943 TRIP BLANK

Number TICs found: 0 Concentration units: ug/L

CAS NO.	COMPOUND	R. TIME	EST. CONC

Notes: Tentatively Identified Compounds are listed for the 10 most prominant compounds. Additional compounds may be present if all 10 are listed. Names listed represent the best fit as determined by library identification by computer. The name listed is not necessarily the name of the actual compound. Where less than 10 compounds are listed, no additional compounds were found.

APPROVED BY Q.A

MAR 01 1996

BY J McDaniel

APPENDIX G

Bill of Lading

[redacted]

GROSS: 19.53
TARE: 11.97
NET: 7.56 COUNTY: MO

[redacted]

COMMENTS: OHIO EPA/CONTAM SOIL 19379

[redacted]

CUSTOMER:

PSARA TECHNOLOGY
10925 REED HARTMAN
SUITE 220
CINCINNATI OH 45242

[redacted]

CSL	CONTAMINATED SOIL	12.00	166.32
900	MONTGOMERY TAX/GEN FEE	0.00	37.80
	TOTAL GATE FEE:		204.12

Printed on Recycled Paper

COPY 2

APPENDIX B:

SITE PHOTOGRAPHIC LOG

Sample Collection
Photographic Log Index

for the

South Dayton Dump and Landfill

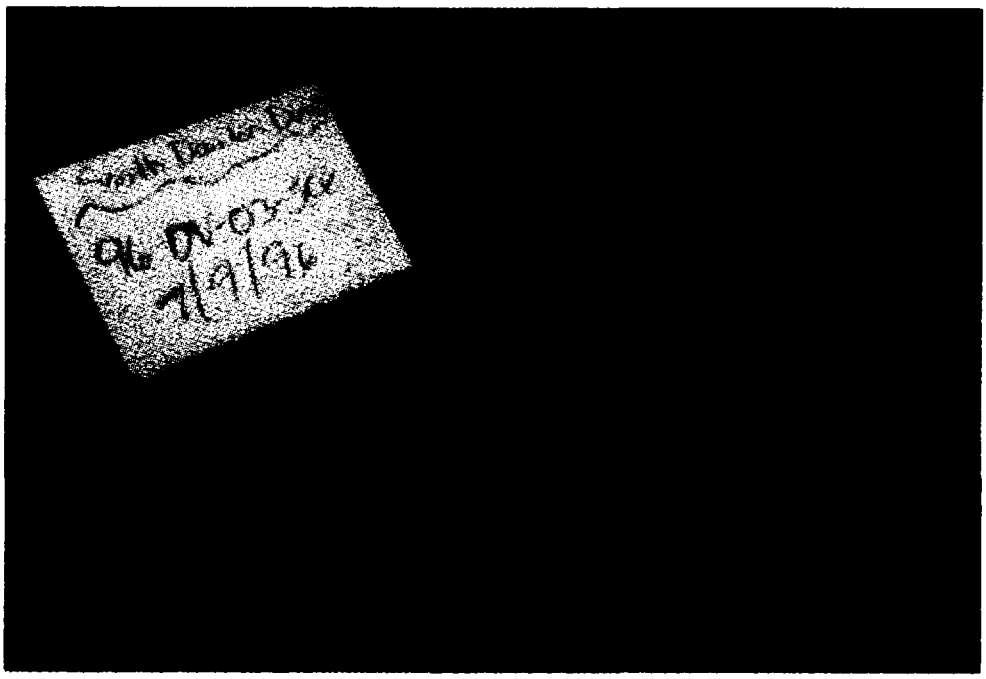
Ohio Master Sites List #557-0752
Montgomery County
Dayton, Ohio

Compiled by:

The Ohio Environmental Protection Agency
Division of Emergency and Remedial Response
401 East Fifth Street
Dayton, Ohio 45402

Photograph #96-DV-03-S01 **Date: July 9, 1996** **Direction: N/A**

Description: **Soil sample collected 4 - 4.5 feet below ground surface (bgs) north of center portion of landfill near drum area. Sample collected five (5) yards south of the east-west access road that runs along the northern portion of the site.**

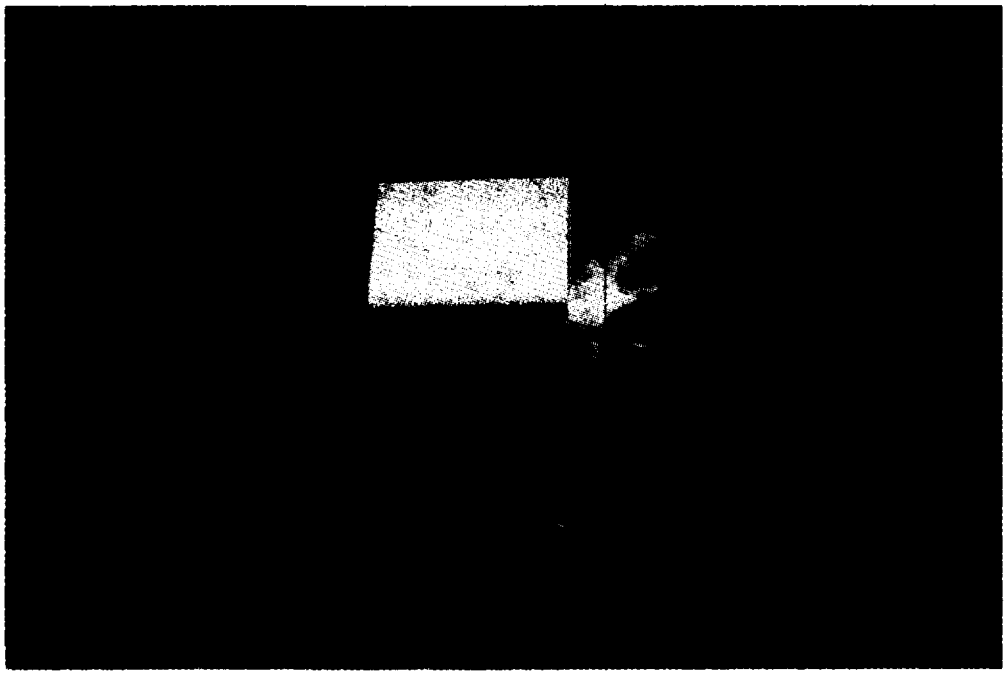


Photograph #96-DV-03-S02 **Date: July 9, 1996** **Direction: N/A**

Description: **Soil sample collected from 0 - 1 inches bgs along the north-south access road located in center of the landfill.**

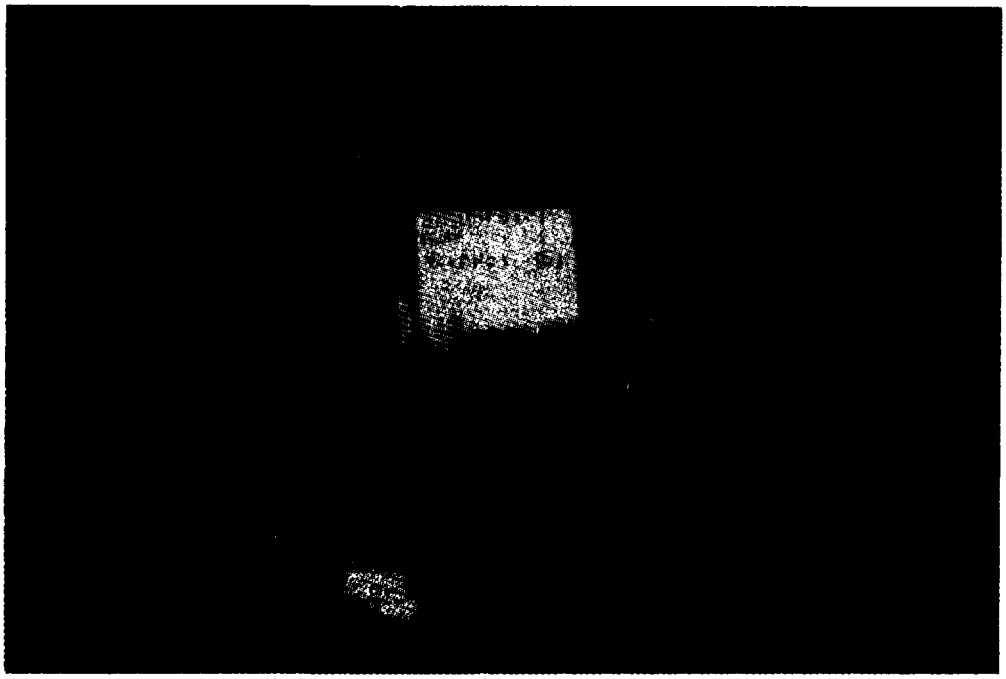
Sample #96-DV-03-S03 and #96-DV-03-D03 Date: July 9, 1996 Direction: N/A

Description: Soil sample collected from 1.5 - 2 feet bgs near concrete rubble piles at the northwest edge of the depression area located in the center of the landfill.



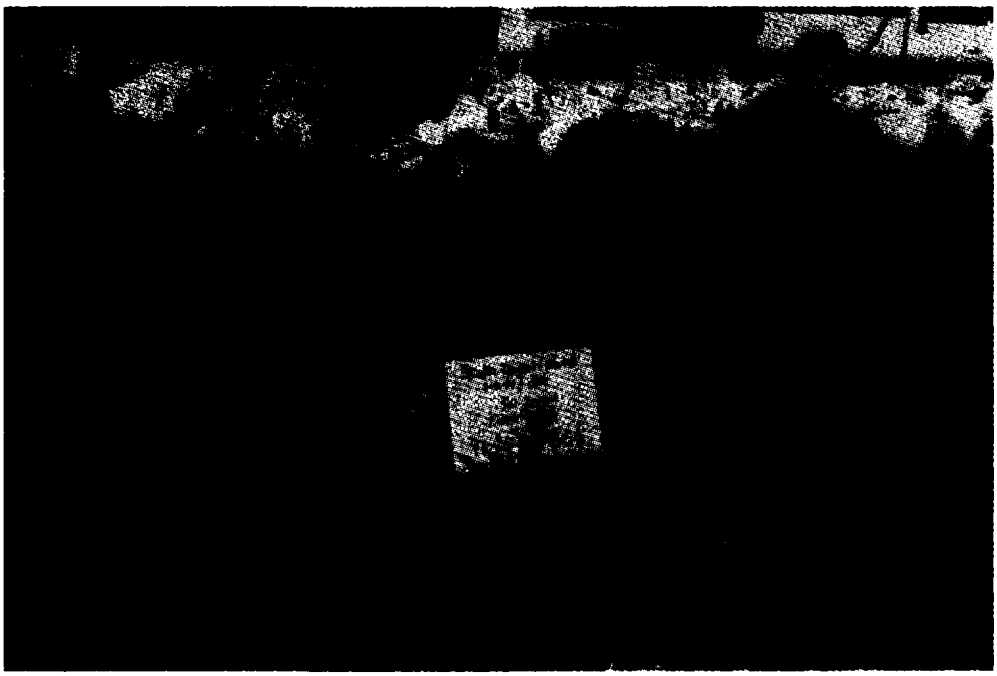
Sample #96-DV-03-S04 Date: July 9, 1996 Direction: N/A

Description: Soil sample collected from 1.5 - 2 feet bgs immediately east of the mideastern edge of the depression area located in the center of the landfill.



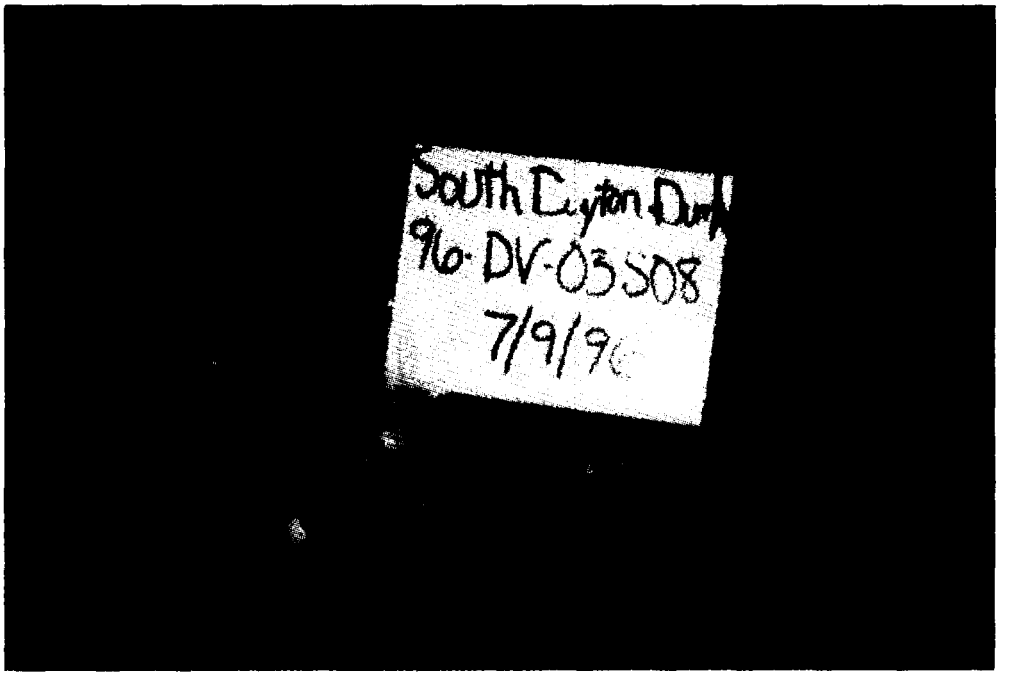
Sample #96-DV-03-S05 **Date: July 9, 1996** **Direction: N/A**

Description: **Soil sample collected from 5 feet bgs along western edge of the landfill between the access road and the steep slope to the flood plain.**



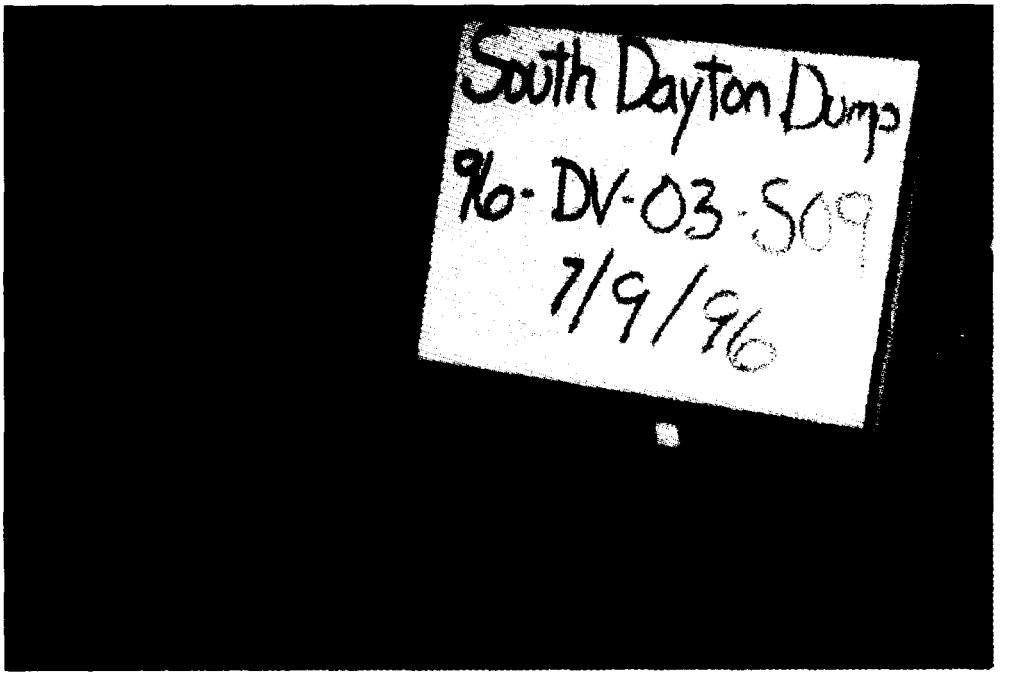
Sample #96-DV-03-S06 **Date: July 9, 1996** **Direction: Northeast**

Description: **Soil sample collected from 1.5 - 2.3 feet bgs near the mid-southeastern portion of landfill between existing concrete rubble piles and the depression area.**



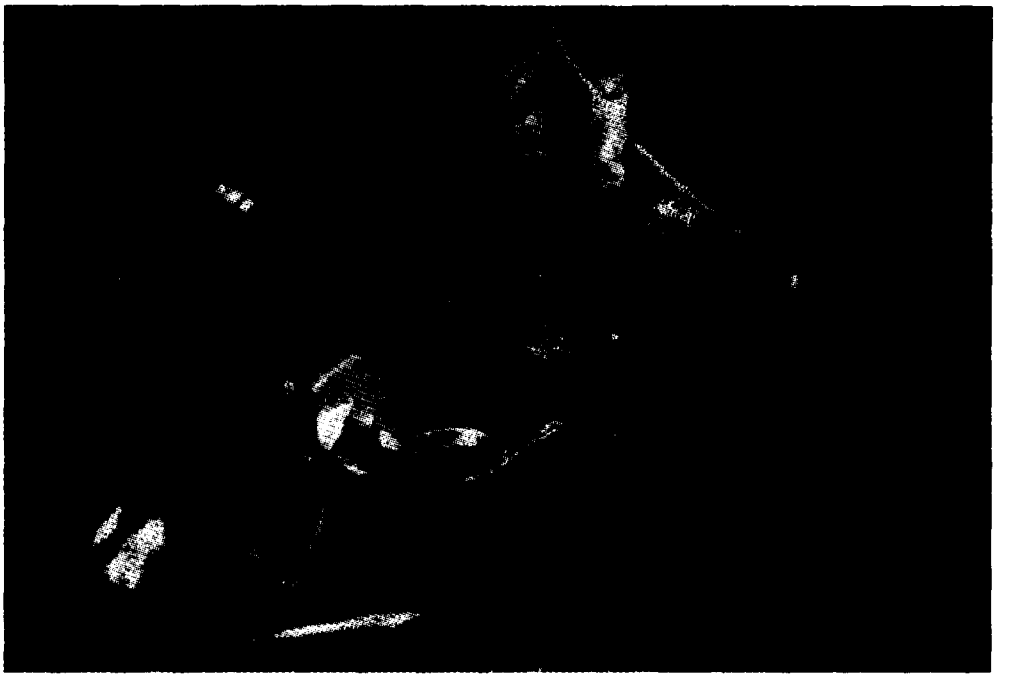
Sample #96-DV-03-S08 **Date: July 9, 1996** **Direction: N/A**

Description: **Surface soil sample collected from 2 -3 inches bgs along the midwestern edge of the landfill on the slope adjacent to the bike trail and Great Miami River between MW-102 and MW-103. Sample collected adjacent to a exposed drum containing hard, green, waste material.**



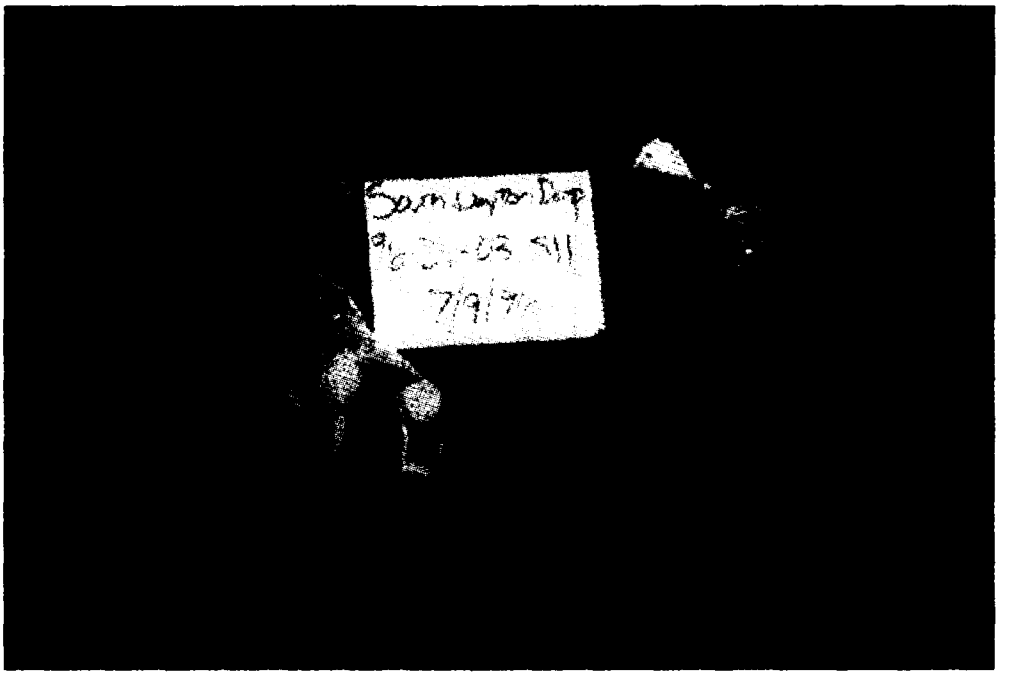
Sample #96-DV-03-S09 **Date: July 9, 1996** **Direction: N/A**

Description: **Soil sample collected 2 - 6 inches bgs along the slope at the northwest corner of the landfill. Sample collected adjacent to 4 exposed drums.**



Sample #96-DV-03-S10 **Date: July 9, 1996** **Direction: N/A**

Description: **Soil sample collected from 0 - 4 inches bgs along the slope south of the center of the eastern concrete pad located along the north access road in midwest portion of landfill.**

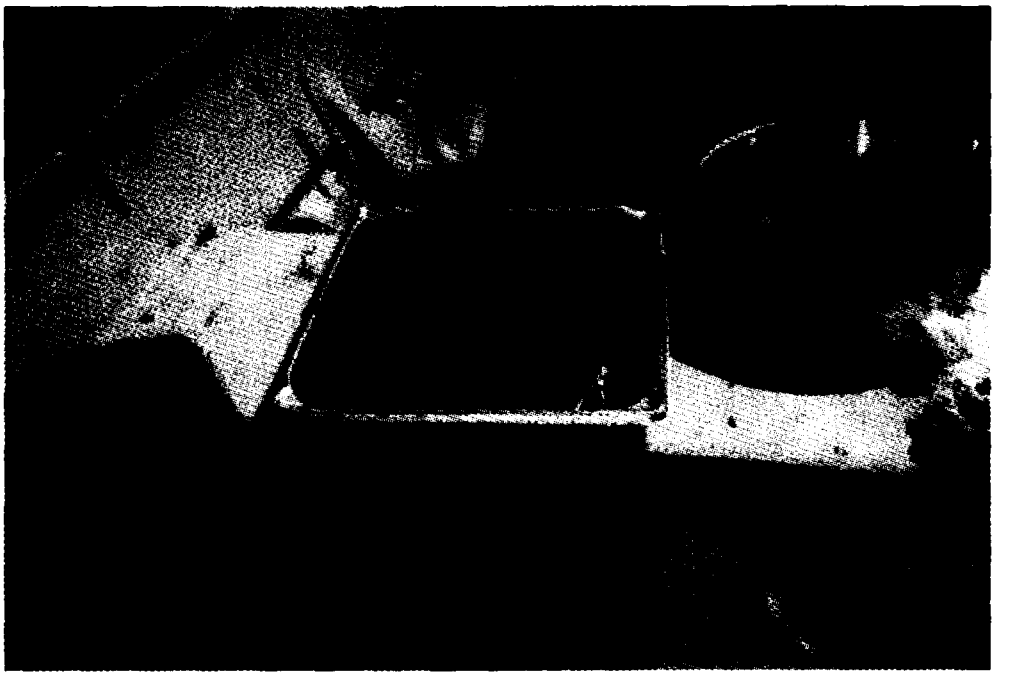


Sample #96-DV-03-S11 **Date: July 9, 1996** **Direction: N/A**

Description: **Soil sample collected from 3 - 4 inches bgs along the ravine located at the southeast corner of the landfill. Sample collected near the west end of the ravine.**

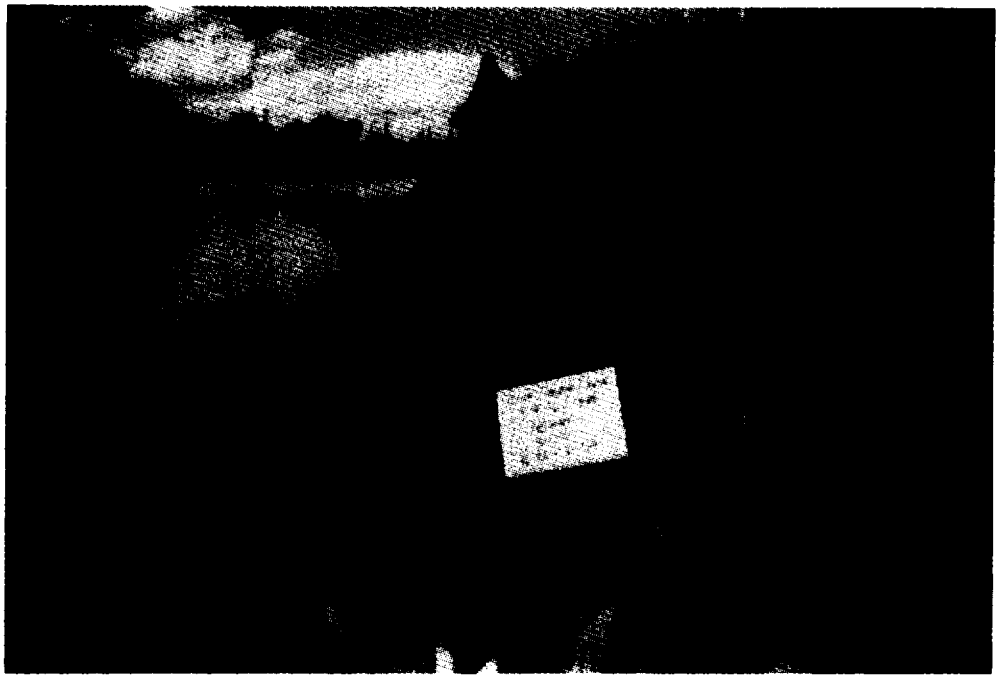
Sample #96-DV-03-S15 **Date: July 9, 1996** **Direction: N/A**

Description: **Sediment sample collected from 15 - 18 feet below water surface (bws). Located between the two utility towers, 25 yards from the shoreline, directly below the overhead utility lines, in the impoundment located off the southwest corner of the landfill.**



Sample #96-DV-03-S16 **Date: July 9, 1996** **Direction: N/A**

Description: **Sediment sample collected from 15 - 18 feet bws. Located 200 feet southeast of utility tower on gravel outcrop along the northeast shoreline, in the impoundment located off the southwest corner of the landfill.**

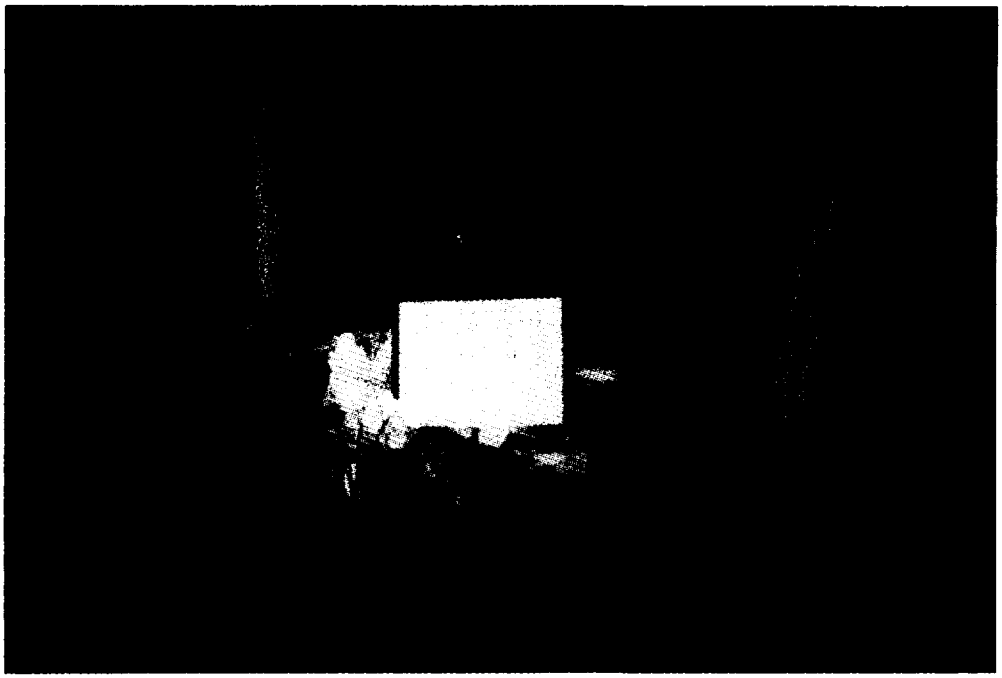


Sample #96-DV-03-S19 **Date: July 9, 1996** **Direction: North**

Description: **Background sediment sample collected from 0 - 6 inches bgs. Located upstream of the site, between the landfill and the asphalt plant, along the east bank of the Great Miami River.**

Sample #96-DV-03-S23 and #96-DV-03-D23 **Date: July 9, 1996** **Direction: N/A**

Description: **Ground-water sample from monitoring well #101. Well screen interval from 23.5 - 33. 5 feet bgs. Located near southeast corner of site near adjacent to the neighboring pallet company property.**



Sample #96-DV-03-S24 **Date: July 9, 1996** **Direction: N/A**

Description: **Ground-water sample from monitoring well #103. Well screen interval from 22 - 32 feet bgs. Located in the middle of the landfill's western end, adjacent to the bike path running along the Great Miami River.**

Sample #96-DV-03-S25 **Date: July 9, 1996** **Direction: N/A**

Description: **Ground-water sample from monitoring well #102. Well screen interval from 20 - 30 feet bgs. Located near the southwest corner of the landfill, adjacent to the bike path running along the Great Miami River. Located approximately 450 feet south of monitoring well #102.**