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# ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

# PHASE II INVESTIGATION

Lancaster Reclamation
Town of Lancaster

Site No. 915069 Erie County



# New York State Department of Environmental Conservation

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Ву:

**ENGINEERING-SCIENCE** 

# ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES IN THE STATE OF NEW YORK PHASE II INVESTIGATIONS

# LANCASTER RECLAMATION NEW YORK STATE SITE NUMBER 915069 TOWN OF LANCASTER ERIE COUNTY, NEW YORK STATE

# Prepared For

# DIVISION OF HAZARDOUS WASTE REMEDIATION NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION 50 WOLF ROAD ALBANY, NEW YORK 12233-0001

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# **SECTION I**

# **EXECUTIVE SUMMARY**

# SITE BACKGROUND

The Lancaster Reclamation site is located nine miles east of Buffalo, New York at 403 Pavement Road, in the Town of Lancaster, Erie County, New York. A Conrail right-of-way borders the site on the south. Pavement Road forms the west boundary and Walden Avenue is located a short distance north of the property. The site is shown on the U.S.G.S. Clarence, N.Y. 7 1/2 minute quadrangle map (Figure I-1).

The site is owned and operated by the Lancaster Reclamation Company, who formerly used the site for disposal of industrial waste. Among the waste materials known to have been disposed at the site are:

- a bentonite sludge in a 90 percent water mixture;
- · a foundry sand slurry containing fine sand, bentonite, metal oxides, coke ash and carbon;
- a slurry containing cement, asbestos and glass fibers;
- dust from a shot blast collector system;
- wall paper production waste containing print waste, prepaste alkali and prepaste polymer, and;
- · oil sludges from a bus garage catch basin.

The wastes were dewatered by evaporation and placed into disposal cells excavated into the onsite soils. Waste disposal at the site took place between 1976 and late 1983. Waste disposal at the site ended when New York State Department of Environmental Conservation (NYSDEC) requested additional groundwater monitoring data as a condition for renewal of Lancaster Reclamation's operating permit.

# **PHASE II INVESTIGATION**

The Phase II field investigation began with electrical resistivity and magnetic surveys to define the site geologic conditions and to attempt to identify the presence of potential conductive contaminant plumes. Seven overburden groundwater monitoring wells were subsequently installed. Surface water, groundwater, and sediment sampling and analysis, and air monitoring were conducted to determine the presence of hazardous substances at the Lancaster Reclamation site.

#### SITE ASSESSMENT

The geologic stratigraphy of the site can be summarized as up to 8 feet of fill over 56 to 73 feet of unconsolidated glacial deposits over limestone bedrock. The glacial deposits consist of outwash sands, lacustrine clay, ice contact sand and gravel, and glacial till. The groundwater hydrology is complicated by the variability of the glacial deposits and previous excavations at the site. There are two water-bearing zones in the overburden of the Lancaster Reclamation site; an upper perched water table and a deeper overburden aquifer. The overburden aquifer occurs in the glacial till and glacial outwash units. Of the two water-bearing zones, the deep overburden aquifer is considered the aquifer of concern due to its comparatively greater yield, lateral extent and its potential use as a drinking water source. Seven monitoring wells were installed, and are screened in the unconsolidated glacial deposits. Wells GW-1B, 2B, 3B and 4B are screened near the top of bedrock (deep) and wells GW-1A, 3A and 5A are screened near the water table surface (shallow). Well GW-1A is the only well screened in the perched water table.

Water level elevations indicate that groundwater occurs at depths of 20 to 30 feet, and flow is to the west-southwest in the overburden aquifer. Under this condition, well GW-1B can be considered the upgradient location, and wells GW-2B, 3A, 3B, 4B and 5A as the downgradient locations. The disposal cells are located between the upgradient and downgradient wells.

Seven groundwater samples were collected from four deep wells and three shallow wells at the Lancaster Reclamation site and were analyzed for Hazardous Substance List (HSL) organic (volatile and semivolatile) compounds, metals and total halogenated organic compounds (TOX).

Eighteen HSL organic compounds were detected in the groundwater samples. Two compounds, bis(2-ethylhexyl)phthalate and di-n-octylphthalate, were present downgradient in the shallow and one deep well at concentrations in excess of three times the upgradient concentrations, indicating releases potentially attributable to this site. The concentrations of benzene and benzo(a)pyrene exceeded the applicable Class GA groundwater standards in one or more wells.

The first set of groundwater results indicated low concentrations of most HSL organic compounds, with the exception of well GW-5A, which had relatively high concentrations of seven volatile organic compounds (VOCs). Well GW-5A was subsequently resampled and analyzed for volatile organic compounds. Based on the latter results, only two VOCs were detected. Both compounds were present in laboratory blank samples and may be attributed to laboratory contamination. Based on the resampling results for GW-5A, the source and origin of the volatile organic compounds detected could not be determined, and their presence was not confirmed. The contrasting results may indicate movement of a plume has passed GW-5A during the time between sampling events.

Fourteen HSL metals were detected in the deep groundwater samples. The concentrations of eight metals in downgradient deep wells were in excess of three times the upgradient concentrations, indicating releases attributable to the site. The concentrations of three metals in one or more deep wells exceeded the applicable Class GA standards or guidance values.

Nineteen HSL metals were detected in the shallow wells. The concentration of zinc in downgradient shallow well GW-3A was in excess of three times the upgradient concentration, indicating a release attributable to the site. The concentrations of five HSL metals in one or more shallow wells exceeded applicable Class GA standards or guidance values.

The types and concentrations of metals present in the shallow and deep groundwater are consistent with the past use of the site. The types and concentrations of organic compounds present can, for the most part, be attributed to the former use of the site. In particular the presence of low concentrations of phenol and phenolic compounds may be attributed to the foundry sand disposed on-site. Phenolic binders may have been components of the foundry sand waste.

Four surface water and sediment samples were collected and analyzed for HSL organic compounds, metals and TOX. These samples were collected from the on-site pond or disposal cells. There was no suitable upgradient surface water location at the site, and no upgradient surface water samples were collected. The surface water results indicate the presence of six organic and eighteen inorganic hazardous substances. Since the surface water bodies sampled are confined to the site, it is unlikely that the site is impacting off-site surface water bodies.

Four sediment samples were collected from the same locations as the surface water samples, therefore upgradient comparisons are not available. However, the inorganic results can be compared to published, naturally-occurring ranges for soils in New York State and the conterminous United States. The samples were analyzed for HSL organic (volatile, semivolatile, pesticide/PCBs) compounds and metals. Twenty-one organic compounds and twenty metals were detected in the sediment samples. Antimony was detected in all sediment samples at concentrations in excess of the referenced naturally-occurring range for New York State soils. In one sample the concentration of cadmium was above the referenced naturally-occurring range for conterminous U.S. soils.

Air quality monitoring was conducted as a health and safety measure during the on-site field work. The concentrations of volatile organic compounds in the breathing zone did not exceed background levels during the field work.

# HAZARD RANKING SYSTEM SCORE

In an attempt to establish the relative risk associated with this site, the Hazard Ranking System (HRS) was applied. As currently used by the NYSDEC, the HRS is employed to aid the evaluation of inactive hazardous waste sites in New York State. This system takes into account the types of wastes at the site, receptors, and transport routes to calculate a numerical score for the site. As stated in 40 CFR, Subpart H, Section 300.81, the HRS was developed for evaluating the relative potential of uncontrolled hazardous waste disposal facilities to cause human health or safety problems, or ecological or environmental damage. It is assumed by the EPA that a uniform application of the ranking system in each state will permit EPA to identify those releases of hazardous substances that pose the greatest hazard to humans or the environment.

Under the HRS, three numerical scores are computed to express the relative risk or danger from the site, taking into account the population at risk, the potential for contamination of drinking water supplies, for direct human contact, for destruction of sensitive ecological systems and other appropriate factors. The three scores are:

- S<sub>M</sub> reflects the potential for harm to humans or the environment by migration of a hazardous substance away from the facility by routes involving groundwater, surface water and air. It is a composite of separate scores for each of the three routes (S<sub>GW</sub> = groundwater route score, S<sub>SW</sub> = surface water route score, and S<sub>A</sub> = air route score).
- SFE reflects the potential for harm from substances that can explode or cause fires.
- S<sub>DC</sub> reflects the potential for harm from direct contact with hazardous substances at the facility (i.e., no migration need be involved).

Based on the results of this and previous studies, the HRS scores for the Lancaster Reclamation site have been calculated as follows:

$S_{M}$	=	16.51	$s_{GW}$	=	28.57
SFE	=	0.0	SSW	=	
	===	25.00	SA	=	0.0

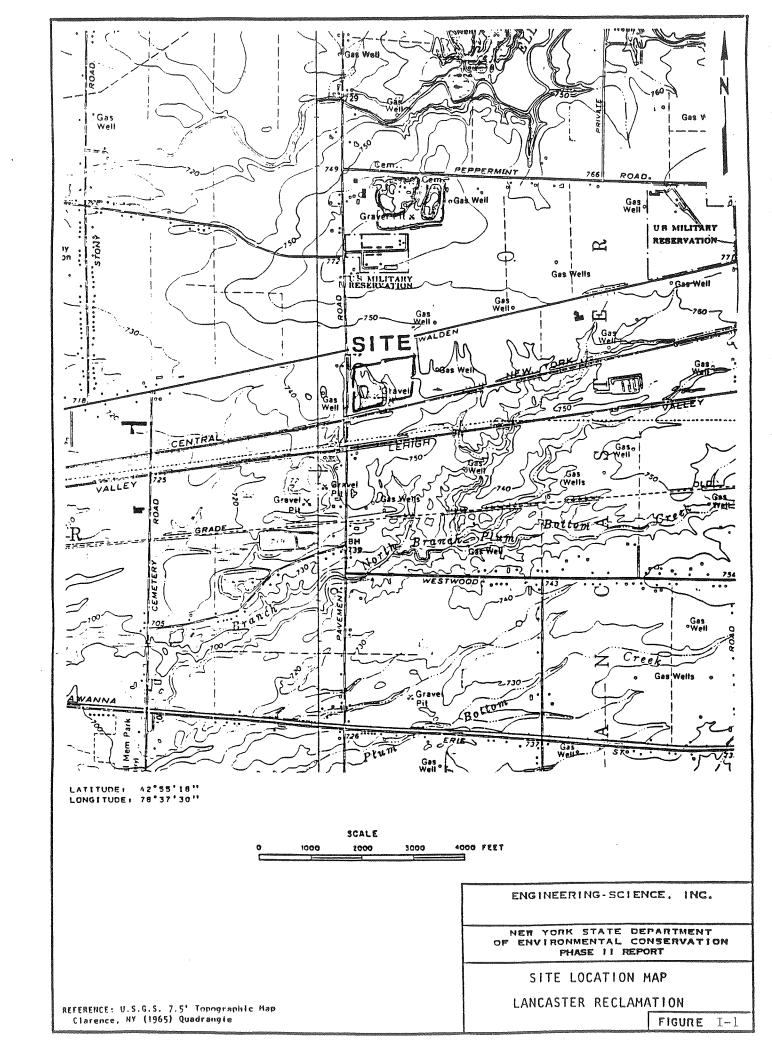
#### RECOMMENDATIONS

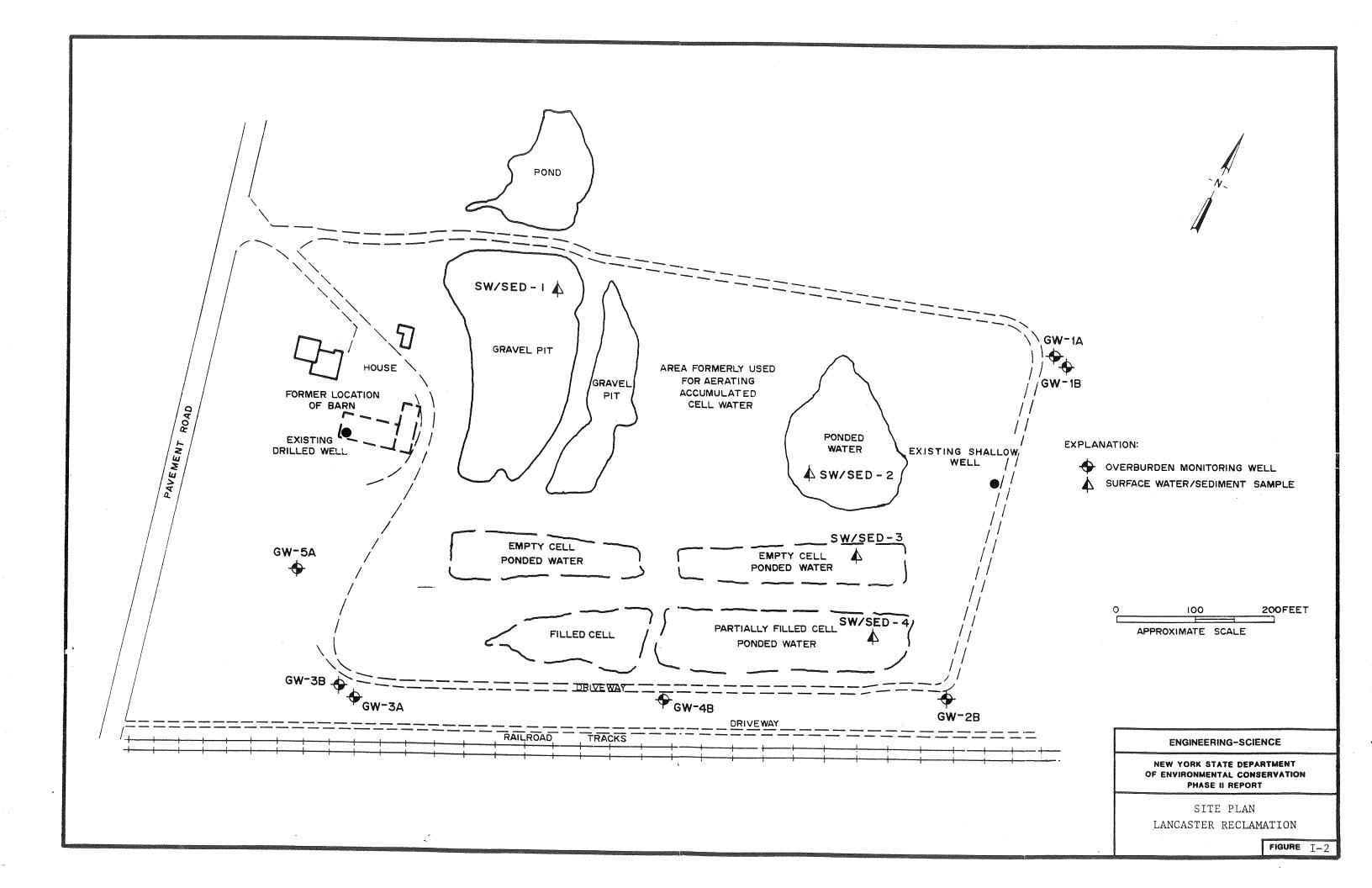
The groundwater results from this Phase II investigation indicate the Lancaster Reclamation site is impacting groundwater quality in the unconsolidated deposits. From an environmental protection standpoint, this situation should be addressed. Capping or covering the disposal cells may retard further releases of contaminants.

The impact of the contaminated groundwater on residential well users has been considered in this investigation, and is not anticipated to be significant. Only 27 homes that utilize groundwater have been identified within a 3-mile radius of the site; all of these appear to be hydraulically upgradient of the site. Both on-site and regional groundwater flow appear to be toward the west, while the identified private wells are all to the northeast, east, and southeast. The impact to these users could be determined with a higher degree of certainty by sampling the residential wells and nearby gravel pit and analyzing these samples for HSL volatiles and metals.

Aroclor 1254, a polychlorinated biphenyl compound, was detected in a sediment sample from one of the cells. Since this cell reportedly received no wastes, further sampling of sediments from this cell may be warranted to confirm that result.

If the recommended additional sampling results do not indicate a contamination problem, no action other than adequately covering the disposal cells would appear to be necessary at the Lancaster Reclamation site.





# **SECTION II**

# **PURPOSE**

The objective of a Phase II investigation is to determine if hazardous wastes have been disposed of in the site, if contaminants exist in the various mediums (air, groundwater, surface water or soils), and whether or not threats to human health or the environment exist. Information gathered relative to the above will allow the Department to reclassify the site or if warranted delist it.

During the period of operation from 1976 to 1985, the Lancaster Reclamation site received various industrial sludges and solid wastes. Leaching potential tests of the types of wastes disposed on-site have previously shown measurable levels of heavy metals and organic compounds. Previous analytical testing of groundwater samples from the site indicated the presence of phenol in the shallow overburden aquifer. This Phase II investigation was designed to supplement data previously collected at the site and determine whether the potential exists for groundwater or surface water contamination.

# **SECTION III**

# **SCOPE OF WORK**

# INTRODUCTION

Field work for the Phase II investigation at the Lancaster Reclamation site began in June, 1987 and was completed in October, 1988. Field work was performed in accordance with a NYSDEC-approved project Quality Assurance/Quality Control Plan and site-specific Health and Safety Plan. The Phase II Work Plan dated April 28, 1986 was approved by NYSDEC prior to commencing the field investigations. The Work Plan was later revised with NYSDEC approval, based on the preliminary findings of the field investigations.

The original Work Plan included eight monitoring wells. Based on the findings of the geophysical surveys and the initial borings, the locations were revised, the number of wells was reduced to seven, and the screened zones were altered.

# PHASE II SITE INVESTIGATION

The scope of the investigation is summarized in Table III-1 and is described below. All field work was performed or supervised by qualified ES staff, using procedures described in Appendices A and B.

#### **Geophysical Survey**

A geophysical survey utilizing Electrical Resistivity (ER) methods was performed at the Lancaster Reclamation site on June 22-25, 1987. The ER survey was conducted at various locations within and around the perimeter of the site. The results were used to determine the general geologic stratigraphy, and to confirm placement of the monitoring wells within potentially conductive subsurface plumes. The field procedures and the results are presented in Appendix B.

# **Monitoring Well Installations**

Seven overburden monitoring wells were installed around the perimeter of the site between September 21 and October 6, 1987 by Rochester Drilling Co., Inc. (Figure III-1). Wells were installed upgradient and downgradient of the disposal cells (Table III-2). The upgradient well pair monitors the perched water table (GW-1A) and the lower portion of the overburden, near the top of bedrock (GW-1B). Downgradient wells GW-2B, GW-3B and GW-4B monitor the top of bedrock zone along the southern site boundary. Downgradient wells GW-3A and GW-5A monitor the top of the water table.

The wells were drilled and constructed in accordance with NYSDEC guidelines. Generally, soil samples were collected at intervals of five feet in the deepest well boring at each location. Selected soil samples were analyzed for grain-size characteristics, Atterberg Limits and permeability by R&R International, Inc.

The monitoring wells were constructed with two-inch inside diameter threaded, flush-joint PVC pipe and slotted screen. For most of the deeper well installations where flowing sand conditions were encountered, the native soil materials were used in lieu of a quartz sandpack. A bentonite slurry or pellet seal was used to isolate the screened section from above. Water levels in the wells were measured on at least two dates following installation and well development. Well development generally consisted of removing water by the air-lift method utilizing compressed air. The monitoring wells were capped with a locking steel protective casing.

Field procedures for the monitoring well installations are presented in Appendix A. Boring logs, well schematics and geotechnical analyses results are included in Appendix C.

# **Surface Water and Sediment Sampling and Analysis**

Four surface water and sediment samples were collected on September 9-10, 1987. All surface water and sediment samples were analyzed for Hazardous Substance List (HSL) organics, (volatiles, semivolatiles), metals, and cyanide. The surface water samples were also analyzed for total organic halogens (TOX). All analyses were performed by Nanco Labs, Inc. In addition, a trip blank and field (wash) blank were analyzed for HSL volatiles. The sediment locations were resampled by ES on October 13, 1988 and analyzed for HSL pesticide/PCBs by York Laboratories. Analyses and reporting were performed utilizing the applicable NYSDEC Superfund and Contract Laboratory Protocols dated June, 1986 and its latest amendments (NYSDEC CLP).

As no natural surface water body intersects the site, samples were collected from on-site ponds and disposal cells. Samples SW/SED-1 were collected from a basin previously excavated for sand and gravel (Figure III-1). Samples SW/SED-2 were collected in an area formerly used for spray-aerating accumulated disposal cell water. SW/SED-3 and SW/SED-4 were located in empty and partially-filled disposal cells, respectively. Surface water samples were collected with glass beakers; sediment samples were collected with stainless steel spoons. The field procedures utilized are presented in Appendix A, and the analytical results are discussed in Section IV and listed in Appendix D.

# **Groundwater Sampling and Analysis**

Groundwater samples were collected from each of the seven Phase II overburden monitoring wells on October 29 and 30, 1987. These samples were analyzed for HSL organics (volatiles, semivolatiles), metals, cyanide and TOX by Nanco Labs, Inc. In addition, a trip blank, wash blank (GW-4A) and an atmospheric blank (GW-5B) were analyzed for HSL volatiles. On June 1, 1988, well GW-5A was resampled and analyzed for HSL volatiles. Analyses and reporting were performed utilizing applicable NYSDEC CLP methods.

The upgradient wells sampled were screened in a perched water table and a deeper overburden aquifer (GW-1A and GW-1B, respectively). Wells located downgradient of the disposal cells were screened in the deep overburden aquifer. Of these wells, GW-3A and GW-5A were screened at the top of the aquifer, and wells GW-2B, 3B and 4B were screened in the lower portion of the aquifer. Samples were collected with teflon bailers and dedicated line. Field procedures for the groundwater sampling are presented in Appendix A. Analytical results are discussed in Section IV and listed in Appendix D.

# Air Survey

A Photovac Total Ionizables Present (TIP-II) was used to screen for volatile organic compounds present in the air. This monitoring was performed as a health and safety measure during on-site field work. Air in the breathing zone (4 to 5 feet above ground) was monitored during drilling and sampling activities. Soil samples were also screened, as was the headspace over each monitoring well, as a preliminary means of determining the presence of volatile organic compounds.

# TABLE III-1

# **SUMMARY OF PHASE II TASKS**

# LANCASTER RECLAMATION SITE

Task	Description of Task				
Prepare and Update Work Plan	Reviewed the information in the Phase I report and supplemental data, conducted a site visit, examined available aerial photography and prepared the Phase II work plan. Following completion of the geophysical survey, the work plan was revised as needed.				
Conduct Records Search/Data Compilation	Reviewed Phase I information and augmented the Phase I investigation information by contacting or visiting central and local offices of NYSDEC, NYSDOH, County DOH, NYSDOT, etc.				
Site Reconnaissance	Checked locations and conditions of existing wells, examined terrain for accessibility by drill rigs, examined suitability for geophysical surveys, and determined appropriate locations of sampling points.				
Conduct Geophysical Studies	Conducted an ER survey to determine general geologic stratigraphy and identify potentially conductive subsurface plumes.				
Install Monitoring Wells	Installed seven PVC overburden monitoring wells. One upgradient well is screened in the perched water table; one upgradient and five downgradient wells are screened in the deeper overburden aquifer. Depths range from 10.0 to 74.6 feet below ground surface.				

# **TABLE III-1 CONTINUED**

Task	Description of Task
Soil Samples From Borings	Soil samples were collected at 5-foot intervals or at changes in subsurface lithology as indicated during drilling. Eleven grain-size analyses, one Atterberg Limits, and two permeability tests were performed.
Perform Sampling and Analysis	
Sediment Samples From Surface Waters	Four sediment samples were collected and analyzed for HSL metals, cyanide, and organics.
Groundwater Samples	Seven groundwater samples were collected and analyzed for HSL metals, cyanide, organics, and TOX.
Surface Water Samples	Four surface water samples were collected and analyzed for HSL metals, cyanide, organics, and TOX.
Conduct Site Assessment	A preliminary site contamination assessment was conducted to complete the final HRS score and HRS documentation records.
Report Preparation	Prepared draft and final reports containing significant Phase I information, additional Phase II field data, final HRS score, HRS documentation records, and site assessments.
Project Management	Project coordination, administration and reporting.

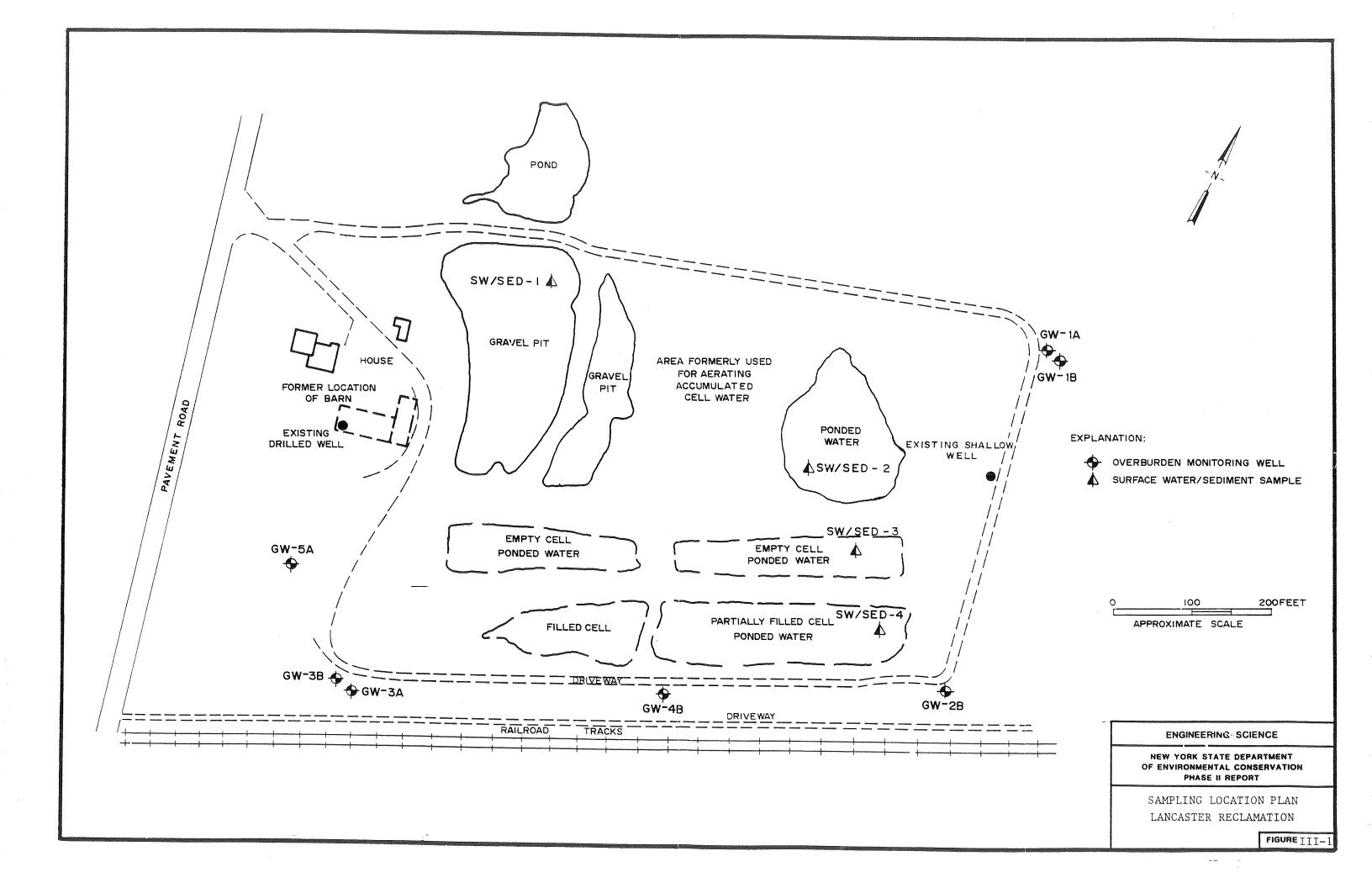
TABLE III-2

MONITORING WELL LOCATIONS AND SPECIFICATIONS

LANCASTER RECLAMATION SITE

Well Number	Unit Screened			Screened Interval (ft.)	
1A	Perched Water Table	Upgradient	10.0	5.0 - 10.0	
1B	On Top of Bedrock	Upgradient	76.6*	64.6 - 74.6	
2B	On Top of Bedrock	Downgradient	74.0*	62.0 - 72.0	
зА	Water Table	Downgradient	33.0	23.0 - 33.0	
3B	On Top of Bedrock	Downgradient	61.5*	49.5 - 59.5	
4B	On Top of Bedrock	Downgradient	64.1*	<b>52.0 - 62.</b> 0	
5A	Water Table	Downgradient	33.0	23.0 - 33.0	

<sup>\*</sup> Well has a two-foot sump below the bottom of the screen.



# **SECTION IV**

# SITE ASSESSMENT

#### SITE HISTORY

The Lancaster Reclamation site is approximately 12.9 acres in size and is located at 403 Pavement Road, Town of Lancaster, Erie County, New York (Erie County, 1988). Prior to 1976, the property was owned by Rose Pietruszewski. The property was originally farmland, and was subsequently used for sand and gravel excavation, apparently under an agreement between the site owner and a nearby gravel pit operator.

In 1976, the owners of the Lancaster Reclamation Company acquired the property (Lancaster Reclamation Company, 1987). Prior to the aquisition, the owners of Lancaster Reclamation Company arranged for the appropriate approvals and permits required for the planned future use of the site as a waste disposal facility. To this end, a Certificate of Zoning Compliance from the Town of Lancaster was applied for in a letter dated October 27, 1975. At the time, the site was to be used primarily for disposing of waste materials from Dresser Industries, Inc. of Depew, New York (Town of Lancaster).

On May 11, 1976, the NYSDEC approved plans and specifications for the proposed disposal operations at the facility (NYSDEC, 1979a). On May 28, 1976, the owners of the Lancaster Reclamation Company acquired the 12.9 acre parcel and subsequently began disposal of waste materials (Town of Lancaster, 1988). These materials were predominantly a bentonite clay sludge in a 90 percent water mixture.

Much of the initial correspondence and paperwork for the site (permit applications, etc.) reference Ferry Concrete Construction Company, Inc. as the site owner and operator. Between 1978 and 1979, the owners of the site began doing business as Lancaster Reclamation Company (Lancaster Reclamation Company, 1987).

In January 1978, NYSDEC allowed disposal of a foundry sand slurry consisting of fine sand, bentonite clay, metal oxides, coke ash and carbon at the Lancaster Reclamation Company site (NYSDEC, 1978a). The waste was generated by the Chevrolet Motor Division of General Motors (Tonawanda, New York). Ken Staub Jr. Trucking company was the waste hauler (NYSDEC, 1978b). This slurry was dewatered by evaporation prior to landfilling in cells.

Over the next several years, Lancaster Reclamation Company requested and received various approvals to expand or modify the waste types and disposal operations at the site. These changes were made with the approval of the NYSDEC and Town of Lancaster.

In January 1979, the NYSDEC agreed to allow Lancaster Reclamation Company to landfill in cells on-site, a slurry produced by Fabritron (Alden, New York), which contained cement, asbestos fibers, and glass fibers (NYSDEC, 1979b). However, as a result of objections raised by the Town of Lancaster, the disposal of asbestos wastes on-site was curtailed in June 1979 (Wendel Engineers, 1979). There is no conclusive information as to the exact quantity and location on-site where this waste was deposited.

In October 1979, the NYSDEC issued an initial operating permit (#2021) for a restricted use landfill on the provision that a monitoring well be installed at the site (NYSDEC, 1979c). By February 1980, the installation of a well in the eastern section of the site had been completed (Wendel Engineers, 1980). This new well, in addition to an existing water supply well, were periodically monitored and analytical results were submitted to the NYSDEC.

In October 1980, the NYSDEC granted a modification to Permit #2021 (#2290) to allow the landfilling of residual dust from shot blast collector systems in cells at the Lancaster Reclamation Company site (NYSDEC, 1980). The Town of Lancaster also granted a zoning compliance certificate to allow the disposal of shot blast dust at the Lancaster facility (Town of Lancaster, 1980). The shot blast dust was generated by Dresser Industries, and Ferry Concrete Construction Company, Inc. was the waste hauler.

In June 1981, the NYSDEC modified the landfill operation permit #2021 to allow the disposal of wallpaper production waste in cells at the site (NYSDEC, 1981a). The Town of Lancaster also approved disposal of the waste in a certificate of zoning compliance dated July 13, 1981. The wallpaper waste consisted of surface print waste, prepaste alkali and prepaste polymer. Reed Holdings, Inc. (Buffalo, New York) generated the wastes and contracted Lancaster Reclamation Company to transport the wastes to the Lancaster Reclamation Company site (NYSDEC, 1981).

In 1982 and 1983, Lancaster Reclamation Company received permission from the NYSDEC to dispose in cells on-site, oily sludges removed from bus garage catch basins (NYSDEC, 1982).

In June 1984, Lancaster Reclamation Company proposed abandoning the east monitoring well due to possible contamination of the well water by surface waters. Two new monitoring wells were proposed to monitor groundwater quality and establish groundwater flow patterns on the site (Wendel Engineers, 1984). In August 1984, Buffalo Drilling Company submitted a proposal to Lancaster Reclamation Company for a groundwater monitoring system (Buffalo Drilling Company, 1984). In November 1984, the NYSDEC requested additional groundwater data as a condition for renewal of the Lancaster Reclamation Company permit (NYSDEC, 1984). As a result, the permit was not renewed and the Lancaster Reclamation Company site has not received waste since late 1983 (Lancaster Reclamation Company, 1987). At the time of this writing, the site is owned by Lancaster Reclamation Company and is currently inactive.

#### **REGIONAL SETTING**

# **Regional Geology**

The Lancaster Reclamation Company site is located in the central portion of Erie County, within the Erie-Ontario Lowland which has topography typical of an abandoned lakebed (USDA, 1986). The elevations of the Erie-Ontario lowland generally range from 700 to 1,000 feet above mean sea level. The landforms are subdued, and generally consist of proglacial lakebed deposits, beach ridges, and glacial till plains. The regional ground surface topography dips gently to the northwest, towards Lakes Erie and Ontario.

The regional geologic setting in the vicinity of the site consists of Upper Silurian and Middle Devonian shale and limestone bedrock overlain by glaciolacustrine (lacustrine) deposits (USGS, 1968). The site is located near the contact of the Hamilton group shales and limestones and the Onondaga Limestone. The Hamilton group is above and to the south of the Onondaga Limestone. Regionally, the bedrock dips approximately 50 feet per mile to the southwest (USDA, 1986). These rocks were deposited in warm, shallow seas approximately 300 million years ago.

During the period from 300,000 to 10,000 years ago, several glacial ice advances covered the region. Associated with the glacial advances and retreats were proglacial lakes which occupied the northern portion of the county for extended periods of time. This resulted in water-sorted sand and silt deposits as the glacial ice meltwaters filled the proglacial lakes, and quietwater silt and clay deposits called lacustrine bottom sediments. Both types of these proglacial lake deposits can be found in the vicinity of the Lancaster Reclamation site.

# Regional Hydrology

The Lancaster Reclamation site is located within the Lake Erie-Niagara River drainage basin. There are no surface water bodies on-site which directly connect to natural, off-site surface water bodies. The nearest surface water body is the North Branch of Plum Bottom Creek, about one-third of a mile south of the site. The creek is classified as a Class D stream (6NYCRR Volume E), designated as suitable for secondary contact recreation. The North Branch of Plum Bottom Creek flows west into Cayuga Creek. Cayuga Creek flows west where it joins with Buffalo Creek to form the Buffalo River. The Buffalo River flows west to Lake Erie.

#### SITE GEOGRAPHY

# **Topography**

The original ground surface at the Lancaster Reclamation site was probably flat; however, previous excavation of sand and gravel in the northeastern quadrant of the site resulted in a large pit in that area (Figure IV-1). Four disposal cells were constructed in excavated areas in the southern portion of the site. The southwestern cell has been filled with waste materials. The southeastern cell is partially filled and, along with two remaining open cells, contains ponded

water. The northeast quadrant of the site remains fairly level and was previously used for aerating accumulated pond water.

North of the site is a vacant field and Walden Road. East of the site is a private airport. South of the site are active Conrail railroad tracks. These tracks are 10 to 15 feet below the ground surface of the site. West of the site is Pavement Road. On the site is the residence of one of the site owners. There is a deep well in the barn of this residence that is no longer used. In the recent past, a fire destroyed much of the barn structure.

#### Soils

Most of the surface soils on the south and west sides of the site have been excavated; the surface soils on the north and east sides are mapped as Claverack loamy fine-sand and Palmyra gravelly loam (USDA, 1986). Claverack soils are deep, moderately well-drained, and were formed in sandy lacustrine sediments overlying clayey lacustrine deposits. The permeability is rapid in the upper sandy layer (4 x  $10^{-2}$  cm/sec) and slow to very slow in the clayey substratum (1 x  $10^{-4}$  cm/sec). The Palmyra gravelly loam is a deep, well-drained soil formed in outwash deposits. The substratum is very gravelly with high permeability (1 x  $10^{-2}$  cm/sec). The substratum is often an excellent source of sand and gravel (USDA, 1986).

# SITE HYDROGEOLOGY

# **Site Geology**

This discussion of the Lancaster Reclamation site geology is based on the Phase II site investigation which included seven monitoring well installations (Figure IV-1), and an electrical resistivity survey (Appendix B). Boring logs and well schematics are presented in Appendix C of this report. Other sources of information include a site investigation conducted by Buffalo Drilling Company in 1984 and a Quaternary Geology Map by the New York State Museum and Science Service (NYSMSS, 1977).

The site geology can be generally characterized as 50 to 75 feet of glacial sediments and fill overlying limestone bedrock. A generalized stratigraphic column of the site subsurface geology is presented in Figure IV-2. A summary of the stratigraphic units encountered in each Phase II well boring is presented in Table IV-1.

The bedrock at the site is the Middle Devonian Onondaga Limestone. The upper five feet appeared massive with low primary and secondary permeability in the one boring where bedrock was sampled (GW-1B). The depth to bedrock ranged between 61.5 to 75 feet in the Phase II borings. The bedrock surface dips rather abruptly from GW-4B (elevation 339.0) downward toward GW-2B and GW-1B (elevation 323.3 and 323.4 respectively).

Four to nine feet of glacial till was encountered overlying the bedrock in the borings conducted to refusal (GW-1B, 2B, 3B 4B). The till was saturated, dense, gray to dark gray, fine

sand, silt and 5 to 25 percent gravel (Table IV-2). The till unit was thickest along the southern boundary of the site at GW-4B.

Overlying the glacial till is an ice-contact drift deposit. This material consists of silt, sand and gravel, and becomes coarser and thicker toward the east. The ice contact drift was found to be saturated throughout its thickness in most borings. The unit had a strong thixotropic reaction, a tendency to liquify or flow when disturbed. In the eastern part of the site, the ice-contact drift is under hydrostatic pressure due to the confining lacustrine sediment which overlies it.

The lacustrine sediments are silts and clays, often laminated or varved, deposited in the shallow proglacial lakes which once covered the area. The lacustrine sediments were encountered on the east side of the site, in well borings GW-1B, GW-2B and GW-4B. The upper part of the unit contains 25 to 30 percent clay; in the lower portion of the unit, the clay content is 50 to 60 percent (Table IV-2). The lacustrine sediments are 30 to 33 feet thick on the east side of the site, but are replaced on the west side of the site by a glacial outwash deposit. The cross-section A-A' (located on Figure IV-1 and presented on Figure IV-3) shows the positions of the lacustrine sediments and the glacial outwash deposit.

The outwash deposit is brown, fine- to medium-sand and silt. This unit is 49 feet thick at the western end of the site (GW-3B), and only 8.6 feet thick in the northeastern corner (GW-1B). The outwash sand probably was the material mined at the site prior to waste disposal. This may account for the variability in thickness as encountered in the well borings.

At each Phase II monitoring well location, a layer of fill was encountered, ranging in thickness from .5 to 8 feet. This is probably due to the fact that the well locations were placed along roadways around the perimeter of the site. The fill may have been placed to provide stability to the roadways. In general, the fill appeared to consist of sand, gravel and slag, and was thickest along the southern site boundary, adjacent to the railroad.

In summary, the stratigraphy as encountered in the Phase II well locations can be generally characterized from bottom to top as limestone bedrock, glacial till, ice-contact sand and silt, lacustrine silt and clay, outwash sand and silt, and fill at the surface. On the extreme west side of the site, the lacustrine unit was not encountered. The Phase II findings were consistent with the findings of the Buffalo Drilling Company investigation conducted in 1984. The findings of the Phase II borings generally confirmed the interpretations of the Phase II ER soundings. The depth to bedrock was interpreted to be 56 to 58 feet based on the ER soundings, whereas the actual depth to bedrock found in the Phase II borings was 61.5 to 74 feet. The thickness of the fill was interpreted to be up to 6 feet thick, based on the ER soundings. The fill thickness in the Phase II borings was up to 8 feet.

# Groundwater Hydrology

Seven groundwater monitoring wells were installed during the Phase II site investigation. Figure IV-1 presents the locations of the monitoring wells, Table IV-3 presents the monitoring well

data and Table IV-4 presents water level data. Boring logs and well schematics are presented in Appendix C.

The groundwater hydrology is complicated by the variability of the glacial deposits and previous excavations at the site. There are two water-bearing zones in the overburden of the Lancaster Reclamation site; an upper perched water table and a deeper overburden aquifer. The overburden aquifer occurs in the glacial till and glacial outwash units. Of the two water-bearing zones, the deep overburden aquifer is considered the aquifer of concern due to its comparatively greater yield, greater lateral extent and its potential use as a drinking water source.

Water level elevations from February, 1988 indicate that groundwater flow is to the west-southwest in the overburden aquifer (Table IV-4 and Figure IV-4). Under this condition, well GW-1B can be considered the upgradient location, and wells GW-2B, 3A, 3B, 4B and 5A as the downgradient locations. The disposal cells are located between the upgradient and downgradient wells. The water level elevations from October, 1987 indicate a southwesterly groundwater flow, although the gradient is flatter, with little variation in elevations between wells (Table IV-4).

In the eastern half of the site (wells GW-1B, 2B and 4B), the overburden aquifer is confined by the lacustrine unit. During the drilling of wells on the east side, the lacustrine unit was penetrated and the overburden aquifer was encountered. At this point, water and sand entered the augers and rose to a static level within the lacustrine unit under hydraulic pressure. In the western half of the site (wells GW-3B, 3A, and 5A), the overburden aquifer is unconfined, as the lacustrine unit was not encountered in these borings.

The perched water table was encountered only at the northeastern corner of the site, at GW-1A. The perched water table may discharge as surface water in the disposal cells or other excavations on-site. At the periphery of the lacustrine unit, the perched water may drain downward into the overburden aquifer. The perched water table is shallow and showed significant changes in water level elevation, probably in response to precipitation events. The well screened in the perched aquifer (GW-1A) was quickly bailed dry and was slow to recharge during well development.

The permeabilities of the units on-site vary due to differences in lithologies and densities. The fill, outwash and ice contact deposits should have moderate to high permeabilities (estimated at  $10^{-5}$  to  $10^{+1}$  cm/sec) due to the low density and large particle size of the units (Freeze and Cherry, 1979). The glacial till, being poorly sorted and having a higher density, should have a moderate to low permeability (estimated at  $10^{-7}$  to  $10^{-3}$  cm/sec) (Freeze and Cherry, 1979). Shelby tube samples of the lacustrine sediments were collected from two well borings. Due to the relatively high percentage of clay in this unit, the measured permeabilities were very low: 2.21 x  $10^{-8}$  cm/sec at GW-1A (12- to 14-foot depth) and 1.97 x  $10^{-8}$  at GW-2B (17- to19-foot depth). These results are presented in Appendix C.

The groundwater hydrology of the bedrock beneath the site was not investigated as part of this Phase II project. Based on the site geology, it is likely that the upper portion of the bedrock is hydraulically connected to the aquifer of concern, particularly if the bedrock is fractured.

# **Surface Water Hydrology**

The regional surface water hydrology has been previously discussed in this section. There are no natural surface water bodies which intersect the site boundaries. On-site surface water occurs as man-made ponds and disposal cells. The ponds are remnants from the sand and gravel excavation operations previously conducted at the site. The disposal cells contain wastes landfilled during the period of waste disposal operations. Neither the ponds nor disposal cells directly connect to an off-site surface water body. Overland flow is unlikely based on a significant freeboard of 5 to 10 feet between the top of the disposal cells and the water level in them. Therefore, off-site migration of surface water is not considered a threat to the nearest downslope surface water body, the North Branch Plum Bottom Creek.

# SITE CONTAMINATION ASSESSMENT

Potential contamination of the environment within the site boundary was evaluated by a review of the character and quantity of wastes suspected at the site, chemical analysis of the groundwater, surface water, and sediment, subsurface geophysical surveys and a survey of the air quality with a Photovac Tip II photoionization meter. In addition to the results of this Phase II investigation, previous sampling and analysis results from two existing on-site wells and previous results from various waste characterization tests were also considered in the site contamination assessment.

#### Waste Characterization

The 13-acre Lancaster Reclamation site has been used as an industrial waste landfill since 1976. The waste types and quantities of waste disposed at the site are presented in Table IV-5. Also shown are hazardous constituents of concern. Detailed constituent analyses for most of these wastes are provided in Appendix D of this report.

Beginning in 1976, Lancaster Reclamation Company landfilled on-site bentonite clay slurry and foundry sand in cells located in the southern portion of the site (see Figure IV-1). The bentonite slurry contained 90 percent water; 96,000 cubic yards of slurry were placed in the cells and dewatered by evaporation prior to burial. Foundry sand was also used to thicken the slurry. Analytical data on filtrate (i.e., water fraction) of the slurry indicated detectable concentrations of zinc, chlorides and total organic carbon (TOC) (Frontier Chemical Waste Process, Inc., 1976). The concentration of zinc exceeded the limits for discharge to groundwaters in New York State. A leachate test also found detectable concentrations of phenol (1.87 - 2.05 ppm) in the foundry sand that was landfilled with the clay slurry (NYSDEC, 1979a). Both the bentonite slurry and the foundry sand wastes were generated by Dresser Industries (Wendel Engineers, 1979).

Beginning in 1978, approximately 1.7 million gallons of foundry sand slurry were placed in on-site cells (Ferry, 1985). The slurry consisted of sand fines produced from foundry wastewater treatment at the Chevrolet Division of General Motors in Tonawanda, New York. The slurry contained 65 percent water. Dewatering was accomplished by injecting air into the waste to

promote evaporation, or decanting the liquid and applying it on the land by spray irrigation (Wendel Engineers, 1979).

Beginning in January 1979, an asbestos-containing waste slurry consisting of 20 percent portland cement, 5 percent asbestos, 10 percent glass fibers and 65 percent water was disposed in the cells. The slurry was dewatered using the same techniques described for the bentonite and foundry sand slurries.

In March, 1981, Lancaster Reclamation Company received approval to accept shot blast dust generated from steel casting operations at Dresser Industries (NYSDEC, 1981b). Prior to disposal, the shot blast dust was mixed with foundry sand. The estimated quantity of this shot blast dust is included in the estimate for the foundry sand presented in Table IV-5.

Starting in June 1981, Lancaster Reclamation, Inc. received 120,000 gallons of wallpaper production wastes from Reed Holdings, Inc. (Ferry, 1985). The wastes included surface print waste, prepaste polymer and prepaste alkali. A description of the composition of each waste type is presented in Appendix D (ARO Corporation, 1981). EP Toxicity tests were also conducted on each waste and results of the tests show that the concentrations of the contaminants analyzed were below the test limits (ARO Corporation, 1981). However, other organic compounds which may be present in these wastes (e.g., solvents) were not analyzed.

In 1982 and 1983, Lancaster Reclamation Company disposed in cells on-site, 9,000 cubic yards of oil sludge from bus garage catch basins (Ferry, 1985). These sludges were received from the Sweet Home Central School and Ormsby Vocational School bus garages. The oil and grease content of the Sweet Home Central School sludge was 3.07 percent (ARO Corporation, 1982). To prevent oil from leaching from the waste, the NYSDEC requested that Lancaster Reclamation Company mix the oily sludge with diatomaceous earth (NYSDEC, 1982).

From January 1980 to March 1984, Lancaster Reclamation conducted semi-annual analyses of surface water and groundwater. Surface waters from the southeast cell and an aerated basin in the northeast portion of the site were sampled. During these sampling efforts, groundwater samples were collected from a monitoring well in the eastern portion of the site and a deep water supply well located in an on-site barn. Construction details of these wells are apparently not available. Samples were sent to ARO Corporation Environmental Laboratory to be analyzed for conductivity, pH, phenols, TOC and iron.

The concentrations of phenols in the west well were below the water quality standards for Class GA groundwater, with the exception of one sampling event conducted in February 1981 (0.003 mg/l). However, the west well occurs in the deep bedrock aquifer, and may not be hydraulically connected to the disposal cell waters which were shown to contain higher concentrations of phenols.

The concentrations of phenol in the east well were higher than those detected in the west well. Phenol concentrations exceeded the Class GA groundwater standard for all but one of the

sampling events over the same period of time. The east well occurs in a shallow aquifer which is more likely to be hydraulically connected to the disposal cell waters.

The presence of several priority pollutants (i.e., selenium, lead, and PCBs) in the test leachates of on-site wastes suggests a potential for surface water and groundwater contamination by these constituents. The Phase II investigation was designed to determine whether these and other Hazardous Substance List (HSL) compounds may be present in the site surface and groundwaters.

The following subsections provide a summary of the results of the Phase II investigation sampling and analysis tasks. Whenever possible, samples were collected upstream or upgradient of the site to establish ambient or background conditions. These levels were compared to those found on-site, downstream or downgradient of the site. Concentrations downstream or downgradient of the site in excess of three times the upgradient concentration may indicate a release from a contaminant source located on-site. The value of three times is generally recognized by the USEPA and NYSDEC as constituting a "significantly higher" concentration for purposes of scoring an HRS observed release for a particular pathway. Therefore, reference is made to the number and types of analytes considered to be observed releases under each pathway, as discussed in the following subsections.

The analytical results have also been compared to applicable New York State standards or guidance values. Standards and guidance values are provided for the applicable surface water and groundwater classifications. Standards that have been promulgated for surface water appear in 6NYCRR Parts 701 and 702, and for groundwater in Part 703. These regulations also provide authority for the use of guidance values when a standard does not exist for a given water classification. In most cases, the standards and guidance values cited are for sources of drinking water. Sediment results have been compared to published naturally-occurring ranges in New York State or conterminous United States soils.

The analytical data were reviewed and validated for data usability. Included in the evaluation was a review of the results of "blank" sample analyses. In cases where blank (method, trip, or field) contamination was detected, the individual constituent concentrations were judged as follows: 1) If the sample value was less tan 10 times the highest blank value, the sample value was rejected (flagged "R"); 2) If the sample value was between 10 and 20 times the highest blank value, the sample was considered an estimate (flagged "X"); 3) If the sample value was greater than 20 times the highest blank value, it was accepted (unflagged). These criteria were used as guidance limits to help determine whether blank contamination was potentially responsible for the presence of these constituents in the field samples.

# **Groundwater Contamination Assessment**

Groundwater samples were collected from seven overburden monitoring wells on October 29 and 30, 1987 as part of the Phase II investigation. These samples were analyzed for Hazardous Substance List (HSL) volatile and semivolatile organic compounds (Table IV-6), HSL metals and

cyanide (Table IV-7) and total halogenated organic compounds (TOX). One well (GW-5A) was resampled on June 1, 1988 and analyzed for volatile organic compounds. The shallow and deep wells are discussed separately in the following paragraphs.

#### Shallow Water Table Wells

Thirteen HSL organic compounds were detected in the shallow water table wells. Three compounds, acetone, methylene chloride and benzo(a) pyrene were also detected in laboratory blank samples. The presence of those compounds in the well samples is attributed to laboratory contamination. An upgradient well for the shallow water table does not exist for water quality comparison purposes, as GW-1A and GW-3A, GW-5A are in differing hydraulic settings.

Well GW-5A contained relatively high concentrations of seven volatile organic compounds (VOCs). Due to these high concentrations, and the lack of an identified source of these compounds on-site, well GW-5A was subsequently resampled and analyzed for VOCs. The resampling results did not detect any VOCs other than acetone and methylene chloride, which were also present in laboratory blank samples and are attributed to laboratory contamination. However, a release cannot be established, as there was no upgradient well. Five other organic compounds were present in GW-5A; all are semivolatile compounds. The concentrations of three phenolic compounds exceeded the applicable Class GA standards.

Nineteen HSL metals were detected in the shallow water table wells (Table IV-7). The concentrations of metals were generally highest in the upgradient well GW-1A. However, a release cannot be established, as there is no upgradient well. The concentration of zinc in downgradient well GW-3A was in excess of three times the upgradient concentration, indicating a release potentially attributable to the site. In one or more shallow wells, the concentrations of antimony, iron, lead, magnesium and manganese exceeded the applicable Class GA groundwater standards and guidance values.

# Deep Wells

Eight HSL organic compounds were detected in the deep wells (Table IV-6). Acetone, methylene chloride and benzo(a)pyrene were also detected in blank samples, and the presence of these compounds is attributed to laboratory contamination. The concentration of dinoctylphthalate in downgradient well GW-2B exceeded the upgradient concentration in GW-1B by more than a factor of three, indicating a release potentially attributable to the site. The concentration of benzene in GW-4B exceeded the Class GA standard for that compound. The result for benzene in GW-4 is considered an estimated value since the result was below the contract-required (CLP) detection limit. However, the identification of benzene in the sample means the standard was exceeded since the standard is less than or equal to 0.2 ug/l.

Fourteen HSL metals were detected in the deep wells (Table IV-7). The downgradient concentrations of aluminum, arsenic, iron, lead, magnesium, manganese, potassium and zinc

exceeded the upgradient concentrations by a factor of three or more, indicating releases potentially attributable to the site. Class GA guidance values or standards for iron, lead, and magnesium were exceeded in one or more wells.

The types and concentrations of organic compounds and metals present in the groundwater are generally consistent with the former use of the site. Some of the organic compounds, particularly the phenolic compounds, may originate from the foundry sand wastes disposed in the cells. Previous waste analyses had shown detectable concentrations of phenols (Appendix D). The metals potentially being released from the site are generally consistent with those expected in the waste types present on-site, and those detected in previous waste analyses.

The groundwater results indicate that the site is impacting groundwater quality in the unconsolidated glacial deposits. This condition should be addressed and corrected if necessary. Capping or covering the disposal cells may inhibit further releases of contaminants to the groundwater.

The impact of the contaminated groundwater on residential well users is considered in Section V of this report. Due to the relatively small number of residences having private wells (an estimated 27), and the location of most of these wells upgradient of the site (to the southeast along Westwood Road - see Figure I-1), the impact on residential groundwater users is not anticipated to be significant. In addition, the presence of the gravel pit located downgradient of the Lancaster Reclamation site may intercept the groundwater flow path through pumping and associated operations (see gravel pit located 1,500 feet southwest of site on Figure I-1).

Rather than undertake expensive and time-consuming groundwater remediation at the Lancaster Reclamation site, it may be more effective to perform an extensive survey of all groundwater users in the site vicinity. Information to be collected would include the location of wells, depth of wells and the aquifer from which water is drawn. Those wells which appear to be most at risk should be sampled and analyzed for HSL organic compounds and metals. Those results should indicate whether downgradient groundwater users are being impacted by the site, and what action is necessary to alleviate the problem, if one exists.

# **Surface Water Contamination Assessment**

Four surface water samples were collected on September 9 and 10, 1987, and analyzed for HSL organic compounds (Table IV-8), HSL metals (Table IV-9) and TOX. These surface water samples were collected from on-site ponds or disposal cells; there was no true upgradient location on-site to determine the background level of organic and inorganic constituents. Since no upgradient or background data were collected, the results of the on-site surface water sampling have been compared to the most stringent NYS surface water standards and guidance values as a conservative measure of the water quality found on-site. Since the on-site surface waters have no NYS classification, these standards have no regulatory application.

Six HSL organic compounds were detected in the surface water samples. The results for three of these compounds were rejected due to their presence in the laboratory blank samples.

No Class A standards or guidance values were exceeded. Eighteen inorganic compounds were detected in the surface water samples. NYS Class A surface water standards or guidance values for cadmium, iron, antimony and aluminum were exceeded in Sample SW-2. In sample SW-3, the standards for iron and aluminum were exceeded, as was the guidance value for antimony. In sample SW-1, the standards for iron and aluminum were exceeded. However, these surface water results do not indicate a significant contamination condition exists, since the on-site surface waters have no known use and are not connected to off-site surface water bodies.

The surface water results are noteworthy because of the similarity to the groundwater results. With the exception of cadmium, those metals which exceeded Class A surface water standards and guidance values were also being released to the groundwater, or have exceeded Class GA standards or guidance values.

#### **Sediment Contamination Assessment**

Four sediment samples were collected at the same locations as the surface water samples on September 9, 1987. These samples were analyzed for HSL volatile and semivolatile organic compounds (Table IV-10) and HSL metals (Table IV-11). Four additional sediment samples were collected from the same locations on October 13, 1988 and were analyzed for HSL pesticides and PCBs.

Sixteen organic compounds were detected in the sediment samples. Three of these were also detected in laboratory blank samples, and are attributed to laboratory contamination. Samples SED-1 and SED-3 had the highest number of organic compounds detected, and generally had the highest reported concentrations as well. Sample SED-1 contained three phenolic compounds: phenol, 2-chlorophenol and 4-chloro-3-methylphenol. It is noteworthy that this sample was collected from an area not considered to be associated with the disposal cells. The origin of these compounds is therefore uncertain. Sample SED-3 had detectable concentrations of several volatile organic compounds and Aroclor 1254, a polychlorinated biphenyl (PCB) compound. This sample was collected from a disposal cell which has reportedly not received wastes. Antimony was detected in all samples at levels exceeding the published range for New York State soils in all samples. Cadmium was detected at a level exceeding the published range for U.S. soils in SED-2.

**TABLE IV-1** 

# STRATIGRAPHY SUMMARY

# PHASE II WELL BORINGS - LANCASTER RECLAMATION

(Depth in Feet Below Ground Surface)

Stratigrapahi	ic						
Unit (Elevation*)	GW-1A (398.7)	GW-1B (398.4)	GW-2B (397.3)	GW-3A (402.0)	GW-3B (401.9)	GW-4B (403.1)	GW-5A (401.2)
Fill	0 - 1.6	0 - 1.6	0 - 2.0	0 - 0.5	0 - 0.5	0 - 8.0	0 - 5.5
Outwash Sand	1.6 - 10.2	1.6 - 10.2	2.0 - 3.0	0.5 - 38.0	0.5 - 49.5		5.5 - 33.0
Lacustrine Silty Clay	10.2 - 14.4	10.2 - 40.3	3.0 - 36.0			8.0 - 41.0	
Ice Contact Silty Sand and Gravel		40.3 - 70.5	36.0 - 70.0		49.5 - 55.0	41.0 - 55.0	
Till		70.5 - 75.0	70.0 - 74.0		55.0 - 61.5	55.0 - 64.1	
Bedrock		75.0 - 80.0					

<sup>\*</sup> Elevation of ground surface in feet, referenced to an assumed datum.

TABLE IV-2
GRAIN SIZE RESULTS

# LANCASTER RECLAMATION SITE

Boring Number	Depth (ft.)	Sand (%)	Silt (%)	Clay (%)	Unified Soil Classification <sup>(a)</sup>	Stratigraphic Unit
1-B	5.0	88.4	11.6	*	SM-SP	Outwash Sand
1-B	51.0	70.7	29.3	*	SM	Ice Contact Drift
2-B	6.0	42.0	30.8	27.2	CL-ML	Lacustrine Clay
2-B	45.0	54.1	45.9	<b>)*</b>	SM	Ice Contact Drift
3-B	14.0	64.5	35.5	;*	SM	Outwash Sand
3-B	55.0	58.8	41.2	)*	SM	ice Contact Drift/ Till
4-B	15.0	2.1	40.3	57.6	CL	Lacustrine Clay
4-B	30.0	5.6	40.2	54.2	CL	Lacustrine Clay
4-B	50.0	89.8	10.2	2*	SM-SP	Ice Contact Drift
5-A	15.0	65.4	34.6	6 <b>*</b>	SM	Outwash Sand

<sup>\*</sup> Percentage of silt and clay combined.

<sup>(</sup>a) SP Poorly graded sands, gravelly sands, little or no fines.

SM Silty sands, sand-silt mixtures.

SC Clayey sands, sand-clay mixtures.

ML. Inorganic silts and very fine sands, rock flour, silty or clayey fine sands, or clayey silts, with slight plasticity.

CL Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.

TABLE IV-3

MONITORING WELL DATA

LANCASTER RECLAMATION SITE

Well I.D.	Ground Surface Elevation (Feet*)	Top of Bedrock Depth/Elevation (Feet/Feet*)	Top of Well Screen Depth/Elevation (Feet/Feet*)	Bottom of Well Screen Depth/Elevation (Feet/Feet*)
1A	398.7	NA	5/393.7	10/388.7
1B	398.4	75/323.4	64.6/333.8	74.6/323.8
2B	397.3	74/323.3	62/335.3	72/325.3
зА	402.0	NA	23/379.0	33/369.0
3B	401.9	61.5/340.4	49.5/352.4	59.5/342.4
4B	403.1	64.1/339.0	52/351.7	62/342.1
5A	401.2	NA	23/378.2	33/368.2

<sup>\*</sup> Elevation in feet referenced to an assumed datum.

**TABLE IV-4 WATER LEVEL DATA** LANCASTER RECLAMATION SITE

					Water Level Data			
	Ground	Top of PVC Well Screen			Date 10/30/87		Date 2	/18/88
Well I.D.	Surface Elevation (Feet*)	Well Pipe Elevation (Feet*)	Interval Elevation (Feet*)	Stratigraphic Unit Screened	Depth to Water Level (Feet**)	Water Level Elevation (Feet*)	Depth to Water Level (Feet**)	Water Level Elevation (Feet*)
1A	398.7	400.7	393.7 - 388.7	Outwash Sand	4.2	396.5	2.1	398.6
1B	398.4	400.5	333.8 - 323.8	Till and Ice Contact	22.9	377.6	21.9	378.6
2B	397.3	399.3	335.3 - 325.3	Till and Ice Contact	22.1	377.2	20.9	378.4
зА	402.0	404.5	379.0 - 369.0	Outwash Sand	28.0	376.5	27.3	377.2
3B	401.9	404.4	352.4 - 342.4	Till and Ice Contact	28.1	376.3	27.3	377.1
4B	403.1	405.8	351.1 - 341.1	Till and Ice Contact	29.0	376.8	28.0	377.8
<u>5A</u>	401.2	403.2	378.2 - 368.2	Outwash Sand	27.0	376.2	26.3	376.9

Referenced to an assumed datum. Water level depth from top of PVC well pipe.

**TABLE IV-5** 

## **SUMMARY OF WASTES DISPOSED AT THE**

## LANCASTER RECLAMATION COMPANY SITE

Date Permit Approved	Generator	Waste Type	Quantity Disposed (1)	Constituents Of Concern
5/11/76	Dresser Trans- portation Equipment Division	Bentonite Clay Slurry 165,000	76,000 cu. yd. Prior to Thickening After Thickening	Leachate: Zinc
1/24/78	Chevrolet Division General Motors	Foundry Sand Slurry	1.7 Million Gallons	Pit: Oil Pit Leachate: Selenium, Cadmium Mixture: Oil, PCB Mixture Leachate: Cadmium, Lead
1/4/79	Fabritron	Cement, Asbestos, and Glass Fiber Slurry	7,000 Gallons	Asbestos
5/11/76	Dresser Trans- portation Equipment Division	Foundry Sand	2,200 cu. yd.	Leachate: Phenols
6/16/81	Reed Holdings	Surface Print Waste, Prepaste Polymer, Prepas Alkali	120,000 Gallons te	
10/29/80	Dresser Trans- portation Equip- ment Division	Shot Blast of Steel Castings	Mixed with Foundry Sand	Leachate: Phenols
5/27/82	Sweet Home Central School Bus Garage	Dirt and Sludge From Catch Basin	See Below	Sludge: Oil
7/7/83	Ormsby Vocational School Bus Garage	Dirt and Sludge From Catch Basin	9,000 cu. yd., Includes Sweet Home	Heavy Metals and Oil and Grease

<sup>(1)</sup> Based on telephone interview with J. Ferry of Lancaster Reclamation, Inc., 4/25/85.

#### TABLE IV-6 LANCASTER RECLAMATION GROUNDWATER RESULTS

#### HSL ORGANIC COMPOUNDS (ug/L) SAMPLES COLLECTED OCTOBER 1987

	NYS Standard/					Deep Wells				
Compound (a)	Guidance Value (b)	GW-1A (c)	GW-3A	GW-5A	GW-5A (d)	GW-1B (c)	GW-2B	GW-3B	GW-4B	
Methylene Chloride	50 G		R	985.5 B	 R	53.9 BX	R	R	52.4 BX	
Acetone		R	R	2500.0 B	R	R	R	R	R	
Carbon Disulfide	50 G				*** *** ***					
1,1-Dichloroethene	0.07 G			5059.7					-	
Chloroform	100									
2-Butanone					~ ~ ~					
Trichloroethene	10			5019.0						
Benzene	ND(e)			5250.8				** ***	1.7 J	
2-Hexanone	50 G								6.0 J	
Toluene	50 G			5206.5						
Chlorobenzene	20 G			5273.7						
Phenol	1(£)			17.0	@					
2-Chlorophenol	1(f)			30.4	@					
4-Chloro-3-Methylphenol	1(f)			14.4	@					
Di-n-Butylphthalate	770		7.7 J	1.9 J	@		2.4 J	4.0 J	15.4	
bis(2-Ethylhexyl)Phthalate	4200	7.3 J	25.9	107.9	@	163.9	89.5			
Di-n-Octyl Phthalate	50 ′				@		30.7			
Benzo(a)Pyrene	ND(e)	R			@		R			

#### FOOTNOTES

- (a) Only HSL organic compounds that were detected are presented.
- (b) From: "Ambient Water Quality Standards and Guidance Values" for Class GA groundwater drinking supply waters, 6 NYCRR Part 703, NYSDEC, 9/1/78, as amended through 4/1/87. The value presented is the stard except where noted by "G", in which case it is the guidance value. All units are ug/L.
- (c) Upgradient location.
- (d) This sample was collected on 6/1/88 and analyzed for volatile organic compounds only.
- (e) ND = not detectable; i.e., the standard is the lower limit of dectectability as defined by the NYSDEC.
- (f) The standard of 1 ug/L applies to the sum of the phenol values.

#### DATA QUALIFIERS:

- B: This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- J: Indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero.
- @: Not analyzed.
- ---: Indicates compound was analyzed for but not detected. Refer to Appendix D for detection limit.
- X: Data validation recommends this value be considered an estimate.
- R: Data validation recommends this value be rejected.

# TABLE IV-7 LANCASTER RECLAMATION GROUNDWATER RESULTS HSL INORGANICS (ug/L) SAMPLES COLLECTED OCTOBER 1987

			Shallow Wells		Deep Wells					
ANALYTE (a)	NYS Standard/ Guidance Values(b)		GW-3A	GW-5A	GW-1B(c)	GW-2B	GW-3B	GW-4B		
Aluminum		41000.0	21420.0	13660.0	1150.0	930.0	7610.0	4960.0		
Antimony	3 G			113.0						
Arsenic	25	10.6	19.2	[9.4]				19.3		
Barium	1000	415.0	257.0	[159.0]	[120.0]	[80.0]	[214.0]	327.0		
Cadmium	10	5.0		~~~						
Calcium		359200.0	325800.0	200600.0	65900.0	42100.0	117800.0	56300.0		
Chromium		189.0	64.0	73.0	18.0			18.0		
Cobalt		39.0	67.0	[43.0]						
Copper	1000	121.0	211.0	122.0						
Iron	300	101900.0	101300.0	54300.0	2435.0	1853.0	15861.0	9738.0		
Lead	25	362.0	195.0	61.6	[3.6]	[4.4]	[39.2]	19.3		
Magnesium	35000 G	154500.0	137500.0	96800.0	13900.0	7400.0	53800.0	21400.0		
Manganese	300	3671.0	2933.0	1915.0				233.0		
Nickel	13.4 Z	104.0	76.0	52.0				[31.0		
Potassium		11100.0	9300.0	8200.0	8300.0	35100.0	4500.0	12700.0		
Silver			12.0							
Sodium		35100.0	11300.0	27000.0	56600.0	85700.0	16600.0	45400.		
Vanadium		108.0	[48.0]					25.		
Zinc	5000	474.0	1526.0	684.0	39.0	33.0	163.0	47.		
TOX (d)		32		6			34			

#### FOOTNOTES:

- (a) Only HSL analytes that were detected are presented. If the result is a value greater than or equal to the instrument detection limit but less than the contract-required detection limit, the value is reported in brackets (i.e., [10]).
- (b) From: "Ambient Water Quality Standards and Guidance Values" for class GA groundwater drinking supply waters, 6NYCRR Part 703, NYSDEC, 9/1/78, amended 4/1/87. The value presented is the standard except where noted by "G", in which case it is the guidance value. For nickel (flagged "Z") the value presented is the ambient water quality criterion for human health, from: "Quality Criteria for Water 1986", USEPA, 5/1/87. All units are ug/L.
- (c) Upgradient well location
- (d) TOX = Total Organic Halogens

#### DATA QUALIFIERS:

--- - Indicates analyte was analyzed for, but not detected. Refer to Appendix D for detection limit.

#### TABLE IV-8

#### LANCASTER RECLAMATION

#### SURFACE WATER RESULTS

#### HSL ORGANIC COMPOUNDS (ug/L) SAMPLES COLLECTED SEPTEMBER 1987

	NYS Standard/	Sample Location					
COMPOUNDS (a)	Guidance Value (b)	SW-1	SW-2	SW-3		SW-4	
Methylene Chloride	50 G	R	R	R		R	
Acetone		R	R	R		R	
Di-n-Butylphthalate	770		16.2	8.4	J	11.0	
ois(2-Ethylhexyl)Phthalate	4200			47.6	BX 25	90.0 B	
Di-n-Octyl Phthalate	50			6.0	J		
Benzo(a)Pyrene	ND (c)	R	R	R		R	

\_\_\_\_\_

#### FOOTNOTES:

- (a) Only HSL organic compounds that were detected are presented.
- (b) From: "Ambient Water Quality Standards and Guidance Values" for Class A drinking supply waters, 6NYCRR Parts 701 and 702, NYSDEC, 7/24/85, as amended through 4/1/87. The value presented is the standard except where noted by "G", in which case it is the guidance value. All units are ug/L.
- (c) ND = not detectable; i.e., the standard is the lower limit of detectability as defined by the NYSDEC.

#### DATA QUALIFIERS:

- J Indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).
- --- Indicates compound was analyzed for but not detected. Refer to Appendix D for detection limit.
- ${\tt X}$  Data validation recommends this value be considered an estimate.
- R Data validation recommends this value be rejected.

TABLE IV-9
LANCASTER RECLAMATION
SURFACE WATER RESULTS
HSL INORGANICS (ug/l)
SAMPLES COLLECTED SEPTEMBER 1987

	NYS Standard/		Sample Loc	ation			
Analyte (a)	Guidance Value(b)	SW-1	SW-2	SW-3	SW-4		
			760	1404			
Aluminum	100	[186]	762	62			
Antimony	3 G		86				
Barium	1000		[30]	[55]			
Beryllium	3 G		[1]				
Cadmium	10		12				
Calcium		27870	43650	35802	26163		
Chromium	50		26	13			
Copper	200		35	[11]			
Cyanide	100		14.9				
Iron	300	345	801	1923	151		
Magesium	35000	18231	7503	27404	6638		
Manganese	300	16	29	51	49		
Manganese Nickel	300		[28]	[23]			
Potassium		[842]	[2062]	[4025]	[2173]		
	50	15	40	33	14		
Silver	30	9739	[1446]	18018	13315		
Sodium		9739	[13]	[5]			
Vanadium	14		58	86	55		
Zinc	300	26	30	00	33		
TOX (c)		1.3	16	9.1	14		

#### FOOTNOTES:

- (a) Only HSL analytes that were detected are presented. If the result is a value greater than or equal to the instrument detection limit but less than the contract-required detection limit, the value is reported in brackets (i.e. [10]).
- (b) From "Ambient Water Quality Standards and Guidance Values" for Class A surface drinking waters, 6NYCRR Part 701 and 702, NYSDEC, 7/24/85, amended 4/1/87. The value presented is the standard, except where noted by "G" in which case it is the guidance value. All units are ug/L.
- (c) TOX = Total Organic Halogens
- --- Indicates analyte was analyzed for but not detected. Refer to Appendix D for the detection limit.

#### TABLE · IV-10

#### LANCASTER RECLAMATION

#### SEDIMENT RESULTS

#### HSL ORGANIC COMPOUNDS (ug/Kg) SAMPLES COLLECTED SEPTEMBER 1987

			Sample	e Lo	cation	ı		
COMPOUND(a)	SED-1		SED-2	:	SED-3		SED-4	
Methylene Chloride	10.0		2.3	J	1.6	J	R	
Acetone	460.0	в *	R		R		R	
Carbon Disulfide	34.0						9.6	
1,1-Dichloroethene					4.0	J		
2-Butanone					37.0			
Benzene	11.0	J	1.6	J	42.0			
Toluene					89.0			
Chlorobenzene					51.0			
Phenol	770.0							
2-Chlorophenol	760.0							
4-Chloro-3-Methylphenol	460.0							
Pyrene	330.0							
bis(2-Ethylhexyl)Phthalate							250.0	J
Benzo(a)Pyrene							R	
Trichloroethane					35.0			
Aroclor 1254 (b)					59.0	J		

\_\_\_\_\_\_

#### FOOTNOTES:

- (a) Only HSL organic compounds that were detected are presented.
- (b) Samples for pesticide/PCB analysis were collected on 10/13/88.

#### DATA QUALIFIERS:

- J Indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J)
- --- Indicates compound was analyzed for but not detected. Refer to Appendix D for detection limit.
- X Data validation recommends this value be considered an estimate.
- R Data validation recommends this value be rejected.

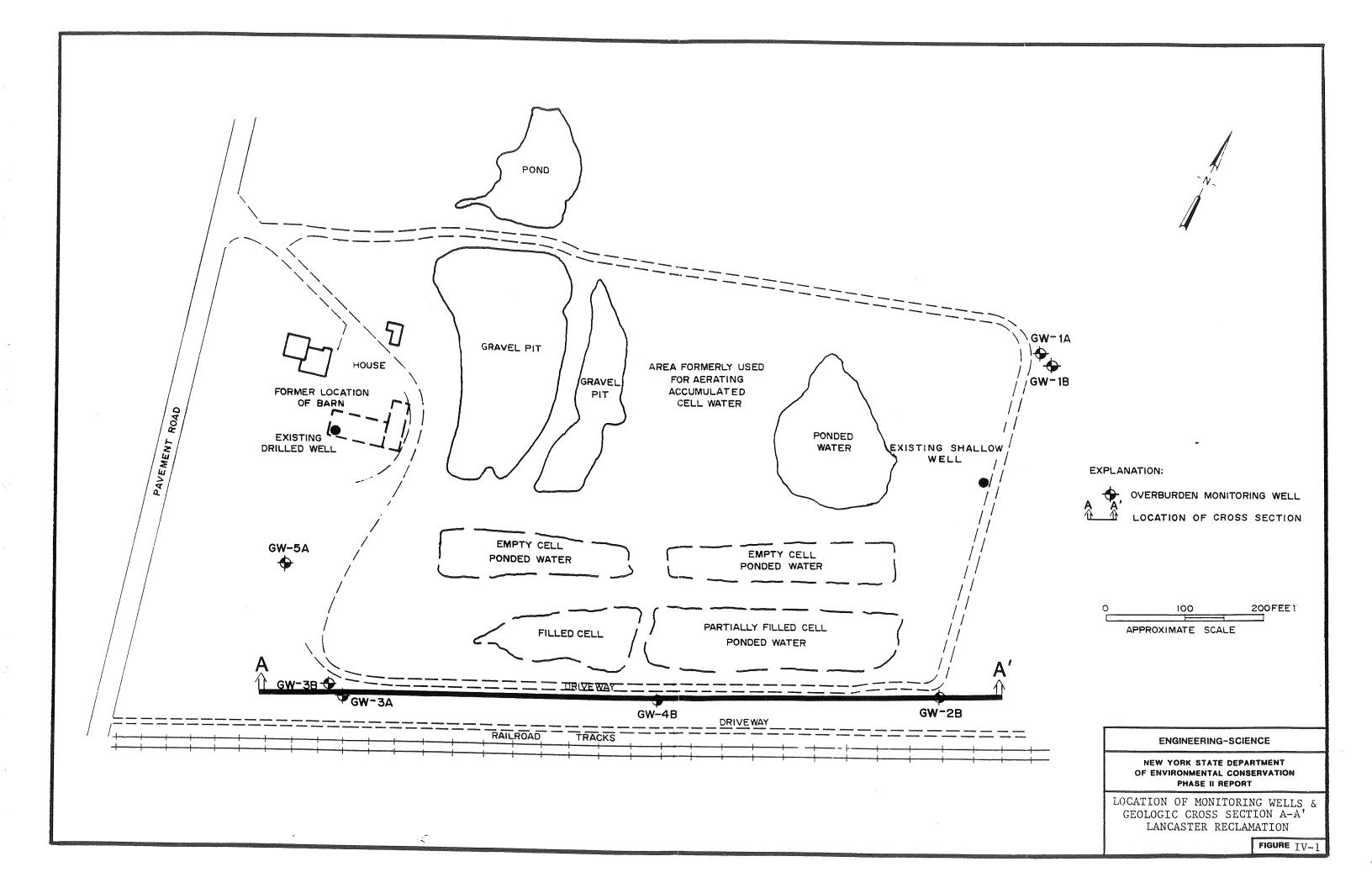
# TABLE IV-11 LANCASTER RECLAMATION SEDIMENT RESULTS HSL METALS (mg/Kg)

#### SAMPLES COLLECTED SEPTEMBER 1987

	NATURALLY OCCURRING RANGES IN NYS		Sample Location					
METAL(a)	SOILS (ppm) (b)	SHD-1	SED-2	SED-3	SED-4			
Aluminum		2917•9	5028•1	7782•1	7346•9			
Antimony	<1-10	91.6	74.7	92.4	37.7			
Arsenic	0.1-100	14.7	7.6	15.3				
Barium	10-500	[22.7]	55.6	60.3	[52.6]			
Beryllium	<1-15	[0.3]	[0.3]	[0.5]	[0.3]			
Cadmium	0.01-7 (c)	2.7	9.4	4.2	4.6			
Calcium		62179.7	67846.1	69306.6	63542.0			
Chromium	1-2000	21.6	18.3	25.0	22.3			
Cobalt	<3-70	13.5	15.8	17.9	14.3			
Copper	1-700	13.0	14.4	20.0	13.1			
Iron		6979.2	9634.4	16075.0	14417.7			
Lead	<10-700	50.0	82.8	52.1	14.2			
Magnesium		23573.0	34162.8	23548.2	52252.9			
Manganese	<2-7000	278.6	282.2	462.4	1139.3			
Nickel	<5-700	20.8	16.9	33.2	20.6			
Potassium	,	[448.4]	[1008.1]	[1265.8]	1814.6			
Silver		32.2	46.9	33.4	42.6			
Sodium			[640.3]		280.3			
Vanadium	20-500	[13.2]	14.7	22.6	14.9			
Zinc	<5-3500	41.9	183.3	69.5	92.0			

#### FOOTNOTES:

- (a) Only HSL metals detected are reported. If the result is a value greater than or equal to the instrument detection limit but less than the contract-required detection limit, the value is reported in brackets (i.e.[10]).
- (b) USGS Professional Paper 1270 (1984) New York State soils
- (c) Booz, Allen & Hamilton, Inc. (1983) U.S. Soils
- --- Indicates element was analyzed for but not detected. Refer to Appendix D for detection limit.



## WESTERN HALF OF SITE (GW-3A, 3B, 5A)

UNIT

**THICKNESS** 

(FEET)

FILL

0.5 - 5.5

SAND AND GRAVEL

GLACIAL OUTWASH 49 SILTY-SAND, FINE TO MEDIUM SAND (SM)

ICE CONTACT DRIFT 5.5
SILTY-SAND AND GRAVEL
(SM-SP)

GLACIAL TILL 6.5
DENSE SAND, SILT AND
GRAVEL (SM)

ONONDAGA LIMESTONE

## EASTERN HALF OF SITE

(GW-1A, 1B, 2B, 4B)

UNIT

**THICKNESS** 

(FEET)

FILL

1.6-8.0

SAND AND GRAVEL

GLACIAL OUTWASH

0-8.6

SILTY-SAND, FINE TO MEDIUM SAND (SM-SP)

LACUSTRINE SEDIMENTS

30.1-33

SILTY-CLAY, CLAYEY-SILT

(CL-ML)

ICE CONTACT DRIFT

14-34

SILTY-SAND AND GRAVEL

(SM-SP)

GLACIAL TILL

4.0-9.1

DENSE SAND, SILT AND

GRAVEL (SM)

ONONDAGA LIMESTONE

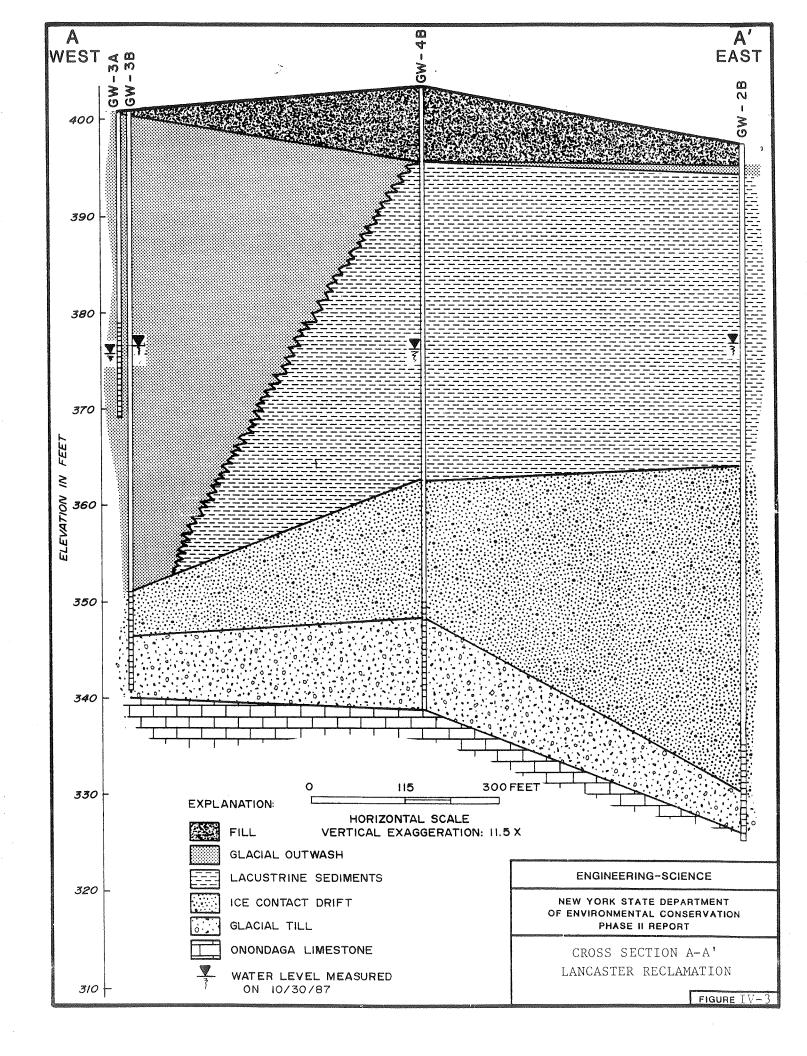
**ENGINEERING-SCIENCE** 

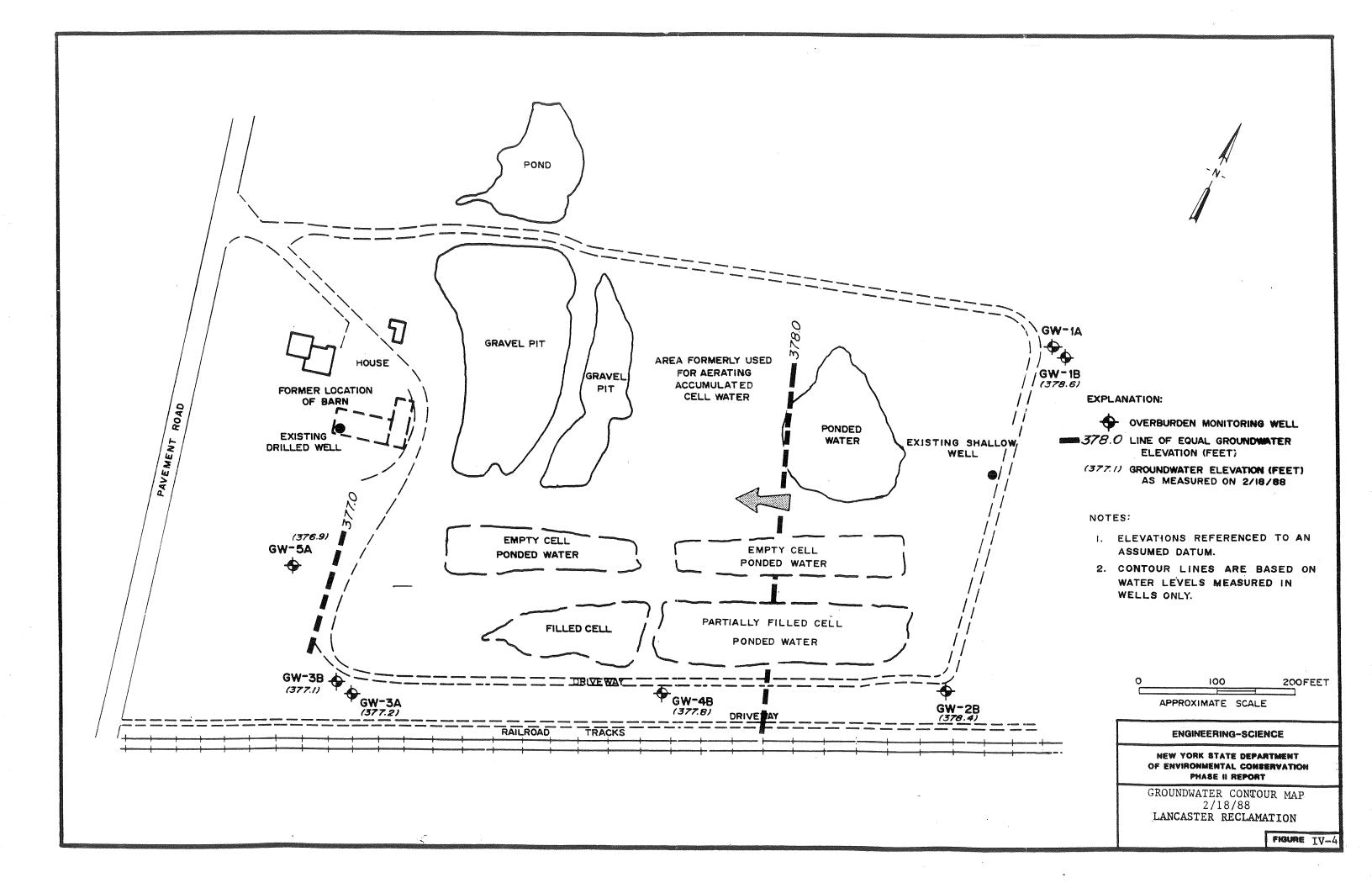
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

PHASE II REPORT

GENERALIZED STRATIGRAPHIC COLUMN LANCASTER RECLAMATION

FIGURE IV-





#### **SECTION V**

## FINAL APPLICATION OF HAZARD RANKING SYSTEM

#### **NARRATIVE SUMMARY**

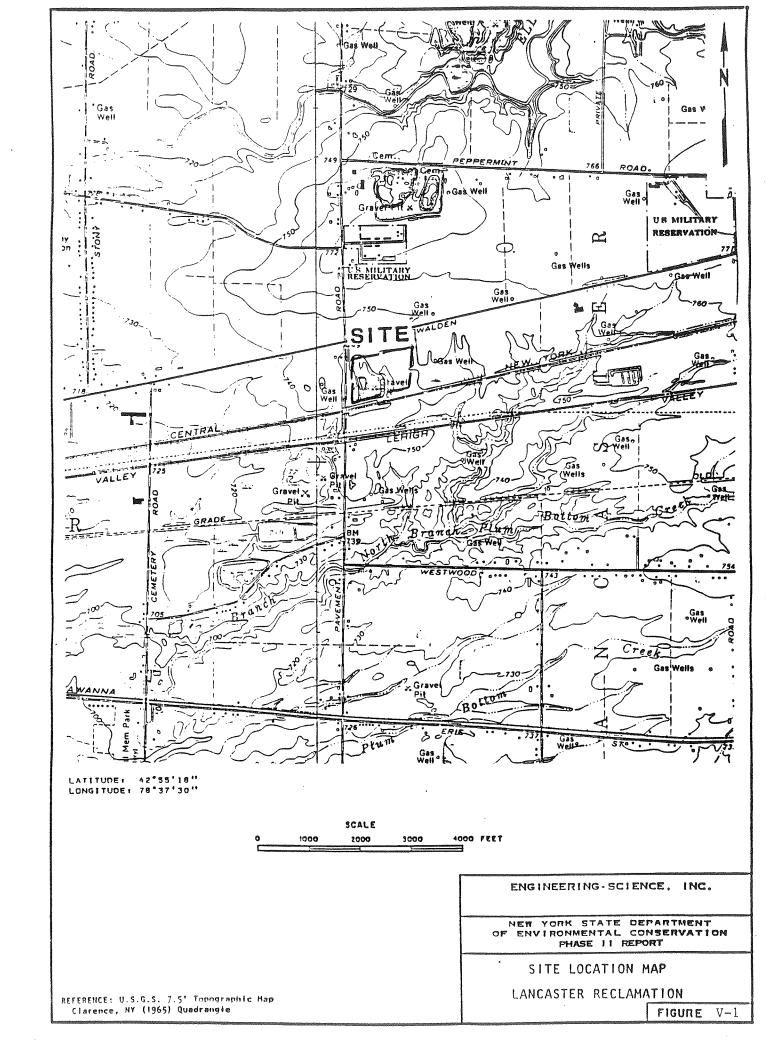
The Lancaster Reclamation Company is located on a 12.9-acre parcel in the Town of Lancaster, Erie County, New York. The owners of the Lancaster Reclamation Company purchased the former gravel pit in 1976 and began disposal operations under plans approved by the NYSDEC. Wastes disposed at the site included bentonite clay slurry, foundry sand slurry and a cement slurry containing asbestos. Disposal of these wastes were approved by NYSDEC.

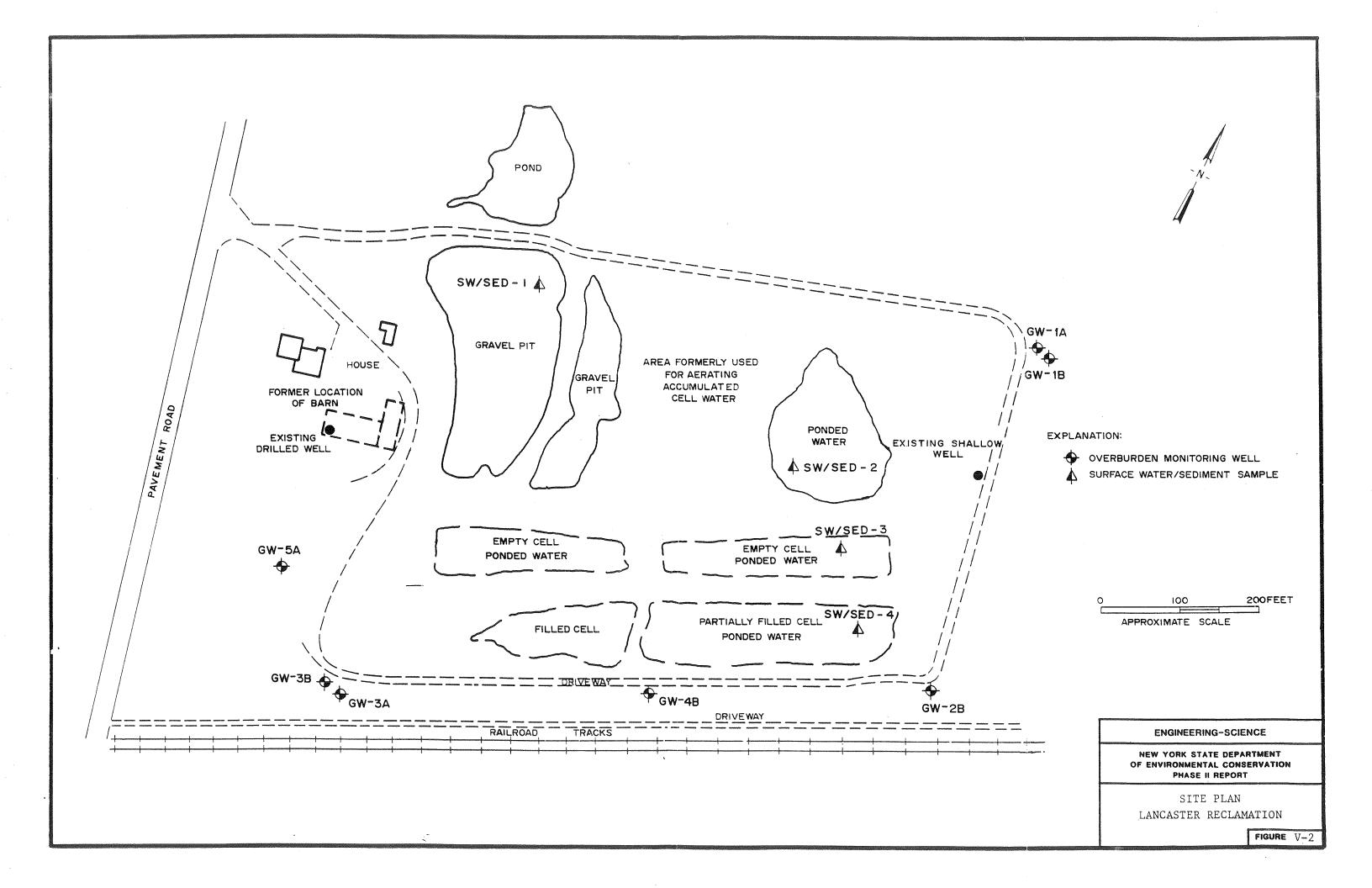
In 1979, an initial operating permit was issued for the site by NYSDEC. Subsequent to this, the Lancaster Reclamation Company received permission from NYSDEC to dispose on-site, shot blast dust, wallpaper production waste and oily sludges. Wastes were generally dewatered prior to being landfilled in below-grade cells constructed on-site. Waste disposal ended in approximately late 1983.

Sampling conducted during the Phase II investigation indicated downgradient well concentrations in excess of three times the upgradient concentrations for three organic compounds and eight metals found on the Hazardous Substance List (HSL). Those results indicate the source of the groundwater contamination is located on-site.

In the vicinity of the site, most residents are served by a municipal water system which has Lake Erie as its source. Lake Erie is more than three miles downstream of the site. Approximately 100 residents within 3 miles of the site are apparently utilizing groundwater as a drinking water source. For the most part, these residents live in the few areas not serviced by the public water supply. The nearest drinking water well is located about two miles from the site.

Surface water on-site consists of ponded water in the full and partially full cells. The surface water on-site is not directly connected to any off-site surface water body. No cleanup actions have been recommended or undertaken at the site and no enforcement actions have occurred. The site is presently inactive.





Facility Name: Lancaster Reclamation Date: 1/5/88 Ground Water Route Work Sheet Assigned Value Ref. Multi-Max. Rating Factor Score. (Circle One) Score (Section) plier 1] (45) Observed Release 45 3.1 45 If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2. Route Characteristics 3.2 0 1 2 (3) 6 6 Depth to Aquifer of Concern 2 3 Net Precipitation Permeability of the 3 Unsaturated Zone 3 3 0 1 2 (3) Physical State Total Route Characteristics Score 15 11 3 Containment 0 1 2 (3) 3.3 3 3 4 3.4 Waste Characteristics 0 3 6 9 12 15 0 1 2 3 4 5 6 18 18 Toxicity/Persistence 8 8 Hazardous Waste Quantity 26 Total Waste Characteristics Score 26 5 Targets

0 4

Total Targets Score

If line |1| is 0, multiply  $|2| \times |3| \times |4| \times |5|$ 

6 If line 1 is 45, multiply  $1 \times 4 \times 5$ 

7 Divide line 6 by 57,330 and multiply by 100

12 16 18 20

24 30 32 35

Ground Water Use

Well/Population

Served

Distance to Nearest

## GROUND WATER ROUTE WORK SHEET

10

40

3.5

6

14

16,380

 $S_{gw} = 28.57$ 

40

49

57,330

Facility Name: Lancaster Reclamation \_\_\_\_ **Date:** 1/5/88 Surface Water Route Work Sheet Assigned Value Multi-Max. Ref. Rating Factor Score (Circle One) plier Score (Section) 1 Observed Release 45 45 4.1 If observed release is given a value of 45, proceed to line [4]. If observed release is given a value of 0, proceed to line 2. 2 Route Characteristics 4.2 Facility Slope and 3 Intervening Terrain 1-yr. 24-hr. Rainfall Distance to Nearest Surface Water Physical State 2 (3) 3 Total Route Characteristics Score 5 15 3 Containment (0) 1 2 3 1 3 4.3 4 Waste Characteristics 4.4 Toxicity/Persistence (0) 3 6 9 12 15 18 18 Hazardous Waste (0)12345678 1 8 Quantity Total Waste Characteristics Score 26 5 Targets 4.5 Surface Water Use Distance to a Sensitive 0 (1) Environment Population Served/ (0) 4 6 8 10 40 Distance to Water 12 16 18 20 Intake Downstream 24 30 32 35 40 Total Targets Score 55 8 6 If line 1 is 45, multiply  $1 \times 4 \times 5$ If line 1 is 0, multiply  $2 \times 3 \times 4 \times 5$ 64,350 7 Divide line 6 by 64,350 and multiply by 100

## SURFACE WATER ROUTE WORK SHEET

Facility Name: Lancaster Reclamation Date: 1/5/88 Air Route Work Sheet Max. Ref. Assigned Value Multi-Score Rating Factor (Section) Score (Circle One) plier 1 Observed Release (0) 45 5.1 45 1 Date and Location: Sampling Protocol: If line 1 is 0, the  $S_a = 0$ . Enter on line 5. If line | 1 | is 45, then proceed to line | 2 | . 2 Waste Characteristics 5.2 3 Reactivity and Incompatibility (i) 1 2 3 (ii) 1 2 3 4 5 6 7 8 Toxicity 8 Hazardous Waste 20 Total Waste Characteristics Score 0 3 Targets 5.3 Population Within 4-Mile Radius 30 0 9 12 (15) 15 21 24 27 6 Distance to Sensitive Environment 0 1 2 (3) 3 Land Use 3 39 Total Targets Score 20 4 Multiply  $1 \times 2 \times 3$ 35,100 5 Divide line 4 by 35,100 and multiply by 100

## AIR ROUTE WORK SHEET

 $S_a = 0$ 

Date: 1/5/88 Facility Name: Lancaster Reclamation Fire and Explosion Work Sheet Ref. Max. Assigned Value Multi-Score Rating Factor (Section) Score (Circle One) plier 1 (1)3 7.1 3 1 Containment 1 2 7.2 Waste Characteristics 0 Direct Evidence 0 3 Ignitability 3 Reactivity 0 3 Incompatibility Hazardous Waste Quantity 20 Total Waste Characteristics Score 3 Targets 7.3 5 Distance to Nearest Population 3 Distance to Nearest Building 3 Distance to Sensitive 2 3 Environment Land Use Population Within 2-Mile Radius 0 1 2 3 4 5 5 Buildings Within 2-Mile Radius 24 15 Total Targets Score 4 Multiply  $1 \times 2 \times 3$ 1,440

# FIRE AND EXPLOSION WORK SHEET

5 Divide line 4 by 1,440 and multiply by 100

Direct Contact Work Sheet							
Rating Factor		ned Value cle One)	Multi- plier	Score	Max. Score	Ref. (Section)	
1 Observed Incident	0	45	1	0	45	. 8.1	
If line 1 is 45, pro							
2 Accessibility	0 1	2 ③	1	3	3	8.2	
3 Containment	0 (1	5)	1	15		8.3	
Waste Characteristics Toxicity	0 1	2 (3)	5	15	15	8.4	
5 Targets	aa aan aan aan ah aa					8.5	
Population Within 1-Mile Radius	0 1	2 3 4	5 4	8	20		
Distance to a Critical Habitat	0 1	2 3	4	0	12		
· ·							
Total T	argets Sc	ore		8	32		
6 If line 1 is 45, mu If line 1 is 0, mul			5 4 × 5	5,400	21,600		
7 Divide line 6 by 21	,600 and	multiply b	y 100	S <sub>DC</sub> =	= 25.0	0	

Facility Name: Lancaster Reclamation

# DIRECT CONTACT WORK SHEET

25.00

## Worksheet for Computing $S_{M}$

	S	s <sup>2</sup>
Groundwater Route Score (S <sub>gw</sub> )	28.57	816.24
Surface Water Route Score (S <sub>sw</sub> )	0	0
Air Route Score (S <sub>a</sub> )	0	0
$s_{gw}^2 + s_{sw}^2 + s_a^2$		816.24
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		28.57
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 = s_M =$		16.51

# WORK SHEET FOR COMPUTING SM

DOCUMENTATION RECORDS
FOR
HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

**FACILITY NAME:** Lancaster Reclamation

LOCATION: Pavement Road, Town of Lancaster, Erie County, New York

#### **GROUND WATER ROUTE**

#### 1. OBSERVED RELEASE

Assigned Value = 45

Contaminants detected (5 maximum):

Lead was detected at 3.6 ug/l in GW-1B, and at 39.2 ug/l in GW-3B (Nanco Labs, Inc., 1987).

Rationale for attributing the contaminants to the facility:

The downgradient concentration of lead in GW-3B exceeded the upgradient concentration in GW-1B by more than three times.

\*\*\*

#### 2. ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Assigned Value = 3

Name/description of aquifer(s) of concern:

Overburden aquifer (ES Boring Logs, 1987, Frey, 1988).

Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

18.9 feet in GW-2B on 2/18/88 (ES, 1988).

Depth from the ground surface to the lowest point of waste disposal/storage:

Approximately 13 feet (Buffalo Drilling Company, 1984).

**Net Precipitation** 

Assigned Value = 2

Mean annual or seasonal precipitation (list months for seasonal):

Mean annual precipitation is 36 inches (USDOC, 1979).

Mean annual lake or seasonal evaporation (list months for seasonal):

Mean annual lake evaporation is 27 inches (USDOC, 1979).

Net precipitation (subtract the above figures):

36 inches - 27 inches = net precipitation of 9 inches.

Permeability of Unsaturated Zone

Assigned Value = 0

Soil type in unsaturated zone:

The site was originally a gravel pit. The disposal cells are constructed in a zone of silty-clays (Buffalo Drilling Company, 1984).

Permeability associated with soil type:

2.21 x 10<sup>-8</sup> cm/s - Sample 12-14 Feet - GW-1A

1.97 x 10<sup>-8</sup> cm/s - Sample 17-19 Feet - GW-2B

(R&R International, Inc., 1987).

**Physical State** 

Assigned Value = 3

Physical state of substances at time of disposal (or at present time for generated gases):

Industrial waste slurries and sands. Score = 3: Liquid, Sludge (NYSDEC, 1987; Wendel Engineers, 1979).

\*\*\*

3. CONTAINMENT

Containment

Assigned Value = 3

Method(s) of waste or leachate containment evaluated:

Landfill (NYSDEC, 1983; Wendel Engineers, 1979).

#### Method with highest score:

A score of 3 is assigned since there is no liner, no run-on control, and the landfill surface encourages ponding (Wendel Engineers, 1984).

\*\*\*

#### 4. WASTE CHARACTERISTICS

**Toxicity and Persistence** 

Assigned Value = 18

## Compound(s) evaluated:

Lead in well GW-3B (Nanco Labs, Inc., 1987).

#### Compound with highest score:

Lead - Score = 18 (EPA, 1984).

#### **Hazardous Waste Quantity**

Assigned Value = 8

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

More than 2,500 cubic yards of solid material (after dewatering) containing various hazardous waste constituents (Including heavy metals) have been disposed on-site.

#### Basis of estimating and/or computing waste quantity:

Lancaster Reclamation, Inc. records (J. Ferry, 1985) and NYSDEC Applications for Treatment or Disposal of an Industrial or Hazardous Waste Stream (NYSDEC, 1978 through 1981).

\*\*\*

## 5. TARGETS

**Ground Water Use** 

Assigned Value = 2

## Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

\_\*.

A small segment of the population uses ground water as a drinking water supply. To the best of our knowledge, groundwater is not used for purposes of irrigation (Armitage, 1988; Campbell, 1988; Keysa, 1988; Koczaja, 1988).

#### **Distance to Nearest Well**

Assigned Value (matrix) = 8

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

Westwood Road, Town of Alden (USGS, 1965 and Frey, 1988).

#### Distance to above well or building:

The nearest well is about 2.25 miles (USGS, 1965 and Frey, 1988).

## Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

27 homes; 3.8 people/home based on house count (Armitage, 1988; Campbell, 1988; Keysa, 1988; USGS, 1965).

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

To the best of our knowledge, groundwater is not used for purposes of irrigation within 3 miles of the site (Koczaja, 1988).

#### Total population served by ground water within a 3-mile radius:

103 people (= 27 wells x 3.8 people/well) (Armitage, 1988; Campbell, 1988; Keysa, 1988; USGS, 1965).

#### **SURFACE WATER ROUTE**

#### 1. OBSERVED RELEASE

Assigned Value = 0

## Contaminants detected in surface water at the facility or downhill from it (5 maximum):

No surface water samples other than those taken from the disposal cells on-site were collected. No upgradient comparisons are available.

#### Rationale for attributing the contaminants to the facility:

The site cannot be scored for observed release since the surface water on-site does not connect to an off-site body of water (ES Field Investigations, 1987; USGS, 1965).

\*\*\*

#### 2. ROUTE CHARACTERISTICS

#### **Facility Slope and Intervening Terrain**

Assigned Value = 0

#### Average slope of facility in percent:

The average slope of the facility is less than 1% (USGS, 1965).

## Name/description of nearest downslope surface water:

North Branch Plum Bottom Creek (USGS, 1965).

#### Average slope of terrain between facility and above-cited surface water body in percent:

The average slope of terrain between the facility and North Branch Plum Bottom Creek is 1% (USGS, 1965).

#### Is the facility located either totally or partially in surface water?

No (USGS, 1965).

NOTE: Water is ponded in two of the on-site disposal cells, but is confined to the site.

Is the facility completely surrounded by areas of higher elevation?

No (USGS, 1965).

#### 1-Year 24-Hour Rainfall in Inches

Assigned Value = 2

2 to 2.5 inches (US Department of Commerce Technical Paper No. 40).

#### **Distance to Nearest Downslope Surface Water**

Assigned Value = 0

There are no apparent courses whereby runoff can be expected to reach surface water (USGS, 1965; ES Site Inspection, 1985).

#### **Physical State of Waste**

Assigned Value = 3

Sludge, Liquid (NYSDEC, 1987).

\*\*\*

#### 3. CONTAINMENT

Containment

Assigned Value = 0

#### Method(s) of waste or leachate containment evaluated:

Unlined landfill with no run-on control and surface encourages ponding (Wendel Engineers, 1984).

#### Method with highest score:

Table 9 of the HRS User's Manual (EPS, 1984) states that a containment score of zero is assigned when intervening terrain precludes runoff from entering surface water. A containment score of zero is assigned in this case since wastes are contained in on-site cells which are below ground (Wendel Engineers, 1984; ES Site Inspection, 1985).

\*\*\*

#### 4. WASTE CHARACTERISTICS

**Toxicity and Persistence** 

Assigned Value = 0

Compound(s) evaluated

The score for toxicity and persistence is zero since wastes cannot migrate from the site via the surface water pathway (EPS, 1984).

### Compound with highest score:

Not applicable; the containment score is zero.

### **Hazardous Waste Quantity**

Assigned Value = 0

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

The hazardous waste quantity is zero since the containment score is zero (see above).

## Basis of estimating and/or computing waste quantity:

Not applicable; the hazardous waste quantity is zero.

\*\*\*

#### 5. TARGETS

#### **Surface Water Use**

Assigned Value = 2

The North Branch of Plum Bottom Creek is a Class D stream with limited recreational use (6 NYCRR Volume E Article 1, Part 837, Map 7).

Use(s) of surface water within 3 miles downstream of the hazardous substance:

Is there tidal influence?

No (USGS, 1965).

#### Distance to a Sensitive Environment

Assigned Value = 1

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

The site is not near the coast (USGS, 1965).

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

There is a wetland 4,400 feet northwest of the site (Farquhar, 1987).

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

There are no federally designated critical habitats of endangered species within the State of New York (Ozard, 1988).

#### **Population Served by Surface Water**

Assigned Value (matrix) = 0

There are no water supply intakes within 3 miles of the site (NYSDOH, 1982).

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

Not applicable: there are no surface water intakes within the specified distance (NYSDOH, 1982).

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

Not applicable: there are no surface water intakes within three miles of the site (NYSDOH, 1982).

#### Total population served:

Not applicable: there are no surface water intakes within three miles of the site (NYSDOH, 1982).

#### Name/description of nearest of above water bodies:

Not applicable: there are no surface water intakes within three miles of the site (NYSDOH, 1982).

#### Distance to above-cited intakes, measured in stream miles:

Not applicable: there are no surface water intakes within three miles of the site (NYSDOH, 1982).

#### **AIR ROUTE**

### 1. OBSERVED RELEASE

Assigned Value = 0

#### Contaminants detected:

Readings above background were not detected during routine on-site monitoring for volatile organic vapors (ES Boring Logs, 1987).

#### Date and location of detection of contaminants:

Not applicable. No contaminants were detected.

#### Methods used to detect the contaminants:

Photovac-TIP.

#### Rationale for attributing the contaminants to the site:

No hazardous waste with the potential to impact the air pathway is known to exist on-site (NYSDEC, 1987; Ferry, 1985).

\*\*\*

#### 2. WASTE CHARACTERISTICS

#### Reactivity and Incompatibility

Assigned Value = 0

#### Most reactive compound:

No reactive compounds with the potential to impact the air pathway are known to exist on-site (NYSDEC, 1987; Ferry, 1985).

#### Most incompatible pair of compounds:

No incompatible pairs of compounds with the potential to impact the air pathway are known to exist on-site (NYSDEC, 1987; Ferry, 1985).

**Toxicity** 

Assigned Value = 0

#### Most toxic compound:

No hazardous waste with the potential to impact the air pathway is known to exist on-site (NYSDEC, 1987; ES Field Investigations, 1987).

## **Hazardous Waste Quantity**

Assigned Value = 0

#### Total quantity of hazardous waste:

The score is zero because no hazardous wastes with the potential to impact the air pathway are known to exist on-site (NYSDEC, 1987; ES Field Investigations, 1987).

### Basis of estimating and/or computing waste quantity:

Not applicable; see comment above.

\*\*\*

#### 3. TARGETS

## Population Within 4-Mile Radius

Assigned Value = 15

Circle radius used, give population, and indicate how determined:

946 people within 1 mile (US Census Tract Data, 1980).

#### Distance to a Sensitive Environment

Assigned Value = 1

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

The site is not near the coast (USGS, 1965).

## Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

There is a wetland 4,400 feet northwest of the site (USGS, 1965; Farquhar, 1987).

### Distance to critical habitat of an endangered species, if 1 mile or less:

There are no federally designated critical habitats of endangered species within the State of New York (Ozard, 1988).

#### Land Use

Assigned Value = 3

#### Distance to commercial/industrial area, if 1 mile or less:

There is no commercial/industrial area within one mile of the site (USGS, 1965).

#### Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

There is no national or state park, forest, or wildlife reserve within two miles of the site (USGS, 1965).

#### Distance to residential area, if 2 miles or less:

There is a residence on-site. The nearest concentration of residences is along Westwood Road, about one mile south of the site (USGS, 1965; ES Field Investigations, 1987).

#### Distance to agricultural land in production within past 5 years, if 1 mile or less:

0.0 miles. Actively farmed agricultural land is located adjacent to the site (Bielli, 1988).

#### Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

0.0 miles. Actively farmed prime agricultural land is located adjacent to the site (Bielli, 1988).

# Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

There is no historic or landmark site within view of the site (USDOI, 1983; Federal Register, 1983).

#### FIRE AND EXPLOSION

#### 1. CONTAINMENT

Assigned Value = 1

### Hazardous substances present:

No information which indicates that fire and explosion related to hazardous materials at the site has occurred (or could occur) at the site was discovered during the Phase I and Phase II studies. A fire destroyed a barn on the property during the mid 1980's, however the barn was not associated with the waste disposal use of the site.

#### Type of containment, if applicable:

\*\*\*

#### 2. WASTE CHARACTERISTICS

#### **Direct Evidence**

Assigned Value = 0

## Type of instrument and measurements:

No measurements of the potential for fire and explosion were taken on-site.

#### Ignitability

Assigned Value = 0

#### Compound used:

No ignitable compounds are known to be present on-site (ES Field Investigations, 1987; Ferry, 1985).

#### Reactivity

Assigned Value = 0

#### Most reactive compound:

No reactive compounds are known to be present on-site (ES Field Investigations, 1987; Ferry, 1985).

## Incompatibility

Assigned Value = 0

## Most incompatible pair of compounds:

No incompatible compounds are known to exist on-site (ES Field Investigations, 1987; Ferry, 1985).

## **Hazardous Waste Quantity**

Assigned Value = 0

### Total quantity of hazardous substances at the facility:

Ignitable and/or reactive waste is not known to be present on-site (ES Field Investigations, 1987; Ferry, 1985).

## Basis of estimating and/or computing waste quantity:

Not applicable; see comment above.

\*\*\*

#### 3. TARGETS

## **Distance to Nearest Population**

Assigned Value = 3

There is a residence on-site which is approximately 374 feet from the disposal cells (ES Site Inspection, 1985).

#### **Distance to Nearest Building**

Assigned Value = 1

There is a residence on-site which is approximately 374 feet from the surface impoundments (ES Site Inspection, 1985).

#### **Distance to Sensitive Environment**

Assigned Value = 0

## Distance to wetlands:

There is a wetland 4,400 feet northwest of the site (USGS, 1965; Farquhar, 1987).

#### Distance to critical habitat:

There are no federally designated critical habitats of endangered species within the State of New York (Ozard, 1988).

Land Use

Assigned Value = 3

Distance to commercial/industrial area, if 1 mile or less:

There is no commercial/industrial area within one mile of the site (USGS, 1965).

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

There is no national or state park, forest, or wildlife reserve within 2 miles of the site (USGS, 1965; ES Field Investigations, 1987).

Distance to residential area, if 2 miles or less:

There is a residence on-site which is approximately 374 feet from the disposal cells (ES Site Inspection, 1985).

Distance to agricultural land in production within past 5 years, if 1 mile or less:

0.0 miles; actively farmed agricultural land is adjacent to the site (Bielli, 1988).

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

0.0 miles; actively farmed prime agricultural land is adjacent to the site (Bielli, 1988).

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

There is no historic or landmark site within view of the site (USDOI, 1983; Federal Register, 1983).

Population Within 2-Mile Radius

Assigned Value = 4

3,586 people (US Census Tract Data, 1980).

## **Buildings Within 2-Mile Radius**

Assigned Value = 4

944 buildings were identified within a 2-mile radius of the site by counting buildings located on topographic maps (USGS, 1965).

#### **DIRECT CONTACT**

#### 1. OBSERVED INCIDENT

Assigned Value = 0

### Date, location, and pertinent details of incident:

Based on information revealed during the Phase I Study, there is not a confirmed instance in which contact with hazardous substances at the site has caused injury, illness or death to humans or animals (Phase II Record Search, 1987-1988).

\*\*\*

#### 2. ACCESSIBILITY

Assigned Value = 3

### Describe type of barrier(s):

A score of 3 is assigned since barriers do not completely surround the facility (ES Site Visits, 1987).

\*\*\*

#### 3. CONTAINMENT

Assigned Value = 15

### Type of containment, if applicable:

The waste is contained in open, unlined disposal cells on-site. Waste is therefore accessible via direct contact (ES Site Inspection, 1985, and Field Investigations, 1987).

\*\*\*

#### 4. WASTE CHARACTERISTICS

Toxicity

Assigned Value = 3

### Compounds evaluated:

Samples from the sediments and waters at the site were analyzed for volatile and semivolatile organics, and metals (Nanco Labs, Inc., 1987).

### Compound with highest score:

Phenol has a score of 3 (EPA, 1984).

### 5. TARGETS

### Population within one-mile radius

Assigned Value = 2

946 people (US Census Tract Data, 1980).

### Distance to critical habitat (of endangered species)

Assigned Value = 0

There are no federally designated critical habitats of endangered species within the State of New York (Ozard, 1988).



# Site Inspection Report

LANCASTER RECLAMATION

**SEPA** 

# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 1 - SITE LOCATION AND INSPECTION INFORMATION

| I. IDENTIFICATION | O1 STATE | O2 SITE NUMBER | NY | D000513911

	PART 1 - SIT	E LOCATION AND	INSPE	CTION INFORM	TATION	
II. SITE NAME AND LOCA	TION -					
01 SITE NAME (Legal, common, or descriptive name of site)			02 STREE	T, ROUTE NO., OR S	PECIFIC LOCATION IDENTIFIER	
Lancaster Re	eclamation		403 Pavement Road			
O3 CITY	04 STATE 05 ZIP CODE 06 COUNTY			07COUNTY 08 C COOE D		
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I. IDENTIFICATION

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Interview with Paul Ferry at site inspection by ES on 10/28/85; EPA site inspection form (ES and Dames & Moore inspection conducted 3/21/85) from NYSDEC Phase I report

SEPA

# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

	PART 3 - DESCRIPTION	OF HAZARDOUS CONDITIONS AND INCIDENTS	
II. HAZARDOUS CONDI	TIONS AND INCIDENTS		
01 ☑ A. GROUNDWATE	R CONTAMINATION 103	02 GOBSERVED (DATE: 12/8/87 ) DOTENTIAL OA NARRATIVE DESCRIPTION	☐ ALLEGED
		were detected in downgradient wells at co	ncentrations
in excess	of three times the	upgradient concentrations.	
•	•	1. /	
01 🖾 B. SURFACE WATE	ER CONTAMINATION (TIALLY AFFECTED: 0	02 OBSERVED (DATE: 10/8/8/) OPOTENTIAL O4 NARRATIVE DESCRIPTION	. ALLEGED
Ponded water	was visible on "Gr	reen Machine" area and in each of the 3 par	rtially filled
		ES site visit $(10/28/85)$ ; no surface stream	
apparent on s	ite. No surface wa	ater samples were taken other than those fr	rom the cells
03 POPULATION POTE	NTIALLY AFFECTED: UNKNO	including heavy metals detected in samples.  OZ D OBSERVED (DATE:)  OWN 04 NARRATIVE DESCRIPTION	
Reading above	e background were n	not detected during routine on-site monitor	cing for
organic vapor	S.		
01XXD. FIRE/EXPLOS	VE CONDITIONS NTIALLY AFFECTED:	02 ☐ OBSERVED (DATE:) ☐ POTENTIAL 04 NARRATIVE DESCRIPTION	☐ ALLEGED
		that fire and explosion has occurred(or co	uld occur) at
the site was	discovered during	Phase I and Phase II studies. A barn on-si	te burned dur
the mid-1980'	s. The barn was no	ot associated with the former waste disposa	
01 TX E. DIRECT CON	TACT ENTIALLY AFFECTED:	02 OBSERVED (DATE: ) OPOTENTIAL 04 NARRATIVE DESCRIPTION	U ALLEGED
		during the Phase II study, there is not a c	a i
			onfirmed
		hazardous substances at the site has cause	
illness or de	eath to humans or a	hazardous substances at the site has cause	ed injury,
illness or de	non of soll about 1	hazardous substances at the site has cause animals. (Phase II record search, 1988).  02 OBSERVED (DATE: 10/8/87)	ed injury,
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ol G. DRINKING W.  Ol G. DRINKING W. Ol G. DRINK W. OL	TON OF SOIL about 1 LYAFFECTED: Access Distances detected in the contamination and harmonic and the contamination and the coundwater wells.	hazardous substances at the site has cause animals. (Phase II record search, 1988).  O2 OBSERVED (DATE: 10/8/87 ) POTENTIAL O4 NARRATIVE DESCRIPTION  in sediments from on-site surface water both heavy metals.  O2 OBSERVED (DATE:) POTENTIAL O4 NARRATIVE DESCRIPTION  Is located within a 3-mile radius of the site	ad injury,  ALLEGED  dies,  L DALLEGED  ite, drawing es.
older from gr	TION OF SOIL about 1 LYAFFECTED: Access Distances detected in the contamination and harmonic and the contamination and the coundwater wells.	hazardous substances at the site has cause animals. (Phase II record search, 1988).  O2 OBSERVED (DATE: 10/8/87 ) POTENTIAL O4 NARRATIVE DESCRIPTION  in sediments from on-site surface water both heavy metals.  O2 OBSERVED (DATE:) POTENTIAL O4 NARRATIVE DESCRIPTION  Is located within a 3-mile radius of the site	ad injury,  ALLEGED  dies,  L DALLEGED  ite, drawing es.
older from gr	TON OF SOIL about 1 LYAFFECTED: Access Distances detected in the contamination and harmonic and the contamination and the coundwater wells.	hazardous substances at the site has cause animals. (Phase II record search, 1988).  O2 OBSERVED (DATE: 10/8/87 ) POTENTIAL O4 NARRATIVE DESCRIPTION  in sediments from on-site surface water both heavy metals.  O2 OBSERVED (DATE:) POTENTIAL O4 NARRATIVE DESCRIPTION  Is located within a 3-mile radius of the site	ed injury,  ALLEGED  dies,  L DALLEGED  ite, drawing es.
older from gr	TON OF SOIL about 1 LYAFFECTED: Access Distances detected in the contamination and harmonic and the contamination and the coundwater wells.	hazardous substances at the site has cause animals. (Phase II record search, 1988).  O2 OBSERVED (DATE: 10/8/87 ) POTENTIAL O4 NARRATIVE DESCRIPTION  in sediments from on-site surface water both heavy metals.  O2 OBSERVED (DATE:) POTENTIAL O4 NARRATIVE DESCRIPTION  Is located within a 3-mile radius of the site	ad injury,  ALLEGED  dies,  L DALLEGED  ite, drawing es.
ol M.F. CONTAMINA' 03 AREA POTENTIALI Hazardous sub including phe 01 M.G. DRINKING W. 03 POPULATION POT 27 identified water from gr	TION OF SOIL about 1 LY AFFECTED: About 1 Distances detected in the contamination and in the contamination and in the contamination and in the contamination are supply well coundwater wells.	hazardous substances at the site has cause animals. (Phase II record search, 1988).  O2 OBSERVED (DATE: 10/8/87 OF POTENTIAL O4 NARRATIVE DESCRIPTION  in sediments from on-site surface water both heavy metals.  O2 OBSERVED (DATE: 10/8/87 OF POTENTIAL O4 NARRATIVE DESCRIPTION  Is located within a 3-mile radius of the sconsite wells contained hazardous substance of the Sconsite wells contained hazardous substance of the Narrative DESCRIPTION  O2 OBSERVED (DATE: 10/8/87 OF POTENTIAL O4 NARRATIVE DESCRIPTION	ed injury,  ALLEGED  dies,  t data drawing es.
ol D. POPULATION	TON OF SOIL about 1 LYAFFECTED: Access Distances detected in the contamination and harmonic and the contamination and the coundwater wells.	hazardous substances at the site has cause animals. (Phase II record search, 1988).  O2 OBSERVED (DATE: 10/8/87 OF POTENTIAL O4 NARRATIVE DESCRIPTION  in sediments from on-site surface water both heavy metals.  O2 OBSERVED (DATE: 10/8/87 OF POTENTIAL O4 NARRATIVE DESCRIPTION  Is located within a 3-mile radius of the site of the	ed injury,  ALLEGED  dies,  t data drawing es.

**SEPA** 

### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

	IDENI			
01	STATE	02	SITE	NUMBER

HAZARDOUS CONDITIONS AND INCIDENTS (Continued)			
1 □ J. DAMAGE TO FLORA 4 NARRATIVE DESCRIPTION	02 □ OBSERVED (DATE:)	POTENTIAL	□ ALLÈGED ~
11   K. DAMAGE TO FAUNA 4 NARRATIVE DESCRIPTION (Include name(s) of species)	02 □ OBSERVED (DATE:)	☐ POTENTIAL	□ ALLEGED
01 ☐ L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
11  M. UNSTABLE CONTAINMENT OF WASTES (Spath Panoth Standing bounds, Leaking drums) 3 POPULATION POTENTIALLY AFFECTED: unknown	02 GBSERVED (DATE:) 04 NARRATIVE DESCRIPTION		□ ALLEGED
Open, unlined landfill cells with Investigation, 1987)	no run-on diversion stru	cture (ES Fie	ld
D1 □ N. DAMAGE TO OFFSITE PROPERTY D4 NARRATIVE DESCRIPTION	02 🗆 OBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 04 NARRATIVE DESCRIPTION	02   OBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
D1   P. ILLEGAL/UNAUTHORIZED DUMPING D4 NARRATIVE DESCRIPTION	02   OBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLE	GED HAZARDS		AM-10-10-10-10-10-10-10-10-10-10-10-10-10-
III. TOTAL POPULATION POTENTIALLY AFFECTED:			
V. COMMENTS			
V. SOURCES OF INFORMATION (CAO Specific relevences, e. g., state tides,	Sample enalysis, reports)		
Interview with Paul Ferry during (ES and Dames & Moore site v			report.

I. IDENT	IFICATION
01 STATE	02 SITE NUMBER

SEPA			NSPECT			STATE 02 SITE NUMBER	
II. PERMIT INFORMATION		***************************************	into and a second with the sec	The second secon			
01 TYPE OF PERMIT ISSUED	02 PERMIT NUMBE	R 03 DA	TE ISSUED	04 EXPIRATION DATE	05 COMMENTS		
(Check of that apply)							
A. NPDES			tel collection in the company of the collection				
☐ B. UIC						and the second desired the control of the control o	
C. AIR							
D. RCRA							
□ E. RCRA INTERIM STATUS		A	·				
☐ F. SPCC PLAN			***************************************		<u> </u>		
⊠ G. STATE (Specify)	2021/2290	0 10	/25/79	11/1/82	solid wasi	te management/opera	
접 H. LOCAL <sub>(Specify)</sub>	81-1/81-2	2 7	/19/79				
☐ I. OTHER (Specify)							
□ J. NONE							
III. SITE DESCRIPTION		**************************************					
	02 AMOUNT 03	UNIT OF MEAS	URE 04 T	REATMENT (Check all that	eoply)	05 OTHER	
☐ A. SURFACE IMPOUNDMENT			_	. INCENERATION			
B. PILES				. UNDERGROUND IN.	IECTION	A. BUILDINGS ON SITE	
C. DRUMS, ABOVE GROUND				. CHEMICAL/PHYSIC			
D. TANK, ABOVE GROUND			_   🗆 o	. BIOLOGICAL			
☐ E. TANK, BELOW GROUND			_   D E	. WASTE OIL PROCES	SSING	06 AREA OF SITE	
図 F. LANDFILL	52,000	<u>Cu Yard</u>	- 101	. SOLVENT RECOVER		13.2	
☐ G. LANDFARM	☐ G. LANDFARM		_   🗆 e	☐ G. OTHER RECYCLING/RECOVERY		(Acres)	
☐ H. OPEN DUMP _			_   🗆 +	I. OTHER	oecdy)		
(Specify)				,			
07 COMMENTS		<del>umagan paramanan maka maka maka maka maka maka mak</del>				And the second s	
2 disposal cells; one is full, one is partially filled with industrial sludges.							
IV. CONTAINMENT			***************************************				
01 CONTAINMENT OF WASTES (Check one)			**************************************				
☐ A. ADEQUATE, SECURE	Ø B. MODERATE		C. INADE	QUATE, POOR	D. INSECU	RE, UNSOUND, DANGEROUS	
02 DESCRIPTION OF DRUMS, DIKING, LINERS,	BARRIERS, ETC.	- TOWNSON CONTRACTOR					
Soil underlying disp	osal cells	is natur	al cla	y:Bentonite	clay whic	h has been disposed	
in the cells may hel	p contain c	ollected	surfa	ce water.			
A dike road separate					machine" a	areas; a dike road	
also separates the p						•	
V. ACCESSIBILITY			paspayanagaagaaaaaa				
01 WASTE EASILY ACCESSIBLE: YE 02 COMMENTS  Access to site is un			anne de la companya d				
Access to site is un	repurren						
	***************************************		A STATE OF THE PARTY OF THE PAR	14-34-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-			

### VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample enalysis, reports)

ES site visit (10/25/85) and EPA site inspection form (ES- Dames & Moore site visit 3/21/85) from NYSDEC Phase I & Phase II reports.

inconstation (	SCHOOL STATE	ASSA.

					ION	
01	S	TATE	02	SITE	NUMB	ER

II. DRINKING WATER SUPPLY  01 TYPE OF DRINKING SUPPLY (Check as apparable)  SURFA COMMUNITY A. C.  COMMUNITY C. C.  III. GROUNDWATER  01 GROUNDWATER USE IN VICINITY (C.  A. ONLY SOURCE FOR DRINKIN  02 POPULATION SERVED BY GROUND  04 DEPTH TO GROUNDWATER  18 20 (ft)  09 DESCRIPTION OF WELLS (INCANDING IN INCANDING	B. D. D. E. Check one)  NG E. B. DRINKING (Other sources evalue COMMERCIAL, IN (No other water source D. WATER	NOUSTRIAL, IRRIGATIO COS EVARACIO)  OUNDWATER FLOW  Description and buildings)	B. C. COMMEI  C. COMMEI  (Limited oil  O3 DISTANCE TO N  O6 DEPTH TO AQUI OF CONCERN  18-20	(n) unknov	A	ake Erie  14 (mi) 2 25 (mi)  D. NOT USED, UNUSEABLE  2.25 (mi)  DIS SOLE SOURCE AQUIF  SUPPLY Wells
SURFA COMMUNITY A. C NON-COMMUNITY C. C  III. GROUNDWATER  01 GROUNDWATER USE IN VICINITY OF A. ONLY SOURCE FOR DRINKIN  02 POPULATION SERVED BY GROUND  04 DEPTH TO GROUNDWATER  18 20 (ft)  09 DESCRIPTION OF WELLS (Incarding or 103 people wit. USGS Topo maps  10 RECHARGE AREA  10 YES COMMENTS	Check one)  NG & B. DRINKING (Other sources evade (Other sources avade (No other water source  D WATER	ENDANGERE  A. □  D. □  IDIO  I	B. C. COMMEI  C. COMMEI  (Limited oil  O3 DISTANCE TO N  O6 DEPTH TO AQUI OF CONCERN  18-20	C. C. F. F. C. F. C. F. F. F. C. F.	A	ake Erie 14 (ml) 2 25 (ml)  D. NOT USED, UNUSEABL  2.25 (ml)  DB SOLE SOURCE AQUIF
COMMUNITY  NON-COMMUNITY  C. C.  III. GROUNDWATER  01 GROUNDWATER USE IN VICINITY OF A. ONLY SOURCE FOR DRINKING  02 POPULATION SERVED BY GROUND  04 DEPTH TO GROUNDWATER  18-20 (ft)  09 DESCRIPTION OF WELLS (Including a 103 people wit USGS Topo maps  10 RECHARGE AREA  10 YES COMMENTS	Check one)  NG & B. DRINKING (Other sources evade (Other sources avade (No other water source  D WATER	A. □ D. □  NOUSTRIAL, IRRIGATIO COS evalable)  OUNDWATER FLOW	B. C. COMMEI  C. COMMEI  (Limited oil  O3 DISTANCE TO N  O6 DEPTH TO AQUI OF CONCERN  18-20	C. C. F. F. C. F. C. F. F. F. C. F.	ATER WELL 2  AL YIELD TER  YIN (gpd).	D. NOT USED, UNUSEABLE  2.25 (mi)  08 SOLE SOURCE AQUIF
NON-COMMUNITY C. C.  III. GROUNDWATER  01 GROUNDWATER USE IN VICINITY OF A. ONLY SOURCE FOR DRINKING  02 POPULATION SERVED BY GROUND  04 DEPTH TO GROUNDWATER  18-20 (ft)  09 DESCRIPTION OF WELLS (Including of USGS Topo maps)  10 RECHARGE AREA  10 YES COMMENTS	Check one)  NG & B. DRINKING (Other sources evade. COMMERCIAL, IN (No other water source)  D WATER	D. []  IDIO D. []	C. COMMEI  C. COMMEI  (Limited oil  O3 DISTANCE TO N  O6 DEPTH TO AQUI  OF CONCERN  18-20	F. CI  RCIAL, INDUSTRIAL, IR ther sources averable)  REAREST DRINKING W.  REAREST DRINKING W.  OF AQUIF  (ft) UNKNOW	ATER WELL 2  AL YIELD TER  YIN (gpd).	D. NOT USED, UNUSEABL  2.25 (mi)  DB SOLE SOURCE AQUIF
III. GROUNDWATER  01 GROUNDWATER USE IN VICINITY OF A. ONLY SOURCE FOR DRINKING  02 POPULATION SERVED BY GROUND  04 DEPTH TO GROUNDWATER  18-20 (ft)  09 DESCRIPTION OF WELLS (Including a 103 people wit USGS Topo maps  10 RECHARGE AREA  10 YES COMMENTS	Check one)  NG	NOUSTRIAL, IRRIGATIO COS EVARACIO)  OUNDWATER FLOW  Description and buildings)	03 DISTANCE TO N  06 DEPTH TO AQUI  OF CONCERN  18-20	IEAREST DRINKING W.  IFER 07 POTENTINO OF AQUIF	ATER WELL 2 AL YIELD 6 ER VII (gpd).	2.25 (mi) Da SOLE SOURCE AQUIF □ YES
01 GROUNDWATER USE IN VICINITY OF A. ONLY SOURCE FOR DRINKING A. ONLY SOURCE FOR DRINKING OF POPULATION SERVED BY GROUND OF DESCRIPTION OF WELLS (Incarding of 103 people wit. USGS Topo maps	D WATER 103  OS DIRECTION OF GROWN AND ADDRESS OF THE COMMENCE	NOUSTRIAL, IRRIGATIO COS EVARACIO)  OUNDWATER FLOW  Description and buildings)	03 DISTANCE TO N  06 DEPTH TO AQUI  OF CONCERN  18-20	IEAREST DRINKING W.  IFER 07 POTENTINO OF AQUIF	ATER WELL 2 AL YIELD 6 ER VII (gpd).	2.25 (mi) Da SOLE SOURCE AQUIF □ YES
02 POPULATION SERVED BY GROUND  04 DEPTH TO GROUNDWATER  18-20 (ft)  09 DESCRIPTION OF WELLS (Incarding of the company of the	OWATER 103  OS DIRECTION OF GRO  W-SW  useege, depth, and location relative to hin a 3-mile ra	NOUSTRIAL, IRRIGATIO COS EVARACIO)  OUNDWATER FLOW  Description and buildings)	03 DISTANCE TO N  06 DEPTH TO AQUI  OF CONCERN  18-20	IEAREST DRINKING W.  IFER 07 POTENTINO OF AQUIF	ATER WELL 2 AL YIELD 6 ER VII (gpd).	2.25 (mi) Da SOLE SOURCE AQUIF □ YES
04 DEPTH TO GROUNDWATER  18-20 (ft)  09 DESCRIPTION OF WELLS (Including a 103 people with USGS Topo maps  10 RECHARGE AREA  10 YES COMMENTS	os direction of GRO  W-SW  usesgo, depth, and location relative to hin a 3-mile ra	o population and buildings)	06 DEPTH TO AQUI OF CONCERN 18-20	of Aquif  (ft) unknow	AL YIELD ER Vn(gpd).	08 SOLE SOURCE AQUIF
18-20 (M)  09 DESCRIPTION OF WELLS (Including to 103 people with USGS Topo maps  10 RECHARGE AREA  YES COMMENTS  NO	W-SW weege, depth, and location relative to hin a 3-mile ra	o population and buildings)	0F CONCERN 18-20	of Aquif (ft) unknow	Vn(gpd).	☐ YES 현NC
103 people wit. USGS Topo maps  10 RECHARGE AREA  YES COMMENTS	ussepp. depth, and location relative to hin a 3-mile ra	o population and buildings) adius are s	18-20	_(m) unknov	vn(gpd).	
103 people wit. USGS Topo maps  10 RECHARGE AREA  YES COMMENTS  NO	hin a 3-mile ra	o population and busidings) adius are s	erviced by	27 drinkin	ng water	supply wells
				REA MMENTS		
			□ YES COI	MMENIS		
I IV. SURFACE WATER						
01 SURFACE WATER USE (Check one)  LA. RESERVOIR, RECREATION DRINKING WATER SOUP  02 AFFECTED/POTENTIALLY AFFECT NAME:	ON 🗆 B. IRRIGATI RCE IMPORTA	ION, ECONOMICALL ANT RESOURCES	Y C.COM	MERCIAL, INDUSTR	ECTED	DISTANCE TO SITE
	Nam Bottom Cuo	ماء			_	0.33
North Branch P	Plum Bottom Cree	<u>ек</u>				
V. DEMOGRAPHIC AND PRO	PERTY INFORMATION	<u>, , , , , , , , , , , , , , , , , , , </u>		***************************************		
01 TOTAL POPULATION WITHIN				02 DISTANCE T	O NEAREST POP	ULATION
ONE (1) MILE OF SITE  946  NO. OF PERSONS	TWO (2) MILES OF SIT B. 3,586 NO. OF PERSONS	THREE	(3) MILES OF SITE 14,337 NO. OF PERSONS		0.0	(mi)
03 NUMBER OF BUILDINGS WITHIN	TWO (2) MILES OF SITE		04 DISTANCE TO	NEAREST OFF-SITE	BUILDING	
	944				0.1	(mi)
05 POPULATION WITHIN VICINITY O	F SITE (Provide narretive descriptio	Rw nottelugog to enuten to no	nin vicinity of site, e.g., ru	rai, villege, densely populai	ed urban area)	
site is in spa	arsely populated	d rurai are	ea.			

LIDENTIFICATION

	and the second s		IDOUS WASTE SITE	01 STATE 02 SITE NUMBER			
	<b>SEPA</b>	SITE INSPECT	TION REPORT				
		PART 5 - WATER, DEMOGRAPHI	C, AND ENVIRONMENTAL DATA				
Ì	VI. ENVIRONMENTAL INFORMA	TION					
ľ							
	⊠ A. 10 <sup>-6</sup> – 10 <sup>-</sup>		C. 10 <sup>-4</sup> - 10 <sup>-3</sup> cm/sec ☐ D. GREATER	THAN 10 <sup>-3</sup> cm/sec			
ļ		which bottom of cells are	e located				
	02 PERMEABILITY OF BEDROCK (Check of			VERY REPLIEARI E			
	☐ A. IMPERMEABLE ② B. RELATIVELY IMPERMEABLE ☐ C. RELATIVELY PERMEABLE ☐ D. VERY PERMEABLE  (Less than 10 <sup>-6</sup> cm/sec) (10 <sup>-2</sup> - 10 <sup>-4</sup> cm/sec) (Greater than 10 <sup>-2</sup> cm/sec)						
	03 ДЕРТН ТО ВЕДЯОСК	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH				
	<u>60-75</u> (m)	<u>unknown</u> (m)	unknown				
	06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE DIRECTION OF SITE	SLOPE TERRAIN AVERAGE SLOPE			
	9 (in)	2 to 2.5 (in)	less than W	1.0 %			
	09 FLOOD POTENTIAL greater than	10		•			
	site is in 100 YEAR FLO	OODPLAIN SITE IS ON BARRI	IER ISLAND, COASTAL HIGH HAZARD ARE	A, RIVERINE FLOODWAY			
ource:	11 DISTANCE TO WETLANDS (5 acre miner	THUTT)	12 DISTANCE TO CRITICAL HABITAT (of endange	eved species)			
agion 9	•	OTHER		(mi)			
NYSDEC-F	mara than !	B0.9 (mi)	ENDANGERED SPECIES:				
Farm:	Hatand use in vicinity						
9/28/87	DISTANCE TO:						
2,20,01		RESIDENTIAL AREAS; NATIO		RICULTURAL LANDS AND AG LAND			
	COMMERCIAL/INDUSTR	RIAL FORESTS, OR WILDLIF					
	s.t 4	more <sub>1</sub> t		1/1			
	Amore than (mi)	B	(mi) C/4	(mi) D(mi)			
	14 DESCRIPTION OF SITE IN RELATION	TO SURROUNDING TOPOGRAPHY					
	site is adjacen	nt to farmland, topograph	y has less than 3% slop	es.			
	J == 24.	, , = 2 - 1	•				
		-					
				•			
		ON co.					
	VII. SOURCES OF INFORMATI	ON (Cite specific references, e.g., state files, sample enalys	es, reports	nada baka cana ina da Baka kan musu ka			
	T Bielli, 1988	3					

Letter from J. Ozard (NYSDEC Wildlife Resources Center) to M. Anatra (ES)-7/28/87

EPA FORM 2070-13 (7-81)

T.	A

1.	IDENT	IFICAT	ION
01	STATE	02 SITE	NUMBER

SEPA		. РА	SITE INSPECTION REPORT RT 6 - SAMPLE AND FIELD INFORMATION			
II. SAMPLES TAKE	N					
SAMPLE TYPE		1 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03.ESTIMATED DATE RESULTS AVAILABLE		
GROUNDWATER		7	Nanco Laboratories	now		
SURFACE WATER		4	Nanco Laboratories	now		
WASTE			·			
AIR	***************************************					
RUNOFF						
SPILL						
SOIL						
VEGETATION						
()IMHH	ace wate iment	r 4	Nanco Laboratories, York Labs	now		
III. FIELD MEASUF	REMENTS TA	and the second s				
01 TYPE		02 COMMENTS				
Photovac/I	HNV	all upwind	and downwind readings Were less than 1 ppm of	during the		
		ES- Dames 8	Moore site inspection on 3/21/85 and during	, the ES site		
		site inspec	tion on 10/28/85. Monitoring conducted as he	ealth and		
safety measures during Phase II field work in late 1987. No readi						
	above background.					
IV. PHOTOGRAPH	IS AND MAPS	}				
01 TYPE TEGROU	ND AERIAL		02 IN CUSTODY OF Engineering-Science (Name of organization or individual)			
03 MAPS □XYES □ NO		ON OF MAPS ineering-Science				
V. OTHER FIELD	DATA COLLE	CTED (Provide narrative d	escription)			

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state lites, sample analysis, reports)

ES site inspection (10/28/85)

P(		SITE INSPE	CTION REPORT				
**************************************	WWW.		PARENT COMPANY (# applicable)				-
T(	)2 <b>D</b> +	8 NUMBER	OB NAME	***************************************	0	9 D+	BNUMBER
n		•					
war and a second se	0	4 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)			1	1 SIC CODE
06 STATE	07 ZIP	CODE	12 СПУ		13 STATE 1	4 ZIP	CODE
NY	14	1086				W.Stanayurana	
	02 D+	B NUMBER	08 NAME		C	9 D +	8 NUMBER
annun viere da historia del Antonio de Anton	C	4 SIC CODE	10 STREET ADDRESS (P.O. Box, RFO #, etc.)			1	1 SIC CODE
						- }	
06 STATE	07 ZI	PCODE	12 CITY		13 STATE	1 4 ZIF	CODE
			· ·				:
	02 D	+ B NUMBER	08 NAME			09 D-	B NUMBER
	-						
**************************************	L	04 SIC CODE	10 STREET ADDRESS (P.O. Box. RFD # . etc.)		<u></u>	T	1 SIC CODE
	ľ		7.5				
OR STATE	07.71	PCODE	12 CITY		13 STATE	14 ZI	CODE
UDSIAIE	0, 21	- CODE	12011				
ļ						000	+8 NUMBER
	02 D	+ H NUMBER	08 NAME			29.0	- U HUMBER
	<u> </u>						1 1 SIC CODE
	- 1	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.	,			11 SIC CODE
	]					لـــا	
06 STATE	07 Z	IP CODE	12 CITY		13 STATE	142	IP CODE
		HITTING				<u> </u>	
81) •			IV. REALTY OWNER(S) (# applicable)	bat moat re-	cent first)	····	
	02 D	+ B NUMBER	01 NAME			02 D	+B NUMBER
						<u> </u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
COMMUNICATION PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROP		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #; etc	:.)			04 SIC CODE
OBSTATE	07 Z	IP CODE	05 CITY		06 STATE	07 2	IP CODE
1						L	
no and a management	02 D	+B NUMBER	01 NAME			021	O+8 NUMBER
*		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD 8, etc.	:.)		***************************************	04 SIC CODE
08 STATE	07 Z	IP CODE	05 CITY	na n	OB STATE	07	UP CODE
						1	
	02 [	+B NUMBER	01 NAME			02	D+B NUMBER
		04 SIC CODE	O3 STREET ADDRESS (P.O. Box, RFD #, etc	.)			04 SIC CODE
		1					
OBSTATE	07	ZIP CODE	05 CITY	manistrativa (Company)	08 STATE	07	ZIP CODE
1	٦ "		35511			1	
t							
	<u></u>	state lites, sample anal					Windows - west - was an analysis of the same
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EPA	

# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 8- OPERATOR INFORMATION

		IFICATION
01	STATE	02 SITE NUMBER

YEFA	PART 8 - OPERATOR INFORMATION						
II. CURRENT OPERATO	R (Provide il cittereni tro	om owner)		OPERATOR'S PARENT COMPANY (# appecable)			
1 NAME			2 D+B NUMBER	10 NAME	11	D+8 NUMBER	
Lancaster Recl	amation		04 SIC CODE	12 STREET ADDRESS (P.O. Boz, RFD 0, etc.)	CONTROL OF THE PROPERTY OF THE	13 SIC CODE	
	_						
403 Pavement R scry	.oad	OB STATE O	7 ZIP CODE	14 CITY	15 STATE 16	ZIP CODE	
Lancaster	09 NAME OF OWNER	NY	14086			eganina yezhoù an de la canada d	
1976-1983	same	•					
III. PREVIOUS OPERAT		t first; provide only	fi different from owner)	PREVIOUS OPERATORS' PARENT	OMPANIES (# 40	p4cab/9)	
1 NAME	011(0)		2 D+B NUMBER	10 NAME		1 0+8 NUMBER	
3 STREET ADDRESS (P.O. &	s, RFD Ø, etc.)	and an arrangement of the same	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
					ILE CTATE I	6 ZIP CODE	
DS CITY		06 STATE	07 ZIP CODE	14 CITY	ISSIAIE	6 ZIP CODE	
	09 NAME OF OWNE	B OURING THE	DERIOD				
08 YEARS OF OPERATION	OR NAME OF OWNE	n DUNING TAIS	PERIOD				
01 NAME		I (	02 D+8 NUMBER	10 NAME	[1	1 D+B NUMBER	
OTHAME							
03 STREET ADDRESS (P.O. Bo	ox, RFD Ø, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE	
08 YEARS OF OPERATION	09 NAME OF OWN	ER DURING THE	S PERIOD				
01 NAME			02 D+B NUMBER	10 NAME		11 D+B NUMBER	
			04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		113 SIC CODE	
03 STREET ADDRESS (P.O. B	OX, HFU #, BIG.)	•	04 3.0 0002	12 STREET ADDRESS (F.S. DOZ. III DV. SISI)			
05 CITY		O8 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE	
				1			
08 YEARS OF OPERATION	09 NAME OF OWN	ER DURING THE	S PERIOD		1		
IV. SOURCES OF INF	DEMATION	*			***************************************	<del></del>	

	F	OTENTIAL HAZ	ZARDOUS WASTE SITE	I. IDENTIF	ICATION
<b>SEPA</b>		SITE INSP	ECTION REPORT	01 STATE 02	SITE NUMBER
and States commonweal and State and	PART	9 - GENERATOR/	TRANSPORTER INFORMATION		
II. ON-SITE GENERATOR		The Artifact State of Commission of the Commissi			
01 NAME	0.000	02 D+B NUMBER		***************************************	elektronomanous voides elektronomaks meggyppymi
03 STREET ADDRESS (P.O. Box, RFD 6, etc.)	7.77/HW1001	04 SIC CODE	- Charles		
		040,000			
05 CITY	106 STATE	07 ZIP CODE	001000MARM		
	Josephie	O7 ZIP CODE			
III. OFF-SITE GENERATOR(S)		P			
Oresser Industries		02 D+B NUMBER	01 NAME		02 D+8 NUMBE
			Fabriton		
D3 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC COD
		1			
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
<u>wege</u>	NY		Alden	NY	
DI NAME		02 D+8 NUMBER	O1 NAME		02 D+B NUMBE
Chevrolet Division, GM			Dood Woldings		
3 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	Reed Holdings 03 STREET ADDRESS (P.O. Box, RFD P. OLC.)	***************************************	104 810 000
			0 0 111 CE 1 ADDITESS (F.O. BOX, AFD 9, 81c.)		04 SIC COD
D5 CITY	06 STATE	07 ZIP CODE	2775 Broadway P.O. Bo		
Tonawanda	NY		Buffalo	OBSTATE	07 ZIP CODE
	TA T		Dullalo	NY	
IV. TRANSPORTER(S)					
Lancaster Reclamation		02 D+B NUMBER	01 NAME		02 D+B NUMBE
			Ferry Construction Co.		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC COL
403 Pavement Road			3179 Walden Ave.		ł
5 CITY	06 STATE	07 ZIP CODE	05 CTY WAITCH AVE.	IO6 STATE	07 ZIP CODE
Lancaster	NY	14006	Donous		
DI NAME		14086 02 D+8 NUMBER	Depew 01 NAME	NY	14043
Ken Straub, Jr. Trucki	na Co				02 D+B NUMBE
3 STREET ADDRESS (P.O. BOX, RFD P. etc.)		04 SIC CODE	22.070.070		
, , , , , , , , , , , , , , , , , , , ,		OF SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC COD
Box B, Station B		1			- 1

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

06 STATE 07 ZIP CODE

NY

(ES-Dames & Moore site visit 3/21/85).

05 CITY

06 STATE 07 ZIP CODE

05 CITY

Buffalo

9	EPA

1.	IDENT	IFI	CAT	ION NUMBER
01	STATE	02	SITE	NUMBER

ZEFA		ST RESPONSE ACTIVITIES	manuario con con con con con con con con con co	
Ad She arrestores and ten		91 UESLOÚSÉ MATITUES		
II. PAST RESPONSE ACTIVITIES			03 AGENCY	
01 A. WATER SUPPLY CLO	OSED	02 DATE	03 AGENO1	
04 DESCRIPTION				
	no	02 DATE	03 AGENCY	
01 DB. TEMPORARY WATE		UZ DATE	007100710	
U4 DESCRIPTION	no			
01 C. PERMANENT WATE	ER SLIDDI V BROVINEN	02 DATE	03 AGENCY	
04 DESCRIPTION	no		•	•
	110			
01 D. SPILLED MATERIAL	. REMOVED	02 DATE	03 AGENCY	
04 DESCRIPTION				
·				
01 E. CONTAMINATED SC	DIL REMOVED	02 DATE	03 AGENCY	
04 DESCRIPTION	no			
		02 DATE	03 AGENCY	
01  F. WASTE REPACKAG 04 DESCRIPTION	GED	02 DAIL	00 AGENO1	
U4 DESCRIPTION	no			
	EL OCIMITATION	02 DATE	03 AGENCY	
01 G. WASTE DISPOSED 04 DESCRIPTION	ELSEWHERE	02 5/112		
	no			
01 🗆 H. ON SITE BURIAL	1 100000 100000 100000 100000 100000 1000000	02 DATE	03 AGENCY	4 1000000000000000000000000000000000000
04 DESCRIPTION				
	no			
01 [] I. IN SITU CHEMICAL	TREATMENT	02 DATE	03 AGENCY	
04 DESCRIPTION				
	no			
01 🗆 J. IN SITU BIOLOGICA	AL TREATMENT	02 DATE	. 03 AGENCY	
04 DESCRIPTION				
	no	02 DATE	O3 AGENCY	
01 C K. IN SITU PHYSICAL 04 DESCRIPTION	TREATMENT	UZ DATE		
0.0 S2001 1.0.1	20			
01 D L ENCAPSULATION	no	02 DATE	03 AGENCY	
04 DESCRIPTION		-		
	no			
01 DM. EMERGENCY WA	STE TREATMENT	02 DATE	03 AGENCY	· · · · · · · · · · · · · · · · · · ·
04 DESCRIPTION				
	no	W		
01 D N. CUTOFF WALLS		02 DATE	_ 03 AGENCY	
04 DESCRIPTION				
	no		03 AGENCY	
01  O. EMERGENCY DIK 04 DESCRIPTION	(ING/SURFACE WATER DIVERSION	02 DATE	_ U3 AGENCY	
04 DESCRIPTION				
	NO	02 DATE	03 AGENCY	
01 ☐ P. CUTOFF TRENCH 04 DESCRIPTION	1E5/SUMP	₩ fire bd / % 1 ho annaholesterenerinterinterinterinterinterinterint	AND SET I THEN THE T I THE SET I THE SET I SET IN S	
	no			
	no	OZ DATE	_ 03 AGENCY	
01  Q. SUBSURFACE C		V& UAIC	www. COMMING Common	en de la companya de
	no			

		I. IDENTIFICATION
	POTENTIAL HAZARDOUS WASTE SITE	01 STATE 02 SITE NUMBER
<b>\$EPA</b>	SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES	
II PAST RESPONSE ACTIVITIES (Continued)		
01 R. BARRIER WALLS CONSTRUCTED	O2 DATE	03 AGENCY
04 DESCRIPTION no		
	02 DATE	03 AGENCY
01 [] S. CAPPING/COVERING 04 DESCRIPTION	UZ DATE	O AGENOT
no		
01   T. BULK TANKAGE REPAIRED  O4 DESCRIPTION	02 DATE	03 AGENCY
no	•	
01 🗆 U. GROUT CURTAIN CONSTRUCTE	D 02 DATE	03 AGENCY
04 DESCRIPTION		
no		
01 □ V. BOTTOM SEALED 04 DESCRIPTION	02 DATE	03 AGENCY
no		
01 DW. GAS CONTROL	02 DATE	03 AGENCY
04 DESCRIPTION		
01 🗆 X. FIRE CONTROL	02 DATE	03 AGENCY
04 DESCRIPTION	025/10	
no		
01 DY. LEACHATE TREATMENT 04 DESCRIPTION	O2 DATE	03 AGENCY
no		
01   Z. AREA EVACUATED  04 DESCRIPTION	O2 DATE	03 AGENCY
, no		•
01 🗆 1. ACCESS TO SITE RESTRICTED	02 DATE	03 AGENCY
04 DESCRIPTION		
01   2. POPULATION RELOCATED  04 DESCRIPTION	02 DATE	03 AGENCY
no		
01 3. OTHER REMEDIAL ACTIVITIES	02 DATE	03 AGENCY
04 DESCRIPTION none		
		,

	LOGER OF INCOME ATION		
III. SO	URCES OF INFORMATION	(Cite specific references, e.g., state files, sample energies, reporte)	
III. SO		(Cite specific references, e.g., state tiles, sample analysis, reports)	
III. SO	URCES OF INFORMATION	(Cite specific references, e.g., state fries, sample analysis, reports)	

### SEPA

### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

15	CAICO	DOCES	CALT !	INFORM	ATIMAL

01 PAST REGULATORY/ENFORCEMENT ACTION CI YES TINO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Che specific references, e.g., state tites, sample analysis, reports)

letter from Vance Bryant, Div. Env. Enforcement to Michele Anatra, ES-July 7, 198

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- 2. ES Boring Logs, 1987. Lancaster Reclamation site.
- 3. Frey, W., 1988. Telephone conversation with W. Bradford, Engineering-Science, May 2, 1988.
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- 8. NYSDEC, 1987. Inactive Hazardous Waste Disposal Site Report dated November 16, 1983.
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<sup>\*</sup>All these references were used for HRS Documentation, while some of them were also used as general references.

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- 42. NYSDEC, 1981a. Letter to John L. Ferry, Lancaster Reclamation Company dated June 16, 1981.
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<sup>\*\*</sup>These references were not used for HRS Documentation. See also "HRS REFERENCES" above.

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MAR 0 1 1988

### INORGANIC ANALYSIS DATA SHEET FORM I

SMPL NO.: GW-1B

Lab Name : NANCO LABORATORIES, INC.

Customer Name: Engineering Science

SOW NO. : N/A

Lab Receipt Date: 10/31/87

Lab Sample ID: 87-EW-3763

Date Reported: 12/9/87

Location ID: LANCASTER RECLAMATION

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW X MEDIUM

MATRIX: WATER X SOIL \_\_\_\_ SLUDGE \_\_OTHER \_\_\_\_

### UG/LOR MG/KG DRY WEIGHT ( CIRCLE ONE )

1.	ALUMINUM	1	150.0 P	13.	MAGNESIUM	13900.0 P
2.	ANTIMONY		50.0 UP N	14.	MANGANESE	15.0 UP
3.	ARSENIC		3.0 UF N	15.	MERCURY	0.2 U C.V.
4.	BARIUM	t	120.0 JP	16.	NICKEL	25.0 UP
5.	BERYLLIUM		2.0 UP N	17.	POTASSIUM	8300.0 P
6.	CADMIUM		5.0 UP	18.	. SELENIUM	3.0 UF $\cal N$
7.	CALCIUM	65	900.0 P	19.	. SILVER	10.0 UP N
8.	CHROMIUM		18.0 P	. 20	. SODIUM	56600.0 P
9.	COBALT		30.0 UP	21	. THALLIUM	2.0 UF
10.	COPPER		15.0 UP	22	. VANADIUM	25.0 UP
11.	IRON	7	2435.0 P	23	. ZINC	39.0 PN
12.	LEAD	ſ-	3.6 1F N&	PERCENT SOL	IDS (%)	NA
	CYANIDE		NR			
	PHENOL		NR			

FOOTNOTES: FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS: This sample was a clear, colorless liquid and remained clear and colorless after ICP and furnace digestion procedures.

Disable

LAB MANAGER

### INORGANIC ANALYSIS DATA SHEET FORM I .

0000005 fm

SMPL NO.: GW-3B

Lab Name : NANCO LABORATORIES, INC.

Customer Name: Engineering Science

SOW NO. : N/A

CONCENTRATION :

Lab Receipt Date : 10/31/87

Lab Sample ID: 87-EW-3759

Date Reported: 12/9/87

Location ID: LANCASTER RECLAMATION

ELEMENTS IDENTIFIED AND MEASURED

MEDIUM \_\_\_\_\_

MATRIX: WATER X SOIL

SLUDGE \_\_\_OTHER \_\_\_

UG/L OR MG/KG DRY WEIGHT ( CIRCLE ONE )

1.	ALUMINUM	7610.0 P	13. MAGNESIUM	53800.0 P
2.	ANTIMONY	50.0 UP N	14. MANGANESE	444.0 UP
3.	ARSENIC	4.1 UFN	15. MERCURY	0.2 U C.V.
4.	BARIUM	[ 214.0 ]P	16. NICKEL	25.0 UP
5.	BERYLLIUM	2.0 UP N	17. POTASSIUM	4500.0 P
6.	CADMIUM	5.0 UP	18. SELENIUM	15.0 UF N
7.	CALCIUM	117800.0 P	19. SILVER	10.0 UPN
8.	CHROMIUM	94.0 UP	20. SODIUM	16600.0 P
9.	COBALT	30.0 UP	21. THALLIUM	2.0 UF
10.	COPPER	15.0 UP	22. VANADIUM	25.0 UP
11.	IRON	15861.0 P	23. ZINC	163.0 PN
12.	LEAD	[ 39.2 ]FN &	PERCENT SOLIDS (%)	NA
	CYANIDE	NR .		
	PHENOL	NR		

FOOTNOTES: FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS: This sample was a tan, clear liquid. The sample became colorless after ICP and lt yellow after furnace digestion procedures.

Desould State MANAGER

(I

DRILLING CONTRACTOR:  Oriller: D. Reynolds ROC.  Inspector: W. Lilley  Rig Type CME  Drilling Method 4 1/4" ID HSA	PROJECT NAME DE C Phase II - Lan caster PROJECT NO. SY01214	BORING NO.  Sheet of  Location
GROUND WATER OBSERVATIONS  Water Levell 2.5  Time 4 8:36  Date 4 10/1	Weather Cloudy & Rain  Date/Time Start 9 30 87 3:30 pm  Date/Time Finish 9 30 87 5:00 pm	Piot Pian  A  O  O  O  O  O  O  O  O  O  O  O  O
Photovas SAMPLE SAMPLE DEPTHS I.D. SPT	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC Comments
SPT-STANDARD PENETRATION T	(stitt) (no.  14'  Boring terminated	Sand Sand Sand Screen  Bendon to General
D - DRY W - WASHED U - UNDISTURBED SS - SPI P - PIT A - AUGER CUTTIN	C - CORED  LIT SPOON  GS	

Drilling CONTRACTOR:  Driller: Atori dorunty  Inspector: Wenry M. Mine  Rig Type CME(+55  Drilling Method HSA(U'M') # 65' flux	PROJECT NAME Lancuster Reclamation  PROJECT NO. 5/0/2.14	BORING NO. GW-1B  Sheet	C
GROUND WATER OBSERVATIONS  Water Level 2/3 2/01  Time 4 4:20/ 9:00/ Date 1 9/23/97 9/24/8	Weather Clear & Cod Date/Time Start 9/21/87 Date/Time Fines 9/24/87	Plot Plan  Gh-18  N  Manua	
Photovac SAMPLE SAMPLE DEPTHS I.D. SPT		WELL SCHEMATIC Comments	
-0.1 0-2' 1 22    1	dork brown site with some pla genel, soon of  (seleg fill)  dry dark restrict from site with some very five gra  send (slag fill)  loose, wet, light brown pand, redison grained  sticky, moderately stiff, reddied hown clay	Active lawline is 0.1  Active lawline is 0.6  Water table or 7  10.2'  Thomas hardene is -0.8  All of the contract to read 0.0	
BPT- STANDARD PENETRATION TO D - DRY W - WASHED U - UNDISTURBED SS - SPI P - PIT A - AUGER CUTTIN	C - CORED		

DRILLING CONTRACTOR:  riller:  INSPECTOR:  RIG TYPE  Drilling Method  GROUND WATER OBSERVATIONS  Water Level   Time    Date	PROJECT NAME Lancasta Reclamation PROJECT NO. SY 012.14  Weather Date/Time Start Date/Time Finish	BORING NO. GW-18 Sheet 2 of 4 Location  Plot Plan  See Sheet No. 1
Photovac SAMPLE SAMPLE DEPTHS I.D. SPT	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC Comments
0-0   20-22   5   5   5   1   17   17   18   18   25   1   25   1   25   1   1   1   1   1   1   1   1   1	reddied brown, sticky, moderately stiff clay	25.0° Photorise change is to have been in to

DRILLING CONTRACTOR:	ENGINEERING-SCIENCE DRILLING RECORD	Shees	NG NO. <u>G#-</u> 3 of	
g Type	PROJECT NAME Laneston Reclaration PROJECT NO. 5 Y 012.14			
SROUND WATER OBSERVATION	Weather	Plot P		
rator Lavel	Date/Time Start Date/Time Fimsh		See St	ead No. 1
Date #				
SAMPLE SAMPLE DEPTHS I.D.	FIELD IDENTIFICATION OF MATERIAL	40-32 W	YELL SCHEMATIC	Comments
	grayed brown, wet, compact, but to very for	50.5'	Bostoite Shuy 2970 Prc wang	photorae baseline is -a.
PT-STANDARD PENETRATION	•			
D - DRY W - WASHED U - UNDISTURBED SS - P - PIT - A - AUGER CUT	C • CORED  SPLIT SPOON  INGS			

DRILLING CONTRACTOR:	DRILLING RECORD S	DRING NO. GW-1B  Deet 4 of 4  Decation
Type	PROJECT NAME Lancasta Reclamation PROJECT NO. SY012.14	1 Plan
ROUND WATER OBSERVATION	Weather	See Sheed No.1
ater Level	Cate/Time Fimsh	ا العقل ا
ing Depth		
SAMPLE SAMPLE DEPTHS I.D.	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC Comments  plotnec baseline
0.7 60-62' 12 1 1 3 Rec. 16.5" 5	and and allowed at have provided	to be a con the control of the contr
1 3		"ZO PVC
9 1 1 1 1 1 1 1 1 1 3 1 3		photorac baseline
0.5   65-66'   13   3   1   1   1   1   1   1   1		40.3
		Prc Screen Backfill
70,5-72'4		1 the x solutions in
Rec 7" 1	graned broken fragments	
4		4 ;
).3   75-80'   C-1	grey, massive linestone with occasional hiszortal fractures, some stylolitis at the base.	74.6 Africal at 75.6
10.55.1	horizontal fractures, some styletons at the base.	76.6
		Bryd
	80.	o' Sarteriti
PT- STANDARD PENETRATION	TEST Soll Stratigraphy Summary	
D - DRY W - WASHED	C • CORED	

		LING CONTRACTOR:		BORING NO. 2-B
		w. Lilley		Location South east Corner
	Rig Tape Drilling Meth まろち	CM E 4" [DHSA 3"Flush joint to 74"	PROJECT NAME DEC Phase II - Landanter PROJECT NO. SYO 12 14	
		WATER OBSERVATIONS	Weather Clove P Date/Time Start 9/24/87 10:40 av	lot Plan
	Time Date	1   19.5'   1   9:10   1   19/30	Date/Time Firmsh	Pond 2-B
	Casing Depth	74.01	. 1	100
	Palovee.	SAMPLE SAMPLE DEPTHS I.D. SPT	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC Comment
	0.0	10.0-2.01 S-1   14 SS 1   16	Black Sand & Grave (dry)  Gray & Brown Sand & Grave (moust)	
		Rec. 13" 1 14	20 (4:11)	
	0.0	20-40  S-2   6   SS     5	30 Brown Sand & Silt (wed)	
		1 10	Brown to Gray Silt - Clay (stiff a	
	0.0	40-6015-3 6	Brown S. Ht Clay Trace Sando Gra	vel
		Rec 2444   1.2 1	Brown Silb & Chy Trace Sando Gra	
	0.0	35   16   Rec24"1   21	(Stite 4moist)	
	0.0	1 1 1 1 1 1 8 - 10 1 5 - 5 1 8	Brown Silta Clay Trace & Grave 1	Casins
1 1 2 1 2 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1		SS 1 10 Rec 23"1 14	Brown Silta Clay Trace & Grave 1  (Stiff & moist)	
	-	1 1 16		* J >
4		1 1		Ceme
24		1 1 1 7		) H
1	0.0	15-17 156 7 155 1 10 18ec 244 1 8	160 Brown Sild & Clay Trace & Sand & brain	Sand 5
: ( **) **) **)		1 1 7	Gray Brown Clay 1. HIC Silt Trees.	Sand Services
		Shelby 1	Gray Brown Clay	
	0.0	12022 15-7 6	Gray Brown Clay little Sitt Trac Form	well
		1. SS. 1 5 1 Rec 24" 1 7		21.5
14				
200				
Section 1		NOARD PENETRATION T	. and Silty Sand	to 3.01 over 5:11 and c
	D - OF		IT SPOON to 70.0' over	e sand and sand and g
AND THE	P-PIT	A - AUGER CUTTIN		35500000000000000000000000000000000000

Control of the South States of the south

	ING CONTRA			ENGINEERING-SCIENCE DRILLING RECORD	Shee	£	10.	_ 0/	
			an and a second		Loca	tion	<u> </u>	<u>45 ce</u>	-st C
RIG TADO				ROJECT NAME DEC Phase II-Landcaste			***************************************		Activities en journal de la constant
Drilling Metho	94	processor the processor the processor to		ROJECT NO. SYO 12 14			***************************************		
			T	Clear	Plot F	Plan			
GROUND	WATER OBSE	MOITAVE	IS W	leather 9/25			<	. د	8.
Water Level	1		- Contraction of	are/Time Fimeh		>	ee S	nee	- 100
Time	4	İ							
Date	1								•
Casing Depth				•	1				
Protovec Reading	DESTUG	MPLE	SPT	FIELD IDENTIFICATION OF MATERIAL		MELL	SCHEM	ATIC	Com
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<u> </u>					1				
	1 1	<u> </u>	and the second second	e e e e e e e e e e e e e e e e e e e	.				
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	55 1		4	LSOFT & mois	† )				İ
	Rechy't		5		.				
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	<u> </u>	<u> </u>	****		1				·
	- 1	<u> </u>	outon) in the second second		.		$\checkmark$		
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	# 1				l	Phis	21,30		
0.0	35-371.	5-101	11	36' Gray Brow Clay + race + Grave			O		
<u> </u>	55		12	· · · · · · · · · · · · · · · · · · ·		* *	V	1	ŀ
	FROCAY ?		17	Gray Fine Sand (wed)		5100	> 0		
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	1						•		
	: 1					7	$\bigcirc$		
	1					ا د	1-)	'	'
	4		2 0	Gray very Fine Sand (wet) (well sorted-somewhat compact		Benbanite			
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DRILLING CONTRACTOR:  Griller: Steve Longoty  Inspector: Henry to Wise  IN Type (ME 55.				PROJECT NAME Lancate Reclanation  PROJECT NO. 5 4 012.14	Sh	eet		of	7-28 (2)
GROUND	WATER O	BSERVA	TIONS	Weather	Plot	Plan			a managaman managaman managaman managaman managaman managaman managaman managaman managaman managaman managama Managaman managaman
Water Level		İ		Date/Time Start  Date/Time Finish	1000 (Carrier of Carrier Se	e 51	heed	- No.1	
Time	4								
asing Depth	1				1				
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- Company of the Comp	Rec 5"	1	1	-					
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Aprile Total September 1997	4	<b>4</b> .							
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A A	105-6	1 7'1 C _ [ /	6   11	Gray black M-Fine Sand			U	3	
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PT- STAN	OARD PE	NETRAT WASHE		T Soll Biratigraphy Summary C • CORED					
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					CONTRACT STREET, STREE		atmentation occurrent	gathirmDoorhumahiil@ddoord	

DRILLING CONTRACTOR:	ENGINEERING-SCIENCE DRILLING RECORD		NG NO.	6 <i>u</i> -2 <i>B</i>		
ing Method	PROJECT NAME LANCASTE PROJECT NO. 57012.14		*			
	PROJECT NO. SY0/2.19					
ROUND WATER OBSERVATIONS	Weather	Plot P				
ACOND WATER OBJERVATIONS	Date/Time Start		Sec She	\$ No. 1		
ler Levell	Cate/Time Fimsh					
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ng Depth						
SAMPLE SAMPLE DEPTHS I.D. SPT			VELL SCHEMATIC	Comments		
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1-2 1 153	and is fue to coarse granes, footy	song -	u l			
Rec 16" 100/5	wit, dark gray sond and Dravel.  sond is fine to coarse grand, footy  Dravel is fire to coarse grand, poorly	sort	72	<i>i</i> '		
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	Sell Stratigraphy Summary					
T- STANDARD PENETRATION TE	Consideration of the contract		TABLES OF STREET STREET, THE STREET STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, ST			
D - DRY W - WASHED	C • CORED					
J - UNDISTURBED SS - SPL	TSPOON					

GROUND	len taken WATER OBSERVA	ATIONS	Weather Ownerst & Cora	ot Plan		11+		
Water Level Time			Date/Time Start 10/1/87  Date/Time Firsh 10/1/87		Gu-3A°			
Casing Depth					· (			
?totovec Reading	SAMPLE SAMP DEPTHS I.D.	-	FIELD IDENTIFICATION OF MATERIAL		SCHEMATIC To scale)	Comm		
			water table intersected at about 25			• .		
			water table intersected at about 25					
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	4 4		-	2	PVC			
	i			J. M.	d			
				40.7	0	-		
			- 110 F 20 0 Git See 100		7.			
			Drilled To 38.0 feet. See log 6W-3B For soil description. Borehole collapsed AT 38 feet To 33.0 feet. Wellpoint set at	Cerent	7			
	1 1		- Bulle allowed AT 3P feet To		\$9.0	, ;		
	1 1		33 a feet Welland set at	barraite				
			33.0 feet.	15		†		
	4				23.0	Ci)N		
			- 174	purk	PVC	38 (1) N		
	1			bra	0 I''	23 Well		
	19	1	material delication of the control o	1 3	n# 330	24 ~~``		
				1777	416111111	331		

DRILLING CONTRACTOR:  Driller: D. Reynolds  Inspector: W. Lilley				ENGINEERING-SCIENCE DRILLING RECORD		Sheer 1 of 4 Location South West						
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NIG 1406	<u>~</u>	USA	AND DESCRIPTION OF PERSONS ASSESSED.	PROJECT NAME DEC Phase II - Lancaster	7AL				spicareguisessimmerorem			
Drilling Meth	100 4V411	71 0 1 3	THE PERSON NAMED IN COLUMN NAM	PROJECT NO. 54 012 14	<u> </u>							
					Plot !	Plan .						
GROUND	O RETAW	BSERVAT	IONS	Weather + 41 ~   Pale / Time Start 9 / 25   87   11: 30 am   N	1 de 1			,	•			
Water Leve	11 a5 l	1		Constitute times 9 28 87	ني (		Po	Ne				
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Date	19/29				100	1	380 3A	•.				
Casing Depti		-			and the same of th		+++	+				
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Spotoare	SAMPLE	SAMPLE		FIELD IDENTIFICATION OF MATERIAL	1	MELL	SCHEMAT	ic	Comme			
Reading	DEPTHS	1.0.	SPT									
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	Te. 16"	1	6	Brown M-Fine Squd &Silf (0.	/ I		1	.				
	4	1	17	- I shall S.	12		-	1				
0.0	20-40	15.7	15	Rivery M- Fire Sand, 1. 11/12	,"	١.	1	- 1				
· , · · · ·		1	15	Brown M-Fine Sand, littles, Trace Gravel (moist					•			
	\$ 55	1	1 4		1	+		1				
	18.16"	4	14		<u>-</u> [	Smor	1	1				
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	Pec 18	4	19	Brown M-Fire Sand (moist	•)	2	asing		ł			
		1	110	Brown M-Fire Sand		4	. 1					
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	Rec 14"	<u>'                                    </u>	12				U	ļ	· .			
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	ું <del>૧</del> . (૪ '	4		_	<u>.</u> .		(4					
<u> </u>		1 C - C	, 14	Brown M-Fine Sand (Moist	. )				<b>]</b>			
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0 = OF		· WASHE	•	over Brown Sand	- Charles Court Court	to 4.	۹.'s <u>_(-</u> -	ay 50	and to 5th			
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P = P17	7 · ▲ ●	AUGER	CUTTING	S								

DRILLING CONTRACTOR:  Driller: Dave Reynolds  Inspector: W. Lilby  Rig Typo  Drilling Method	PROJECT NAME DEC Phase II - La restor	Sheet 2 of 4 Location
GROUND WATER OBSERVATIONS  Water Level! Time 4  Date 4  Casine Depth;		Plot Plan
Protovac SAMPLE SAMPLE DEPTHS LD. SPT	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC Com
0.0   20-22  S-1  7   8   8   8   8   8   1   13   8   8   13   13		Bentonite Sluvy Aug  2"ID PUC Casing  ""
SPT-STANDARD PENETRATION TE	ST Boll Birotigraphy Bummary	

GROUND WATER OBSERVATIONS  Weather Levell  Time	FIELD IDENTIFICATION OF MATERIAL  Brown M-Fine Sand I wet  Brown M-Fine Sand I wet	Plot	METT	SCHEMA	ATIC	Comme
Water Leveil Time 4  Date  Casing Depth;  Protovec  Reading  O O 40-42   S-19   14  SS 1   25  Rec 154   21  1   1   1    1   1    1   1    1   1    1   1    1   2	FIELD IDENTIFICATION OF MATERIAL		METT	SCHEMA	ATIC	:. :. Comme
Time   Date   Da	FIELD IDENTIFICATION OF MATERIAL		·	SCHEMA	ATIC	Comme
Date  asing Depth;  Photovac  Reading  SAMPLE  DEPTHS  I.D. SPT  O O 40-42   S-19   14  SS 1   25  Rec 154   21    1   1      1   1      1   1      1   1	B 100 F C Q Livie		·	SCHEMA	TIC	
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Reading DEPTHS I.D. SPT  O O 40-42   S-19   14  SS   25  Rec 154   21    1   1    1   1    1   1    1   1    1   1    27    22    1   22	B 100 F C Q Livie		·	SCHEMA	ATIC	Comme
SS   25   21   21   21   21   21   21   21	Brown M-Fine Sand Iwet Brown m J.F. a Sand	5	5	. SCHEMATIC		Commer
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00 50-5215-2117	3 roun ish grayVFine Sand little Clay (wet)			·		
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	e <b>val</b>		Sand			
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8PT-STANDARO PENETRATION TEST D • ORY W • WASHED C • CO	Soli Birotigrophy Summary					

DRILLING CONTRACTOR:  Driller: Steve Loant 2	ENGINEERING-SCIENCE DRILLING RECORD	Sheet 4 of 4.			
nibector: Henry Wise  Rig Type CM & 55.  Drilling Method 3" Flush Chisi-	PROJECT NAME DECPhase II - Lancaster PROJECT NO.				
GROUND WATER OBSERVATIONS	Weather	Plot	Plan	•	
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A . AUGER CUTTINGS

DRILLING CONTRACTOR: Driller: Dave Reynold Inspector: W. L. Wey	DRILLING RECORD S	ORING NO. 4	
Rig Type CME	Out Of The Lands of		
Drilling Method Ly' HSA	PROJECT NAME DECPhase II - Landcaster		
	PROJECT NO. 5401214	ot Plan	
GROUND WATER OBSERVATIONS	Weather	6 6 10011	
Water Levell	Date/Time Start  Date/Time Finish	See Sheet	No 1
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Rec 20" 48			
POPE STANDARD DENIETO ATTOM TO	Soll Stratigraphy Summary	Į.	
18PT- STANDARD PENETRATION TE			

DRILLING CONTRACTOR:  Driller: D. Reynolds  Inspector: W. Lilley  Rig Type CM E  Drilling Method 474" ID H5 M				PROJECT NAME DEC Phase IL - Luncus Te.	BORING NO. 4-B  Sheet 3 of 3  Location			
GROUND Water Level Time Date	WATER OF	SERVATI	ONS .	PROJECT NO. S 4012 14  Weather  Date/Time Start  Date/Time Fimsh	Plot	Plan Sec	Sheet.	No l
Photovac	SAMPLE DEPTHS	SAMPLE I.D.	SPT	FIELD IDENTIFICATION OF MATERIAL		METT :	SCHEMATIC	Comments
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Oriller:	LING CONT Dave Re W. 1 CM	eynolds Lilley		PROJECT NAME DEC Phase II - Lan caster PROJECT NO. SYO 1214	Locat	sion Pa	rhing	lot
GROUND Water Leve Time Date	WATER OF	BSERVAT	IONS .		1-1	5A°.(	) Pond	
Casing Depti	THE RESERVE AND PERSONS ASSESSED.			1	12	-++		
??.otovec Galbeer	SAMPLE DEPTHS	SAMPLE I.D.	SPT	FIELD IDENTIFICATION OF MATERIAL		WELL SCH	EMATIC	Comi
0.0	0000.0 SS Rec 7"	1	3 25 25 13	Brown Sand + Gravel little Silt (Fill) (wet)				
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0 0	120 -2: 1 55 Rec 22	1 9 1 5 - 5	9 11 14 16	Brown - M-F Sand (moist)		4	Benton Pelle 21'	7
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Oriller: D	w. L	nolds iller		ENGINEERING-SCIENCE DRILLING RECORD	BORING NO. 5 A Sheet 2 of 2 Location			
Rig Type Dr:Iling Heth	00 4 Yz	HSA		PROJECT NAME DEC Phase VI - Lancaster PROJECT NO. 54012 14	-   -		n pilony, mykdy li Mildyndy y gyyddyr ar fonyllwyd acceddinaidd y gleiddin a differ y bennin dy gleiddin a differ y bennin dy gleiddin a differ y bennin dy gleiddin a differ y bennin a differ	
GROUND Water Level Time Date	WATER OF	ATER OBSERVATI		Weather		Plot Plan  See Shect No!		
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0.0	36-37 SS Rec24	1 1 1 1 5-7 1 "1	1 10 16 16 130		ed)	Ų	3	
	1	1		Boring Terminated at 33'	•	Í		
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PLACE
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PHONE CALL TO W. Frey Well DAILING PHONE NO. (716) 937-7977
PHONE CALL FROM W. Back ford
PILE DESIGNATION TELE TOP 3 O DATE 5/2/88 TIME 10:30
El: 310/5 ON 800
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TABLE IV-4

WATER LEVEL DATA

LANCASTER RECLAMATION SITE

				,	Water Level Data					
	Ground	Top of PVC	Well Screen		Date 10/			/18/88		
Well I.D.	Surface Elevation (Feet*)	Well Pipe Elevation (Feet*)	Interval Elevation (Feet*)	Stratigraphic Unit Screened	Depth to Water Level (Feet**)	Water Level Elevation (Feet*)	Depth to Water Level (Feet**)	Water Level Elevation (Feet*)	.,	
1A	398.7	400.7	393.7 - 388.7	Outwash Sand	4.2	396.5	2.1	398.6		
18	398.4	400.5	333.8 - 323.8	Till and Ice Contact	22.9	377.6	21.9	378.6		
2B	397.3	399.3	335.3 - 325.3	Till and Ice Contact	22.1	377.2	20.9	378.4		
3A	402.0	404.5	379.0 - 369.0	Outwash Sand	28.0	376.5	27.3	377.2		
3B	401.9	404.4	352.4 - 342.4	Till and Ice Contact	28.1	376.3	27.3	377.1		
4B	403.1	405.8	351.1 - 341.1	Till and Ice Contact	29.0	376.8	28.0	377.8		
5A	401.2	403.2	378.2 - 368.2	Outwash Sand	27.0	376.2	26.3	376.9		

<sup>\*</sup> Referenced to an assumed datum.



<sup>\*\*</sup> Water level depth from top of PVC well pipe.

# BUFFALO & DRILLING & COMPANY INC.

1965 Sheridan Drive Kenmore, New York 14223 (716)-875-0906

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foundation test borings rock coring • monitoring wells geotechnical instrumentation construction dewatering

GEOTECHNICAL REPORT

AUG 23 1984

N MEGION OF MEADQUARTERS INVESTIGATION AND INTERPRETATION  $\kappa_{\xi \widetilde{G}'_{O/V}}$ οf SUBSURFACE CONDITIONS for

LANCASTER RECLAMATION SITE

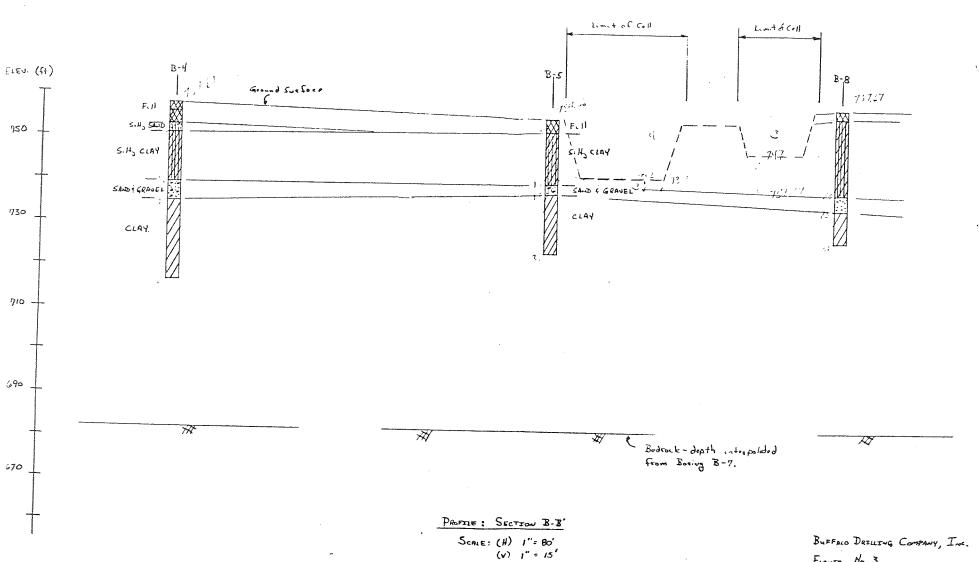
submitted to:

Lancaster Reclamation Company

prepared by:

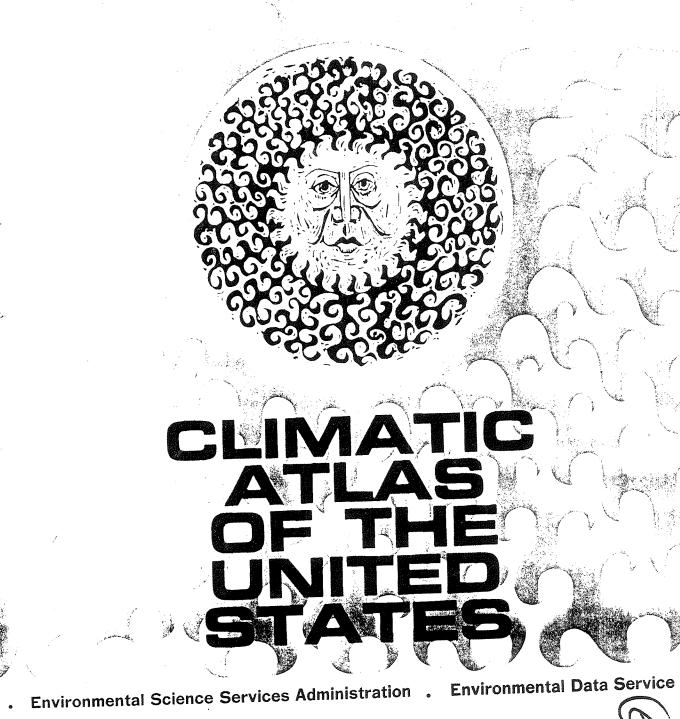
Mr. James S. Barron, P.E.

Job No. 84-115 August 6, 1984

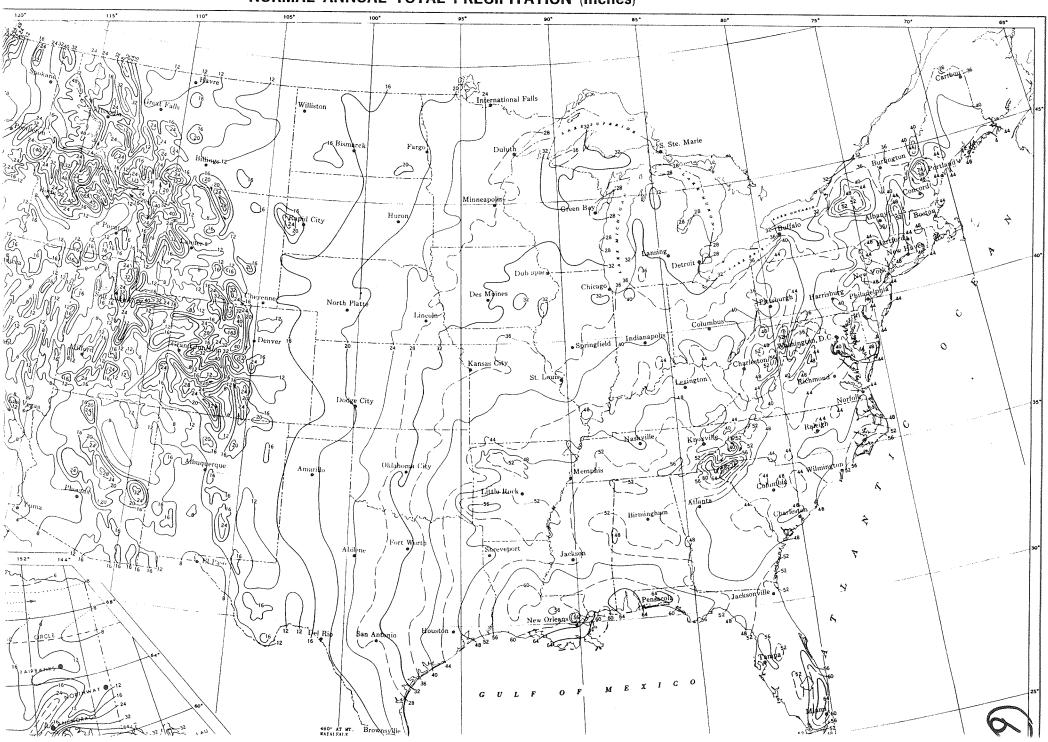


BUFFALO DRILLING COMPANY, INC. Figure No. 3

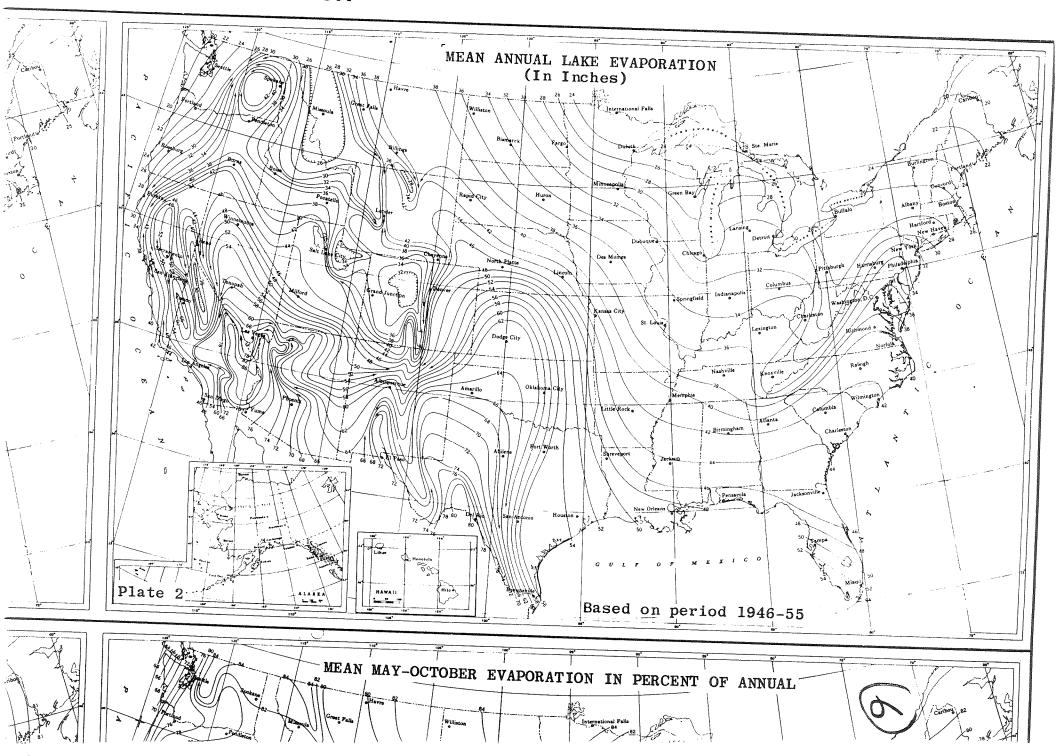
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### NORMAL ANNUAL TOTAL PRECIPITATION (Inches)



### AN AND LAKE EVAPORATION







#### PERMEABILITY TEST DATA ASTM D-2434

DATE:12-30-87

Chamber No.:2

Undisturbed

Client: Engineering Science

Project No.:870834

Location:Lancaster Reclamation

Tested by: S. Patel

Boring No.:1-A

Sample No.: N/A Depth: 12 to 14 feet

I 	nitial	-	Final	Test Pressures	(psi)
Ht.(ins)=	3.6	Ht.(ins)=	3.6	Chamber=	60
Di.(ins)=	2.8	Di.(ins)=	2.8	Lower=	50
Wt.(gms)=	845.5	Wt.(gms)=	850.1	Upper=	40

Duration of Test (min) = 670.0

PERMEABILITY (cm/s) = 2.21E-8





#### PERMEABILITY TEST DATA ASTM D-2434

DATE:12/15/87

Chamber No.:1

Undisturbed

Client:Engineering Science Project No.:870834

Location:Lancaster Reclamation

Tested by:S.Patel

Boring No.:2-B

Sample No.: N/A Depth: 17 to 19 feet

]	Initial		Final	Test Pressures	(psi)
Ht.(ins)=	3.6	Ht.(ins)=	3.6	Chamber=	60
Di.(ins)=	2.9	Di.(ins)=	2.9	Lower=	50
Wt.(gms)=	785.5	Wt.(gms)=	792.8	Upper=	40

Duration of Test (min) = 915.0

PERMEABILITY (cm/s) = 1.97E-8

### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF HAZARDOUS WASTE REMEDIATION INACTIVE HAZARDOUS WASTE DISPOSAL REPORT



CLASSIFICATION CODE: 2a

REGION: 9

SITE CODE: 915069 EPA ID: NYD000513911

ZIP:

NAME OF SITE : Lancaster Reclamation

STREET ADDRESS: 403 Pavement Rd.

TOWN/CITY:

COUNTY:

Erie

Lancaster

Structure- Lagoon- Landfill-X Treatment Pond-

SITE TYPE: Open Dump-ESTIMATED SIZE: 10 Acres

SITE OWNER/OPERATOR INFORMATION:

CURRENT OWNER NAME....: Lancaster Reclaimation

CURRENT OWNER ADDRESS .: 403 Pavement Rd., Lancaster, NY

OWNER(S) DURING USE...: Lancaster Reclamation Inc. OPERATOR DURING USE ...: Lancaster Reclaimation Inc.

OPERATOR ADDRESS.....: 403 Pavement Road, Lancaster, NY

PERIOD ASSOCIATED WITH HAZARDOUS WASTE: From

SITE DESCRIPTION:

Former sand quarry. Foundry sand, diatomaceous earth, distressed oils are disposed. Site presently inactive, Part 360 application submitted to the Department and under review for upgrading the site. Phase I investigation for this site has been completed. A Phase II investigation for this site is underway.

HAZARDOUS WASTE DISPOSED: Confirmed-X TYPE

Suspected-QUANTITY (units)

Foundry sand w/phenolic binders Sludges of Diatomaceous Earth Distressed Oils .

Unknown Unknown Unknown

SITE CODE: 915069

ANALYTICAL DATA AVAILABLE:

Air- Surface Water- Groundwater-X Soil-X Sediment- None-

CONTRAVENTION OF STANDARDS:

Froundwater- Drinking Water- Surface Water-

LEGAL ACTION:

TYPE ..:

State-

Federal-

STATUS: Negotiation in Progress-

Order Signed-

REMEDIAL ACTION:

Proposed- Under design- In Progress- Completed-

NATURE OF ACTION:

GEOTECHNICAL INFORMATION:

SOIL TYPE: Sandy

GROUNDWATER DEPTH: 12+ ft.

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Inadequate data to assess environmental problems.

### ASSESSMENT OF HEALTH PROBLEMS:

Medium	Contaminants Available	Migration Potential	Potentially Exposed Population	Need for Investigation
Air	Likely	Likely	Yes	High
Surface Soil	Likley	Unlikely	yes	Medium
Groundwater	Identified	Highly Likely	Yes	High
Surface Water	Likely	Unlikely	No	Low

Health Department Site Inspection Date: 7/85

MUNICIPAL WASTE ID: 15-S-08

#### RESTRICTED-USE LANDFILL SITE

For

LANCASTER RECLAMATION COMPANY
(Formerly Ferry Concrete Construction Co., Inc.)
403 Pavement Road
Lancaster, NY 14086

Ву

WENDEL ENGINEERS, P.C.
Consulting Engineers/Planners/Surveyors
7405 Canal Road
Lockport, New York

Project No. 1911-2 May 1979

### TABLE OF CONTENTS

TOTAL TO	
TITLE	PAGE NO.
BACKGROUND	2 thru 4
SITE DESCRIPTION	4 thru 6
OPERATION PLAN	5 thru 7
CONTINGENCY PLAN	) thru /
CONTINGENCY PLAN	thru 8
MARKETING	8
TABLE OF APPENDICIES	

#### BACKGROUND

It will be the purpose of this report to develop a physical plan for the implementation of an existing restricted—use landfill for the private use of the Owner/Operator, Lancaster Reclamation Company. At present, the type of waste to be dumped at this landfill is: (1) A slurry consisting of Bentonite Clay in a 90% water mixture that has been coagulated with a poly-electolite to a gelatinous percipitate (see Appendix 2); (2) Slurry composed of portland cement, asbestos fibers and glass fibers (see Appendix 8); (3) Spent casting sand including broken brick (see Appendix 10) and (4) Sand fines (slurry) from foundry wastewater treatment (see Appendix 6). The slurry wastes will be hauled to the site in dump trucks with sealed bodies to prevent leakage. The foundry sand will be hauled in covered dump trucks to eliminate blowing sand during transport.

The estimated total quantity of waste that can be presently handled at the site, excluding the pond and shallow surface water holding pond, is 81,000 cubic yards. Based on the present combined quantity of dry and dewatered industrial wastes, the life expectancy of the site would be approximately 6.5 years. If the Owner elects not to accept any one or more of the previously mentioned wastes the life expectancy of the site will be increased and the report data pertaining to life expectancies would have to be revised at that time.

Calculations for life expectancy are based on the following quantities of wastes:

Bentonite Clay Slurry - 20,400 cy/yr.  $\times$  10% solids = 2040 c.y. solids/year

Asbestos Cement/Glass fiber Slurry - 20,400 gal./yr.  $\times$  35% solids = 7140 gal. solids/202 gal. per cy = 35 c.y. solids/yr.

Foundry Wastewater Treatment Slurry - 2,400,000 gal./yr. x 35% solids = 840,000 gal. solids/202 gal. per c.y. = 4160 c.y. solids/yr.

Foundry sand - 6000 cy/yr.

2040 cy + 35 cy + 4160 cy + 6000 cy = 12235 cy/yr. total solids

Total number c.y. acceptable at site =  $\frac{81,000 \text{ cy}}{12,235 \text{ cy/yr}}$  = 6.5 yrs. if all anticipated industrial wastes are accepted.

Lonc Rec

## RESTRICTED USE LANDFILL PERMIT UPDATE

FOR

LANCASTER RECLAMATION COMPANY
403 PAVEMENT ROAD
LANCASTER, NY 14086

PERMIT NO: DEC: 2021 SITE NO: DEC 15 S 08

PER OCTOBER 25, 1979 APPROVAL AND JUNE 21, 1979 REPORT WENDEL ENGINEERS

6/22/84





It is expected that any water encountered above bedrock is traped or perched in localized pockets. Natural groundwater most likely moves at the bedrock interface. The ponds on site are symptomatic of this effect.

The underlaying clay is a stiff (ML - CL) plastic to moderately plastic soil which will exhibit low permeability in the  $10^{-8}~\rm cm/sec$  or lower range.

Occassional sand, and sand-gravel seams were encountered on-site and all the likely conductors of the shallow acquifers that recharge the ponds, and most likely the well in the barn.

Our conclusion from the 8 test borings and trenches is to place the waste cells in the clay areas as proposed and install a clay cut off wall north to south through the sand-gravel lense into the deeper clay level to isolate horizontal migration into the acquifer area.

It is proposed to abandon the east well and install a new well to bedrock to more accurately monitor groundwater quality. It is felt from field observations the current east well only monitors surface water recharge, explaining the intermittent phenol elevations, due to natural surface causes, ie., leaf rot.

Two additional wells should be installed, one on the north and south perimeters, again to bedrock to monitor quality and establish actual hydraulic gradients of the site.

### WASTE CELLS

It is intended to continue disposal into open cells of natural material bases and side slopes. Siurries will be disposed in the cells for settling and hydraulic compaction. Dry wastes will be spread and compacted and covered. Waiver of daily cover is requested on slurries disposed. When final grade is reached, a final cover layer will be placed with a 6 inch layer of topsoil graded to drain, seeded and fertilized.

Cells will be graded to drain to a low point (sump) for collection of precipitation, decanted liquid and any leachate generated. Leachate disposal is proposed to be by land application, spray irrigation, seasonally over the wooded and vegetated area of the site to maximized evapotranspiration and percolation in the graded overburden.

Cell 3 will be drained to Cell 4 by piping for collection and pumping future cells can be individually sumped.

Where periodic tests indicate contamination, collection, transport and disposal at a proper wastewater treatment plant will be utilized.



### Uncontrolled Hazardous Waste Site Ranking System

A Users Manual (HW-10)

Originally Published in the July 16, 1982, Federal Register

United States Protection Agency

1984



Table I (cont.)

Chemical/Compound	Ground Wat Surface Wa Pathway Va	ter A	Mir Pathway Values
Fluorine	18		9
Formaldehyde .	9		9
Formic Acid	9		6
Heptachlor	18		9
Hexachlorobenzene	15		6
Hexachlorobutadiene	18		9
Hexachlorocyclohexane, NOS	18		9
Hexachlorocyclopentadiene	18		9
Hydrochloric Acid	9		6
Hydrogen Sulfide	18		9
Indene	12	-	6
Iron & Compounds, NOS	18		9
Isophorone	12		6
Isopropyl Ether	9		3
Kelthane	15		6
Kepone	18		9
Lead	18		9
Lindane	18		9
Magnesium & Compounds,			
NOS	15	•	6
Manganese & Compounds,			•
NOS	18		9
Mercury	18		9
Mercury Chloride	18	-	9
Methoxychlor	15		6
4, 4-Methylene-Bis-(2-			•
Chloroaniline)	18	•	9
Methylene Chloride	12	•	6
Methyl Ethyl Ketone	6		6
Methyl Isobutyl Ketone	12		6 .
4-Methyl-2-Nitroaniline	12		9
Methyl Parathion	9		9
2-Methylpyridine	12	***	6
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Professional judgmost based on information contespeed in the U.S. Coast Guard CHMIS Massadous Chemical Date, 1978.

Ancional Fire Protection Association, Marional Fire Codos, Vol. 13, No. 49, 1977.

Same Associates, Inc., Methodology for Rating the Barard Potential of Mente Disposal Sites, May 5, 1980.

Sens, N. 1., Dengerous Properties of Industrial Mesertals. The Year Mostrand Sheinhold Co., New York, Ath ed., 1975. The highest reting listed under each chemical is used.

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#### **TABLE IV-5**

### SUMMARY OF WASTES DISPOSED AT THE

### LANCASTER RECLAMATION COMPANY SITE

Date Permit Approved	Generator	Waste Type	Quantity Disposed (1)	Constituents Of Concern
5/11/76	Dresser Trans- portation Equipment Division	Bentonite Clay Slurry	76,000 cu. yd. Prior to Thickening	Leachate: Zinc
1/24/78	Chevrolet Division General Motors	Foundry Sand Slurry	1.7 Million Gallons	Pit: Oil Pit Leachate: Selenium, Cadmium Mixture: Oil, PCB Mixture Leachate: Cadmium, Lead
1/4/79	Fabritron	Cement, Asbestos, and Glass Fiber Slurry	7,000 Gallons	Asbestos
5/11/76	Dresser Trans- portation Equipment Division	Foundry Sand	2,200 cu. yd.	Leachate: Phenois
6/16/81	Reed Holdings	Surface Print Waste, Prepaste Polymer, Prepas Alkali	120,000 Gallons te	· 
10/29/80	Dresser Trans- portation Equip- ment Division	Shot Blast of Steel Castings	Mixed with Foundry Sand	Leachate: Phenols
5/27/82	Sweet Home Central School Bus Garage	Dirt and Sludge From Catch Basin	See Below	- Sludge: Oil
7/7/83	Ormsby Vocational School Bus Garage	Dirt and Sludge From Catch Basin	9,000 cu. yd., Includes Sweet Home	Heavy Metals and Oil and Grease

<sup>(1)</sup> Based on telephone interview with J. Ferry of Lancaster Reclamation, Inc., 4/25/85.

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TYPLICATION INSTRUCTIONS ON REVERSE SIDE  NAME OF PROJECT/FACILITY	12 COUNTY	3. SITE NO.	H. APPLICATION S
ncaster Reclamation Company	Erie	15508	6
Lancaster Reclamation Company	6. ADDRESS (Street, City, State, Zip 6 403 Pavement Rd., Lan	caster, New York	7. TELEPHONE NO. 684-1703
ME OF OPERATOR	9. ADDRESS (Street, City, State, Zip	lode)	10. TELEPHONE NO Same
me as above .	Same as above		- Committee - Comm
METHOD OF TREATMENT OR DISPOSAL		,	
gooning			
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WPANY GENERATING WASTE		GENERATING WASTE (Street, Ci	
Dresser Transportation Equipment Divi			14043
RESENTATIVE OF WASTE CENERATOR	15. MAILING ADDRESS OF REPRESENT		16. TELEPHONE NO
E. Eicheldinger	2 Main Street, Depew,	New York 14043	716-683-6000
DESCRIPTION OF PROCESS PRODUCING WASTE	•	•	
i st collection during shot blasting o	of our low carbon mild stee	l castings.	
CA ECIED MINIONE MINISTER MODDEMON	WASTE HAULED IN	Rulk	Truck
215 cu. York year Gallons/Year	☐ Drums ☐ Bulk Tank ☐ Roll-off C	outsinet Clothet	
STE COMPOSITION  a. Average Percent Solids 10 % D. Physical St.		Contained Gas	10
4. VAGIABE LAICEUR JOING?		NCENTRATION (Dry Weight)	UNIT (Check One
d. COMPONENTS	Upp		Wt. % PP
See attached "Leaching Potential T			
, solids before it is added to slurr	y shown on application		c c
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			C C
s a Leaching Potential Test conducted on the Wastel & Ye	s No If "Yes", attach a Leaching P	otential Test Report Form	
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S a Leaching Potential Test conducted on the Wastel 区 Ye DETAIL ALL HAZARDS AND NUISANCE PROBLEMS ASSOCIATE NONE  AME OF WASTE HAULER  24. ADD	ED WITH THE WASTES. List necessary safety.  RESS (Street, City, State, Zip Code)	handling, treatment and dispos	sal precautions.
S a Leaching Potential Test conducted on the Wastel & Ye  DETAIL ALL HAZARDS AND NUISANCE PROBLEMS ASSOCIATE  NONE  AME OF WASTE HAULER  Ferry Concrete Constr. Co. 3179	RESS (Street, City, State, Zip Code) Walden Ave., Depew, N.Y.	25. N.Y.S. Registration No. 9A-061	26, TELEPHONE NO.
S a Leaching Potential Test conducted on the Wastel & Ye  DETAIL ALL HAZARDS AND NUISANCE PROBLEMS ASSOCIATE  NONE  AME OF WASTE HAULER  Ferry Concrete Constr. Co. 3179  EXTIFICATION  I bereby affirm under penalty of perjury that information	RESS (Street, City, State, Zip Code) Walden Ave., Depew, N.Y.  provided on this form and attached statemen	25. N.Y.S. Registration No. 9A-061	26, TELEPHONE NO.
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MULIALE LE PRIMERIL OF ETVINGRANCE LUNGERVANION LEACHING POTENTIAL IT REPORT DEPART DATE Devorage ] Disapproved STRUCTIONS ON REVERSE SIDE Z. COUNTY 3. SITE NO. 4. APPLICATION NO DE PROJECT/FACILITY 15508 Erie a: aster Reclamation Company 6. ADDRESS (Street, City, State, Zip Code) 7. TELEPHONE NO. ME OF OWNER 684-1703 403 Pavement Rd., Lancaster, New York aster Reclamation Company 10. TELEPHONE NO. 19. ADDRESS (Street, City, State, Zip Code) A OF CPERATOR Same Same as above me as above 12. ADDRESS OF FACILITY CENERATING WASTE (Street, City, State, Lip Code) MP INY CENERATING WASTE 2 Main Street, Depew, New York 14043 ser Transportation Equipment Division 14. MAILING ADDRESS OF REPRESENTATIVE 15. TELEPHONE NO. RESENTATIVE OF WASTE GENERATOR 2 Main Street, Depew, New York 14043 V16-683-6000 E. Eicheldinger IAMPLES TAKEN 117. SAMPLES TAKEN BY (Name and Employer) A. E. Eicheldinger 19. ADDRESS (Street, City, State, Zip Code) CANIZATION PERFORMING ANALYSES West Cordon Street at Clark Lane, Bradford, Pa. 16701 abs, Inc., Teck: Labs Division 22. TELEPHONE NO. ENTATIVE OF ORGANIZATION PERFORMING ANALYSES 21. TITLE 814-368-6087 hn S. Mitchell Director SES OF LIQUID ERACTION: Sample 3 \_ pH: Sample 1\_ Sample 2 UNIT (Check One) CONCENTRATION COMPONENT Samole 2 Samole 3 Wt. % PPM Sample 1 . 🗆 ALLISES OF SOLIDS FRACTION: Percent Solids: Sample 1. 100 100 100 Sample 3 \_ Sample 2\_ UNIT (Check One) CONCENTRATION (Dry Weight) COMPONENT PPU Samole 1 Sample 2 41. % Total Chromium 0.0210 0.0225 0.0263 $\mathbf{C}$ 7.0 CHING TEST ON SOLIDS FRACTION: 6.9Sample 3 . pH: Sample 1\_ Sample 2 .... UNIT (Check One) CONCENTRATION COMPONENT PPY Sample 1 Sample 2 Sample 3 Wt. % Total Iron 1.09 0.560.410.009 0.007 0.006 Chromium 0.0090.004 0.018 Manganese 0.94 0.66 0.64 Molybdenum a 25.17 20.1224.16. Carbon Total Organic 0 1.87 1.87 1.96 Silicon HOATION hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits is true to the best of my knowledge and ief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. NATURE AND STILL OF REPRESENTATIVE OF WASTE CENERATOR SUPR, WKS. che amo CF REFFESENTATIVE OF TREATMENT OR DISPOSAL FACILITY DATE

### STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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SITE NO.	APPLICATION NO.	DATE RECEIVED
DEPARTMENT ACTION	) N	DATE / / -/(-)
Approved [	] Disapproved	6/12/3/

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DUSTRIAL OR HAZARDOUS WAS	IE 21 VEYN	Appro			6/15/51
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CATION INSTRUCTIONS ON REVERSE SIDE		2. COUNTY	I3. SITE	NO.	4. APPLICATION NO.
ME OF PROJECT/FACILITY		Erie	15-		Ģ
measter Reclamation Co.	I 6 A DIDRESS (Stra	et, City, State, Zip Co			7., TELEPHONE NO.
AME OF OWNER	0. ADDRESS (SILE	nt Rd Lanca	eter N Y		71884-9624
ame As Above	ADDRESS (Stro	et, City, State, Zip Co	de)	,000	10. TELEPHONE NO.
NAME OF OPERATOR	Same As		ue,		-684-1703 .
ne As Above	Jame as	anove		, , , , , ,	1
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COMPANY GENERATING WASTE	113. AD	DRESS OF FACILITY G	ENERATING WAS	TE (Street, Ci	ty, State, Zip Code)
Reed Holdings, Inc.	27-	75 Rooadway	xoll.O.T	27) Bf	10,11, Y, 14240
4. REPRESENTATIVE OF WASTE GENERATOR	15, MAILING ADD	RESS OF REPRESENTAT	IVE		16. TELEPHONE NO.
t .	Same As			716	-891-8334
John J. Davern DESCRIPTION OF PROCESS PRODUCING WASTE		· ·			
Sludge Residue from surface pri	int production	on			
			·		<del></del>
EXPECTED ANNUAL WASTE PRODUCTION 19.	WASTE HAULED IN				
Tons/Year 2400. Gallons/Year		Tank Roll-off Con	ntainer 🗍 Oti	c. pH Range	
20. WASTE COMPOSITION 20 b. Physical St			ontained Gas	7	10 8
	d Slurry EX Sluc			an Mariabet	UNIT (Check One)
2L, d. COMPONENTS		CON Uppe	CENTRATION (D	Typical	Wt. % PPM
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<sub>1)</sub> S <u>ee Attachments</u>				<del></del>	
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3)				* *************************************	
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6)				Challam to have an experience of the control of the	
7)		many depth of the contract of		<del></del>	
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21. Was a Leaching Potential Test conducted on the Waste? 🔯 Yo		, attach a Leaching Po			
DETAIL ALL HAZARDS AND NUISANCE PROBLEMS ASSOCIAT	ED WITH THE WASTES. I	ist necessary safety,	handling, treatm	ent and dispo	sal precautions.
T				•	
None					
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23. NAME OF WASTE HAULER 24. ADI	DRESS (Street, City, Sta	te, Zip Code)	25. N.Y.S. Reg	istration No.	
	Pavement Rd.	Lanc.N.Y.	XX	11026	684-9624   584-1703
CENTIFICATION		14086		**************************************	
I hereby affirm under penalty of perjury that information	provided on this form a	and attached statement	s and exhibits is	s true to the b	est of my knowledge a
beiref, false statements made herein are punishable as a Cl	lass A misdemeanor pur	suant to Section 210.4	of the Penal La	w.	
THE COURT OF MEDICENTATION OF WASTE C	ENERATOR				DATE
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CHATCHE AND THE OF REPRESENTATIVE OF TREATME	NT OR DISPOSAL FACIL	YTL			DATE
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			2115 14	,	W. LEICK	1011 110.	DATE REC	
APPLICATION FOR TREATME	N. OR DISPO	SAL OF AN		\ 		ļ		
· INDUSTRIAL OR HAZARI	DOUS WASTE	STREAM	¥	TMENT ACTIO	)N 7 Disappro	1	DATE	117
	<i>3</i> 1		[ U'	oproved [	JUISAPPIO	ved j		<del>-</del>
E APPLICATION INSTRUCTIONS ON REVERSE SID	) E		2. COUNTY		3. SITE NO	).	4. APPLI	CATION NO
NAME OF PROJECT/FACILITY Lancaster Reclamation Co	`	1	Erie		15-S	08	10	
NAME OF OWNER		6. ADDRESS (Stree	THE RESERVE THE PROPERTY OF THE PARTY OF THE	p Code)	denne de la companya de la companya de la companya de la companya de la companya de la companya de la companya	THE PERSON NAMED IN COLUMN 2 I		HONE NO.
Lancaster Reclamation Co	) .	403 Paven			er,N.	Υ.	684-	9624
NAME OF OPERATOR	A pro-pagago de condicione por amorar amb acusta de como accomisco como escaladad.	9. ADDRESS (Street		p Code)				HONE NO.
Same as above		same as a	bove				684-	1703
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Lagooning								
			DRESS OF FACILI	TV CEVEDATO	UC WASTE	(Street Ci	tu State	7in Code)
2. COMPANY GENERATING WASTE		1						aip code,
General Motors CorpChev	<u>rolet Meta</u>	1 Casting	LODAW	anda, l	Y . I .	141	16. TELEP	HONE NO.
4. REPRESENTATIVE OF WASTE GENERATOR		same as a					879-	5150
William Newstead  DESCRIPTION OF PROCESS PRODUCING WASTI	<u> </u>			<u>urar companya da companya da manda da manda da manda da manda da manda da manda da manda da manda da manda da m</u>	<del></del>	And the Control of th		
waste molding and core	sands from	gray iron	casting	manufa	cturi	ng ind	cludir	ıg
washed sands from sand	reclamation	process.						
3. EXPECTED ANNUAL WASTE PRODUCTION		E HAULED IN						
	ns/Year	Drums Bulk 1	ank 🔲 Roll-off	Container			Dump	Truck
O. WASTE COMPOSITION	, b. Physical State					pH Range	•-	
a. Average Percent Solids%	Liquid	Storry   Stude		Contained			to	`h - al- () - a
). d. COMPONENTS				CONCENTRAT Ipper l	(ION (Dry ) Lower	Veight) Typical	Wt. %	Theck One) PPM
" See Attachments	11		_	•	- Control of the Cont			
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7)		and pulse live and a second second second second second second second second second second second second second				**************************************		
	<b></b>	Chie If West!	attach a Leachin	e Potential Te	st Report F	orm		
21. Was a Leaching Potential Test conducted on t		_					al procaut	ione
2. DETAIL ALL HAZARDS AND NUISANCE PROB	LEMS ASSOCIATED W	ITH THE WASTES. LI	st necessary sale	ety, nanoung,	treatment	and dispos	sai piecaui	10113.
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			7:- ( - 4-)	IZE NV	.S. Registra	ation No.	26. TELE	PHONE NO.
23. NAME OF WASTE HAULER	1	(Street, City, State		į	.s. kerisii .061	111011 140.	684-	
Ferry Concrete Const.Co.	Inc   31/9	Walden Av	nepew, N.	v. J 7A.	OOT		100-	~ 1 \
7. CERTIFICATION  I hereby affirm under penalty of perjury	that information prov	ided on this form an	d attached states	nents and exh	ibits is tru	e to the be	est of my k	nowledge a
hellef False statements made herein are pur	nishable as a Class /	A misdemeanor pursu	ant to Section 21	0.45 of the P	enal Law.		DATE	
a. SIGNATURE AND TITLE OF REPRESENTATI	VE OF WASTE GENER	ATOR					12-	7-11
X Muleuslie	ME OF TREATURNET O	P DISPOSAL EACH	TY				DATE	
b. SIGNATURE AND TITLE OF REPRESENTAL	VE OF TREATMENT O	r disposal facili Own	er er				12-4	4-81
		OWII	C T					

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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APPLICATION NO. DATE RECEIVED

### MEMORANDUM TO FILE

	JOB NO. <u>SYO12-14</u>
	FILE DESIGNATION TELECON
	DATE 4/29/88 TIME 10=20
HONE CALL FROM W. Bradford (ES)	) PHONE NO
HONE CALL TO ROSE Armitage	PHONE NO. (716) 937-9286
HONE CALL TO	
ONFERENCE WITH	•:
LACE	
UBJECT Water Sources in T	our of Alden
UBJECT VOA	To Alden
(R.A. works at the	111) - Cafe
Supervisor's office;	++1e_: Con 11
dential Secretary an	d Bookkeepen to
the Supervisor)	
Tackel PA .	2 any of the people.
1 as real h.M.	1 +1
on Zoeller Rd. (ju	st north of water
Are) Westwood Ro	d. (just east of
Town Line Rd	or Kieffer Rd (just
east of Town Line	Rd) relied on
EAST BI TO A LIN	king. She said yes,
well water for aria	King. She
that they all di	1 0
	10 1 11
SICNE	1) Rucher

8-0 B 8 6 6 F.

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### INTERVIEW FORM

INTERVIEWEE/CODE Virginia Campbell /
TITLE - POSITION Water District Clerk
ADDRESS 1 Town Pl. Att: Water Department
CITY Clarence STATE NY ZIP 14031 -
PHONE (716) 741-3263 RESIDENCE PERIOD TO
INCATION: Telephone INTERVIEWER W. Bradford
DATE/TIME 4/29/88 / 10:00 AM
SUBJECT: Water sources
SUBJECT. VOW. S STORY
REMARKS: Residents of Wehrle Dr. (east
end), Shisler Rd. (just north of I 90),
and Ransom Rd. (north of I 90) receive
water from the Water Department. Resi-
dents on Tillman Rd rely on well
water for drinking.
addition
Note: There are no resident on Shishler ad
north for any 314" from the I 90. but the rest
is correct by our hoster sugges.
·
I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:
SIGNATURE: Vingonia M. Campbell.
COMMENTS: ·
0



### MEMORANDUM TO FILE

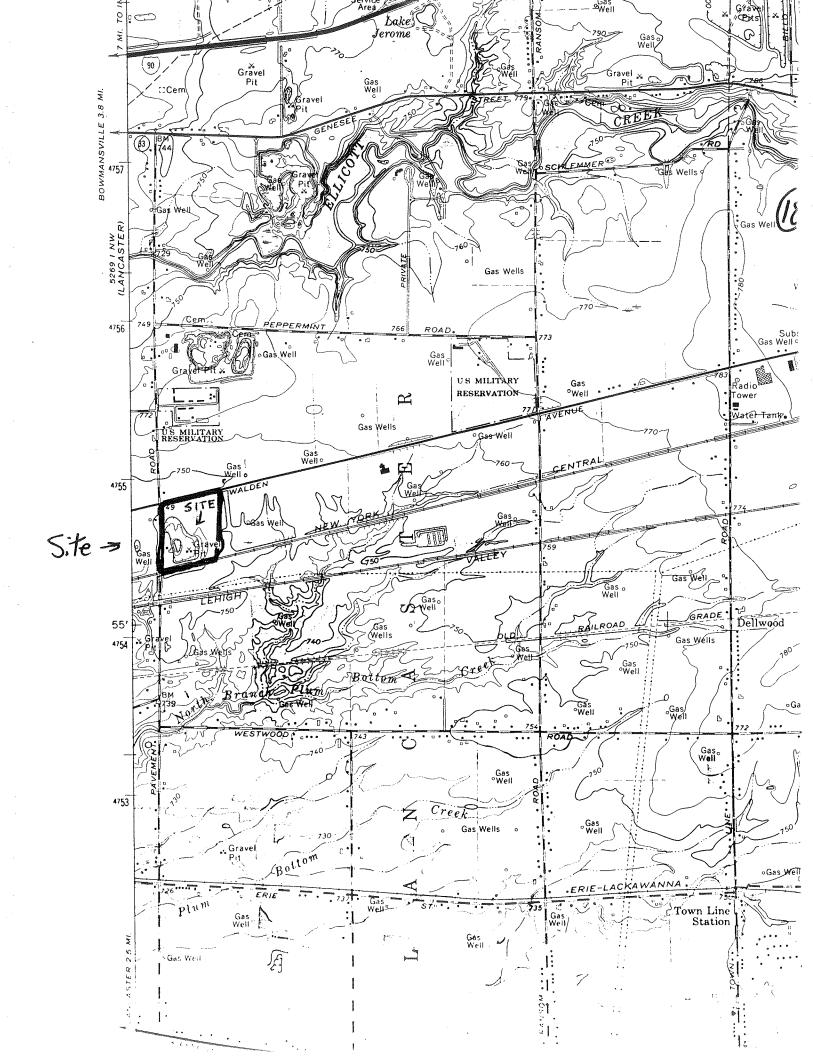
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1 "	
No.	STATE OF THE PARTY

	JOB NO. $57012.14$ ,  FILE DESIGNATION TELECON  DATE $4/29/88$ TIME $9:45$
HONE CALL FROM W. Bradford (ES) HONE CALL TO Stan Keysa, Town of caster Supervisor	PHONE NO
CONFERENCE WITH	
SUBJECT Water Sources in To	un of Loncaster
	if there were any
people in the Ton	on well water for
drinking. He cai	d no, that water y water Authority
was available to	everyone.
•	
	·
SIGNED	L. Burlow



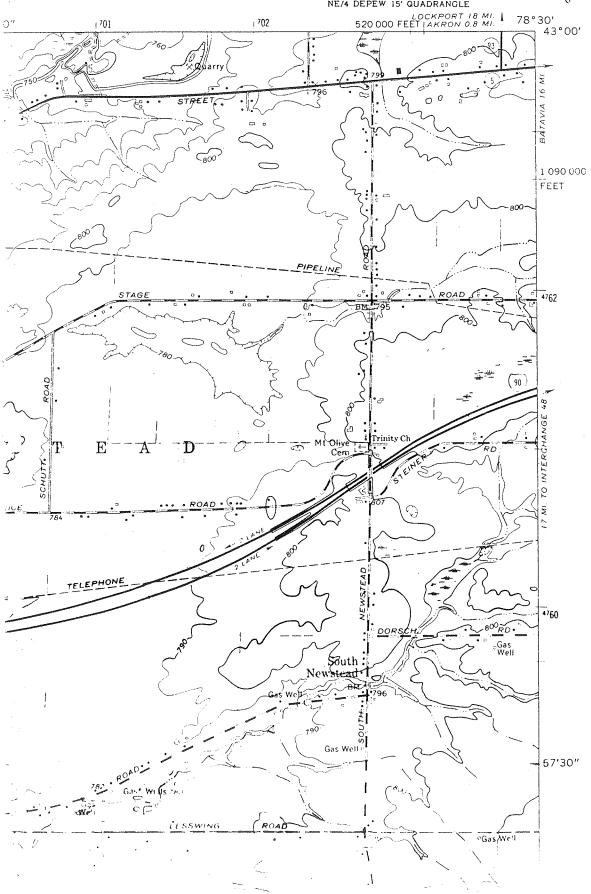
# MEMORANDUM TO FILE -

COMPANIES	$\sim$ 71
JOB NO. 54	012.14 (NYDEC Phase II)
FILE DESIGNA	TION Lanccaster Rec.
	/88 TIME <u>330 PM</u>
PHONE CALL FROM Michele Anatra	PHONE NO
	PHONE NO. 716 - 846-7677
PHONE CALL TO RON KOCZAja  Erie Co. DOH	
CONFERENCE WITH	
PLACE <u>Phone Conversation</u>	
SUBJECT Water Supply within a 3 mile ra	dius of the
Lancaster Reclamation site on	Pavement Road
in the town of Lancaster	
Mr. Koczaja indicated that pe	eblic evater
residents in question within	vailable to the
residents in question within	the last
year or so Prior to that	time everyone
within the opecified radius	
private wells. Nr. Koczaja	
even though public water i	vas available,
many recidents continue to	
private wells, the agreed to	had for
purposes of HRS scoring	it would be pale
(and conservative) to accumi	that everyone
io still on private willo	/ .
I grigation by wello is w	ntiloetu
	7.
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SIGNED 47/10/4	le Anatra

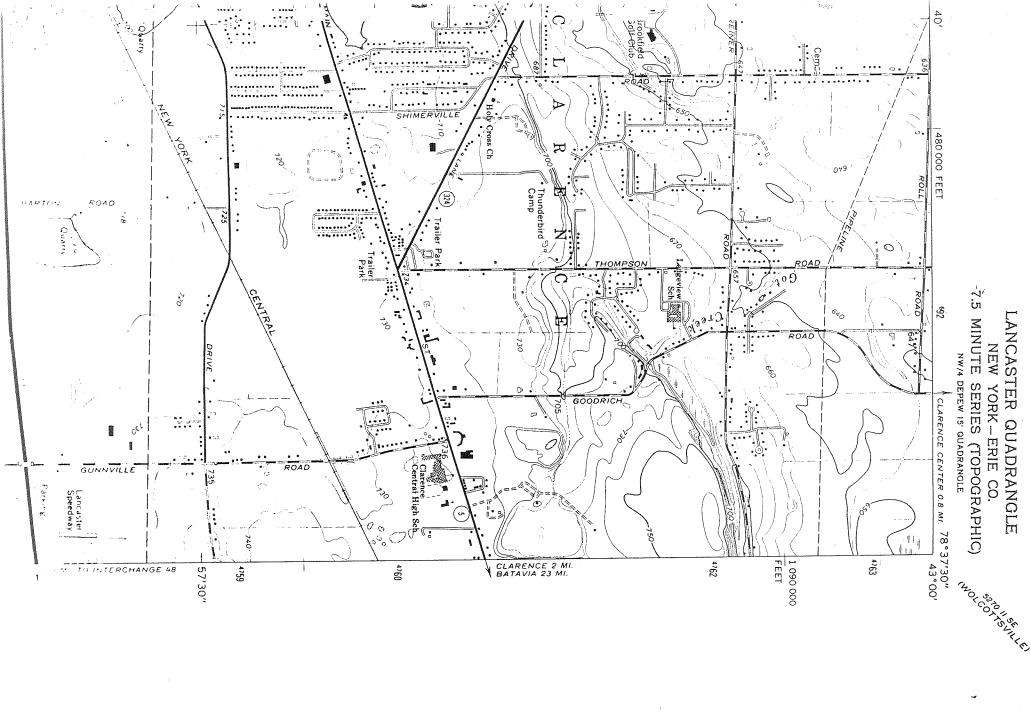


# CLARENCE QUADRANGLE NEW YORK-ERIE CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) NE/4 DEPEW 15' QUADRANGLE

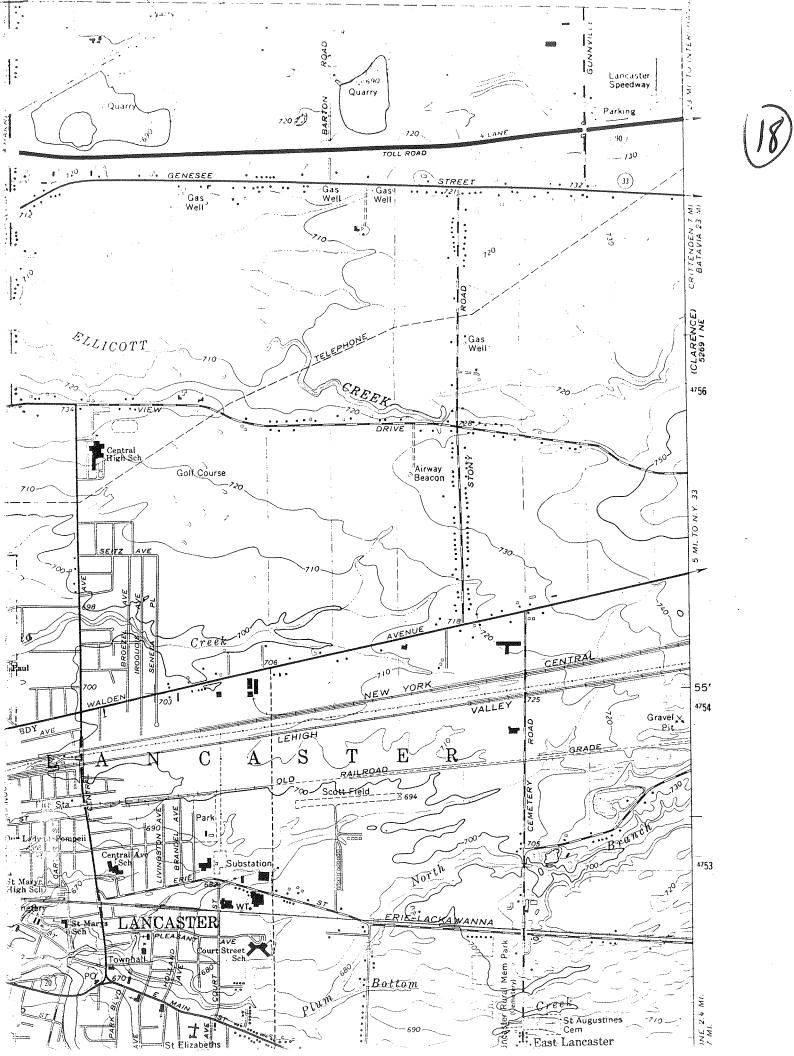
5310 KROK

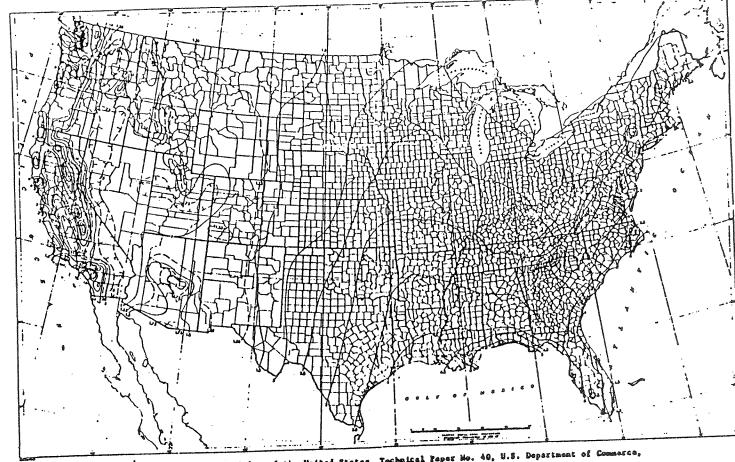


(18)









Source: Rainfail Frequency Atlas of the United States, Technical Paper No. 40, U.S. Department of Commerce, U.S. Covernment Frinting Office, Washington, B.C., 1963.

FIGURE 8 1-YEAR 24-HOUR RAINFALL (INCHES)

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# ENGINEERING-SCIENCE, INC. SITE INSPECTION CHECKLIST

SITE INSPECTION CHECKLIST
site Name Lancaster Reclamation
Site Location (Directions) fast on Walker Rd. South on Parament Rd
Date / mine 10/20/90 / 11/00 Weather (/60/7 (00/
Inspection Team David Vitale, Ahmod Tayyeti (DEC) J. M. Auliffic (LJ)
Site Representatives Paul Fairy [sic]
Other Parties // o
Site Description
1. Prepare a site location sketch and site map (Figure 1) noting
annewingte area of site site boundary, surface water features,

- 1. Prepare a site location sketch and site map (Figure 1) noting approximate area of site, site boundary, surface water features, streets, north arrow, access roads, containment or storage areas, impoundments, areas of contamination, odor and leachate or seepage areas, vegetative stress areas, monitoring well locations, areas of past waste surface water, sediment or soil sampling.
- 2. Take 35mm photographs of significant site features. Provide a

  description and reference for each photo. (See may be Directions)

  1. Looking E consider filled and partially filled sell

  2. 11 " " The two control wells

  3. " We of forement hand towned required SW-3

  4. " We along wothern edge of site and KK touch at my or

  5. " Walney the letucian sells

  6. " Wassers Town water cells

  7. 1' (Wat repeach 9W-1 location (note Domter Torks)

  8. " Wassers the Drew Marking."

  9. " N form "town Marking."

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Site Map (Figure 1) Lee uttached

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	Reference
Geology - Regional	Reference / hasc II
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by calustine sitte	me reg secons so
Blankets of sunds veca by lacustains silts a limestone delostone as	nd shall.
	4.4
Surface Water - Regional	Reference flux II
Regional Bedroly as	milion flows to
Surface Water - Regional  Regional Bedrools ag the Louth	
July Bonna	
	Pafarance 11 h
	Reference Plans TI
	Reference phase II.
	Reference plans T.
	Reference phase The infinite flowers to the for
	Reference phone The
Groundwater - Regional Regional Bedrock agus	Reference phase T. ifin flows to the for
	Reference phase T. ifin flows to the for

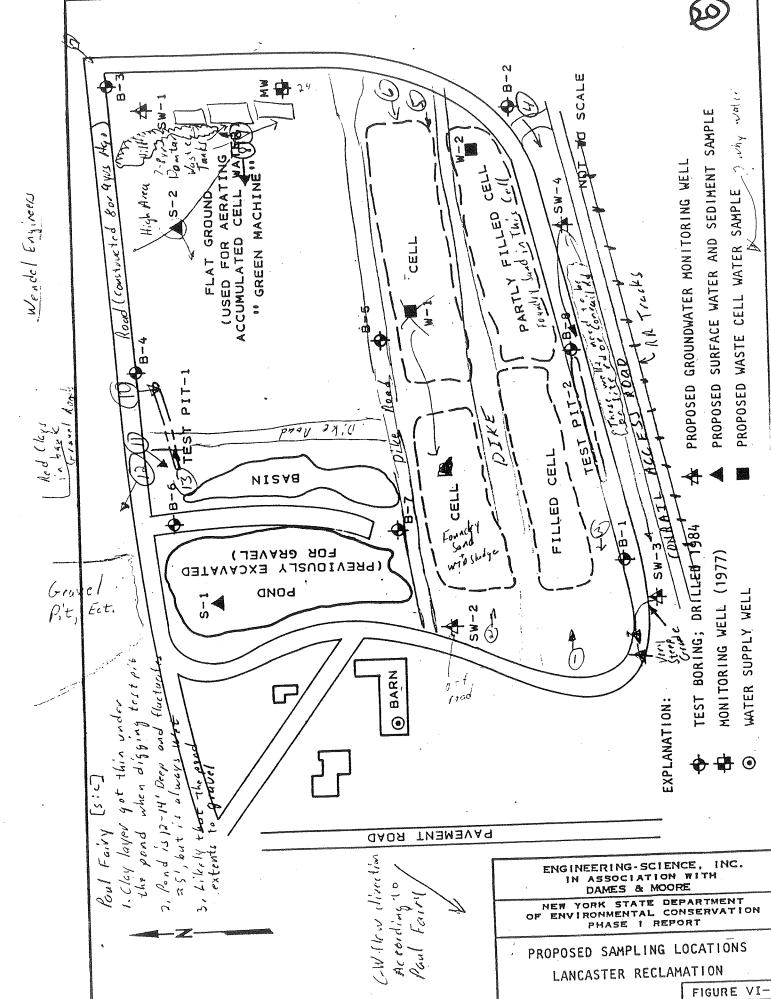
7.	Access:
	Condition of access roads /www. south are in fine unditions
	Adjacent Property Owners (Permissions Required) Command AR
	truly sen south of property possible according well
	Accessibility to Proposed Well/Sampling Locations
	all locations no accepille except (W-3 and I which
	me netually on a strap land, running down tooth
	11 & tracks
8.	Topography/Relief - Site Visit
	The sells were extended and the spiril used to
	unctived the deliver The Incen Machine in
	elevated above the cells and slopes to the W
	The road and lasin both seem to be lower
	there the cell levels
9.	Geology - Site Visit (i.e., bedrock outcrops, surface soil descrip-
	tion, site specific information gained from DEC personnel or
	others). No bedroch a Gravel pit was located
	m site and just month of site. Thish
	des descrite reuse on entern side of somety
	This limited its value for sand and your
	nöle
10.	Surface Water - Site Visit (i.e., location, direction of flow, esti-
	mated size, expected seasonal changes). Lufe transisane
	to a to the total and the Third is contact
	in each of the three mon-full sells, the sond and Iso ponded water on the "Green Markine
	in fact of the the min fun service Machine
	ma is a finite water son some in the

-



1.	Groundwater - Site Visit (Groundwater seeps, recharge or discharge
	area, site specific information gained from DEC personnel, ground-
	water usage, location of private wells, industrial wells).
	Il surpet that the water in the rend
	the surper sure that the sure of the sure
	may be uncold to a south
	Luct your sound, deep, supports loss)
12.	Waste Types - Describe type, quantity, and physical state of wastes
	present Wate alle - foundry sand, WWTP studges,
	bee phase T deport
12	Storage of Wastes - Record number, condition and location of drums,
100	tanks, surface impoundments, etc.
	Atord in filled sells. Water was pumped from the partially filled sell to the top of the west
	central cell and allowed to some down the sell Water was also much up in the Buen Markins and allow to engrerate
	central sell and allowed to some town the sell allowed
	was also imped up in the Buen Martin and allow
	7
14	. Contamination - Record any visual evidence of contamination.
	a. HNu Meter readings upwind and downwind 2/ppm
	c. Odor No
	d. Drum/Tank leakage $N_c$
	e. Visible leadhate, seepage Nn
	f. Surface discoloration $N_D$
	g. Surface water In colls
9 E	. Containment - Record presence and characteristic features of natural
1 3	or manmande containment measures such as dikes, barriers, pits,
	slurry walls, etc. Diher as shown on drawings
	between cach cell and W of the Green Martine

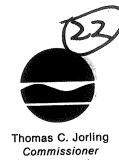
	cility Management Practices - Describe based on personnel inter-
v	ews and site visit. Water permit from pentially
	tilled cells into other sells and on to the
V	Green machine in on effort to devates
earth	tilled cells into other sells and on the the
evened	
-	
	emedial Actions - Record status and extent of any remedial activity
3	uch as:
a	. Liners, dike, barrier walls
b	· Access restrictions No
đ	. Leachate/waste treatment No Longer in a peration
a	. Drum/soil/waste removal \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	. Covers, surface water diversions $\chi/\rho$
L	. Covers, Burlace water diversions.
-	Consuit property directly to the east.
19	Recommended!
	a scephypical-EA
	b. Wells - Lup and 3 down to 50 ft
	of reference ter and ad - 2 leveline
	d. ponte sell analysis - 2 location Signature A. Milluliffe Date 10/28/85
	Signature of P. Williams
	Date 10/2 7/8 5
	·
20.	questions ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (
	a. CW - do we have a good idea of tow flow (shallow a - do we want to address contamination in the shallow agrees.
	b. Why not surface water and red ramples in W-1 and W-2 also (possibly more W-1 to Western cell)
	c. Have ne addressed info beon Buffalo Drilling



Steen Classification
6 NYCRE Volume E

Référence							
- to Nome	STREAM	Classif.	Stanlands	Anticle	1	Map	
Condville	Delavare R	A	A (T) TROUT		815	N-19	
ust from	Full Kill	C		10	862	N-24	
NonTon	MOTTAINER R	C	c(f)	7	8-30	6:26	
Copeland	Volotie Kill TRib.	D	D	10	863	K-25 50	
In Busen	4 to Ferbase Creek		D	14	897	6:14	
والمراجع فالمحارب والمراجع المواجع	Oswego River		<u> </u>	14	897	614c矡	
'e Roy	Mul River	D	$\supset$	5	821	J-8 NW	
J	Trib To OATRO Creek	<i>P</i>	D	a company of the contract of t		and the second s	
ONTARIO PINI GE	1		C(T)		801	1	
Ruffalo Pumps	Ningora River	A	A*		8.37	22 1 1	
Party letchword	1 1 0 1	B	玉	8	837	6	
· laci Naighton- Bre		P	D	8	837	6.00	
hisholm Ryden		A	A+	8	837	(	
nush R	Sarrye Greak			8	837	2	
waster Rec.	N. Branch Plum Creek	D		8	837	7	
Mins	French Creek Te.b.		$\mathcal{D}$		800	2	
	/	3	<u> </u>	8	837	10	
Alliel	Buffold R.	$\rightarrow$		1	£37	4	
Ashlone	Nisgna R	N.	A*	8			
and the second s	Two Mile Gerke	$\mathcal{B}^{'}$	B	8	F37		
Split Rock	l l						
ChonIngo		1 1	-			and the second second second	
TWOCO							
800. Franch Co	est D. Brin /801.0/201	i Geek/	837 C.CRE-H.	Risa D. Bosin,	1897 Bin	ear diver to	
- SPECIAL	International boundary	VAFORS 860. 4.	1950- 815 - Delove	me R/ 830.C	haybir-Metto	ance S.b.b.as.	

New York State Department of Environmental Conservation FISH AND WILDLIFE DIVISION - REGION 9 600 Delaware Avenue, Buffalo, New York 14202-1073 (716) 847-4550



September 2, 1987

Ms. Elizabeth M. Dobson Engineering-Science 290 Elwood Davis Road Liverpool, New York 13088

Dear Ms. Dobson:

This letter will serve as verification that I traced NYS designated wetland boundaries on the accompanying maps. The boundaries shown are from official Department of Environmental Conservation Maps promulgated on September 10, 1986 (Erie County) and December 5, 1984 (Niagara County).

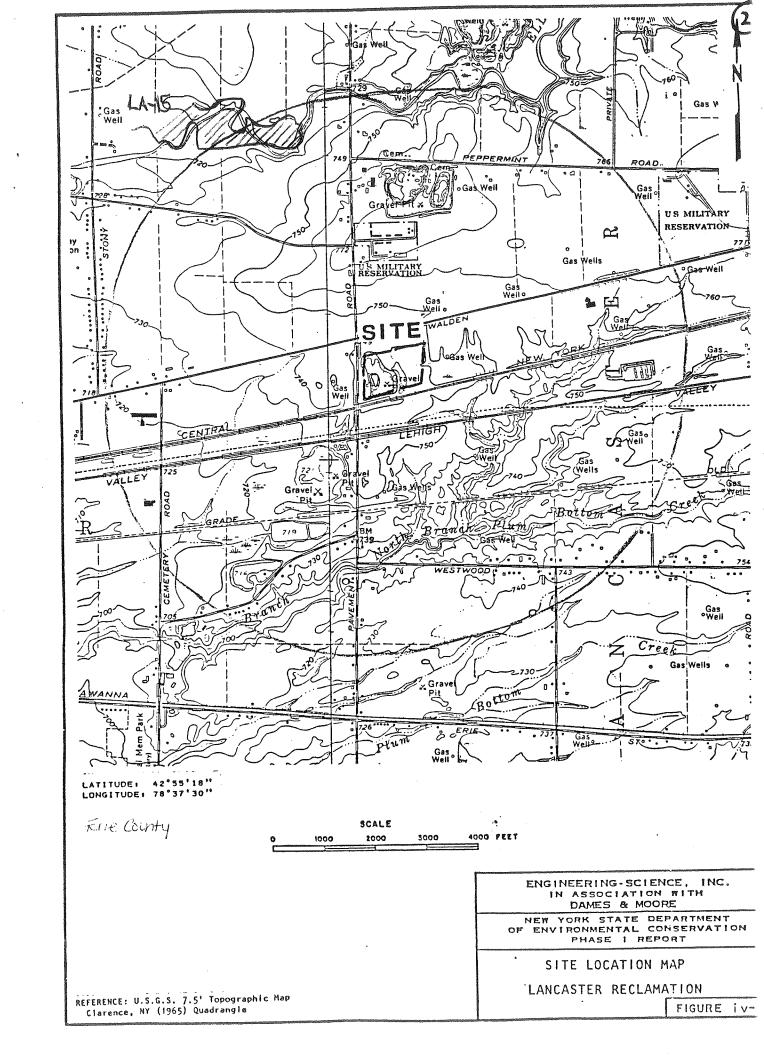
Very truly yours,

James F. Farquhar III Fish and Wildlife Division

JFF:slm

cc: Mr. Gordon R. Batcheller

Enclosures



#### INTERVIEW FORM

MERVIEWEE/CODE John W. Ozard
ITLE - POSITION Senior Wildlife Biologist
DRESS WRC New York State DEC
ITY Delmar STATE NY ZIP 12054 -
FONE (SIX) 439 - 7488 . RESIDENCE PERIOD
CCATION phone conversation INTERVIEWER W. Bradford
The state of the s
OBJECT: Critical habitats in New York State.
EVARKS: There are no federally designated
critical habitate of endangered species
located within New York State.
·
I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW: ( John W. ( )
SIGNATURE: JOHN W. OZARD
COMMENTS:

C.

**New York State Atlas of Community Water System Sources** CLINTON PAGE 44 FRANKLIN 1982 NEW YORK STATE DEPARTMENT OF HEALTH ST. LAWRENCE PAGE 40 ESSEX PAGE 46 LEWIS PAGE 36 HAMILTON PAGE 48 Lake Ontario WARREN PAGE 50 OSWEGO PAGE 52 PAGE 30 ORLEANS PAGE 8 ONEIDA WAYNE HERKIMER MONROE PAGE 32 PAGE 54 GENESEE PAGE 6 ONONDAGA PAGE 58 28 ONTARIO MONTGOMERY SENECA MADISON PAGE 12 WYOMING PAGE LIVINGSTON OTSEGO PAGE/56 SCHOHARIE CORTLAND ALBANY PAGE/60 PAGE 22 TOMPKINS CHENANGO RAGE CATTARAUGUS SCHUYLER CHAUTAUQUA ALLEGANY PAGE 4 PAGE 14 PAGE 2 STEUBEN DELAWARE PAGE 64 PAGE 16 TIOGA PAGE 62 BROOME COLUMBIA CHEMUNG PAGE 20 ULSTER PAGE 68 DUTCHESS SULLIVAN PAGE 70 PAGE 66 ORANGE PUTNAM PAGE 72 WESTCHEST TABLE OF CONTENTS FORWARD . . . . . . . . . . PAGE 1 COUNTY PAGE COUNTY PAGE COUNTY PAGE COUNTY PAGE ALBANY . . . . . . . . . . . . 56 FRANKLIN.....42 SCHOHARIE ........60 ALLEGANY . . . . . . . . . . . . 14 FULTON . . . . . . . . . . . . . 58 ONONDAGA ........28 SCHUYLER . . . . . . . . . 18 BRONX . . . . . . . . . . . . . . . . 76 GENESEE . . . . . . . . . . . . . 8 ONTARIO . . . . . . . . . . . . . . . . 12 SENECA . . . . . . . . . . . . 24 BROOME ...........20 GREENE . . . . . . . . . . . . . 64 ORANGE......72 STEUBEN . . . . . . . . . . . . 16 CATTARAUGUS .....4 HAMILTON . . . . . . . . . . 48 ORLEANS . . . . . . . . . . . . . . . 8 CAYUGA .....24 HERKIMER .........34 OSWEGO .....30 SULLIVAN ........70 CHAUTAUQUA .....2 JEFFERSON ......38 OTSEGO . . . . . . . . . . 60 TIOGA .....20 KINGS . . . . . . . . . . . . . 76 PUTNIAM TONSOUTHO

ID NO	COMMUNITY WATER SYSTEM	POPULATION	SOURCE	
Mun	icipal Community			
1 2 3 4 5 6 7 8 9 1 1 1 2 1 3 1 4 1 5 6 1 7 1 8 1 9 2 2 1	Akron Village (See No 1 Wyoming Page 10). Alden Village. Angola Village. Buffalo City Division of Water. Caffee Water Company. Collins Water District #3. Collins Water Districts #1 and Erie County Water Authority (Sturgeon Point Intake). Erie Gounty Water Authority (Van DeWater Intake). Grand Island Water District #2. Holland Water District. Lawtons Water Company. Lockport City (Niagara Co). Niagara County Water District (Niagara Falls City (Niagara Co). North Collins Village. North Tonawanda City (Niagara Co) Crchard Park Village. Springville Village. Tonawanda City. Tonawanda Water District #1. Wanakah Water Company.	3640 3460. 8500. 357870. 210. 704. #21384. 375000. NA. 9390. 1670. 138. 1670. 138. 1500. 1500. 1500. 169. 169.	. Lake Erie . Lake Erie . Wells . Wells . Lake Erie . Niagara River . Niagara River . Niagara River . Niagara River . Niagara River . Niagara River . Niagara River . Niagara River . Wells . Niagara River . Wells . Niagara River . Wells . Niagara River . Pipe Creek Re . Wells . Niagara River	- East Branch - West Branch - West Branch - West Branch servoir
	Aunicipal Community			•
22 23 24 56 27 28 29 30 31 33 34 35 37 38 39 40	Aurora Mobile Park.  Bush Gardens Mobile Home Park.  Circle B Trailer Court.  Circle Court Mobile Park.  Creekside Mobile Home Park.  Donnelly's Mobile Home Court.  Gowanda State Hospital.  Hillside Estates.  Hunters Creek Mobile Home Park.  Knox Apartments.  Maple Grove Trailer Court.  Millgrove Mobile Park.  Perkins Trailer Park.  Quarry Hill Estates.  Springville Mobile Park.  Springwood Mobile Village.  Taylors Grove Trailer Park.  Valley View Mobile Court.  Villager Apartments.		Wells .Wells .Wells .Wells .Clear Lake .Wells .Wells .Wells .Wells .Wells .Wells .Wells .Wells .Wells .Wells	

#### US CENSUS DATA, 1980

US Census Data used in the HRS scoring was obtained from various County Planning Offices. This data was not obtained from a report. The raw census data combined with County Planning Maps was used to estimate the population within 1, 2, 3, and 4 miles of the Phase II site being investigated. Because of the voluminous amount of data used, the data are not provided.



Soil Conservation Service

21 South Grove\_St. East Aurora, New York 14052 February 10, 1988

Michele A. Anatra Engineering-Science, Inc. 290 Elwood Davis Rd. Liverpool, New York 13088

Dear Michele,

Enclosed please find several soil maps which should satisfy your request of Feburary 5. The project area which you have indicated is shown in blue. The prime farmland mapping units for Erie County are colored red, and active farmland is outlined in orange.

Please note that the active farmland shown is that which is operated by participants of USDA farm programs. There may be active agricultural land within the specified radii which is not registered for any USDA programs or operated by a USDA cooperator.

Please contact this office if you require any additional information.

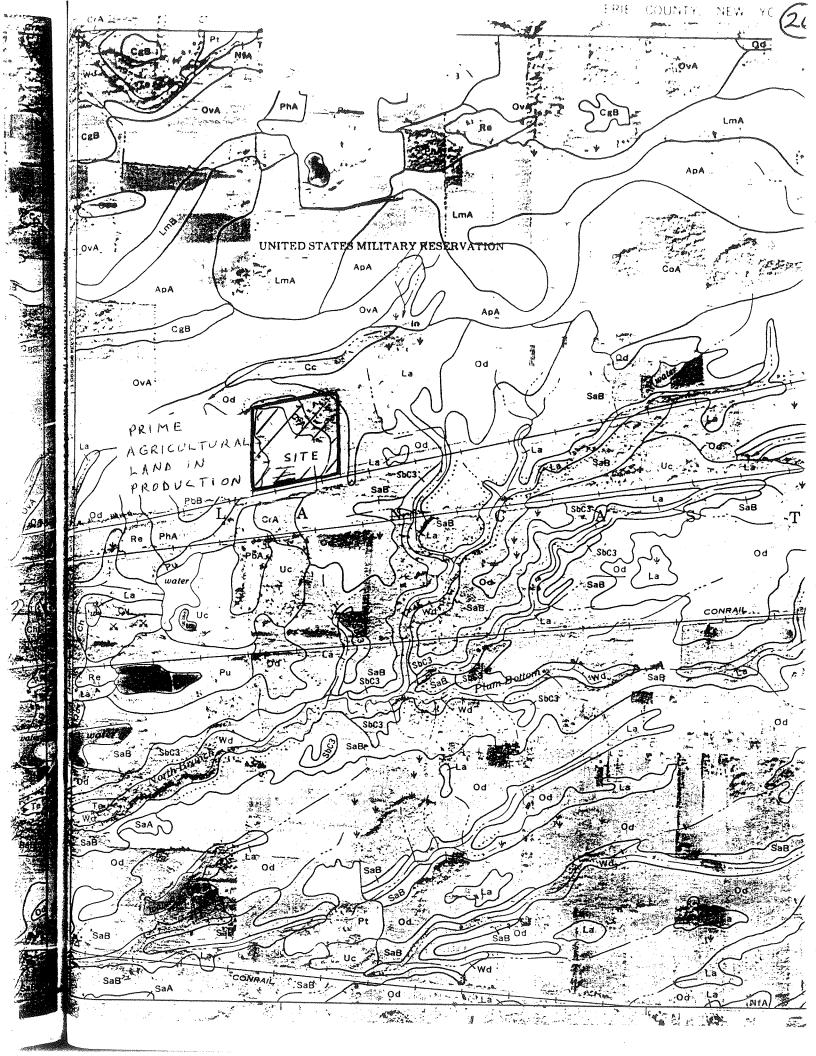
Sincerely,

Thomas Bulli

Thomas Bielli Soil Consrevationist

cc: John Whitney, SCS District Conservationist I&E File





## TIONAL REGISTER OF HISTORIC PLACES

### ANNUAL LISTING OF PROPERTIES

NUARY 1979 THROUGH DECEMBER 1982



U.S. DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
JULY 1983

EPA 2070-13

ECTION VI



Tuesday March 1, 1983



# Department of the Interior

National Park Service

National Registry of Natural Landmarks



< 0.000

< 0.000

< 0.000

#### THE ARO CORPORATION

Reed Holdings, Inc.

20,028 W-2433

Customer

ARO Laboratory Number

BUFFALO DIVISION 3695 BROADWAY, BUFFALO, N.Y. 14227

Customer P.O. #

2682

#### ENVIRONMENTAL LABORATORY ANALYTICAL RESULTS

Date: Collect	ed 2/26/81	Rec	eived	2/26/81	Reported_	3/11/81
Sampling Point	Description	Surface Pri	int Wast	e		
The above refe	renced material	has been cla	ssified a	as	1	
i i	X. Non-h	azardous		H	azardous	
as a result of t protocols in 40	esting for the fol CFR261.	llowing chara	cteristi	cs according	g to the procedu	res and
Ignital	bility:ign	itable	non-	-ignitable	x not test	ed
Corro	sivity:con	rosive	non -	-corrosive	x not test	ed
React	ivity:rea	ictivė	non-	-reactive	x not test	ed
EP To	oxicity:tox	ic x	non-	-toxic	not test	ed
Hazardous (	Constituents (per	40CFR 261;	Appendi	ix VII)		
1.			2.			
3.			4.			
	RE	SULTS OF E	P TOXIO	CITY TEST		
Contaminant	Allowed(mg/L)	Found (mg/	<u>L)   Co</u>	ntaminant	Allowed (mg/L)	Found (mg
Arsenic Barium Cadmium Chromium	5.0 100.0 1.0 5.0	< 0.001 0.028 < 0.001 0.008	En Li	ver drin ndune ethoxychlor		< 0.001 < 0.000 < 0.000 < 0.000
Lead	5.0	< 0.001	To	xaphene	0.5	< 0.000

The above characteristics have been determined in accordance with 40CFR 261 and the EPA manual Test Methods for the Evaluation of Solid Waste; SW-846, Revision A; August 8, 1980.

< 0.0002

< 0.001

Giniczin. Environmental Laborato

2,4-D

2, 4, 5-TP

Mercury

Selenium

0, 2

1.0

3695 BROADWAY, BUFFALO, N.Y. 14227

#### ENVIRONMENTAL LABORATORY ANALYTICAL RESULTS

Customer	Reed Holdings	, Inc. '··			
ARO Laborato	ory Number 20,0	28 W-2435	Custome	r P.O. # 268	32
	ted 2/26/81				
Sampling Poir	nt/Description	Prepaste Poly	mer		
The above ref	erenced material	has been classifi	led as	•	
	x Non-ha	azardous	1	lazardou <b>s</b>	
as a result of protocols in 4	testing for the fol OCFR261.	lowing character	ristics according	g to the procedul	res and
Ignit	ability:ign	itablei	non-ignitable	x not teste	ed
Corr	osivity:cor	rosive	non-corrosive	x not teste	ed
description of the second seco		ctive	non-reactive x not		ed
	Coxicity:tox			not teste	ed
Hazardous	Constituents (per	40CFR 261; App	endix VII)		
1. 3.		2. 4.	~		
	RE	SULTS OF EP T	OXICITY TEST	_	
Contaminant	Allowed(mg/L)	Found (mg/L)	Contaminant	Allowed (mg/L)	Found (mg/
Arsenic Barium Cadmium Chromium Lead Mercury	5.0 100.0 1.0 5.0 5.0 0.2	<pre>&lt; 0.001      0.012      &lt; 0.001      0.003      0.010      &lt; 0.0002</pre>	Silver Endrin Lindane Methoxychlor Toxaphene 2,4-D		< 0.001 < 0.0000 < 0.0000 < 0.0000 < 0.0005 < 0.0001
Selenium	1.0	< 0.001	2,4,5-TP	1.0	< 0,0001

The above characteristics have been determined in accordance with 40CFR 261 and the EPA manual Test Methods for the Evaluation of Solid Waste; SW-846, Revision A; August 8, 1980.

> Bernard J. Grycza Direc Environmental Laboratory

### THE ARO CORPORATION

**BUFFALO DIVISION** 3695 BROADWAY, BUFFALO, N.Y. 14227

#### ENVIRONMENTAL LABORATORY ANALYTICAL RESULTS

ustomer	Reed Holding	s, Inc.			
	ry Number 2		Custome	er P.O. #	2682
ate: Collec	ted 2/26/8	Receive	ed 2/26/81	Reported	3/11/81
ampling Poin	nt/Description	Prepaste Alka	li		
The above ref	erenced material	has been classi	fied as	,	
	_xNon-h	nazardous	F	Hazardous	٠
s a result of rotocols in 4	testing for the fo OCFR261.	llowing characte	ristics accordin	g to the procedu	res and
Ignit	ability:igr	nitable	non-ignitable	x not test	eđ
Corr	osivity:co	rrosive	non-corrosive	x not test	ed
Reac	tivity:re	active	_non-reactive	x not test	ed
EP 7	Coxicity:tox	cic x	non-toxic	not test	ed
Hazardous	Constituents (per	40CFR 261; Ap	pendix VII)		
1. 3.		2			
-	RF	SULTS OF EP	TOXICITY TEST		
'ontaminant	Allowed(mg /L)	Found (mg 'L)		Allowed (mg /L)	Found (mg/
rsenic	5.0	0.016	Silver	5.0	0.002
3arium	100.0	0.034	Endrin	0.02	<u>&lt; 0.00005</u>
ladmium	1.0 5.0	< 0.001	Lindane Methoxychlor	0.40 10.0	< 0.00001

The above characteristics have been determined in accordance with 40CFR 261 and the EPA manual Test Methods for the Evaluation of Solid Waste; SW-846, Revision A; August 8, 1980.

0.009

0.0002

0.005

Bernard J. Grucza, Director Environmental Laboratory

Toxaphene

2,4,5-TP

2,4-D

0.5

10.0

1.0

< 0.0005

< 0.0001

< 0.0001

5.0

0, 2

1.0

lead

lercury

elenium

#### THE ARO CORPORATION **BUFFALO DIVISION**

. . . .

3695 BROADWAY, BUFFALO, N.Y. 14227

### ANALYTICAL RESULTS

stomer: HICKMAN,	COWARD & WATTLES	125 Gardenville,	Cheektowaga N.Y.
	? RECE		COMPLETED: . 6/8/8
O. NO.	1201	W.O. 20,472W-5103	· A desired to the second seco
TEST	Sludge Tank - Bottom		
Oil & Grease	30.66 gm/Kg (3.0	77%)	·
	1	vatered and airdried	prior to
		•	
		·	
		1	

Bernard J./Grycza,/Ph.D.
Director, Environmental Laboratory

ec. (31

# BUFFALO ♦ DRILLING ♦ COMPANY INC.

1965 Sheridan Drive Kenmore, New York 14223 (716)-875-0906

foundation test borings rock coring • monitoring wells geotechnical instrumentation construction dewatering

GEOTECHNICAL REPORT

on

INVESTIGATION AND INTERPRETATION HEGION

of

SUBSURFACE CONDITIONS

for

LANCASTER RECLAMATION SITE

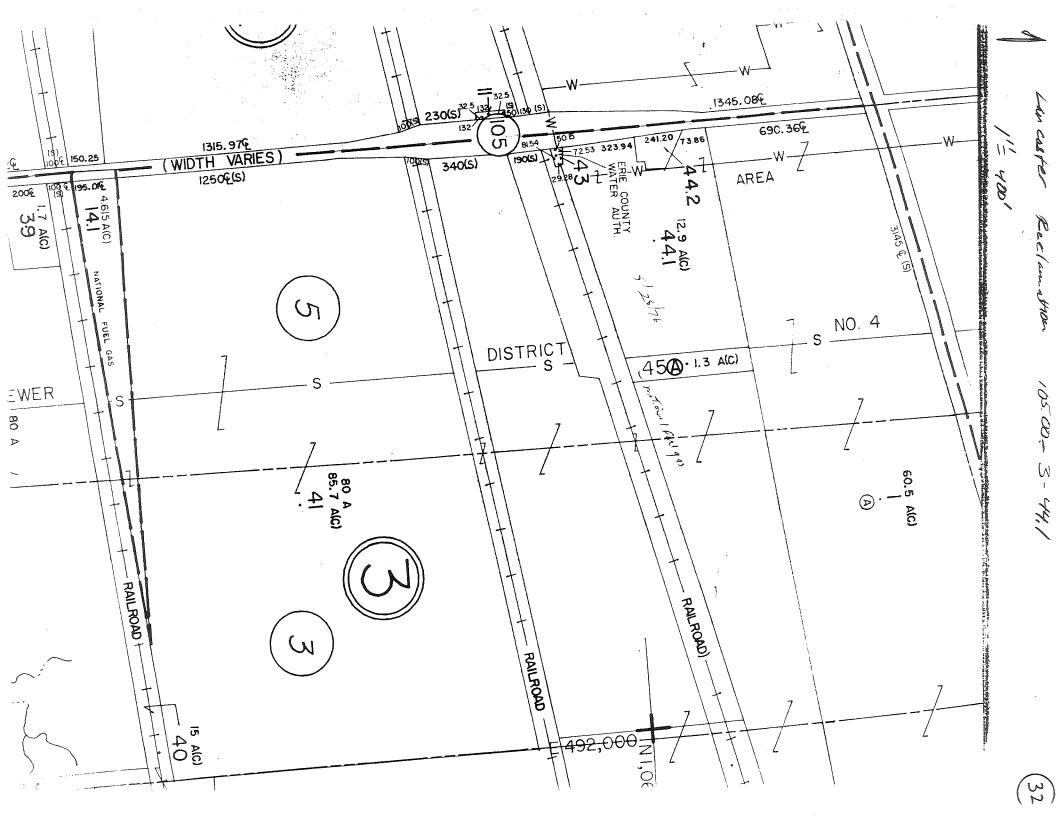
submitted to:

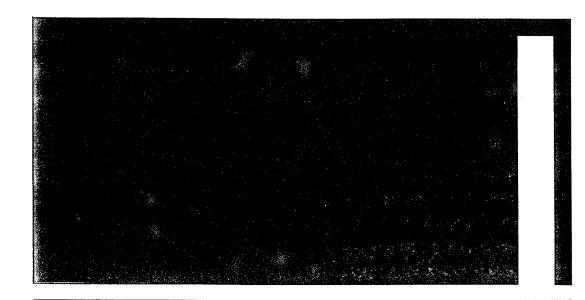
Lancaster Reclamation Company

prepared by:

Mr. James S. Barron, P.E.

Job No. 84-115 August 6, 1984





# R. Allan Freeze

Department of Geological Sciences University of British Columbia Vancouver, British Columbia

# John A. Cherry

Department of Earth Sciences University of Waterloo Waterloo, Ontario

# GROUNDWATER

Prentice-Hall, Inc. Englewood Cliffs, New Jersey 07632

# ENVIRONMENTAL LABORATORY

4626 Royal Avenue, Niagara Falls, New York 14303

Ferry Concrete Construction Co., Inc.

3179 Walden Avenue, Depew, New York 14043

SAMPLE AND WORK REQUESTED BY: Mr. John Ferry

DATE: February 4, 1976

FRONTIER CHEMICAL LAB NO. FC-2476

	- 		
		I. COMPOSITION OF SLUDGE	
ITEN	<i>a</i> 1	PARAMETER	FINDINGS AND DESCRIPTION
		Physical Characteristics	Black Thixotrophic Sludy
1 - 2		Color: (wet) (dry)	Black Gray
3		Percent Solid: Mimimum Maximum Mean Average	6.15% 8.31% 7.33%
4		Acidity of Sludge	Neutral
		CHEMICAL COMPOSITIONS	
	5	Moisture (Percent Water)	91.50%
~ 4		Total Solid	8.50
	<u>,                                    </u>	*Loss of Ignition (percent Carbonesion)	9.95%
	8	, SiO <sub>2</sub> (Sand type)	22.25%
. Mis .	9	**Al2Si40x (Clay Type)	65.19%
1	0	***Fe <sub>2</sub> O <sub>3</sub> (Iron Oxide)	1.25%
'A sub	1	CaO (Lime type)	1 0:36%

<sup>\*</sup> Organic components plus carbon

\*\*\*\* Non-magnetic

<sup>\*\*</sup> Clay is Bentanite consisting mainly of Montmorillonite

## FRONTIER CHEMICAL WASTE PROCESS INC.

### EXVIRONMENTAL LABORATORY

4626 Royal Avenue, Niagera Falls, New York 14303

GJOB: Ferry Concrete Construction Co., Inc.

3179 Walden Avenue, Depew, New York 14043

SAMPLE AND WORK REQUESTED BY: Mr. John Ferry

DATE: February 4, 1976

FRONTIER C	CHEMICAL LAB NO. FC-2476	
ITEM	II. COMPOSITION OF WATER PARAMETER	ANALYSIS
1	Origins	Filtrate from
	•	Sludge filtra
2	PH.	7.75
3	Specific gravity	1.03 @ Rt
4	Color (APHA unit)	20
5	Total Dissolved Solids (TDS)	30,500 ppm
6	Chlorides (C1)	13,500 ppm
7	Sulfates (SO <sub>4</sub> )	600 ppm
8	Silica (\$i0)	45 ppm.
. 9	Nitrate (NO <sub>3</sub> )	7.0 ppm
- 10	Calcium (Ca)	9,600 ppm
1, 1	Sodium (Na)	480 ppm
12	Iron (Fe)	125 ppm
_ 13	Zinc (Zn)	45 ppm
· 14	Aluminum (Al)	50 ppm
15	Total Organics (TOC)	1.100 ppm
· 63		· i
_000		i
		1



### (35) MEMORANDUM TO FILE

<b>&gt;</b> -	JOB NO. 39012.14
<u>*</u>	FILE DESIGNATION (LATERNA)
	DATE 10/30/87 TIME 1200
	DATE
$\mathcal{M}$	
PHONE CALL FROM SEONGO MOREO	PHONE NO.
PHONE CALL FROM SEONGE MORES	erry PHONE NO. 716 684 9624
	$\ell$
CONFERENCE WITH	
PLACE	
Sto Nistra	
SUBJECT Site History	
te holit baen sh	le Freview Phase I report ton MACCHASCILS
<u> </u>	in The site history section I was perposing
regarding the wital owner /9	peroton Fenny Concrete Constaveton Company:
sid 9ht botween 1978 in	1979 The survers begin Doing busivers ss
	pany. Parl wasn't sure of the exact
2-1-2-1	The Old the to
The of the change with, b	It it sounded connect to him. IN
e. Then case the owners	of both companies are one min The some,
Pay \ appac , Au sun	ottempts & consect Seticiencies in the Phase 7
TTO 1: Q = 1	de la la service de la service
to the something	y should be unapped up This week and
Surveyors world be out.	wext.
	m
	OLONED
	SIGNED



<u>&gt;</u>	. JOB NO. 54012.64
	FILE DESIGNATION External
	DATE 10/33/87 TIME /00
•	The second secon
SUDVI DUL FROM	PHONE NO. 716 6848624
PHONE CALL FROM John TERRY PHONE CALL TO George Money	·
PHONE CALL TO	PHONE NO.
CONFERENCE WITH	
PLACE	
SUBJECT Site N. Story - Phone	I Exectly Summary
	concerns on inaccuracies in Phase I
	^
TOBS IN EXECUTION	ie summy Bal P. pg I-1.
I thought This was IN referen	ue & Fosting of Sound on pit Slorge
From Chery phat - Results	From 11/80, John whated Phot
Caracte Rec has been given	oppusus! To dispose of This moste,
	1.4
however his had bever acce	tel any of it.  The detection of phenol in grown with a sused during his mishoulling of a
Phenols - John Fel	+ The dotestin of phenol in groundwit
was a one-Time occurrence.	- sused during his mishoulling of a
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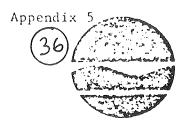


# 35) MEMORANDUM TO FILE

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identify inaccuracies such as &	Risposal began in "October 1985."
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ES D. 12 2/

York State Department of Environmental Conservation 584 Delaware Avenue, Buffulo, NY 14202



Peter A. A. Berle, Commissioner

January 24, 1978

Ferry Construction 3179 Walden Avenue Cheektowaga, NY 14225

Attn: John Ferry

Re: Disposal of Foundry Sand Slurry

Chevrolet - Tonawanda

#### Gentlemen:

This is to advise you that this Department has no objection to the disposal of the foundry sand slurry water from Chevrolet foundry in the site located on Pavement Road, providing that this material is placed in the same area where the bentonite sludges from Dresser Industries are also disposed.

Particular care should be taken to assure that the liquids do not enter any surface water courses. Also, no organic (i.e. putrescible) material should be placed in the areas where either the bentonite sludges or sand slurry wastes are disposed of.

Very truly yours,

John S. Tygert, P.E.

Senior Sanitary Engineer

1 5 Trees

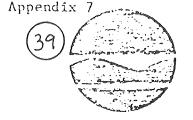
JST: amw

	FOR STATE USE O	NLY 1
38)	PROJECT NO,	DATE R
	DEPARTMENT ACTION	DATÉ

A SOLID WASTE MANAGEMENT FACILITY	ó	ICAII	UN FUR	APPROVAL IO	COMPIRACI
A AAFIA MADIE MAMAMARMEM MATERIA	Α	SOLID	WASTE	MANAGEMENT	FACILITY

. A SOLID W	AND IE MANA	AGEMENT PAC	ILITY	(30)	DEPARTMENT AC	CTION	DATE
ASTRUCTIONS ON RE	VERSE SIDE		•		☐ Approved (		
cer Reclamation	Company	403 Pavemen	City, State, Zip Code it Road, Lanca	aster, N	14086	3. Telep 681-	phone No. 7571
OR'S NAME caster Reclamation	Company	403 Pavemer	, , , , , , , , , , , , , , , , , , , ,				7571.
Wendel Engineers, P.C	. ,	8. ADDRESS (Street, 7405 Canal	City, State, Zip Code Road, Lockp	ort, NY	L4094	9. Teles 433	hone No. -5993
FNGINEER'S N.Y.S. LICENSE NO.	10. TYPE OF PROJE		:				
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Briefly describe the project including	the basic process	and major component	s: Filling of	excavate	d lagoons	with:	
1) Bentonite clay slunsisting of 20% Portland with broken bricks; escribe location of facility. (Attack	ind cement,  4) Slurry na USGS Topograph	5% asbestos in from foundry hic Map showing the e	Fibers, 10% g wastewater t exact location of the f	lass fib reatment acility)	ers & 65% t	water; 3) g 65% wate	Spent cas
Site is located on ea Town of Lancaster.	st side of	Pavement Road	1. 1000± feet	south o	f Walden Av	ve. is the	
ounty in which facility is located:	Erie	,	14. Environmenta	l Conservation	n Region in which	facility is local	.ed: ,
Muni	cipalities Served b	y Facility			County	No	o. of Municipali
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	21/02						
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Describe briefly how the proposed fa	icility relates to th	e Comprehensive Soil	d Waste Management	Plan for the M	unicipality. Expla	in any deviation	from that Plan.
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c. Depth to nearest ground water - d. Depth to nearest rock -		•	g. Is site on a floor h. Predominant type	-			٠
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In Progress	198	6	· · · · · · · · · · · · · · · · · · ·	/A		N/Λ	
Estimated Cost Initial	, Annual		22. Estimated D Current	aily Tonnages		- :	
N/A	N/A			Fon/Month		sign Same	
Operating Hours per Day			24. Are attached	d plans and sp	pecifications in s Plans and Specific		
DERTIFICATION:	ours/Week				and opeciff		J 110
The undersigned does hereby certing best of his knowledge and belief.	fy that the informa	tion in this application	on and in other attach	ed statements	and exhibits is t	rue, correct and	complete to the
5-11-79	Prophysical Control of the Control o		Steen-	- 7	antien		
Date	/		S	ignature and T	itle		

york State Department of Environmental Conservation
584 Delaware Avenue Buffalo, NY 14202



Robert F. Flack Commissioner

January 4, 1979

John Ferry Lancaster Reclamation 3179 Walden Avenue Depew, NY 14043

Re: Fabritron Wastes

Dear Mr. Ferry:

This is to advise you that this Department has no objection to the disposal of fabritron's transite clurry waste, provided it is deposited in the same area, or a similar area, as the chevy foundry sand slurry waste.

Particular care should be taken to assure that the liquids do not enter any surface water course and that no putrescible material is deposited with these wastes.

Very truly yours,

John C. McMahon, P.E. Regional Engineer, Solid and Hazardous Waste Program

JEB:dd

FILE COPY

FO MOISIVID. THE MEDANALINE STORMS CLIC

October 25, 1979

RECEIVE

Lancaster Reclamation Company 403 Pavement Road Lancaster, New York, 14086

Attn: Mr. John L. Ferry

BUREAU OF HAZARDOUS

WASTE MANAGEMENT PROGRAMS

BUREAU OF MANAGEMENT PROGRAMS

Operation Permit Restricted Use Landfill Re: Facility #15508 Lancaster Reclamation Company Lancaster (T), Erie (C)

Dear Mr. Ferry

Enclosed are the Permit issued to you for the above facility and a Permit Sign which must be posted at the project site.

The Permit contains 9 special conditions, all of which are important. However, we call your specific attention to conditions 2 and 3 which require the installation of an additional monitoring well and stabilization thereof, followed by sampling of the new well and the existing well.

In addition, we would like to direct your attention to condition 6 which requests that only facilities registered under the provisions of Part 364 NYCRR 364 shall be used in transporting waste materials to the landfill area.

Upon receipt of an additional copy of the engineering plans prepared by your consultant, we will stamp and forward these to you.

If you have any questions relative to this, please do not hesitate to contact the writer or Mr. Tygert at 842-5041.

Very truly yours,

dohn L. Beecher

Associate Chemical Engineer

Enclosures JLB:mfw

cc: Erie County DEP

Mr. Nosenchuck V

Mr. Tygert

Lancaster Town Clerk

# NOTICE OF PERMIT

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CONSTRUCTION

× OPERATION

× INITIAL ISSUE

RENEWAL

REISSUANCE

MODIFICATION

has been issued to: Lancaster Reclamation Co.

address: 403 Pavement Road, Lancaster, New York 14086

for a project described as: Restricted Use Landfill

## under the Environmental Conservation Law,

Article 27, Title 5, Part 360 (Solid Waste Management Facilities)

#### NOTE:

- This Notice of Permit must be posted on the project site in such a manner that it is protected from weather and is in a location readily visible to the public.
- A copy of the Permit with the general and special conditions noted thereon will be shown to anyone upon request.

New York State

Department of Environmental Conservation
47-12-2 (8/77)

Issuing Officer Deecher

584 Delaware Avenue, Buffalo, New York, 14202

Address

2021

10/25/79

11/1/82

Permit No.

Issue Date

Expiration

(4)

#### New York State Department of Environmental Conservation 600 Delaware Avenue, Buffalo, New York 14202



Robert F. Flacke Commissioner

October 29, 1980

Lancaster Reclamation Company 403 Pavement Road Lancaster, New York 14086

Attn: Mr. Ferry

Re: Modification to Operation Permit Restricted Use Landfill - Facility #15508 Permit #2290 - Lancaster Reclamation Company - Lancaster (T), Erie (C)

Dear Mr. Ferry:

Enclosed herewith is Permit #2290, modification to Permit #2021 dated October 25, 1979. This permit modification entails the acceptance of dust particles from the shot blast collector to be mixed with the bentonite clay slurry described in your application dated May 11, 1979. The special conditions of your original permit still remain in full force and effect.

If you should have any questions regarding this matter, please do not hesitate to contact the writer at 716/842-3837.

Very truly yours,

John S. Tygert, P.E.

Senior Sanitary Engineer

JST:las

Enclosure

cc: ECDEP

Lancaster (T) Clerk

Albany Central Office - NYSDEC

FILCEIVED

101 () 198U

BUNEAU OF MANAGEMENT PROGRAMS \_\_\_ Now York State Department of Environmental Conservation 600 Delaware Avenue, Buffalo, New York 14202

(42



Robert F. Flacke Commissioner

## RECEIVED

June 16, 1981

JUN 1 9 1981

Mr. John L. Ferry Lancaster Reclamation Company 403 Pavement Road Lancaster, New York 14086 DIRECTOR'S OFFICE
DIVISION OF SOLID WASTEUTICAL

PROGRAMS

Re: Permit #2021 Revision to Accept Sludge Residue from Surface Print Production

Dear Mr. Ferry

This cover letter modifies Permit #2021 issued October 25, 1979. This modification permits acceptance of sludge residue from surface print production as described in your application dated May 4, 1981. The expiration date of this modification will be November 1, 1982. This is also the expiration date of Permit #2021.

A new numbered permit will not be issued as in response to a previous request (Permit #2290) because of this small quantity (2,400 gallons/year) involved.

Very truly yours,

Robert J. Milroy, P.E.

Associate Sanitary Engineer

KJM:ADM:las

cc: Mr. D. Campbell, Eric County Popartment of Unvironment and Flanning Mr. N. Nosenchuck, NYSDEC-Albany

.«K STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

## CATION FOR TREATMENT OR DISPOSAL OF AN

	FOR STATE USE	ONLY
SITE NO.	APPLICATION NO.	DATE RECEIVED
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Approved		6/15/51

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uncaster Reclamation Co.	403 Pavement Rd. Lanc.N.Y.	XX 9402.6	684-9624
CERTIFICATION	14086		004-1703
t hereby affirm under penalty of perjury that inf cellef. Faise statements made herein are punishable	ormation provided on this form and attached statements as a Class A misdemeanor pursuant to Section 210.45	and exhibits is true to the be	st of my knowledge ar

.. SIGNATURE AND TITLE OF REPRESENTATIVE OF WASTE GENERATOR DATE

IGNATURE AND TITLE OF REPRESENTATIVE OF TREATMENT OR DISPOSAL FACILITY John Ferry, Co-Owner

5-4-61 DATE 5-4-61

(MYSDLE 1981)

600 Delawarn Avenue, Suffalo, WY 14202

March 3, 1981



Tr. Join L. Ferry Lancaster Reclamation Co. 433 Pawerent Road Lancaster, 12 14086

> ra: Disposal of Wheelabrator Shot Blasting Sand from Drasser Industries, Inc.

Tear ir. Terry:

This office has reviewed your proposal for disposal of the above subject waste. The analysis shows that the waste is non-hazardous. Hence, this waste can be disposed of at your landfill.

Purthermore, please he advised that Derry Concrete must have their Industrial Waste Mauler Permit modified in order to transport this waste to your site.

If you have any questions, please contact this office.

Very truly yours,

Robert J. Litray, P.E. Associate Sanitary Ingineer

KMI: and att.

41

17 5

RECEIVED

600 Delaware Avenue, Buffalo, New York 14202 - 1073

JUN 02 1982

Bureau of Municipal Waste Division of Solid Waste

нау 27, 1982

Mr. John L. Ferry Lancaster Reclamation Company 403 Pavement Road Lancaster, NY 14086

Re: Disposal of Bus Washing Solids from Sweet Home Central School Lancaster Reclamation Co.-Facility \$15500 Lancaster (T), Eric County

Doar Mr. Forry:

Attached is a copy of the approval for the sludge from the helding talk for the Sweet Home Contral School bus garage. It is understood that the material that is to be removed is the solids in the bottom of the tank and consists of dirt, gravel and other material waste from the buses. This material is to be admixed with the excess diatomaceous earth from Dresser Industries to preclude leaching of any oily material which may be resident in the solid residues.

You have indicated that you have received other requests for similar types operations, and we are advising that an analyses should be performed on the soling material to determine the presence of any extractable oil or grease for these tuture applications.

If you have any questions, please do not hesitate to contact the writer.

Very truly yours,

John S. Tygert, P.E.

Senior Samitary Engineer

JST:sk

Attachment

ec: Ar. Don Campball (Brie County Department of Environment & Planning)
Mr. Dave O'Toole (MYSDEC/Albany/Solid Daste) //

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## NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Tapilotory Affairs - Region 3
600 Delaware Avenue
Buffalo, New York 14202-1073
NOTICE OF INCOMPLETE APPLICATION

November 16, 1984

November 16, 1784
Lancaster Reclamation Company 403 Pavement Road Lancaster, New York 14086
Permit Applied for: Schielleste Control Location: Lancaster
Application Number: 50-84-1211 (Please refer to this number in all your correspondence.)
YOUR APPLICATION FCR THIS PERMIT IS INCOMPLETE.
You failed to include with your application the full amount of the required fee. Please submit a check or money order in the amount of \$ payable to the Department of Environmental Conservation.
Please submit the following data: Sec attached
It appears that other DEC permits may be required in connection with your proposed project. In order for a comprehensive review of all DEC permits for this project to be made, it is necessary for you to submit application(s) for the following permit(s):
न्त्राच्याः '
If you have reason to request that all permits not be processed simultaneously, please notify the permit agent below to discuss the matter.
It has been determined that your project is subject to Article 8 of the Environmental Conservation Law, the State Environmental Quality Review Act (SEQR). Your application will be considered complete when
For further information, contact this office.
Permit Agent: ////////////////////////////////////
If you wish to withdraw your application rather than complete it, please notify

· cc: K. Hintz

the permit agent for refund of application fee.

14-12-5 (10/77)

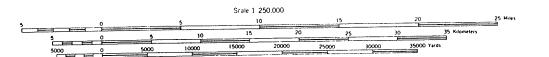
- 1. It is the judgement of Reportment staff that
  spray irrigation is not an environmentally
  sound method of leachate disposal, and staff
  continues to appose that method as not meeting
  regulatory requirements. All leachate must be prope
  regulatory requirements. All leachate must be prope
  collected and removed to a specified treatment
  plant by a registered waste hauter, your
  application should therefore be revised accordingly
  or possible devial of your application may result
  - 2. The total volume of the site can be specified even though life of facility cannot be predicted due to uncertainty of waste receipts.
  - 3. Why has not the direction of groundwater flow not been determined? This needs to be down in the Walls are to be correctly placed.
  - 4. Even if east well is monitoring surface water, what is the source of phenols? This would seem to indicate that surface runoff from site is contaminated. Furthermore, how can one be assured that the high phenol concentrations are not resulting from the disposal of foundry sand.
  - 5. What is doubt to the seasonally high groun bester table, perched or otherwise?
- 7. Need variance application with adequate justification for exemption from daily cover.
- €. Proposed monitoring program not outlined.
- 9. Need cost estimate for closure and 30 years of post closure monitoring and maintenance in order to establish a surety instrument.
- to. No wastes with a solid content of 20% or loss may be accepted at this site conless a thoroughly documented warrance is submitted and approved
- 11. Location of well to replace east well not shown, nor is the location of the well on the south periodeer.
- 12. No details on the clay wall and its installation.

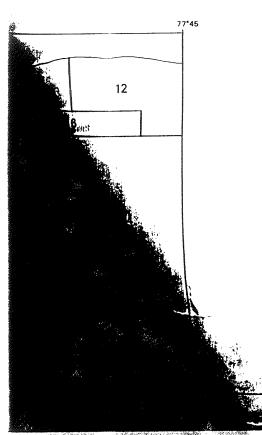
- 13. Plan should show those areas which are already filled.
- 14. Please explain why a clay cutoff wall is only needed on the northwest side. Borings I and 8 indicate the need for such on the south side. Why no a cutoff wall along the east side as well, or along the entire west side?
- 15. Bottom elevations of proposed cells not cutlined.
- 16. One drawing showing exisiting topography and another to show final topography should be submitted.
- 17. Disposal of waste into trenches containing liquid is unacceptable.
- 18. No construction details on clay outoff wall.
- 19. Plan sheet needs to show the existing womitor well locations and the proposed locations for the 2 new wells.
- 20. Need deed or property cap showing ownership of Juch.
- 21. How is site access controlled? Equipment minuspance facility and employee facilities not shown.
- 22. With a 3 to 5 foot thick sand/gravel layer on east side of site, what is to prevent lateral migration? In addition, with the upper 5 feet being a fill layer, what is to prevent lateral migration through this area or the 1 foot silty cand layer below?
- 23. Need testing data to verify that soils have permuability of 10 ' qu'rec. or lens. Samples of the silty clay and clay soils should be only to the law for attending ion of grain size. Attending limits, and alassification.
- 24. Additional corings needed to continue that the decipest permeable layer is continuous/discontinuous and to further identify the bedreat location.
- 25. Boring numbers on the plan short are not consistent with the drilling report/logs.
- 26. In which glasmal direction besthe beattest stope?
- 27. A pend containly be used for an take water memorating, not ground ester memitaring.
- 28. The North of Cell of Lorent to 1, Vary 10.0 carefred fret) of the Lorent and a day to 1 in the

- 29. The monitor well detail shows the screen to be in the impermeable silty clay layer. This screen location will yield no sample. The bedrock interface (upper 5 feet) should be sampled and the permeable sand/gravel layer. Hence, cluster wells will be required.
- 30. The proposed well construction is inadequate. The wells should be a 2 inch minimum, flush coupled PVC with coment sentonite grout to surface, not random backfill. Details shall be provided.

KRH: vs

# QUATERNARY GEOLOGY OF NEW YORK, NIAGARA SHEET by Ernest H. Muller





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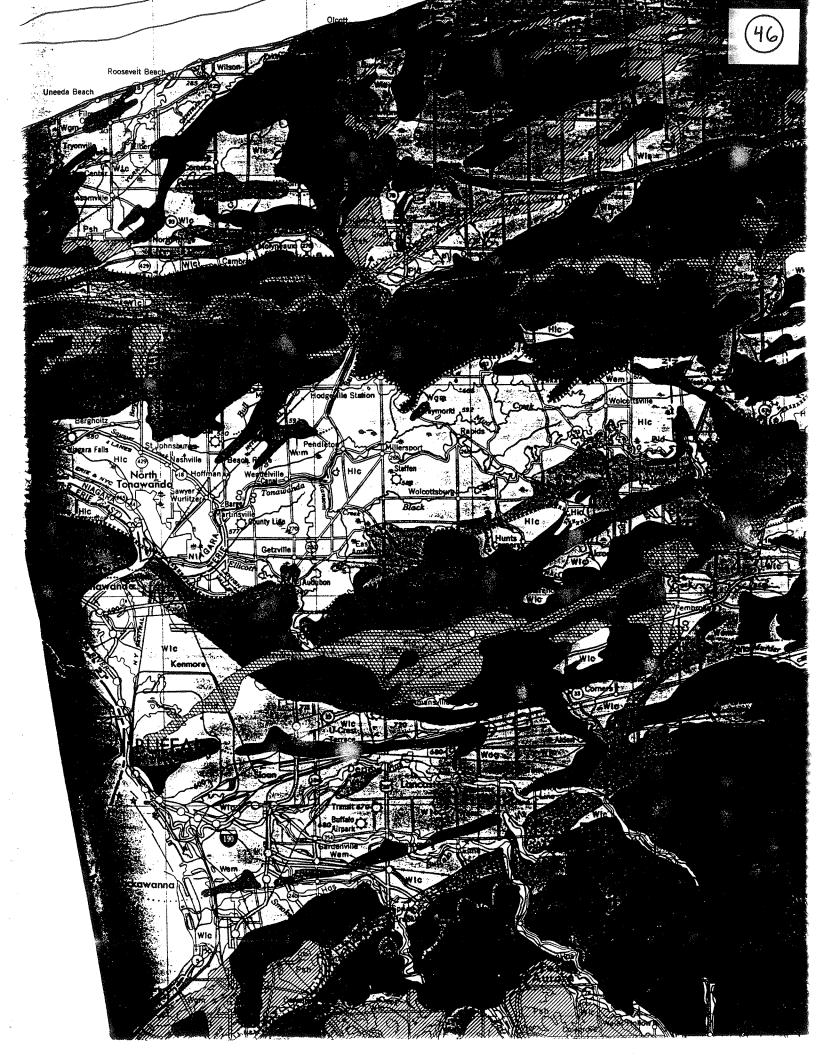
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Muller, Ernest H. (1977)

New York State Museum and Science Service

QUATERNARY GEOLOGY OF NEV by Ernest H. A



			· (International Control of Contr	E	х Р	LANA	T	1 0	N			
	HOLOCENE		Has  Medium to coorse sand with subordinate intercalated silt and gravel, loosely packed and permeable, generally oxidized and non-calcareous; meliow, but commanily with high water table.  Floodplain deposits of streams in mature reaches. Overbank deposition by streams flowing on low gradients and in open valleys.	Alluvial gravel Pebble to cobble gra medium to coarse so and permeable; gene noncolcareous; local Alluvial fan and cha streams flowing an s emonating from noir rapidly aggrading rei	nd, loosely packed rally oxidized and y bouldery.  nnel deposits of teep gradients or ow valleys into	Beach sand and grave!  Coarse sand with subordinate medium sand and gravet lenses; cross-bedden highly permeable generally well sarte without significant silt or clay.  Strand and nearshore deposits of lor lakes in basins possessing closure in ent of the former receding glocier mence persisting after deglaciation. Notable are shore deposits of Lake and Ontario and former Lake Tonawi	nd; ad, rge depend- largin,	Lake silt, sand and clay Silt, fine to medium sand on bedded to massive; in part bedded with cyclic alterna silt lammae, moderately pe along bedding surfaces. Offshore deposits of lakes did not require on impondin closure, hence persisted a Notable among filled bas former Lake Tonowanda.	d clay; thin- very regularly tion of clay and rmeable along in basins which g ice margin for fiter deglaciation ins is that of	and noncalcareous; of permeable. Closely of and nearshore depositakes.  Wind-reworked littoral initially deposited in	ssociated with strana its of postglacial  L and beach sand	Peat, mart and muck Bog deposits, dominantly peat and muck with subordinate gyttig; mart is a major component except in the southern tier of counties. Sit and clay are intercalated at base of organic section. Deposition during late stages of in-filling of pand and lake basins, including numer- ous kettles and other shallow depressions an glacial drift; also parts of former Lake Tonowanda such as the Oak Orchard and Bergen Swomps.
ы Z		ian				Beach sand and gravel of ice-dammed to Coarse sand with subordinate medulims and gravel lenses, cross-bedded; well-and without significant sitt or clay; high permeable.  Strand and nearshore deposits in proglicates. Whittlesey and Warren in the Elbosin and Lake Iraquois in the Ontaric Includes suitable material for generally scale sand and gravel production.	sand sorted shly acial rie o Basin.	Lake sill, sand and clay  Silt, fine to medium sand at bedded to mossive; regular with cyclic oldernation of laminae; moderate bedding bility.  Offshare deposits in basin ice marginal impondment if so primitive lakes in north troughs as well as ancestr sey and Warren in the Eri roquois in the Ontario Bil	nd clay; thin- ly bedded, in part clay and silt plane permea- s which required for closure; includ hward-draining at lakes Whittle e Basin and Loke			
T O C E	SCONSINAN	Woodford	Wem  Includes both obtains and todgment till; to stony with limited admixture of poorty a carbonate and crystalline closis generally inchanges and permeability variable but than in associated ground moraine.  Deposited by melting of ice at edge of inend of an advance or during stillstand apposition.  See figure 2 for names of principal morrepresentation of chronology of glocial a	sorted gravel; y exceed 20%; generally greater ce sheet either at a stable ice border caines and schematic	to moderately stony ally exceed 20%; Variably comminute	Wgm  Int till; silly clay till and sandy till; sy; carbonate and crystalline clasts g; compact and generally very impermited rock material, transported by and lowing ice of the continental ice shee	lodged	ice-contact stratified di Coarse gravet and sand; from sand to boulder are lenses of unsorted flow erately to highly permed comprise more than 20 fraction; locally indurate Deposition as ablation in streams distributing dri Inally as the buried ice mark former ice-contact Comprises a major grav crushing for many pur	sorting, poor a avel; in some are till; attitude of bile; carbonate a w and commonl d by secondary coordine, mudflow fit on stagnant as melted. Steep a surfaces.	as with subordinate beds variable; mod- and crystalline closts y dominate coarse actium carbonate, and by soltwater ie to be deposited clapes commonly	extremely permeab exceed 30 % of it secondary calcium Deposition by stron ice sheets Coarse near the ice sheet freely from the gla terraces or terrace coarse torrent (hi	gravel with subordinate sand; well sorted; le; carbonate and crystolline clasts generally the coarse fraction; locally cemented by carbonate.  gly aggrading streams flowing from former alluvium deposited in coalescent aprons, or as valley trains where streams drained cerr margin. Commonly persist as stream remnants. Includes minor lenses of very
S I H I A	W 1	Altonian	End moraine includes both oblation and lodgment till sandy till, moderately to abundantly stan poorly sorted gravel, sandstone and sills ally comprise more than 80% of coarse and thickness variable but generally greately ground moraine Deposited by melting of ice at edge of ice of an advance or during stillstand at a sposition.	it with admixture of stone channers gener- fraction; permeability after than for associ- ties sheet either at end	washed ablation di moderately to abun ners comprise more oxidized and essen impermeable.	Agm  It till but locally with a veneer of validity, clay till, sitty clay till and sand adaptly stony; siltstone and sandstone either 80% of coarse fraction; dee thially noncalcoreous; compact and get orck material, transported by and I lowing ice of the continental ice sheet	chan- chan- eply nerally	tce-contact stratified d Coarse gravel and sono from sand to boulder g lenses of unsorted flov erately to highly perme more than 80% of co Deposition as ablation streams distributing dr finally as the burred to- mark former ice-contact Comprises a major gra- crushing for many purp	Akg riff d, sorting poor ravel, in some or will; artitude o able; siltstone or arse fraction; ge moraine, mudflo iff on stagnant is e metted. Steep at source but r	eas with subordinate of beds variable; mad- ind sandstone generally merally uncemented.  w and by meltwater to be deposited stopes cammonly	extremely permeat less than 30 % of Deposition by stro- ice sheets. Coors- near the ice shee freely from the gl terraces or terrace	grovel with subordinate sand; well sorted; ite, carbonate and crystalline clasts general it the coarse fraction; generally uncemented, andy aggrading streams flowing from former e altuvium deposited in coalescent oprons, or as valley trains where streams drainer acter margin. Commonly persist as stream
	ILLINOIAN		End moraine Includes both oblation and ladgment till, erately to obundantly stony with admixt gravel; sandstone and siltstone channer fraction; permeability and thickness var - greater than for associated ground mor Deposited by melting of ice at edge of the end of an advance or during stillste border position	ture of poorly sorted s dominate coarse liable but generally caine lice sheet either at	washed ablation d to abundantly stor ate coarse fractio careous; compact	Igm  ent till but with local veneer of varif trift, cloy till to silty clay till; mode ny; siltstone and sondstone channers n; deeply oxidized and essentially ni and generally impermeable. uted rock material, transported by and flowing ice of the continental ice sh	domin- oncal-	Ice-contact stratified Coarse gravel with sub interally variable, rang subordinate lenses of t iable; moderately to hi dominate coarse fractic eous; uncemented. Deposition as ablation streams distributing dr finally as the buried if former ice-contact sur Of minor extent near I tant gravel source.	ordinate pebbly a ing from sand to insorted flow till ighty permeable; on; oxidized and moraine, mudflor iff on stagnant ce melted. Steep faces.	coarse gravel and ; attitude of beds var siltstone and sandstor essentially noncalcar- w and by mellwater ice to be deposited slopes commonly man	extremely permiseredly less than cemented; contain materials; oxidis Deposition by at sheets. Coarse a sarved as limiter region.  Comprises a pot	e gravel with subordinate sand; well-sorted; bble; corbonate and crystalline closts gen- 30 % of the coarse fraction; generally un- is lower proportion of shale than in associ- ad and noncalcareous in general. congly aggrading streams flowing from ice sliwium deposited as valley trains and pre- distruce remnants beyond the glaciated ential source of gravel.
-	<del> </del>	<del> </del>		Psh				P55				Pid

A small fraction of a living matter is made up carbon) which disintegrate 5570 · 130 years. In fossiling Radiocarbon atoms to affords a basis for estimatorganism died.

SITE TOWN

Otto, Otto

1.1

2 Clear Creek, Collins

3 \* Corry Bog, Corry

> Nichols Bk., Sardinia



FERRY CONCRETE CONSTRUCTION CO., INC. 3179 Walden Avenue Depew, New York 14043

### CERTIFICATE OF ZONING COMPLIANCE

Your application of October 27, 1975, for premises consisting capproximately fourteen (14) acres at 403 Pavement Road, Town of Lancaster, is hereby granted upon the following terms and conditions:

- That fill to be deposited shall consist of inert, non-putrescible, non-combustible material as set forth in your letter of October 27, 1975.
- 2. That all necessary permits from the County of Erie and State of New York relative to such operation shall be obtained prior to commencement of operations and a copy filed with the undersigned Building Inspector.
- 3. That all other Ordinances or Laws of the State of New York, County of Erie and Town of Lancaster be adhered to, including the recently enacted Wetlands Act and Article 8 of the Environmental Conservation Law pertaining to environmental quality review.
- 4. That the operations at the subject site shall be rigidly supervised by the applicant and special care shall be taken to avoid any littering of public highways and that fill operations shall not exceed existing topographical grades.
- 5. That this use by the applicant shall be personal to the operations of the applicant and shall be primarily for the depositing of waste materials from Dresser Industries, Inc., Depew, New York.
- 6. That any change in the type, kind or quality of materials to be deposited on the aforementioned site shall not be made until the Building Inspector of the Town of Lancaster shall have received prior motice and given written approval for such deposit.

William F. Dougherty, Jr.

Councilman Barnhardt requested a suspension of the necessary rule for immediate consideration of the following resolution - SUSPENSION GRANTED.

THE FOLLOWING RESOLUTION WAS OFFERED BY COUNCILMAN BARNHARDT , WHO MOVED ITS ADOPTION, SECONDED BY COUNCILMAN BERENT , TO WIT:

WHEREAS, John Ferry, Paul Ferry, and Margaret Krzyzanowski,

D/B/A Lancaster Reclamation Company, has previously been issued a

"Certificate of Zoning Compliance" in relation to the dumping and depositing of certain waste materials on premises located at 403 Pavement Road,

Lancaster, New York, and

WHEREAS, Lancaster Reclamation Company, by letter dated October 21, 1980, has requested a modification of the "Certificate of Zoning Compliance" previously issued by the Building Inspector so as to accommodate the dumping of "Shot Blast Dust" from Dresser Industries, and

WHEREAS, the New York State Department of Environmental Conservation by letter dated October 29, 1980, has issued State Permit #2290 which modifies State Permit #2021, dated October 25, 1979, which modification entitles the permittee to accept at 403 Pavement Road, Lancaster, New York, a waste substance known as "Shot Blast Dust"

NOW, THEREFORE, BE IT RESOLVED, that the "Certificate of Zoning Compliance" issued on July 19, 1979, by the Building Inspector of the Town of Lancaster, to John Ferry, Paul Ferry, and Margaret Krzyzanowski, D/B/A Lancaster Reclamation Company, be and is hereby modified by addition of the following Section:

Item 7. "Acceptance and Deposit at the Reclamation Site of waste materials from Dresser Industries, Inc. known as "Shot Blast Dust" in strict accordance with the application and State Permit No. 2290, is acceptable"

and,

BE IT FURTHER RESOLVED, that the Town Clerk of the Town of Lancaster be and is hereby directed to forward a certified copy of this resolution to the Building Inspector of the Town of Lancaster and to Lancaster Reclamation Company.

The question of the adoption of the foregoing resolution was duly put to a vote on roll call which resulted as follows:

COUNCILMAN BARNHARDT VOTED YES

COUNCILMAN BERENT

VOTED YES

COUNCILMAN CZAPLA

VOTED YES

COUNCILMAN GRZYBOWSKI VOTED YES

SUPERVISOR KEYSA

VOTED YES

читх

The resolution was thereupon unanimously adopted.

November 3, 1980

State of New York County of Erie Town of Lancaster This is to certify that I, ROBERT P. THILL, Town Clerk and Registrar of Vital Statistics of the Town of Lancaster in the said County of Erie, have compared the foregoing copy of \_\_a\_resolution\_\_\_\_\_

with the original thereof filed in my office at Lancaster, New York, on the 3rd day of November, 19.80 and that the same is a true and correct copy of said original, and of the whole thereof.

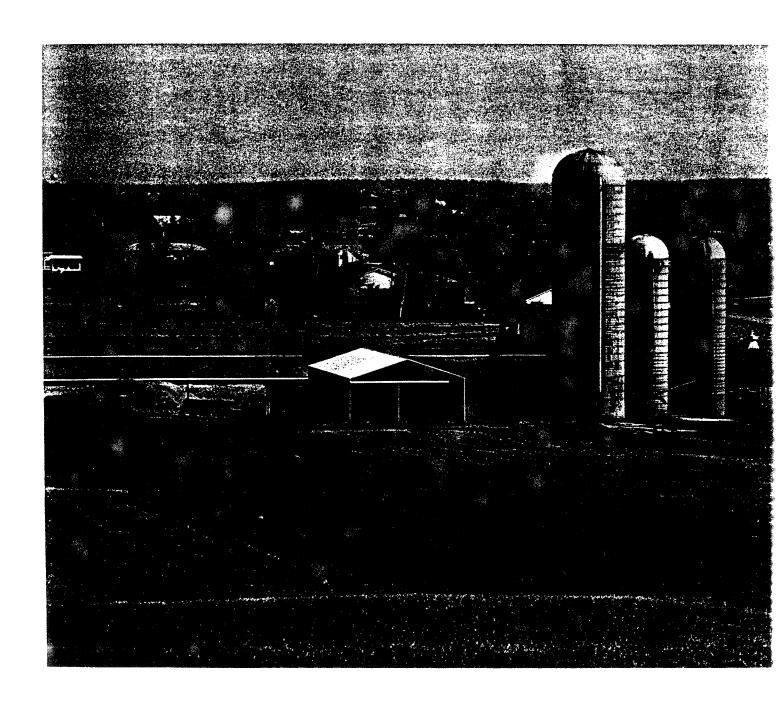
Town Clerk and Registrar of
Vital Statistics



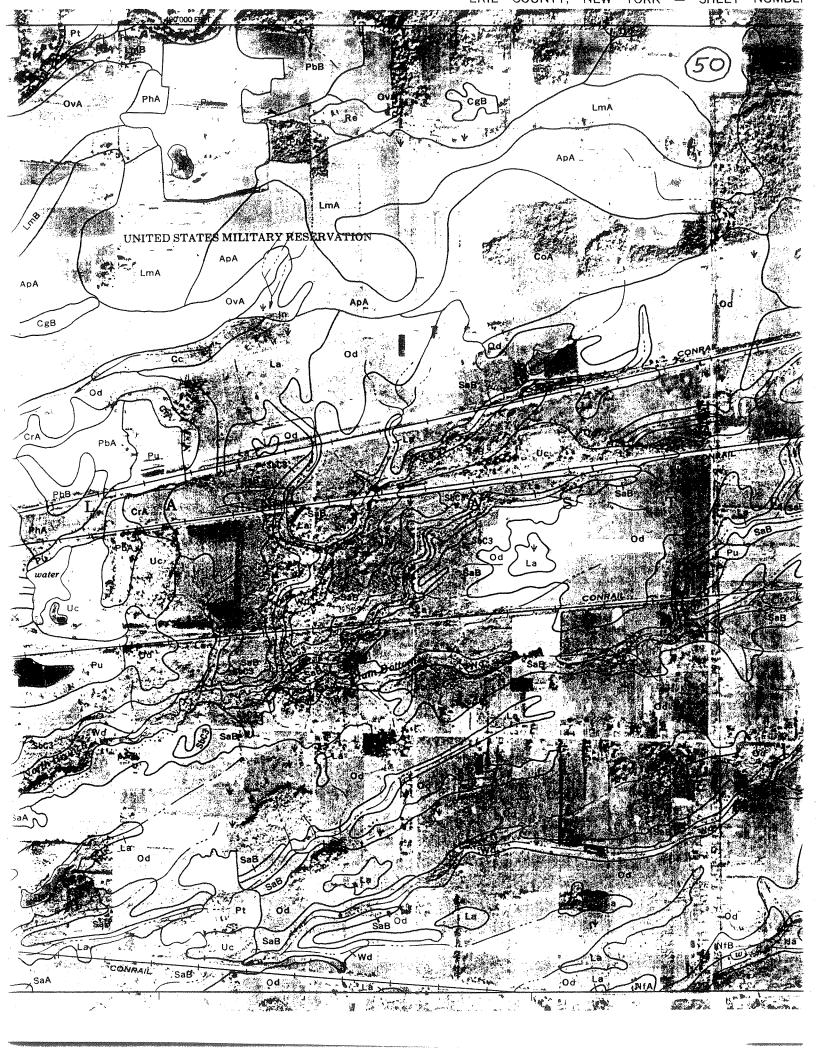
Soil Conservation Service

In Cooperation with the Cornell University Agricultural **Experiment Station** 

# Soil Survey of Erie County, New York







#### **SOIL LEGEND**

The publication symbol consists of letters. The first letter always a Capital, is the innual letter of the mapping unit name. The second letter is a small letter The third letter, shaveys a capital, B, C, D, E, or F, outdoorse the close. Symbols without a dope letter are those of nearly level sols. A final number, 3, priors that the soil is seried or dodd.

S Y M 8 O L	N A M E	\$ Y M B O L	NAME	SYMBOL	N A M E
					Perchin set toarm
AIA	Allard silt loam, 0 to 3 percent slopes	F#A	Farmington cherty loam, 0 to 3 percent slopes	Pc PhA	Phelps gravelly loam, 0 to 3 percent slopes
AIB	Allard silt loam, 3 to 8 percent slopes	FaB	Farmington cherty loam, 3 to 8 percent slopes		Phelps gravelly loam, 3 to 8 percent stopes
AmA	Alton fine gravelly loam, 0 to 3 percent slopes	FbA	Farnham shaly sitt loam, 0 to 3 percent slopes	PhB Pt	Pits, borrow
Arn8	Atton fine gravelty loam, 3 to 8 percent slopes	FbB	Farnham shaly silt loam, 3 to 8 percent slopes	Pu Pu	Pits, gravel
AmC	Alton fine gravelly loam, 8 to 15 percent stopes	FcA	Farnham shaly sift loam, fan, 0 to 3 percent slopes	FU	· 144, 910441
AnB	Alton gravelly loam, silty substratum, 3 to 8 percent slopes	FcB	Enroham shaly silt foam, fan, 3 to 8 percent slopes	Ou	Quarries
AnC	Alton gravelly loam, silty substratum, 8 to 15 percent slopes	Fu	Fluvaquents and Udiffuvents, frequently flooded	RaA	Raynham silt toam, 0 to 3 percent slopes
AoA	Angola silt loam, 0 to 3 percent slopes	G <sub>2</sub> A	Galen very fine sandy loam, 0 to 3 percent slopes	RaB	Raynham sitt loam, 3 to 8 percent slopes
AoB	Angola silt loam, 3 to 8 percent slopes	GaR GaB	Galen very fine sandy loam, 3 to 8 percent slopes	Re	Red Hook silt loam
ApA	Appleton silt loam, 0 to 3 percent slopes	Gb8	Galen fine sandy loam, till substratum, 3 to 8 percent slopes	AIA	Remsen sity clay loam, 0 to 3 percent slopes
Aµ8 ArB	Appleton sitt toam, 3 to 8 percent slopes Arkport very fine sandy loam, 3 to 8 percent slopes	Ge	Get will exit from	RIB	Remsen sitty clay loam, 3 to 8 percent slopes
A/B A/C	Arkport very fine sandy loam, 3 to 6 percent slopes  Arkport very fine sandy loam, 8 to 15 percent slopes		Gettine in tour	RIC	Remsen sitty clay loam, 8 to 15 percent slopes
ArD	Arkport very fine sandy toam, 15 to 25 percent slopes	Ha .	Halsey silt loam	RgA	Rhinebeck silt foam, 0 to 3 percent slopes
Ar E	Arkport very fine sandy loam, 25 to 40 percent slopes	Ho	Haplaquoils, ponded	RgB	Rhinebeck silt foam, 3 to 8 percent slopes
AuC	Aurora shaly sitt loam, 8 to 15 percent slopes	Hm	Hamlin silt loam	RhC3	Rhinebeck sitty clay toam, 8 to 15 percent slopes, severely eroded
		HoA	Honeoye loam, 0 to 3 percent slopes	RkA	Rhinebeck gravelly loam, 0 to 3 percent slopes
Be	Beaches	HoB	Honeoye loam, 3 to 8 percent slopes	Ak8	Rhinebeck gravelly losm, 3 to 8 percent slopes
8IA	Benson very cherry loam, 0 to 3 percent slopes	HrA	Hornell selt loam, 0 to 3 percent slopes	AmA	Rhinebeck sitty clay toam, stratified substratum, 0 to 3 percent slope
818	Benson very cherty loam, 3 to 8 percent slopes	HrB	Hornell silt loam, 3 to 8 percent slopes	8m8	Rhinebeck sitty clay loam, stratified substratum, 3 to 8 percent slope Book puterop
89C	Benson very cherry loam, very rocky, 8 to 15 percent slopes	HsC	Hornell silt clay loem, 8 to 15 percent stopes	Ro	Hock buttrop
8#8	Benson-Rock outcrop complex, 3 to 8 percent slopes	HuB	Hudson silt loam, 3 to 8 percent slopes	SoA	Schoharie silt loam, 0 to 3 percent slopes
81A	Blasdell shaly silt loam, 0 to 3 percent slopes	HuC	Hudson silt foam, 8 to 15 percent slopes	SaA SaB	Schoharie sit fourn, 3 to 8 percent slopes
818	Blasdell shaly silt loam, 3 to 8 percent slopes	HVD	Hudson sitry clay loam, 15 to 25 percent slopes Hudson sitry clay loam, 25 to 40 percent slopes	SbC3	Schoharie sity clay loam, 8 to 15 percent slopes, severely eroded
BIC	Biasdeli shaly silt loam, 8 to 15 percent slopes	HvE HwD	Hudson sitty clay toam, 25 to 40 percent stopes Hudson gravelly loam, hilly	ScD ScD	Schuyler silt loam, 15 to 25 percent slopes
810	Blasdell shaly silt loam, 15 to 25 percent slopes	HWD	Hugson gravery loans, may	Sc €	Schuyler silt foam, 25 to 40 percent slopes
BrA BrB	Brockport silty clay loam, 0 to 3 percent slopes	In	Rion sit Ioam	Sd	Scip silt loam
8/8	Brockport sitty clay loam, 3 to 8 percent slopes	""	mon pri routi	Sw	Swormville clay toam
Ca	Canadice silt loam	Ke	Kendala silt loam		
Co.	Canadice silt loam, shaly till substratum	***		Te	Teel silt loam
Cc	Cananda que sitt toam	la .	Lakemont sitt foam	To	Tioga silt loom
Cd	Canandaigua mucky sift loam	ь	Lakemont mucky sit toam		
Cr A	Castile gravelly loam, 0 to 3 percent slopes	Lc	Lamson very fine sandy loam	Uc	Udorthents, smoothed
CeB	Castile gravelly loam, 3 to 8 percent slopes	Ld	Lamson mucky very fine sandy toam	Ud	Urhan länd
C/B	Cayuga silt loam, 3 to 8 percent slopes	L/B	Langford channery silt loam, 3 to 8 percent slopes	UeB	Urban land Benson complex, 3 to 6 percent slopes
CIC	Cayuga sitt foam, 8 to 15 percent stopes	LIC	Langford channery silt toam, 8 to 15 percent slopes	Uf	Urban land-Cananduigua complex
Cg8	Cazenovia silt loam, 3 to 8 percent slopes	LID	Langford channery silt loam, 15 to 25 percent slopes	Ug	Urban land-Cayuga complex
CoC	Cazenovia silt loam, 8 to 15 percent slopes	LgC	Langford channery silt loam, silty substratum, 8 to 15 percent slopes	Uh	Urban land-Churchville complex
Ch	Cheektowaga fine sandy loam	LgD	Langford channery silt loam, silty substratum, 15 to 25 percent slopes	Uk	Urban land-Claverack complex
CkA	Chenango gravelly loam, 0 to 3 percent slopes	LmA	Lima loam, 0 to 3 percent slopes	UmA	Urban land-Collamer complex, 1 to 6 percent slopes Urban land-Colonie complex, 3 to 6 percent slopes
CkB	Chenango gravelly loam, 3 to 8 percent slopes	LmB	Lima loam, 3 to 8 percent slopes	Un8	Urban land-Cosad complex
Ck C	Chenango gravelly loam, 8 to 15 percent slopes	Ly	Lyons sit loam	Uo Up	Urban land-Galen complex
CkD	Chenango gravelly loam, 15 to 25 percent slopes	L	Lyons mucky silt loam	Ur A	Urban land-Lima complex, 1 to 6 percent slopes
CIA	Chenango channery sitt loam, fan, 0 to 3 percent slopes Chenango channery sitt loam, fan, 3 to 8 percent slopes	MaA	Manitus shally silt loam, 0 to 3 percent slopes	Us	Urban land-Niagara complex
CmE	Chenango and Palmyra soils, 25 to 40 percent slopes	MaB	Manhous shally silt loam, 3 to 8 percent slopes	Ur	Urban land-Odessa complex
Con	Chippewa silt foem	MaC	Manilius shaly silt loam, 8 to 15 percent slopes	Uu	Urban land-Schoharie complex
CoA	Churchville silt loam, 0 to 3 percent slopes	MaD	Manisus shaly silt loam, 15 to 25 percent slopes	Uv	Urban land-Swormville complex
CoB	Churchville silt loam, 3 to 8 percent slopes	MbE	Manlius very shaly silt loam, 25 to 35 percent slopes	Uw	Urban land-Teel complex
C/A	Claverack loamy fine sand, 0 to 3 percent slopes	MbF	Mantius very shaly sitt Ioam, 35 to 50 percent slopes	Ux	Urban land-Wassaic complex
Cr B	Claverack loamy fine sand, 3 to 8 percent slopes	McB	Mardin silt loam, 3 to 8 percent slopes		
CsA	Collamer silt loam, 0 to 3 percent slopes	McC	Mardin silt loam, 8 to 15 percent slopes	V>8	Valois gravelly silt loam, 3 to 8 percent slopes
C18	Collamer silt loam, 3 to 8 percent slopes	MdB	Mardin channery silt loam, 3 to 8 percent slopes	VaC	Valors gravelly silt loam, 8 to 15 percent slopes Valors gravelly silt loam, 15 to 25 percent slopes
C:C	Collamer sitt toam, 8 to 15 percent slopes	MdC	Mardin channery silt foam, 8 to 15 percent slopes	VaO	Various gravetry sixt loam, 15 to 25 percent slopes Varysburg gravetry loam, 0 to 3 percent slopes
CtB	Collamer silt loam, till substratum, 3 to 8 percent slopes	MdD	Mardin channery sitt Ioam, 15 to 25 percent slopes	VbA VbR	Varysburg gravelly loam, 3 to 8 percent slopes
CuB	Colonie loamy fine sand, 3 to 8 percent slopes	MeF	Mardin-Valois complex, 25 to 50 percent slopes	VPC VPC	Vary soung gravelly loam, 8 to 15 percent slopes
CuC	Colonie loamy fine sand, 8 to 15 percent slopes	MA	Marilla shaly silt loam, 0 to 3 percent slopes	VhO	Varysburg gravelly loam, 15 to 25 percent slopes
C₩	Cosad loamy fine sand	MfB	Marilla shaly sift loam, 3 to 8 percent slopes	VbE	Vary sburg gravelly loam, 25 to 40 percent slopes
		MtC	Marilla shaly silt loam, 8 to 15 percent slopes	VoA	Volusia silt loam, 0 to 3 percent slopes
DaB Da G	Danley silt loam, 3 to 8 percent slopes Danley silt loam, 8 to 15 percent slopes	Mg	Middlebury silt loam	VoB	Volusia silt loam, 3 to 8 percent slopes
DaC DaD	Danley silt foam, 5 to 75 percent slopes  Danley silt foam, 15 to 25 percent slopes	Mh	Minoa very fine sandy loam	VoA	Votusia channery sitt loam, 0 to 3 percent slopes
D5A	Darrier sitt loam, 0 to 3 percent slopes			Vv8	Valusia channery silt loam, 3 to 8 percent slopes
Oug	Darrien silt Igam, 3 to 8 percent slopes	Ne	Newstead Ioam		
DeC	Davien selt loam, 8 to 15 percent slopes	NIA NIB	Niagara sitt loam, 0 to 3 percent slopes Niagara sitt loam, 3 to 8 percent slopes	WaA	Wassaic silt toam, 0 to 3 percent slopes
DcB	Darrien sitt loam, silty substratum, 3 to 8 percent slopes	Ng Ng	Niscare sits Ioam, fan	W+8	Wassaic silt Ioam, 3 to 8 percent slopes
DdA	Derb sit loam, 0 to 3 percent slopes	Nh	Nragara sitt loam, till substratum	Wb8	Wassaic very stony foam, 3 to 8 percent slopes
Dd8	Derb silt loam, 3 to 8 percent slopes	1911	resignation of the second second second	₩cE	Wassaic-Rock outcrop complex, 25 to 40 percent slopes
DolC	Derb silt loam, 8 to 15 percent slopes	Od	Odessa sift loam	₩d	Wayland sit loam
Dρ	Dumps	Oe Oe	Odessa Lakemont silt loams	WeB	Williamson sitt toam, 3 to 8 percent slopes
Du	Dumps, slag	OrA	Orpark silty day loam, 0 to 3 percent slopes	WeC	Williamson sit loam, 8 to 15 percent slopes
		OrB	Orpark silty clay loam, 3 to 8 percent slopes		
Ed	Edwards muck	O/C	Orpark sitty clay loam, 8 to 15 percent slopes		
EIA	Elnora loamy fine sand, 0 to 3 percent slopes	OvA.	Ovid silt loam, 0 to 3 percent slopes		
EI8	Elnora loamy fine sand, 3 to 8 percent slopes	OvB	Ovid silt loam, 3 to 8 percent slopes		
Er A	Erie channery silt loam, 0 to 3 percent slopes				
E/B	Erie channery silt loam, 3 to 8 percent slopes	Pa	Pairns muck		
€rC	Eria channery silt loam, 8 to 15 percent slopes	РЬА	Palmyra gravelly loam, 0 to 3 percent slopes		
		PbB	Palmyra gravesty loam, 3 to 8 percent slopes		



# GROUND-WATER RESOURCES OF THE ERIE-NIAGARA BASIN, NEW YORK



# Prepared for the Erie-Niagara Basin Regional Water Resources Planning Board

by

A. M. La Sala, Jr.

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

in cooperation with

THE NEW YORK STATE CONSERVATION DEPARTMENT DIVISION OF WATER RESOURCES

STATE OF NEW YORK
CONSERVATION DEPARTMENT
WATER RESOURCES COMMISSION

Basin Planning Report ENB-3 1968

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RESTRICTED-USE LANDFILL SITE

For

LANCASTER RECLAMATION COMPANY
(Formerly Ferry Concrete Construction Co., Inc.)
403 Pavement Road
Lancaster, NY 14086

Ву

WENDEL ENGINEERS, P.C. Consulting Engineers/Planners/Surveyors
7405 Canal Road
Lockport, New York

Project No. 1911-2 May 1979



consulting engineers/planners/surveyors 7405 CANAL ROAD LOCKPORT, NEW YORK 14094 716-433-5993 716-625-8228

February 13, 1980

RE: Lancaster Reclamation Company

Facility No. 15 508 Permit Conditions WE Proj. No. 1911-2

New York State Department of Environmental Conservation 584 Delaware Ave. Buffalo, NY 14202

ATTENTION: Mr. John L. Beecher,

Associate Chemical Engineer

Gentlemen:

Please be advised that the Special Condition - Operations No. 1 for the permit issued October 25, 1979 has been met.

The monitoring well was installed in the approximate location shown on the plan Sheet 3 of 3 and in accordance with the monitor well detail shown on the same sheet. Initial samples of water showed a high pH. Additional pumping was accomplished and water samples were taken from the well as well as from four (4) other locations on the site. A copy of the results of the analysis of these samples are included herewith.

You will note that the results of sample point 1, the new monitor well show a high pH as well as a high concentration of phenols. Since one of the other samples revealed similar results we are concerned that the sample taken may reflect a surface run-off water through the crushed stone. We have suggested to the Operator that he install an impermeable clay cap at the ground surface around the well casing to eliminate surface run-off entering the well. When this is accomplished, further samples will be taken and analyzed.

We feel that both high valves will drop off with the elimination of surface run-off.

If you have any questions, please call.

Enc. JAH: jh

xc: Lancaster Reclamation Co.

WENDEL ENGINEERS, P.C.

James A. Huffcut F.E., L.S. Vice President - Engineering

Consulting Engineering, Financial and Environmental services throughout Western New York

APPENDIX A

FIELD PROCEDURES

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#### APPENDIX A

#### FIELD PROCEDURES

These procedures have been utilized by Engineering-Science, Inc. field teams during the Phase II field investigations. These procedures are taken from the NYSDEC-approved "Quality Assurance Project Plan for the Phase II Engineering Investigations and Evaluations at Inactive Hazardous Waste Disposal Sites", dated June, 1987.

The following procedures are contained in this Appendix: drilling overburden and bedrock, monitoring well installations, well development, and sampling program, which includes groundwater sampling, surface water sampling, sediment sampling, and air monitoring. Procedures for performing the geophysical surveys are presented in Appendix B.

#### DRILLING OVERBURDEN AND BEDROCK

The procedures utilized in drilling overburden and bedrock were taken from "Guidelines for Exploratory Boring, Monitoring Wells Installation, and Documentation of these Activities", as promulgated by NYSDEC. These procedures, as found in the project Work Plan and Quality Assurance Plan, were modified in the field with NYSDEC approval, in response to site-specific conditions encountered.

Prior to beginning each well boring, the downhole drilling equipment and tools were steam-cleaned. During the progress of this work, the downhole equipment and tools were generally placed on wooden pallets or sheets of plastic to limit cross-contamination.

Drilling was accomplished with a CME-55 truck-mounted drilling rig. Generally, the overburden was drilled with 4 1/4-inch inside diameter hollow-stem augers. As drilling conditions became more difficult, 3-inch inside diameter flush-joint casing was used. When the 3-inch casing was used, clean water from a municipal supply was used as the drilling fluid. In general, soil samples were collected at intervals of five feet and visually classified in terms of moisture content, color, texture, density and structure. The soil samples were also screened with a Photovac Tip-II photoionization detector to determine the presence of volatile organic compounds. The soil cuttings were also monitored with the Photovac. Since no readings in excess of 5 ppm above background were recorded, the soil materials were left on the ground surface.

Bedrock was cored and sampled utilizing an Nx core barrel and clean water from a municipal supply. The core was placed in wooden boxes and classified in terms of lithology, color, structure and competence.

#### MONITORING WELL INSTALLATION

All wells were constructed of two-inch inside diameter PVC riser pipe and .010-inch slotted screen. Depending on the location, well screens were 5 to 10 feet in length. On several wells, a two-foot sump constructed with PVC riser pipe was attached to the bottom of the screen to limit blockage of the screen by sedimentation. All well materials were steam-cleaned prior to insertion in the borehole.

Once the PVC well materials were set in place through the augers or casing, quartz sand backfill was placed around the well screen with tremie, to a point one to two feet above the screen. For all other well installations when a running sand condition was encountered, the natural formation was allowed to collapse around the well screen.

A bentonite seal was placed above the screen to isolate the screened zone. For deeper well installations, a bentonite slurry was placed above the sand pack with tremie. For the shallow well installations, a bentonite pellet seal two feet thick was placed with tremie. Above the bentonite pellets or slurry, a cement/bentonite grout was placed up to ground surface. A vented PVC cap was placed on the well pipe, and the well was secured with the installation of a locking 6-inch inside diameter steel protective casing.

#### **WELL DEVELOPMENT**

Once the well installation was complete, the well materials were allowed to set-up for a period of approximately 12 hours or more. Each well was then developed by removing water until the water was less than 100 Jackson Turbidity units, or was visually sediment-free.

Development methods included bailing, air-lift pumping, and centrifugal pumping. For the air-lift method, the discharge of the air line was first monitored with a Photovac to ensure readings were not above background. An oil-separating device was placed on the discharge line of the compressor. The air line was steam-cleaned prior to placement in the well. Once the air line was in place just above the screened section, the air pressure was increased until the water could be lifted out of the top of the well casing. Under all development methods, the wells were periodically surged to aid in removing sediment, and all downhole equipment was steam-cleaned prior to insertion in the wells.

#### SAMPLING PROGRAM

The sampling program at the Lancaster Reclamation site consisted of groundwater, surface water, and sediment sampling. Samples were collected in accordance with the Quality Assurance Project Plan. In addition to the media sampled, several types of blanks were collected. A trip blank consisting of organic-free water was prepared by the laboratory and accompanied the sample bottle shipment. This blank provides a measure of the impact of the bottle preparation procedures and shipment on the samples. The trip blanks were analyzed for volatile organic

compounds. A wash blank was collected by pouring organic-free water, provided by the laboratory or a commercial distributor, over the sampling equipment as a measure of the field decontamination procedures. Typically, the wash blank was assigned a non-existent well designation and was analyzed for volatile organic compounds. An atmospheric blank was also collected and analyzed for volatile organic compounds. The atmospheric blank consists of bottles filled with organic-free water, prepared by the laboratory. The bottles are opened during sampling as a measure of the impact of airborn organic contaminants on the sample integrity.

Prior to sampling at each location, the sampling equipment was decontaminated by successively rinsing with detergent (Alconox) water, methanol, and distilled water. After collection of the water samples, field tests were performed on an additional sample to determine pH, temperature and specific conductivity. Field sampling records are presented in Appendix D.

#### **Groundwater Sampling**

Prior to collecting the groundwater samples, the static water level in the well was recorded from the top of the two-inch PVC casing, and at least three well volumes of water were removed with a teflon bailer. The sample bottles were then filled using the same teflon bailer. Dedicated polypropylene rope was used to bail each well.

#### **Surface Water Sampling**

Surface water samples were collected by dipping a stainless steel beaker beneath the water surface, and pouring the sample into the sample bottles.

#### **Sediment Sampling**

Sediment samples were collected with a long-handled stainless steel spoon at the same location that the surface water samples were collected.

#### AIR QUALITY MONITORING

Air quality monitoring for volatile organic compounds with an Photovac Tip-II photoionization meter was implemented during the geophysical surveys, drilling and well installations and sampling events. Monitoring was generally performed as a health and safety measure. The meter was calibrated on a daily basis before use with a 100 ppm isobutylene standard. The intake of the instrument was held at head height for 30 seconds and the reading was recorded. Vapors emanating from surface water were measured by holding the intake 6 to 12 inches above the water for 30 seconds. During drilling, the split-spoon soil samples were held within several inches of the intake to test for volatile organic vapors emanating from the soil samples. The air in the completed well was monitored by placing the intake over the well opening and removing the PVC cap. The intake was then placed into the well opening and readings were recorded.

## GEOPHYSICAL SURVEY METHODS AND RESULTS

#### **APPENDIX B**

#### **GEOPHYSICAL SURVEY METHODS AND RESULTS**

#### **GEOPHYSICAL SURVEY METHODOLOGY**

A geophysical investigation was conducted at the Lancaster Reclamation site in the Town of Lancaster, Erie County, New York. This investigation was part of the Phase II (Third Round) engineering investigations and evaluations at inactive hazardous waste disposal sites in the State of New York, conducted by ES under a contract with the New York State Department of Environmental Conservation (DEC).

#### **Electrical Resistivity (ER)**

A Bison model 2350B resistivity meter was used for the electrical resistivity survey. This instrument has a resolution of one part in 10,000 maximum scale reading and an accuracy of  $\pm 2$  percent per range setting. Typical measurements are indicative of the electrical resistance of the earth (in ohm-meters of ohm-feet) to the conductance of an induced electric current through metal probes, or electrodes, placed in the ground. As a general example of the resistive nature of the subsurface, a fresh-water aquifer will exhibit a relatively high resistivity, compared to a fresh-water aquifer containing polar organic molecules and/or ionized metals which exhibit a relatively low resistivity.

The ER surveys performed consisted of sounding and profiles. Resistivity soundings are indicative of vertical resistivity variations in the earth. Resistivity profiles are indicative of lateral variations in the earth's resistivity.

The ER soundings utilize the Modified Wenner Electrode Array (Carrington and Watson, 1981). The electrode configuration for this method is depicted in Figure 1. In this method, the current electrodes, located furthest from the center of the array, are kept stationary while the potential electrodes, those closest to the center of the array, are moved away from the center in equal increments.

The potential electrode distance closely approximates the depth of investigation into the subsurface. For example, a sounding with a total potential electrode distance of 30 feet would indicate resistivity values at approximately 30 feet below the ground surface.

The ER profiles utilized the Standard Wenner Array (Bison, 1975). The electrode configuration for this method is depicted in Figure 2. In this method, the current and potential electrodes are spaced at equal distances from one another. The depth of investigation is a plane of the subsurface approximately three-fourths to one times the electrode spacing. For example, an electrode spacing of 50 feet in the Wenner Array investigated a plane of the subsurface approximately 38 to 50 feet deep.

#### SITE SPECIFIC METHODS AND RESULTS

The objectives of the geophysical survey at the Lancaster Reclamation site included defining the presence of detectable conductive plumes, delineating significant discontinuities, obtaining supplemental information on geology, and aiding in identifying locations for the placement of borings and monitoring wells.

Geophysical survey techniques utilized at the site were electrical resistivity (ER) soundings and profiles. The objectives of the site investigation provided the basis for the type of geophysical survey employed at the site.

This section describes the procedures used in conducting the geophysical survey at the Lancaster Reclamation site and presents the field survey results. The findings of this study are based on interpretations of data acquired from indirect subsurface investigation methods and are therefore preliminary and subject to verification by direct methods.

#### **Electrical Resistivity Survey - Soundings**

This survey consisted of five soundings. The locations of these soundings are shown on Figure 3. Four soundings were conducted to a depth of 100 feet at the four proposed well locations. A fifth sounding was performed to a depth of 30 feet over one of the on-site disposal cells. Sounding S-1 was performed at the eastern property line of the site, along the access road. Sounding S-2 was performed in the south-western portion of the site near the equipment storage area. Sounding S-3 was conducted off the southwest corner of the site, in the Conrail right-of-way. Sounding S-4 was also performed off the southern portion of the site, approximately 525 feet eastward along the Conrail right-of-way. Sounding S-5 was performed over the southwesternmost on-site disposal cell. The purpose of the soundings was to investigate variations in subsurface resistivity and to relate these variations to subsurface lithology, and past activities in the area. In addition, the soundings were expected to aid in determining the depth to bedrock. This information is useful in determining monitoring well placement.

The electrical resistivity sounding results are tabulated in Tables 1 through 5. The sounding graphs are shown in Figures 4 through 8. Due to the lack of detailed boring logs, the interpretation of the soundings are approximate based upon available information. The influence of lateral variations in resistivity has not been assessed for this site because perpendicular sounding lines were not practical due to topographical limitations. In general, the sounding data indicate that across the site and in adjacent off-site areas to the south, bedrock may be encountered at a depth of 42 to 58 feet. Bedrock is slightly deeper on-site, (56 to 58 feet) than along the Contrail right-of-way, (42 to 44 feet). Fill within the southwesternmost on-site disposal cell may exist to a depth of 6 feet.

#### **Electrical Resistivity Survey - Profiles**

The locations at which 23 profiles were performed are shown on Figure 3. The purpose of the profiles was to investigate the lateral variations in ground resistivity, and in particular, attempt

to identify potential conductive contaminant plumes which may exist beneath the site. The electrical resistivity profile data are summarized in Table 6. The profile data were contoured to identify areas with low resistivity anomalies. Low resistivity areas may indicate a conductive contaminant plume in the subsurface. The contoured profile data are presented in Figures 9 through 12. The profiles were performed to depths of 20, 50, 75, and 100 feet.

Two anomalous areas of low resistivity were identified at the 20-foot depth along the southern portion of the site (Figure 9). The resistivity values in these areas ranged between 54 and 77 ohm-feet. A narrow band of moderate resistivity anomalies were recorded south and southeast of the disposal cell area at the 50-foot depth (Figure 10). The resistivity values in this area ranged between 106 and 193 ohm-feet. This anomalous band also is evident at the 75-foot depth (Figure 11). These anomalies may be associated with conductive contaminant plumes originating in the southernmost disposal cells. The small anomalous area in the southeast corner of the site shown on the 100-foot profile map has a value of 155 ohm-feet (Figure 12).

#### Recommendations

The following recommendations were made at the completion of the geophysical surveys, prior to initiating the monitoring well installations.

- The placement of the four monitoring well couplets as proposed in the work plan appears appropriate to intercept a conductive plume which may exist at the southwestern and southern portions of the site. However, an additional pair of wells (GW-5a and 5b) located in the southeast corner of the site are recommended to provide more complete downgradient coverage (Figure 13). Low to moderate resistivity values were recorded at depth in this area.
- Downgradient well locations GW-3 and GW-4 should be relocated due to buried telephone cables and other utilities off the southwest corner of the site, and along the railroad rightof-way. Installation of wells along the site road is recommended.
- Groundwater analyses should be performed on the samples from the existing deep and shallow well, if the construction details of the wells can be confirmed. Depth to the groundwater in the deep well inside the barn was measured at 24.2 feet below the top of the steel casing.
- The work plan proposes a 20-foot depth for the overburden wells. This estimate is recommended to be increased to at least 30 feet to compensate for the change in elevation of the relocated downgradient wells (GW-3, GW-4 and proposed GW-5) near the site access road.
- The depth of the bedrock interface wells was estimated at 80 feet in the work plan. Based on the geophysical results, these wells may be on the order of 55 to 75 feet deep.

p-p1	dial	scale	corrected	*k	apparent
spacing (feet)	reading (ohms)	multiplier	reading (ohms)	(feet)	resistivity (ohm-ft)
2	15.50	0.01	0.16	2499.80	387.47
4	29.50	0.01	0.30	1249.50	368.60
ő	37.50	0.01	0.38	832.60	312.23
රි	50.00	U.01	0.50	624.00	312.00
10	62.50	0.01	0.63	498.80	311.75
12	74.50	0.01	0.75	415.20	309.32
14	86.50	0.01	0.87	355.40	307.42
16	99.00	0.01	0.99	310.50	307.40
18	111.50	0.01	1.12	275.50	307.18
20	126.00	0.01	1.26	247.50	311.85
22	136.50	0.01	1.37	224.50	306.44
24	147.00	0.01	1.47	205.30	301.79
26	158.50	0.01	1.59	189.10	299.72
28	171.00	0.01	1.71	175.10	299.42
30	181.00	0.01	1.81	162.90	294.85
32	198.00	0.01	1.98	152.30	301.55
34	206.50	0.01	2.07	142.80	294.88
36	216.50	0.01	2.17	134.40	290.98
38	229.50	0.01	2.30	126.80	291.01
40	245.00	0.01	2.45	120.00	294.00
42	257.00	0.01	2.57	113.80	292.47
4.4	268.50	0.01	2.69	108.10	290.25
46	282.50	0.01	2.83	102.90	290.69
48	297.50	0.01	2.98	98.20	292.15
50	308.00	0.01	3.08	93.80	288.90
52	322.50	0.01	3.23 3.37	89.70 85.80	289.28 288.72
54 E.C	336.50	0.01	3.49	82.30	286.82
56 e	348.50	0.01	3.64	79.00	287.17
58	363.50	0.01	3.79	75.80	286.90
60 62	378.50 390.00	$0.01 \\ 0.01$	3.90	72.90	284.31
	402.50	0.01 0.01	4.03	70.10	282.15
64 66	417.50	0.01	4.18	67.50	281.81
68 68	431.50	0.01	4.32	65.00	280.48
70	441.50	0.01	4.42	62.70	276.82
72	457.50	0.01	4.58	60.40	276.33
74	472.00	0.01	4.72	58.30	275.18
76	490.00	0.01	4.90	56.30	275.87
78	504.50	0.01	5.05	54.40	274.45
80	518.50	0.01	5.19	52.50	272.21
82	533.00	0.01	5.33	50.70	270.23
3 <b>4</b>	548.00	0.01	5.48	49.00	268.52
8 <del>ຍ</del> ີ	564.00	0.01	5.64	47.40	267.34
88	579.50	0.01	5.80	45.80	265.41
90	596.50	0.01	5.97	44.30	264.25
92	616.50	0.01	6.17	42.80	263.86
94	637.00	0.01	6.37	41.40	263.72
96	671.50	0.01	6.72	40.10	269.27
98	680.50	0.01	6.81	38.80	264.03
100	895.50	0.01	ธิ.96	57.50	260.81

p-pl spacing (feet)	dial reading (ohms)	scale multiplier	corrected reading (ohms)	*k (feet)	apparent resistivity (ohm-ft)
		0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10		2499.80 1249.50 832.60 624.00 498.80 415.20 355.40 310.50 275.50 247.50 224.50 205.30 189.10 175.10 162.90 152.30 142.80 134.40 126.80 120.00 113.80	(ohm-ft)  1124.91 624.75 1082.38 561.60 448.92 415.20 355.40 372.60 495.90 346.50 314.30 359.28 302.56 306.43 293.22 289.37 378.42 322.56 310.66 306.00 301.57
42 44 46 48 50 54 56 56 56 56 57 72 76 86 86 86 86 86 86 86 86 86 86 86 86 86	26.50 28.00 30.50 37.00 40.50 48.50 65.00 63.50 66.00 73.00 78.00 83.50 88.50 95.50 104.50 112.00 118.50 131.00 136.00 139.50 144.50 148.50	0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	2.80 3.05 3.20 3.70 4.05 4.85 6.50 6.35 6.60 7.30 7.80 8.35 8.85 9.55 10.45 11.05 11.20 11.85 13.10 13.60 13.95 14.45 14.85	108.10 102.90 98.20 93.80 89.70 85.80 82.30 79.00 75.80 72.90 70.10 67.50 65.00 62.70 60.40 58.30 56.30 54.40 52.50 50.70 49.00 47.40 45.80	302.68 313.85 314.24 347.06 363.28 416.13 534.95 501.65 500.28 532.17 546.78 563.63 575.25 598.79 631.18 644.22 630.56 644.64 687.75 689.55 683.55 684.93 680.13
90 92 94 96 98 100	152.00 156.50 158.50 162.50 165.30 171.50	0.10 0.10 0.10 0.10 0.10 0.10	15.20 15.65 15.85 16.25 16.55 17.15	44.30 42.80 41.40 40.10 38.80 37.50	673.36 669.82 656.19 651.63 642.14 643.13

p-pl spacing (feet)	dial reading (ohms)	scale multiplier	corrected reading (ohms)	*k (feet)	apparent resistivity (ohm-ft)
spacing (feet)  24 68 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44	reading		reading		resistivity
46 48 52 54 56 68 68 77 77 78 80 81 90 91 90 90 90	410.50 442.50 48.50 53.50 55.50 51.50 62.50 64.00 67.50 74.00 74.00 77.50 79.00 82.00 84.50 80.00 81.50 81.50 91.00 97.50 100.50	0.01 0.10	4.43 4.80 4.85 5.35 5.55 5.85 6.20 6.25 6.25 6.25 6.27 7.40 7.79 7.40 7.79 8.45 8.60 8.15 9.75 10.25	98.20 93.80 89.70 85.80 82.30 79.00 75.80 72.90 70.10 67.50 62.70 60.40 58.30 56.30 54.40 52.50 50.70 49.00 47.40 45.80 44.30 42.80 41.40 38.80 37.50	422,40 434.53 450.24 435.05 454.74 456.77 438.45 443.43 446.34 438.12 438.75 429.50 443.94 431.42 416.62 421.60 414.75 415.74 414.05 379.20 393.88 361.05 400.18 376.74 390.98 389.94 384.38

p-p1 spacing (feet)	dial reading (chms)	scale multiplier	corrected reading (ohms/	*k (feet)	apparent resistivity (ohm-ft)
spacing	reading		reading		resistivity
88 90 92 94 96 98 100	41.00 42.50 43.00 44.50 45.50 46.50	0.10 0.10 0.10 0.10 0.10 0.10	3.95 4.10 4.25 4.30 4.45 4.55 4.65	45.80 44.30 42.80 41.40 40.10 38.80 37.50	181.63 181.90 178.02 178.45 176.54 174.38

TABLE 5: LANCASTER RECLAMATION SOUNDING 5

p-p1 spacing (feet)	dial reading (ohms)	scale multiplier	corrected reading (ohms)	*k (feet)	apparent resistivity (ohm-ft)
2 4 6 8 10 12 14 16 18 20 22 24 26 28	4.00 7.00 10.50 13.50 17.00 21.00 24.00 27.00 30.00 34.00 36.50 40.50 44.50 48.50	0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	0.40 0.70 1.05 1.35 1.70 2.10 2.40 2.70 3.00 3.40 3.65 4.05 4.45 4.85	224.80 112.00 74.30 55.30 43.80 36.00 30.40 26.10 22.80 20.00 17.70 15.80 14.10 12.60	89.92 78.40 78.02 74.66 74.46 75.60 72.96 70.47 68.40 68.00 64.61 63.99 62.75 61.11
30	53.00	0.10	5.30	11.30	59.89

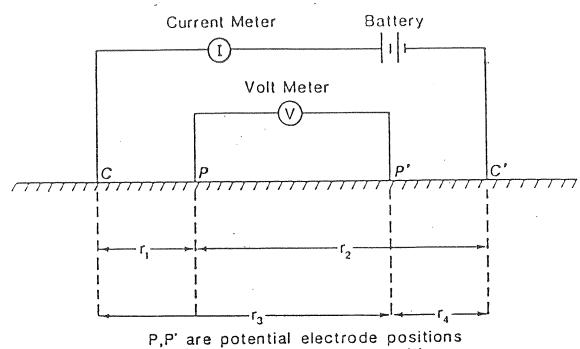
TABLE 6

LANCASTER RECLAMATION

ER PROFILE DATA SUMMARY

(ohm-feet)

Profile		Profile	e Depth	
Location	20-Foot	50-Foot	75-Foot	100-Foot
2–1	144	217.5	311.25	430
)	159	217.5	303.75	360
. 2 P-3	71	192.5	123.75	155
2-4	64	107.5	172.5	430
P-5	54	185	146.25	230
2-6	74	147.5	172.5	260
P-7	104	205	281.25	410
P-8	136	215	288.75	350
P <b>-</b> 9	189	232.5	311.25	375
2-10	297	265	337.5	435
P-11	185	275	401.25	490
P-12	198	297.5	420	525
P-13	296	350	438.75	535
P-14	153	195	367.5	460
₽-15	136	337.5	468.75	585
P-16	222	347.5	532.5	405
P-17	64	227.5	337.5	465
P-18	151	247.5	660	785
P-19	187	247.5	330	420
P-20	77	145	202.5	245
P-21	167	275	386.25	440
P-22	225	390	345	430
P-23	277	300	412.5	435



C,C' are current electrode positions

Formula for Apparent Resistivity

$$\rho = (2nR) \left[ \frac{1}{1/r_1 - 1/r_2 - 1/r_3 + 1/r_4} \right]$$

Where R represents the resistance measured by the ratio V/I in ohms r<sub>1</sub>, r<sub>2</sub>, r<sub>3</sub>, and r<sub>4</sub> are electrode separation distances

Specifically  $r_1$  is the distance from potential electrode P to current electrode C

r<sub>2</sub> is the distance from potential electrode P to current electrode C'

r3 is the distance from potential electrode P' to current electrode C

r4 is the distance from potential electrode P' to current electrode C'

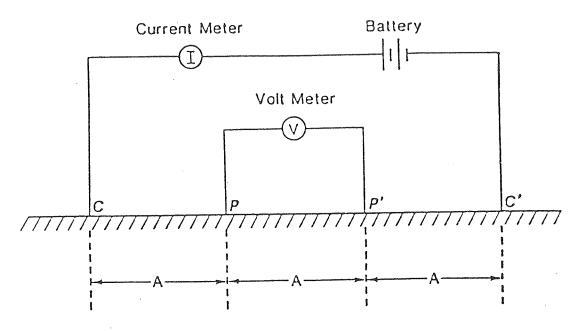
NOTE: The quantity  $(2\pi R)$  or  $(2\pi V/I)$  was read directly from the Bison Resistivity meter used.

SOURCE: Carrington & Watson, 1981

### ENGINEERING-SCIENCE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PHASE II REPORT

Modified Wenner Array LANCASTER RECLAMATION



P, P' are potential electrode positions C, C' are current electrode positions

Formula for Apparent Resistivity  $\rho = A(2\pi R)$ 

Where A represents the electrode spacing

R represents the resistance measured by the ratio V/I in ohms

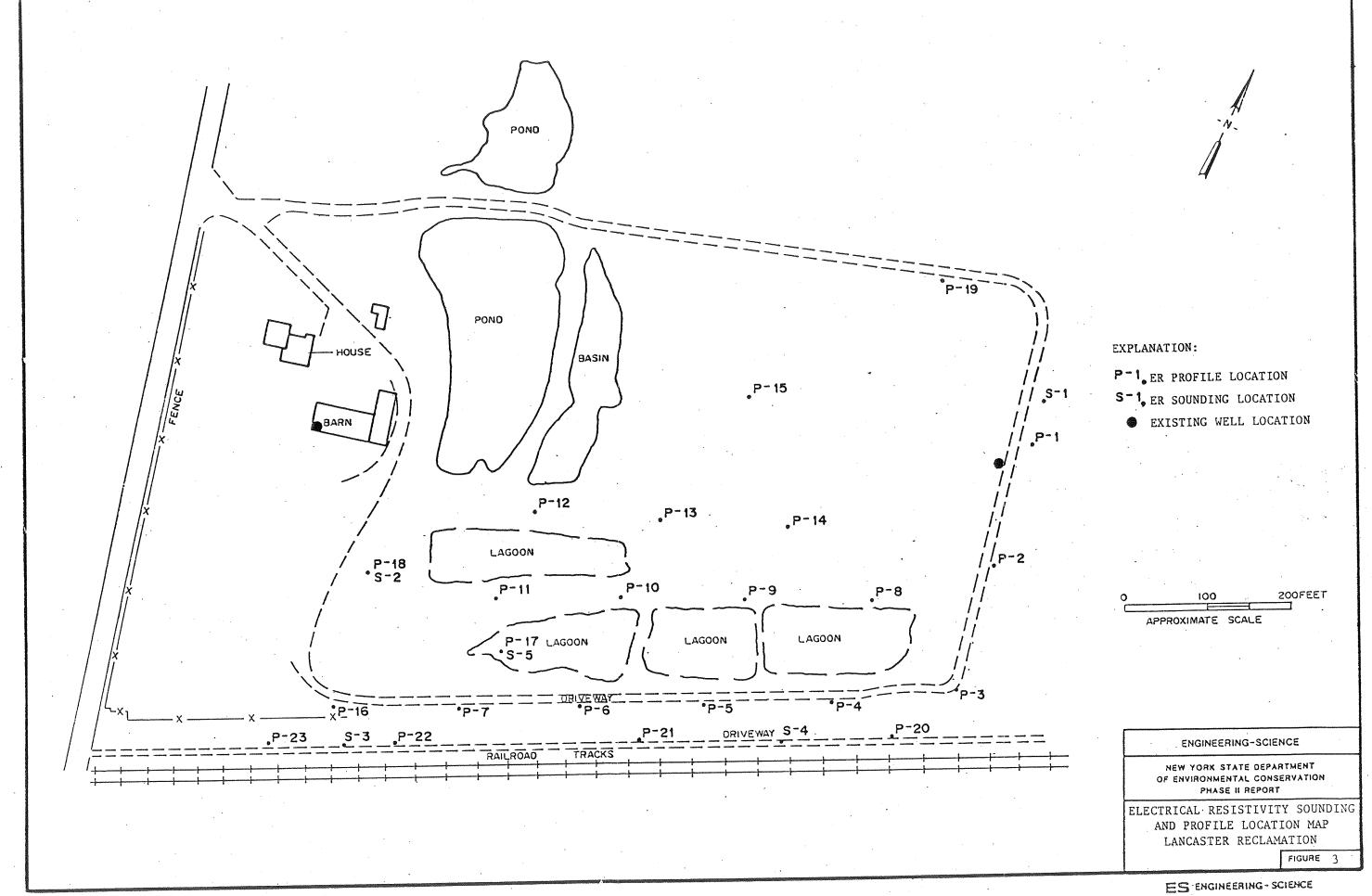
NOTE: The quantity  $(2\pi R)$  or  $(2\pi V/I)$  was read directly from the Bison resistivity meter used.

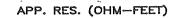
SOURCE: Bison, 1975

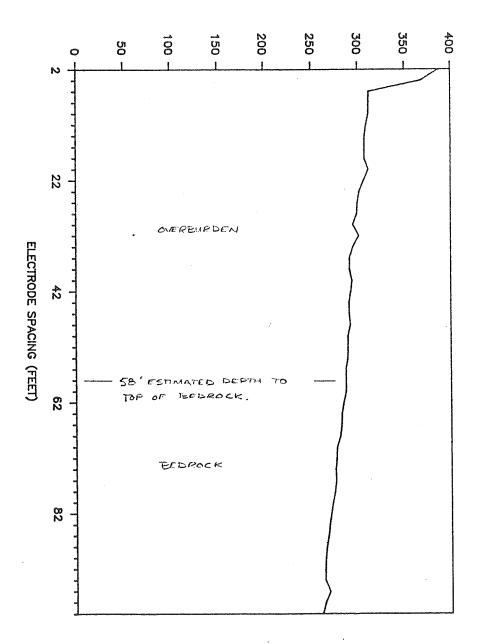
ENGINEERING-SCIENCE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PHASE II REPORT

Wenner Array
LANCASTER RECLAMATION

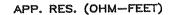


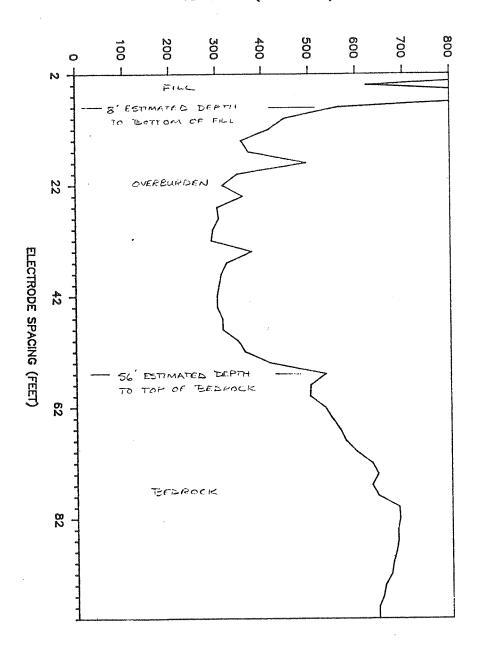




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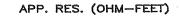
ELECTRICAL RESISTIVITY
SOUNDING PLOT S-1
LANCASTER RECLAMATION

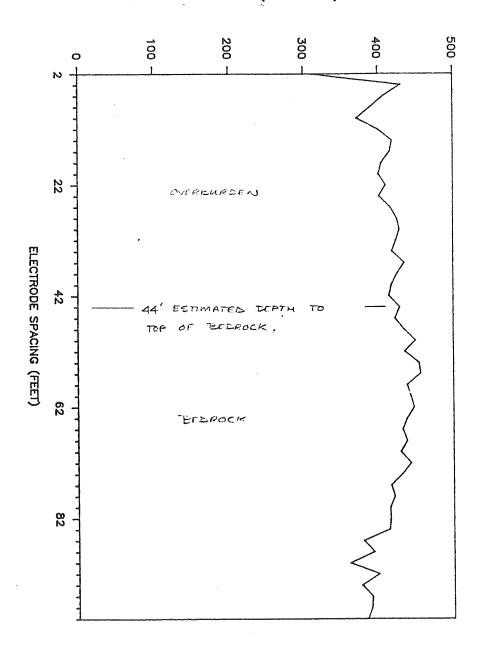




NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PHASE II REPORT

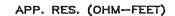
ELECTRICAL RESISTIVITY
SOUNDING PLOT S-2
LANCASTER RECLAMATION

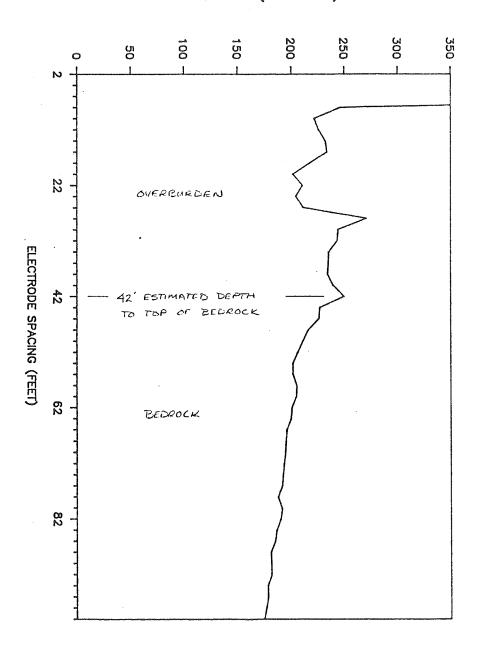




NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PHASE II REPORT

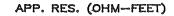
ELECTRICAL RESISTIVITY
SOUNDING PLOT S-3
LANCASTER RECLAMATION

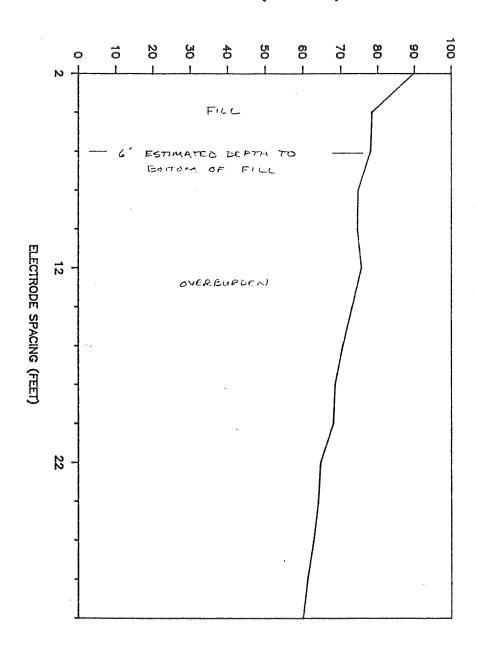




NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PHASE II REPORT

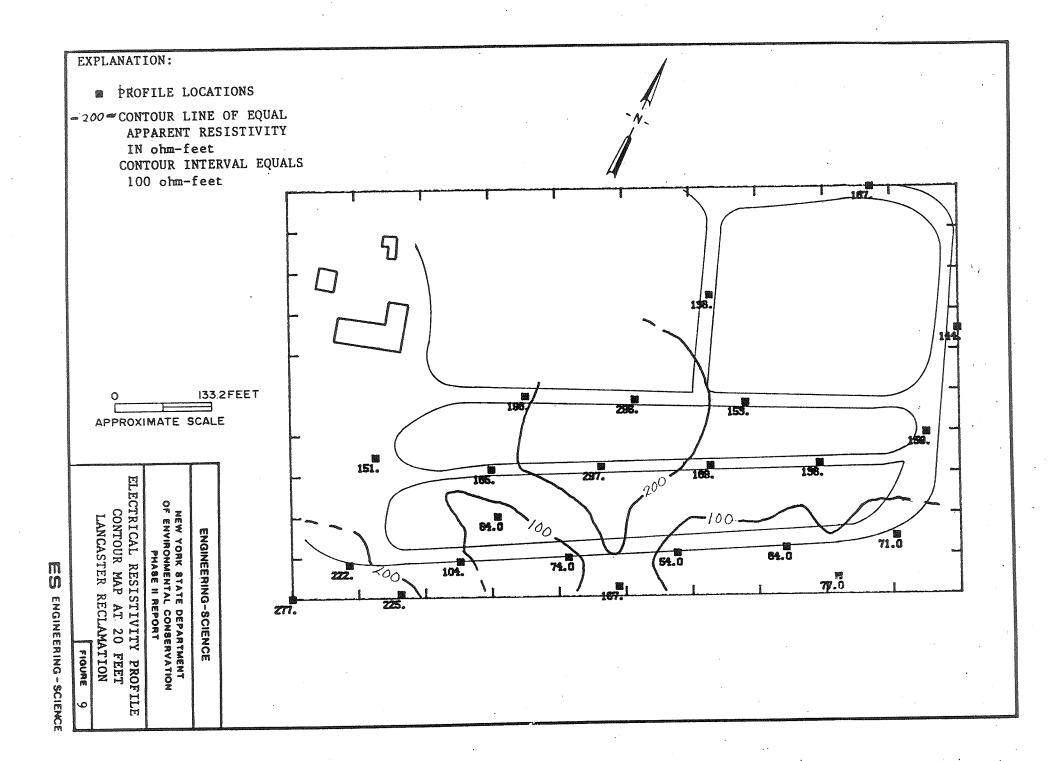
ELECTRICAL RESISTIVITY SOUNDING PLOT S-4 LANCASTER RECLAMATION

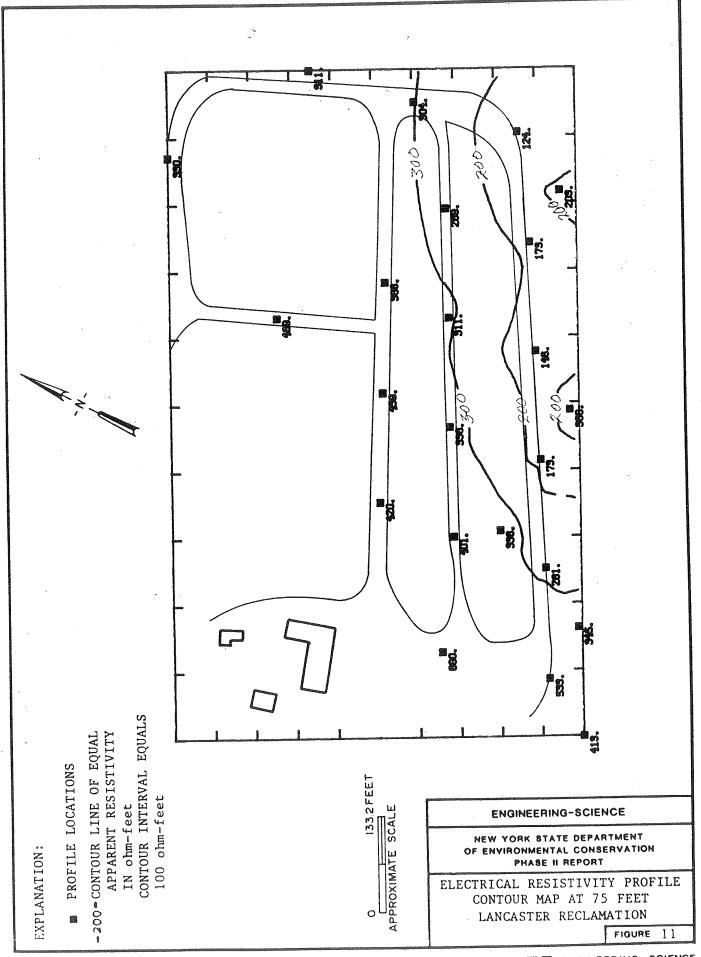


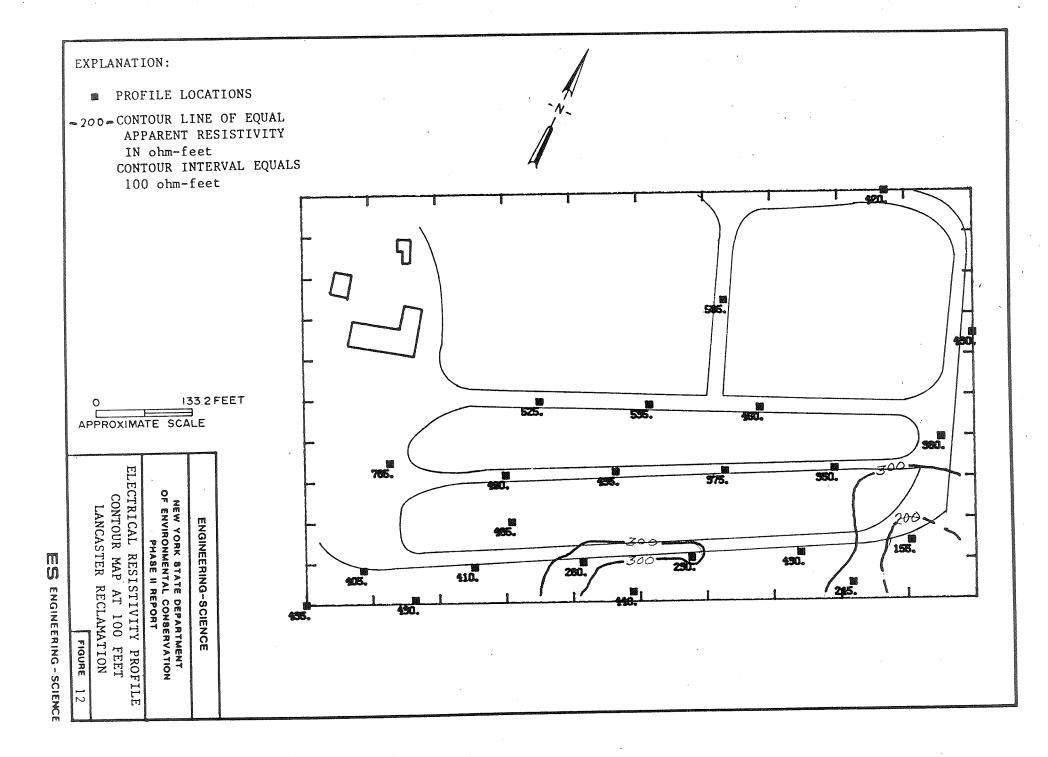


NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PHASE II REPORT

ELECTRICAL RESISTIVITY SOUNDING PLOT S-5 LANCASTER RECLAMATION







# **GEOPHYSICAL SURVEY RAW DATA**

# SOUNDING 1

# ENGINEERING-SCIENCE, INC. RESISTIVITY DATA SHEET MODIFIED WENNER ARRAY

•		,				s <sup>ec</sup>
Job No. 57	012.14		Date		23 JUNE	1987
Site Name LA	NCASTER	REC	c <sub>1</sub> -c <sub>2</sub>	Spaci	ng 200	feet
Observers BAKE	-R BONN	DER STANG	;, Depth	of In	vestigation _	100 feet
Comments (soil						
Test Mode Dial	Reading _	32/.5	Test	Mode C	urrent <u>18,5</u>	milliamperes
P-P <sub>1</sub> Electrode	Dial Reading	Scale Multiplier	Corrected Reading	*K	Apparent Resistivity	Cumulative

Test Mode Dial	Reading _	<i>3</i> 2/.S	Test	Mode C	urrent <u>18,5</u>	milliamperes
P-P Electrode Spacing (feet)	Dial Reading (ohm)	Scale Multiplier	Corrected Reading (ohm)	*K (feet)	Apparent Resistivity (ohm-feet)	Cumulative Resistivity (ohm-feet)
2	15.5	. 61	0.155	2499.8	387,46	
4	29.5	.0/	0.295	1249.5	368,60	
6	37.5	.01	0.375	832.6	3/2,22	,
. 8	5°0	.01	0.50	624.0	312	. :
10	62.5	.01	0.625	498.8	311.75	,
12	74.5	, 0/	0.745	415.2	309, 32	
14	86.5	. 01	0.865	355.4	307, 42.	·
16	99	. 01	0.99	310.5	307.39	
. 18	111.5	.01	1.115	275.5	307, 18	
20	126	.00	7.26	247.5	311.85	
22	136.5	.01	1.365	224.5	306,44-	
24	147	.01	1.47	205.3	301.79	

5-1

P-P Electrode Spacing (feet)	Dial Reading (ohm)	Scale Multiplier	Corrected Reading (ohm)	*K (feet)	Apparent Resistivity (ohm-feet)	Cumulative Resistivity (ohm-feet)
26	158,5	,0/	1,585	189.1	299,72	
28	171	.01	1.71	175.1	299.42	
30	181	101	1.81	162.9	294.84	
32 ,	198	, 0/	1.98	152.3	301,55	
34	206.5	· O/	2.065	142.8	294.88	
36	216.5	.01	2.165	134.4	290.97	
38 .	J29.5	.01	2.295	126.8	291.00	
4C	245	- 0/	2.45	120.0	294.00	
42	-257	-0/	2.57	113.8	292,46	
44	268.5	-01	2.685	108.1	290.24	
46	282.5	.01	2.825	102.9	290.69	
. 48	297.5	.01	2.975	98.2	292.14-	
50	308	, 07	3.08	. 93.8	288.90	
52	322.5	. 0/	-3,225	89.7	289, 28	
54	336.5	, 01	3.365	85.8	288,71	
56	348-5	.01	3.485	82.3	286.81	

P-P <sub>1</sub> Electrode Spacing (feet)	Dial Reading (ohm)	Scale Multiplier	Corrected Reading (ohm)	*K (feet)	Apparent Resistivity (ohm-feet)	Cumulative Resistivity (ohm-feet)
58	363.5	. 0/	3.635	79.0	287.16	
60	378.5	01	3.785	75.8	286.90	
62	390	-01	3.90	72.9	284,31	-
64	402.5	·0/	4.025	70.1	282.15	
66	417.5	. 0/	9.175	67.5	281,81	
68	431.5	. 0/	4.315	65.0	286.47	
70	441.5	,01	4.415	62.7	276.82	
72	457.5	.01	4.575	60.4	276.33	
74	472	. 01	4.72	58.3	275.17	•
76	490	.01	4.90	56.3	275.87	
78	504.5	.01	5.045	54.4	274,44	•
80	518.5	.01	5.185	. 52.5	272,21	÷
82	533	٠٥/	5,33	50.7	276,23	
84	548	.08	5.48	49.0	268,52	
86	564	,0/	5.64	47.4	267,33	
88	579.5	. 0/ •	5.795	45.8	265,41	

5 - 1	1
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Contract of the Contract of th						
P-P Electrode Spacing (feet)	Dial Reading (ohm)	Scale Multiplier	Corrected Reading (ohm)	*K (feet)	Apparent Resistivity (ohm-feet)	Cumulative Resistivity (ohm-feet)
90	596.5	.0/	5.965	44.3	264.24	
92	616.5	-0/	6.165	42.8	263.86	
94	<b>6</b> 37	.01	6-37	41.4	263,71	
96	671.5	- 0/	6.715	40.1	269, 27	·
98	686.5	.0/	6.805	38.8	264,03	· .
100	695.5	.01	6.955	37.5	260,81	

\*Apparent Resistivity = 
$$(2\pi R)$$
 
$$\left[\frac{1}{1/r_1 - 1/r_2 - 1/r_3 + 1/r_4}\right]$$
 where K = []

and  $2\pi$ R = Dial Reading x Scale Multiplier

# ENGINEERING-SCIENCE, INC. RESISTIVITY DATA SHEET MODIFIED WENNER ARRAY



Job No. 57012.74	Date JUNE 23, 19	87
Site Name LANCASTER REC	C <sub>1</sub> -C <sub>2</sub> Spacing 200	feet
Observers BAKER, BONNER, STANGL	Depth of Investigation	100 feet
Comments (soil conditions, etc.)	1015T	
Test Mode Dial Reading	Test Mode Current26 336	Milliamperes

:						. <del>-</del>
P-P Electrode Spacing (feet)	Dial Reading (ohm)	Scale Multiplier	Corrected Reading (ohm)	*K (feet)	Apparent Resistivity (oh:n-feet)	Cumulative Resistivity (ohm-feet)
2	<i>4,</i> 5	0.1	0,45	2499.8	1124,91	
4	5	0.1	0.5	1249.5	624.75	
6	13	0.1	1.3	832.6	1082.38	,
	9	0.1	8.9	624.0	561:60	,
10	900	0.1	6.9	498.8	448,92	
12	10	0.1	/	415.2	415,20	
14	10	0.1	/	355.4	355.4	
16	12	0.1	1.2	310.5	372.6	
. 18	18	0.1	1.8	275.5	495,9	1
20	14	0.1	1,4	247.5	346,50	
22	14	0.1	1.4	224.5	314,30	
24	17.5	0.1	1.75	205.3	359.27	

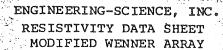
frequency consequences and a second s	A			X	<u> </u>	the second commence of the second commence of
P-P Flectrode Spacing (feet)	Dial Reading (ohm)	Scale Multiplier	Corrected Reading (ohm)	*K (feet)	Apparent Resistivity (ohm-feet)	Cumulative Resistivity (ohm-feet)
26	16	0.1	1.6	189.1	302,56	)
28	17.5	0.1	1.75	175.1	306,42	*
30	18	0.1	1.8	162.9	293.22	
32	19	0.1	-1.9	152.3	289.37	
34	26.5	0.1	2.65	142.8	378,42	~~ · · ·
36	24	0.1	2.4	134.4	322.5%	
38	24.5	0.1	2.45	126.8	310,66	•
40	25.5	0.1	2.55	1 20 , 0	306.00	
42	26,5	0.1	2.65	113。8	301,57	
44	28	0.1	2.8	108.1	302,68	
46	30.5	0.1	3.05	102.9	313.84	
48	32	0.1	3.2	98.2	314,24	
50	37	0.1	3.7	93.8	347,06	
52	40.5	0.1	4.05	89.7	363,28	
54	48.5	0.1	4.85	85.8	416.13	
56	65	0.1	6.5	82.3	534.95	

P-P <sub>1</sub> Electrode Spacing (feet)	Dial Reading (ohm)	Scale Multiplies	Corrected Reading (ohm)	*K (feet)	Apparent Resistivity (ohm-feet)	Cumulative Resistivity (ohm-feet)
58	63.5	0.1	6,35	79.0	501.65	
60	66	0.1	6.6	75.8	500,28	
62	73	0.1	7.3	72.9	532,17	
64	78	0.1	7.8	70.1	546.78	:
66	83.5	0,1	8.35	67.5	563.62	
68	88.5	0.1	8.85	65.0	575.25	
70	95.5	0.1	9,55	62.7	598.78	
72	104.5	0:/	10.45	60.4	631.18	
74	170,5	0.7	11.05	58.3	644,21	
76 ,	112	0.1	11,2	56.3	630.56	;
78	118.5	0.1 .	11.85	54.4	644.64	}
80	131	0.1	/3./	. 52.5	687.75	. : : :
82	136	0.1	13.6	50.7	689.52	!
84	139.5	0./	13.95	49.0	683.55	:
86	144.5	0.1	14.45	47.4	684.93	
88	148,5	0.1	14.85	45.8	680.13	

P-P Electrode Spacing (feet)	Dial Reading (ohm)	Scale Multiplier	Corrected Reading (ohm)	*K (feet)	Apparent Resistivity (ohm-feet)	Cumulative Resistivity (ohm-feet)
90	152	0.1	15.2	44.3	673.36	
92	156.5	0.1	15.65	42.8	669.82	
94	158.5	0.1	15.85	41.4	656,19	-
96	162.5	0.1	16.25	40.1	651.62	
98	165.5	0.1	16.55	38.8	642.14	-
100	171.5	0.7	17.15	37.5	643.12	

\*Apparent Resistivity = 
$$(2\pi R)$$
  $\left[\frac{1}{1/r_1 - 1/r_2 - 1/r_3 + 1/r_4}\right]$  where  $K = [1]$ 

and  $2\pi R$  = Dial Reading x Scale Multiplier



SOUNDING 3: LANCASTER REC

Job No. 57012.14	Date JUNE 23, 1987 .
Site Name LANCASTER REC	C <sub>1</sub> -C <sub>2</sub> Spacing 200 feet
Observers BAKER, BONNER, STANGL	Depth of Investigation 100 feet
Comments (soil conditions, etc.)	MOIST
Test Mode Dial Reading 32/5	Test Mode Current 28.5 milliamperes

A					45,5	
P-P Electrode Spacing (feet)	Dial Reading (ohm)	Scale Multiplier	Corrected Reading (ohm)	*K (feet)	Apparent Resistivity (ohm-feet)	Cumulative Resistivity (ohm-feet)
2	12.5	0.01	٥.125	2499.8	312,47	
4	34.5	0.01	0.345	1249.5	431.67	
6	49	0.01	0.49	832.6	407,97	,
8	62.5	0.01	0.625	624.0	390.0	
10	74.5	0.01	0.745	498.8	371.60	
12	96.5	0.01	0,965	415.2	400.66	
14	118	0.01	1.18	355.4	419.37	;
16	134	0.01	1.34	310.5	416.07	t i
18	147	0.01	1.47	275.5	404.98	
20	162	0.01	1.62	247.5	400.95	
22	183	0.01	1.83	224.5	410,83	
24	195.5	0.01	1.955	205.3	401.36	

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P-P Electrode Spacing (feet)	Dial Reading (ohm)	Scale Multiplier	Corrected Reading (ohm)	*K (feet)	Apparent Resistivity (ohm-feet)	Cumulative Resistivity (ohm-feet)
26	220.5	0.01	2.205	189.1	416.96	e de la companya de l
28	243	0.01	2,43	175.1	425,49	
30	263.5	0.01	2.635	162.9	429,24	
32 .	278.5	d.01	2.785	152.3	424.15	:
. 34	293	0.01	2.93	142.8	418, 40	
36	324	0.01	3.24	134.4	4:35,45	
38	332.2	0.01	3.355	126.8	425.41	
40	348	0.01	3.48	120.0	417.60	
42	364	0.01	3.64	113.8	414.23	
44	397	0.01	3.97-	108.1	429.15	
46	410.5	0.01	4.105	102.9	427,40	
. 48	442.5	0.01	4.425	98.2	434.53	
50	48	0.1	4.80	93.8	450.24	
52	48.5	0.1	4.85	89.7	435.04	7.44.
. 54	53	0.1	5.30	85.8	454.74	
56	55,5	0.1	5.55	82.3	456.76	

P-P <sub>1</sub> Electrode Spacing (feet)	Dial Reading (ohm)	Scale Multiplier		*K (feet)	Apparent Resistivity (ohm-feet)	Cumulative Resistivity (ohm-feet)
58	55.5	0.1	5,55	79.0	438,45	
60	58.5	0.1	5.85	75.8	443.43	10.07
62	61.5	0.1	6.15	72.9	448,33	
64	62.5	0.1	6.25	70.1	438.12	
66	64	0.1	6.4	67.5	432.0	
68	67.5	0.1	6.75	65.0	438.75	
70	68.5	0.1	6.85	62.7	429.49	
72	73.5	0.1.	7.35	60.4	443.94	
74	74	0.1	7.4	58,3	431.42	
76	74	0.1	7.4	56.3	416,62	,
78	77.5	0.1	7.75	54.4	421.60	
80	79	0,1	7.9	. 52.5	414.75	÷
82	82	0.1	8.2	50.7	415,74	
84	84.5	0.1	8.45	49.0	414.05	
86	80	0,1	8.0	47.4	379.20	
88	86	0.1	8.6	45.8	393.88	

P-P Electrode Spacing (feet)	Dial Reading (ohm)	Scale Multiplier	Corrected Reading (ohm)	*K (feet)	Apparent Resistivity (ohm-feet)	Cumulative Resistivity (ohm-feet)
90	81.5	0.1	8.15	44.3	361.04	
92	93.5	0.1	9.35	42,8	400.18	
94	91	0.1	0.1	41.4	376,74	
96	97.5	0,1	9.75	40.1	390,97	
98	100.5	0.1	10.05	38.8	389.94	·
100	102.5	0.1	10.25	37.5	384,37	

\*Apparent Resistivity = 
$$(2\pi R)$$
  $\left[\frac{1}{1/r_1 - 1/r_2 - 1/r_3 + 1/r_4}\right]$  where K = [ ]

and  $2\pi$ R = Dial Reading·x Scale Multiplier

# ENGINEERING-SCIENCE, INC. RESISTIVITY DATA SHEET MODIFIED WENNER ARRAY

SOUNDING 4.

Job No. 54012.14	Date JUNE 23 A87	
Site Name LANCASTER REC	C <sub>1</sub> -C <sub>2</sub> Spacing200	And the second of the
Observers BAKER, BONNER, STANGEL	Depth of Investigation	100 feet
Comments (soil conditions, etc.)	57	ing specific contract processing the second
Test Mode Dial Reading 3215	Test Mode Current 28.5	milliamperes

						•
P-P Electrode Spacing (feet)	Dial Reading (ohm)	Scale Multiplier	Corrected Reading (ohm)	*K (feet)	Apparent Resistivity (ohm-feet)	Cumulative Resistivity (ohm-feet)
2	19.5	0.1	1.95	2499.8	4874.61	
4	12.5	0 ,1	1.25	1249.5	1561.87	
: 6	9.5	0./	0,95	832.6	790.97	)
8	39,5	0.01	0.395	624.0	246.48	,
10	44.5	0.01	0.445	498.8	221.96	:
12	54.5	0.01	0.545	415.2	226.28	,
14	65.5	0.01	0.655	355.4	232.78	1
16	75.5	0.01	0.755	310.5	234.42	,
18	79.0	0.01	0,79	275.5	217.64	:
20	81.5	0.01	0.815	247.5	201.71	
22	94.0	0.01	0.940	224.5	211.03	
24	99.5	0.01	0.995	205.3	264.27	

5	-4
---	----

P-P Electrode Spacing (feet)	Dial Reading (ohm)	Scale Multiplier	Corrected Reading (ohm)	*K (feet)	Apparent Resistivity (ohm-feet)	Cumulative Resistivity (ohm-feet)
26	112.0	0.01	1.12	189.1	211.79	
28	15.5	0.1	1.55	175.1	271.40	
30	15.0	0.1	1.50	162.9	244.35	
32	16.0	0.1	1-60	152 - 3	243.68	1 :
34	16.5	0.1	1.65	142.8	235.62	
. 36	17.5	0.1	1.75	134,4	235.20	
38	18.5	0.1	1.85	126.8	234.58	
40	20.0	0.1	2.0	120.0	240	1
42	22.0	0.1	2.20	113.8	250,36	
44	21.0	0.1	2.10	108.1	227.01	
46	22.0	0.1	2.20	102.9	226.38	
. 48	22.0	0.1	2.20	98.2	216.04	0.0000000000000000000000000000000000000
50	22.5	0.1	2.25	93.8	Z11.05	
52	23	0.1	2.3	89.7	206.31	
54	23.5	0.1	2,35	85 . 8	201.63	and the same and t
56	24.5	0.1	a.45	82.3	201.63	The state of the s

P-P Electrode Spacing (feet)	Dial Reading (ohm)	Scale Multiplier		*K (feet)	Apparent Resistivity (ohm-feet)	Cumulative Resistivity (ohm-feet)
58	26	0./	2.6	79.0	205,40	
60	27	0.1	d.7	75.8	204,66	
62	27.5	0.1	2.75	72.9	200.47	1
64	28.5	0.1	2.85	70.1	199.79	
66	29	0-1	2,9	67.5	195.75	
68	30	0.1	3.0	65.0	195	
70 :	31	0.1	3,/	62.7	194.37	
72 '	32	0.(	3.2	60.4	193.28	
74	33	0.1	3.3	58.3	192.39	
76	34	0.1	3.4	56.3	191.42	
78	34.5	0.1	3.45	54.4	187.68	
80	36.5	0.1	3.65	. 52 . 5	191.62	
82	37.5	0.1	3.75	50.7	190.12	1
84 '	38	0.1	3.8	49.0	186.20	
86	39	0./	3.9	47.4	184.86	
88	39.5	0.1 .	3.95	45.8	180.91	

4

P-P Electrode Spacing (feet)	Dial Reading (ohm)	Scale Multiplier		*K (feet)	Apparent Resistivity (ohm-feet)	Cumulative Resistivity (ohm-feet)
90	41	0.1	4.7	44.3	181.63	Commission and Commis
92	42.5	0.1	.4.25	42.8	181.90	,
94	43	0.1	4.3	41.4	178.02	
96	44.5	0.1	4.45	40.1	178.44	·
98	45.5	0.1	4.55	38.8	176.54	
100	46.5	0.1	4.65	37.5	174,37	

\*Apparent Resistivity =  $(2\pi R)$   $\left[\frac{1}{1/r_1 - 1/r_2 - 1/r_3 + 1/r_4}\right]$  where K = []

and  $2\pi R$  = Dial Reading x Scale Multiplier

Sounding 5 Lancaster Rec

# ENGINEERING-SCIENCE, INC. RESISTIVITY DATA SHEET MODIFIED WENNER ARRAY

Job No. 570	Date June 25, 1987					
Site Name Land	eas ter	Rec-	C <sub>1</sub> C <sub>2</sub>	Spacin	g 60 feet	
Observers BAKE	R, BONNE	R STANGL	, Van Depth	of Inv	restigation	30 feet
Comments (soil	condition	s, etc.)	Dam	P	The state of the s	dans, ar acrossorrommonomos, no caratro i de
Test Mode Dial	Reading _	318.	Test	Mode Cu	28.5	milliamperes
P-P Electrode Spacing (feet)	Dial Reading (ohm)	Scale Mulciplier			Apparent Resistivity (ohm-feet)	
2	4.0	0./	.40	224.8	89.92	, , , , , , , , , , , , , , , , , , ,
4	7.0	0.1	.70	112.0	78.40	a
€	10.5	0.1	1-05	/&.3	78.01	
8	13-5	0.1	1.35	5.3	74.65	
10	17-0	0 -1	1-70	43.8	74.46	
12	21.0	0.1	2.10	36.0	75.60	No. of the contract of the con
14	24-0	0.1	2.40	30.4	72.96	
16	270	0.1	2.7	26.1	70,47	and the first the second second of the first the second second
18	30.0	0-1	3	22.8	68.40	Annual a processor and the contract of the con
20	34.0	0.(	3.4	20.0	68	
22	36.5	0.1	3.65	17.7	64.60	
24	40.5	0-1	4.05	15.8	63.99	

P-P <sub>1</sub> Electrode Spacing (feet)	Dial Reading (ohm)	Scale Multilier	Corrected Reading (ohm)	%K (f∈et)	Apparent Resistivity (ohm-feet)	Cumulative Resistivity (ohm-feet)
26	44.5	0.1	4.45	74.1	62.74	A 1186
28	48.5	0.1	4.85	12.6	61.11	a constanting of the A.V. T. T.
30	53.0	0.1	5.30	11.3	59.89	

\*Apparent Resistivity = 
$$(2\%R)$$
  $\left[\frac{1}{r_1} - \frac{1}{1/r_2} - \frac{1}{1/r_3} + \frac{1}{1/r_4}\right]$  where K =  $(1)$ 

and  $2\pi R$  = Dial Reading x Scale Multiplier

## ENGINEERING-SCHEMOE, INC. RESISTIVITY FROFILE DATA SAVET

Job No 540.	12.14			Date	JE 24, 1987
Site Name LANC	•	•	Si	te Location <u>LANC</u>	ASTER, NY
		NGL " I'	Commitats (Soir conditate	ions, etc.)	MOIST
	(name, serial #)		Electrode Array	Method Used	JENNER
	Reading3		West Mode Curren	t 28.5	milliamperes
Station Location	Electrode Spacing (feet)	27V/I (ohms)	Scale Mültiplier	Corrected Reading (ohms)	Apparent Resistivity (ohm - feet)
P-1	20	72	0.1	7. Z	144
P-1	. 50	43,5	٥. ا	4.35	217.5
P-1	75	41.5	0.1	4.15	311.25
P-1	100	43	٥٠١	4.3	430
P- Z	20	79.5	0.1	7.95	159
P-Z	575	43.5	0.1	4.35	217.5
P-2	75	40.5	10.1	4.05	303,75

Bison Unit: Apparent Resistivity = Electrode Spacing x  $(2\pi V/I \times Scale Multiplier)$  where ( ) = Corrected Reading

Form B-1 Page Z of 4

LANCASTER REC JUNE 24, 1987

Station Location	Electrode Spacing (feet)	2π V/I (ohms)	Scale Multiplier	Corrected Reading (ohms)	Apparent Resistivity (ohm - feet)
P-2	100	36	0.1	3.6	360
P-3	20	35.5	0.1	3.55	71
P-3	570	38,5	0./	3.85	192.5
P-3	75	16.5	0.1	1.65	/ 23.75
P-3	, 100	15.5	0.1	1-55	155.0
P-4	20	32	0.1	3.2	64
P-4	58	21.5	0.1	2.15	107.5
P-4	75	23	0.1	2.3	172.5
ρ-4	100	43	0.1	4.3	430
P-5	20	27	0.1	2.7	54

Form B-1
Page 3 of 9

LANCASTER REC. June 24, 1987

Station Location	Electrode Spacing (feet)	2π V/I (ohms)	Scale Multiplier	Corrected Reading (ohms)	Apparent Resistivity (ohm - feet)	
P-5	50	37	0.1	3.7	185.0	
1-5	75	19.5	0.1	1.95	146.25	
1-5	100	23	0.1	2.3	230.0	
P-6	. 20	37	0.1	3.7	74.0	
P-6	. 50	29,5	.0./	2.95	147.5	
P-6	75	23	0.1	2,3	172.5	
P-6	100	26	0,1	2.6	260,0	
P-7	20	52	0.1	5,2	104	
P-7	50	41	0.1	4.1	205	
P-7	75	37.5	0.1	3,75	281.25	
P-7	100	41	0.1	3 4-1	410.0	

Form B-1 Paye 4 of 9

LANCASTER REC.

JUNE 24, 1987

	JUNE - 1					
<u>*</u> 2.	Apparent Resistivity (ohm - feet)	Corrected Reading (ohms)	Scale Multiplier	2π V/I (ohms)	Electrods Spacing (feet)	Station Location
	/36.0	6.8	0./	68	. 26	P-8
-	215-0	4.3	mo:1/	43	. 50	P-8
_	288.75	3.85	0.1	38.5	76	P-8
	350.0	3.5	0.1	35	100	P-8
	189	9.45	0.1	94.5	20	P-9
5	32.5 232	0,65 4.65	0.1	6.5 46.5	58	P-9
1.25	101.25 311	1.35	0.1	41.5	75	P-9
	375	3.75	0.1	37.5	100	P-9
	297	14,85	0.1	143.5	20	P-10
-	265	5. 3	0.1	53	50	P-10

FORM B-1
Paye 6 of 9

LANCASTER REC
JUNE 24, 1987

Station Location	Electrode Spacing (feet)	2π V/I (ohms)	Scale Multiplier	Corrected Reading (ohms)	Apparent Resistivity (ohm - feet)	
P-10	75.	45	0.1	4.5	337.5	
P-10	100	43.5	011	4.35	435	
P-11	20	92.5	ð·/	9.25	1842 182 18	
P-11	. 50	55.0	0.1	5.50	275	
P-11	. 75	53.5	0.1	5.35	401.25	
P-11	100	49.0	0.1	. 4.90	490.00	
P-12	20	99	99 0.1		198.0	
P-12	50	59.5	0-1	5.95	297.5	
P-12	P-12 75		0.(	5.6	420.0	
P-12	P-12 100 5d.5		6.1	5.25	525.0	

FORM B-1
Paye 6 OF 9
LANCASTER RET
JONE 24, 1987

Station Location	Electrode Spacing (feet)	2π V/I (ohms)	Scale Multiplier	Corrected Reading (ohms)	Apparent Resistivity (ohm - feet)	
P-13	, 20	148	0.1	14.8	296	
P-13	50	70	-0.1	7	350	
P-13	75	58.5	0.1	5,85	438.75	
P-13	100	53.5	0.1	5.35	535.	
P-14	20 76.5		0.1	7.65	153	
P-14	50	39	5.1	3.9	195	
P-14	75	49 0.1 4.9	9 0.1 4.9	49 0.1 4.9	6.1 4.9	367.5
P-14	100	46	0.1	4.6	460	
7-15	20	68	0.1	6.8	136	
P-15	50	67.5	0.1	6.75	337.5	
P-15	75	62.5	0.1	6.25	468.75	
P-15	100	58.5	0.1	5.85	585.0	

TEST
DIAL READING 321.5
CURRENT 28.5

Form B-1
Payo 7 of 9

LANCASTER REC.

JUNE 25, 1987

		•				-
the state of the s	Electrode Spacing (feet)	2π V/I (ohms)	Scale Multiplier	Corrected Reading (ohms)	Apparent Resistivity (ohm - feet)	
	, کې ,	///	0.1	11.1.	222	_
	50	69.5	" 0./	6.95	347.5	· · · · · · · · · · · · · · · · · · ·
	75	71.	0.1	7.1	532.5	_
	100	40.5	. 0.1	4.05	405	
,	20	32.0	0 .1	3.20	64	· · · · · · · · · · · · · · · · · · ·
	50	45.5	0.1	4.55	227.5	
	75	45.0 13.5	0.1	4.5	10125 H3-4 33	7.5
	100	46.5	0.1	4.65	465	· a. s. in the state of the sta
	20	75.5	0.1	7-55	151	
	50	49.5	0.1	4.95	247.5	

FORM B-1
Paye 8 OF 9

LANCASTER REC
JUNE 25, 1987

Station Location	Electrode Spacing (feet)	2π V/I (ohms)	Scale Multiplier	Corrected Reading (ohms)	Apparent Resistivity (ohm - feet)
P-16	75	88	0.1	8.8	660
P-15	100	78.5	1.07	7,85	785
P-19	920	93.5	0.1	9.35	187
P-19	50	49.5	0.1	4.95	247.5
P-19	. 75	44	0.1	4.4	330
P-19	100	42	0,1	4.2	420
8-20	20	38.5	0.1	3.85	77
P-20	50	29	6.6	2.9	145
P-20	75	27	0.1	2.7	202.5
P-20	106	24.5	0.1	2.45	245

Form B-1
Paye 9 of 9
IMMERSTER REC.
JUNE 25, 1987

					,
Station Location	Electrode Spacinç (feet)	2π V/I (ohms)	Scale Multiplier	Corrected Reading (ohms)	Apparent Resistivity (ohm - feet)
P-21	20	83.5	0.1	8.35	167
P-21	50	55	114 O 1 1 1 1	5.5	275
P-21	75	51.5	0.1	5.15	386.25
P-21	100	44	0.1	4.4	440
P-22	. 20	112.5	0.1	11.25	225
P-22	50	78.0.	0:1	7.80	390
8-33	75	46.0	0.1	4.60	345
P-22	100	43.0	0.1	4.30	430
P-23	20	138.5	0.1	13.85	277
f- 23	50	60	0.1	60	300
P-23 P-23	75	55 43.5	0.1	5.5 4.35	412.5

# APPENDIX C GEOLOGIC DATA

### **BORING LOGS AND WELL SCHEMATICS**

ORILL Uniller: D Inspector: In Type rilling Metho	Reyno W. Li CM	11ey .	<u>C.</u>	PROJECT NAME DEC Phase II - Lancaster PROJECT NO. SYOIZ 14	She		10. 	st corner
GROUND	WATER O	BSERVAT	ions		Plot	Plan		) * 1B
Water Leveli				Date/Time Final 9   30   87 5:00 pm		1		Ron-
Martin Martin Company of the Company	10/1				53	)		Jus Way
Casing Depth	THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN				'-	4++-		
Pt.otoasc Peeding	SAMPLE DEPTHS		SPT	FIELD IDENTIFICATION OF MATERIAL			SCHEMATIC	Comments
	1 2-1 Shell	ابره	Pus'	No Sampling - See Boring Log 1 B  Gray Clay little Silt, Trace Sand & Gra  (Stitt) (no.:  14'  Boring terminated	ive I	Sand Sand Benton to Bontont	Benkmite 2"ID #10 PUC 2"ID PUC Riser Plug 5 evech 09 09 15 15 15 15 15 15 15 15 15 15 15 15 15	
SPT-STA		H H H H H H H H H H H H H H H H H H H		EST Self Stratigraphy Summary  C • CORED				
1	OISTURB		SS = SP(	IT SPOON				

DRILLING CONTRACTOR:  Der: Steve doranty  ASDECTOR: CMED-55	ENGINEERING-SCIENCE DRILLING RECORD	Sheet of
HSA(41/2") to 65' flust	PROJECT NAME Lancuster Reclamate PROJECT NO. 5/012.14	
Joint carria (3°) To 75' C to 80'		Plot Plan
ROUND WATER OBSERVATIONS	Weather Clear & Cool Date/Time Start 9/21/87	
Water Levell 2/. 3 2/. 01	Date/Time Start 9/2//8/ Date/Time Finish 9/24/87	
Time 4 4:20A 9:00A		
ate \$ 9/23/87 9/24/89 Casing Depth 75' 75'		- 1 wad runna
SAMPLE SAMPLE	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC Comments
	dark brown site with some pla gravel, more	× & love Photorac laceline is 0.1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	dry dark restrict bour outs with some very fine	grained 0.1
Rec. 14" 1 13	send (sleg fill)	1.6
1 18	lorse, wet, light brown sand, nedium grain	red
1 1		
1		
1 1		
1 1		Photorice Coschine is 0.6
-0.6 5.7 12 8		baseline is 0.6
Rec-11" 12		water table at
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i		10.2' 3 & phogree
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1 8	sticky, moderately stiff, reddied hown clay	5
Rec. 22" 4 12	_	200
1		The last of the la
	WALKER TO THE TOTAL THE TO	enent of the second of the sec
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Rec. 17" 12		13/
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T- STANDARD PENETRATION TE	ST Soll Stratigraphy Summary	
D - DRY W - WASHED	C - CORED	
U - UNDISTURBED SS - SPL	IT SPOON	
P - PIT A - AUGER CUTTING	25	

DRILL	LING CON		O CONTRACTOR OF	ENGINEERING-SCIENCE DRILLING RECORD	She	:68		3W-1B
nspector:	<u>Defendance de la companya de la companya de la companya de la companya de la companya de la companya de la compa</u>		oggoniquitouristika)65#		Loc	604949 pag		
TAD8		A CONTRACTOR OF THE PROPERTY O	ggweguennau mantinico	PROJECT NAME Lancaster Reclamation				
Iling Meth	04	and the second second second second		PROJECT NO. SY 012.14				
					Plot	Plan		
ROUND	WATER O	BSERVAT	IONS	Weather			$C \setminus A$	K1
Water Level	1			Date/Time Finish	1	See	Sleet	10 0 1
Time	1				1			٠,
)ete	1		water out meet par		i			
Casing Depth	'I	<u> </u>	T					
Thotovec leading	SAMPLE DEPTHS	SAMPLE I.D.	SPT	FIELD IDENTIFICATION OF MATERIAL		WELL S	CHEMATIC	Comments
0-0	20-22	15	15		20.9			
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• 1	· <b>B</b>	<b>4</b>		Oali Strationarhy Burner	ne management	and the second	<del>grangebusinser at Ottom fill od De Ouwlands e <u>Desimbly and Al</u></del>	Andrewson Marie (1900) - Andrewson Andrewson (1900) - Andrewson (1900)
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Papir	A e	AUCER C	TITTINC	<u>v</u>				

rd	LING CONT			ENGINEERING-SCIENCE DRILLING RECORD	Sh	ORING N	3	of	18
r: g Meth	04	and the second second second second		PROJECT NAME Lancaster Reclaration PROJECT NO. 5 Y 012.14	_   _		***************************************		And the second s
				Weather	Plot	Plan			
COUND	WATER OF	BSERVAI	TONS	Daie/Time Start		5		Sh	eet No. 1
Water Level			CONTRACTOR OF CONTRACTOR	Cate/Time Finish					
( e	1		<del>, , , , , , , , , , , , , , , , , , , </del>		l		•		
ag Depth	1								
pr-tovec	SAMPLE DEPTHS	SAMPLE I.D.	SPT	FIELD IDENTIFICATION OF MATERIAL		WELL	SCHEM	ATIC	Comments
	40-42'	d 			0.37				
	1	18	127	wex, sofx, reddish gray, fine grained part					
	Ree 15"	1	12/	-			!		
		1	120						
		1				•			
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ness segments on the second second	7	4	<u> </u>		45.0				photovar
Q.0	45-47'	19	17.	grayish brown, wet, compact, fine to very fine					Photovac baseline is 0.0
	Rec. 18.5	′‡	110	- grained sand					
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Angeling and Parket		1	an denough the same						
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annuary and thinks to the PANAGET COM-	1	1				3	. 1		baselia is -0.3
- 3	. 51-52	4 16	每	gregist brown loose, wet, fine gramed sand		3	130		
	1	4	19-3/	and becomes compact with depth		R	3		
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-est Management of the second	! <b>!</b>	1			٠.		4 5		
-vig powerpolitics-constitutes	:	4			55.0	_	77		ad June -
-0.6	55-57	1 1/	17	gregist brown, wet, loose, fine gained sand.					photovac baseline is . 0.6
- ENTERONMENTONIA	1	4 .	2.3	- black, well rounded lineatine pebble at 56.2'					
	Rec. 21.5	1	90	M M M M M M M M M M M M M M M M M M M					
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** ************************************	1	\$		sand becomes very fine graved and				and a second	No. of the latest states of th
		1		compact with depth				1	encomments and
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- OR		- WASHE		C • CORED		OSSISSAN AND REAL PROPERTY CONTRACTORS	<del>Toolman sold (meetings</del>	zio initroctionali di malla 1944	gerakon dakuttat 1000 (g-100-40 si prozonostaro di pressa kilo 100 kilo 100 kilo 100 (g-100-40 kilo 10
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(4) :	LING CONT			PROJECT NAME Lancasta Reclamation PROJECT NO. SY012.14	Sh	Per cassa		GW.	1B
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-0.5	6566	1 13	3.3						16-0.5
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- 0.3	\$ 70.5-72	<u>'</u>			70.5	1.40	\$104	اري	photovar laseline is -0.3
- North-Million Co.		4 14	14	grey, saturated gravel, poorly sorted, fire to con	use 10	7	3	0	baseline is -0.3
	· Rec 7"	1	5	grained broken fragments gry, saturated sitty clay	71.8	ł	1/0	5	
		1	8	black puble, well rounded	72.		h		
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- A A STATE OF THE	i l	1			•.		12		
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0.3	175-80	THE RESERVE THE PERSON NAMED IN		grey, massive unestine with occasional	,		" T.O. 1		
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DRILLING CONTRACTOR:  Driller: Dave Reynolds  Inspector: W. Lilley  Rig Type CM E  Drilling Method 4" ID HS A	PROJECT NAME DEC Phase I - Landenter	BORING NO. 2 B  Sheet 1 of 4.  Location South east Corner  New Y runway
GROUND WATER OBSERVATIONS	PROJECT NO.   SYO 12 14	Plot Plan
Water Levell   19.5'   Time   9.60   Date   9/30	Date/Time Finish	Airpo
Photovec SAMPLE SAMPLE DEPTHS 1.D. SP	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC Comments
0.0   0.0-2.0   S-1   14   SS   1   16   Rec   3   1   14   0.0   2.0-4.0   S-2   6	Black Sand & Gravel (dry)  Gray & Brown Sand & Gravel (mossate  20  4Fill  3.0 Brown Sand & Silt (wet)	
S5 1   5   Rec 26"1   9   10   10   10   10   10   10   10	Brown to Gray Silt & Clay (stiff Brown Silt + Clay Trace Sand & 6  60 = + moist	ravel
1 16 0.0 6.0-804 5-4 13 55 1 10 1 80 6.24"1 1 20 1 1 10 1 1 10	Brown Silt & Clay Trace Sand of a (Stiff & moist)  Brown Silt & Clay Trace & Grave 1	to so
1 SS 1 10 1 Rec 23"11 14	(S4.14 & Mors.	PVC Ca
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Gray Brown Clay 1.410 Silt True	Sent Frank
	Gray Brown Clay little Sitt Tract (	5vauc (
		at and Grove Fill
8PT-STANDARD PENETRATION TO ORY W-WASHED U-UNDISTURBED SS-SP P-PIT A-AUGER CUTTIN	C-CORED Over 5: Ity Sund to 36. over 5 to 70.0' over	to 3.01 over 5: H'and ele ine sand and sand and grav till to 74' over bedrock.

DRIL	LING CONTI	RACTOR:		ENGINEERING-SCIENCE DRILLING RECORD	Shee		<u>Z</u> of .	JB: 4 A Corner
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r:lling Meth	od			PROJECT NO. SYOD 14				
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Photovec	SAMPLE	SAMPLE		FIELD IDENTIFICATION OF MATERIAL		WELL SCH	EMATIC	Comment
Reading	DEPTHS	I.D.	SPT					
6 0	25-27	1 < -%	8	Gray Brown Clay (Soft & moist				
6.0	55		8	- Cray Crown City				
	Rec-24"		9					
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6.0	30-32	15-9	3	Gray Brown Clay trace & aran (Soft + mois	(6)			
0	55	4	14	[Soft + mois	74)			
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0.0	35-37	15-10	111	- C B Chityco + Charles				
	55	1	12	36 Gray Brown Clay + race + Grave 1			)	<b>[</b> .
	Rocay	1	17	Gray Fine Sand (wed)		5161	>	
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A	<u>d</u>	4	1 2 7	- Fine Sand (wet)	•.	5		
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SAROUND WATER OBSERVATIONS   Weather   Cloudy   Date/Time Start   4/22   87	niller: D	N. Lil	ley Vel		PROJECT NAME DEC Phase PROJECT NO. SYOIZ	ECORD  Lancaster	She	RING NC	M1:991			
### SAMPLE   SAMPLE   FIELD IDENTIFICATION OF MATERIAL   WELL SCHEMATIC   Comments      O   O   O   O   O   O   O   O   O	Water Level	112:02	BSERVATIO	DNS .	Weather Cloudy Date/Time Start 4/12/87		PB	3 8	·	0		23
SS   SE   SE   SE   SE   SE   SE   SE	Photovec	SAMPLE	a }-	SPT				WELL S	CHEMAT	ne	Comme	ents
8PT-STANDARD PENETRATION TEST  1 D-DRY W-WASHED C-CORED  Sell Strattgraphy Summary Sand and Gravel Fill to 8.0  GUEL Sit and Clay to 41' over Fine Sand		SS Rec 8" 5=7 55 Rec 9" 10-12 SS Rec 12" 115-17 11 SS 1 Rec 24" 11 SS 1 Rec 24" 1 Rec 24" 1 SS 1 Rec 24" 1 SS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 C 2 8 1 2 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.5' Brown Sand +  Brown Sand,  7.5  8.0 Black Silt and So  Red Brown Silt +  Gray Brown Silt +  Gray Brown Clay  Gray Clay with	Fine Gravel (moiss  Trace Silt (moiss  St. +  Lay Trace Chy (Topso  Clay (moiss)  (Stiff)  Trace Silt (soft  Trace Fine  Trace Fine  Sand Layers (Varve	1) d	Bentonite Sluvry Plug	DVC Riser Ca	G.0		
				ION T	EST 84	M Birationaphy Summary S Survey Silt and C	Glax	to	41'	over	Fine	Sand

bedrock refusal

P - PIT A - AUGER CUTTINGS

Drilling Method LLY, HSR  GROUND WATER OBSERVATION  Water Levell	PROJECT NAME DE C Phase II - Land caster PROJECT NO. 5401214	Name of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state	
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	Gray Clay (Sofarmoist)	i-	
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1 Rec 24" 1		1 x x1	
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	(c.f. tomaist)	10xx	
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ototovec	SAMPLE DEPTHS		SPT	FIELD IDENTIFICATION OF MATERIAL		WELL	SCHEMA	ATIC	Comments	
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DRILLING CONTRACTOR:  Driller: Dave Reynolds  Inspector: W. Lilley  Rig Type CM E  Drilling Method 4 1/4" HS A	PROJECT NAME DEC Phase IT - Lan caster PROJECT NO. SYO 1214	Sheet L of Location Parking East Side St	lot
GROUND WATER OBSERVATIONS  Water Levell 2.6	Weather Clovey Date/Time Start Oct 1 9:30 am Date/Time Finish Gct 1 3:30 pm	lot Plan  Pond  SA  Pond	
Photovec SAMPLE SAMPLE DEPTHS I.D. SPT	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	Commer
0.0   0000   S-1   3   25   SS   1   25   25   13   13   13   13   13   13   13   1	Srown M-F Sand (moist)  Brown M-F Sand (moist)	2" ID PUC pipe	
1 20-2215-5 9 1 55 11 1 16		2 / Sand	
8PT-STANDARD PENETRATION TES  D - DRY W - WASHED  U - UNDISTURBED SS - SPLI  P - PIT A - AUGER CUTTING	C - CORED 5.5 ' ave - 8 10 W -	ad and Grave Sayd to 33'	Commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of th

DRILLING CONTRACTOR:  Driller: D. Reynolds  Inspector: W. Lilley  Rig Type CME  Drilling Method LYY HSA	PROJECT NAME DEC Phase II - Lancaster PROJECT NO. 54012 14	BORING NO. 5 A Sheet 2 of Location		
GROUND WATER OBSERVATIONS  Water Level!	Weather	See Sheck	4 No 1	
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Reading I.D. SPT	Brown M. F. Sand (west to Saturated	23		
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#### **GEOTECHNICAL ANALYSES RESULTS**

PROJECT: LANCASTER RECLAMATION, PHASE II

PROJECT NUMBER: 870834



#### MOISTURE AND GRADATION ANALYSIS

## Gradation (% Retained on Standard Sieve)

BORING NUMBER	DEPTH (FT.)	MOISTURE PERCENT	<u>#4</u>	<u>#10</u>	<u>#40</u>	#100	#200	SILT	CLAY	CLASSIFICATION
1-B	5.0	18.0	0.2	0.1	10.3	64.7	13.1	11	.6	SM-SP
1-B	51.0	6.9	0.0	0.1	2.3	29.4	38.9	29	. 3	SM
2-B	6.0	14.1	22.6	2.8	6.3	5.0	5.3	30.8	27.2	CL-ML
2 <b>-</b> B	45.0	13.6	0.4	1.0	3.8	18.0	30.9	45	.9	S14
			0.5		1.5.0	0.5	0.0	2.5	~	CH
3-B	14.0	3.8	2.5	0.1	16.9	35.8	9.2	35	.5	SM
3-B	55.0	13.5	8.4	3.0	5.4	15.2	26.8	41	.2	SM
4-B	15.0	22.7	0.0	0.3	0.6	0.6	0.6	40.3	57.6	CL
4-D	13.0	22.1	0.0	0.5	0.0	0.0	0.0	40.5	37.0	OL.
4-B	30.0	21.9	0.0	0.2	0.5	2.4	2.5	40.2	54.2	CL
4-B	50.0	. 18.0	0.0	0.3	32.1	44.9	12.5	10	.2	SM-SP
5-A	15.0	5.7	0.0	0.1	8.1	45.7	11.5	34	.6	SM



PROJECT:	DEC PHASE	II ·	HOLE NO.:	2-B	SAMPLE NO.	: 4			
ELAPSED TIME min	ТЕМР. С	ACTUAL HYD. READING R	CORR. HYD. READING R	% FINER	HYD. CORR ONLY FOR MENISCUS R	L FROM TABLE 6-5	L/T	K FROM TABLE 6-4	D mm
1	22.00	52	47.40	93.9	53	7.6	7.645	0.0132	0.0365
2	22.00	49	44.40	87.9	50	8.1	4.068	0.0132	0.0266
4	21.90	43	38.38	76.0	44	9.1	2.279	0.0132	0.0199
8	21.60	40	35.32	69.9	41	9.6	1.201	0.0133	0.0145
16	21.50	37.5	32.80	64.9	38.5	10.0	0.626	0.0133	0.0105
30	21.40	34	29.28	58.0	35	10.6	0.353	0.0133	0.0079
60	21.00	30	25.20	49.9	31	11.2	0.187	0.0134	0.0058
120	20.30	27	22.06	43.7	28	11.7	0.098	0.0135	0.0042
240	19.50	24.5	19.35	38.3	25.5	12.1	0.051	0.0136	0.0031
780	20.70	20	15.14	30.0	21	12.9	0.017	0.0134	0.0017
1050	21.60	20	15.32	30.3	21	12.9	0.012	0.0133	0.0015
1440	19.00	19	13.70	27.1	· 20	13.0	0.009	0.0137	0.0013

% CLAY = 27.16

% SILT = 30.84



PROJECT:	DEC PHASE	II	HOLE NO.:	4-B	SAMPLE NO.	: 4			
ELAPSED		ACTUAL HYD.	CORR. HYD.		HYD. CORR ONLY FOR	L FROM		K FROM	
TIME	TEMP.	READING	READING	%	MENISCUS	TABLE	L/T	TABLE	
min	С	R	R	FINER	R	6-5		6-4	D mm
1	21.50	56	51.30	101.6	57	7.0	6.992	0.0133	0.0351
2	21.50	54	49.30	97.6	55	7.3	3.659	0.0133	0.0254
4	21.50	51	46.30	91.7	52	7.8	1.952	0.0133	0.0185
8	21.50	48	43.30	85.7	49	8.3	1.037	0.0133	0.0135
16	21.50	45	40.30	79.8	46	8.8	0.549	0.0133	0.0098
30	21.30	40	35.26	69.8	41	9.6	0.320	0.0133	0.0075
60	21.00	36	31.20	61.8	37	10.3	0.171	0.0134	0.0055
120	20.30	32	27.06	53.6	33	10.9	0.091	0.0135	0.0041
240	19.50	29.5	24.35	48.2	30.5	11.3	0.047	0.0136	0.0029
780	20.70	23.5	18.64	36.9	24.5	12.3	0.016	0.0134	0.0017
1050	21.60	0.32	-4.56	-9.0	1.32	16.1	0.015	0.0133	0.0016
1440	19.00	22	16.70	33.1	23	12.5	0.009	0.0137	0.0013

% CLAY = 57.63

% SILT = 40.27



PROJECT:	DEC PHASE	II	HOLE NO.:	4-B	SAMPLE NO	.: 8			
ELAPSED TI <b>ME</b> min	ТЕМР. С	ACTUAL HYD. READING R	CORR. HYD. READING R	 % FINER	HYD. CORR ONLY FOR MENISCUS R	L FROM TABLE 6-5	L/T	K FROM TABLE 6-4	D mm
1	22.00	55	50.40	99.8	56	7.2	7.155	0.0132	0.0353
2	22.00	52.5	47.90	94.8	53.5	7.6	3.782	0.0132	0.0257
4	22.00	50	45.40	89.9	51	8.0	1.993	0.0132	0.0186
8	21.90	47	42.38	83.9	48	8.5	1.058	0.0132	0.0136
16	21.60	43	38.32	75.9	44	9.1	0.570	0.0133	0.0100
30	21.40	40	35.28	69.9	41	9.6	0.320	0.0133	0.0075
60	21.00	35	30.20	59.8	36	10.4	0.174	0.0134	0.0056
120	20.30	32	27.06	53.6	33	10.9	0.091	0.0135	0.0041
240	19.50	30	24.85	49.2	31	11.2	0.047	0.0136	0.0029
780	20.70	24.5	19.66	38.9	25.5	12.1	0.016	0.0134	0.0017
1040	21.60	24	19.32	38.3	25	12.2	0.012	0.0133	0.0014
1448	19.00	23	17.70	35.0	24	12.4	0.009	0.0137	0.0013

% CLAY =

54.25 40.15 % SILT =



PROJECT NUMBER: 870834

PROJECT: ENGINEERING-SCIENCE, INC.

DEC PHASE II LANCASTER RECLAMATION

# MOISTURE AND GRADATION ANALYSIS

Gradation
(% Retained on Standard Sieve)

BORING NUMBER	DEPTH (FT.)	MOISTURE PERCENT	<u>#4</u>	<u>#10</u>	<u>#40</u>	<u>#100</u>	#200	SILT AND CLAY (%)	CLASSIFICATION
1A	12'-14'		2.5	1.5	3.2	2.9	3.9	86.0	CL-ML



PROJECT: ENGINEERING SCIENCE

DEC PHASE II LANCASTER RECLAMATION

PROJECT NUMBER: 870834

ATTERBERG LIMITS

BORING MOISTURE DEPTH PERCENT L.L. P.L. P.I. NUMBER (FT.)

1A 12'-14' 20.8 14.2 6.6



## PERMEABILITY TEST DATA ASTM D-2434

DATE: 12/15/87

Chamber No.:1

Undisturbed

Client:Engineering Science Project No.:870834

Location:Lancaster Reclamation

Tested by: S. Patel

Boring No.:2-B

Sample No.: N/A Depth: 17 to 19 feet

· ·	Initial		Final	Test Pressures (	
Ht.(ins)=	3.6	Ht.(ins)=	3.6	Chamber=	60
Di.(ins)=	2.9	Di.(ins)=	2.9	Lower=	50
Wt.(gms)=	785.5	Wt.(gms)=	792.8	Upper=	40

Duration of Test (min) = 915.0

PERMEABILITY (cm/s) = 1.97E-8



## PERMEABILITY TEST DATA ASTM D-2434

DATE: 12-30-87

Chamber No.:2

Undisturbed

Client:Engineering Science Project No.:870834

Location: Lancaster Reclamation Tested by: S. Patel

Boring No.:1-A Sample No.:N/A Depth: 12 to 14 feet

Initial			Final	Test Pressures (psi)		
Ht.(ins)=	3.6	Ht.(ins)=	3.6	Chamber=	60	
Di.(ins)=	2.8	Di.(ins)=	2.8	Lower=	50	
Wt.(gms)≃	845.5	Wt.(gms)=	850.1	Upper=	40	

Duration of Test (min) = 670.0

PERMEABILITY (cm/s) = 2.21E-8

# APPENDIX D LABORATORY ANALYTICAL DATA

#### APPENDIX D

## LABORATORY ANALYTICAL DATA

Previous Analytical Results
Groundwater Results
Surface Water Results

**Sediment Results** 

Each group noted above is organized by sample number. Results are listed in the following order: volatile organics, semivolatile organics, pesticide/PCBs, inorganics, and TOX. Only the sediment samples were analyzed for pesticide/PCBs. Organic data qualifiers can be found at the bottom of each Form I, page 1 (volatile compounds). Inorganic data qualifiers are listed following this cover page.

# DATA QUALIFIERS PAGE 2

Lab Name: NANCO LABORATORIES, INC.

DATE REPORTED:

Lab Address: Robinson Lane, RD 6

Wappingers Falls, New York

- VALUE IF THE RESULT IS A VALUE GREATER THAN OR EQUAL TO THE INSTRUMENT

  DETECTION LIMIT BUT LESS THAN THE CONTRACT-REQUIRED DECTECTION LIMIT,

  THE VALUE IS REPORTED IN BRACKETS ( i.e., [10]. THE ANALYTICAL METHOD

  USED IS INDICATED WITH P (FOR ICP), A (FOR FLAME AA) OR F (FOR FURNACE AA).
- U INDICATES ELEMENT WAS ANALYZED FOR BUT NOT DETECTED. REPORTED WITH THE INSTRUMENT DETECTION LIMIT VALUE (e.g., 10 U).
- E INDICATES A VALUE ESTIMATED OR NOT REPORTED DUE TO THE PRESENCE OF INTERFERENCE.
- s INDICATES A VALUE DETERMINED BY METHOD OF STANDARD ADDITION.
- N INDICATES SPIKE SAMPLE RECOVERY IS NOT WITHIN CONTROL LIMITS.
- \* INDICATES DUPLICATE ANALYSIS IS NOT WITHIN CONTROL LIMITS."
- INDICATES THE CORRELATION COEFFICIENT FOR METHOD OF STANDARD ADDITION IS LESS THAN 0.995
- M INDICATES DUPLICATE INJECTION RESULTS EXCEEDED CONTROL LIMITS.
- P INDICATES ICP ANALYSIS
- F INDICATES FURNACE ANALYSIS
- [] INDICATES SAMPLE VALUE IS BETWEEN IDL AND CROL

COMMENTS :



# FRONTIER CHEMICAL WASTE PROCESS INC.

## ENVIRONMENTAL LABORATORY

4626 Royal Avenue, Niagara Falls, New York 14303

JOB: Ferry Concrete Construction Co., Inc.

3179 Walden Avenue, Depew, New York 14043

SAMPLE AND WORK REQUESTED BY: Mr. John Ferry

DATE: February 4, 1976

FRONTIER CHEMICAL LAB NO. FC-2476

IPTIONS
Sludge
, , , ,
91.50%
8.50%

<sup>\*</sup> Organic components plus carbon

\*\* Clay is Ben WENDE ing



# FRONTIER CHEMICAL WASTE PROCESS INC.

# ENVIRONMENTAL LABORATORY

4626 Royal Avenue, Niagara Falls, New York

Ferry Concrete Construction Co., Inc.

3179 Walden Avenue, Depew, New York 14043

SAMPLE AND WORK REQUESTED BY: Mr. John Ferry

February 4. 1976 DATE:

FRONTIER CHEMICAL LAB NO. FC-2476

]			
		II. COMPOSITION OF WATER	•.
	ITEM	PARAMETER	ANALYSIS
	1	Origins	Filtrate from
			Sludge filtrati
; <u> </u>	2	PH	7.75
1	3	Specific gravity	1.03 @ Rt
	4.	Color (APHA unit)	20
11	5	Total Dissolved Solids (TDS)	mgg 002.08
	6	Chlorides (C1)	18,500 ppm
· ·	7	Sulfates (SO <sub>4</sub> )	600 ppm
	8	Silica (\$i0)	45 ppm
11.	9	Nitrate (NO <sub>3</sub> )	70 ppm
11	10	Calcium (Ca)	9,600 ppm
		Sodium (Na)	480 ppm
	12	Iron (Fe)	1.25 ppm ***
#1	13	Zinc (Zn)	45 ppm
· distance ·	14	Aluminum (A1)	50 ppm
1	15	Total Organics (TOC)	1,100 ppm
<b>*  </b>			



consulting engineers/planners/surveyors

7405 CANAL ROAD, LOCKPORT, NEW YORK 14094 716-433-5993 716-625-8228

# FRONTIER CHEMICAL WASTE PROCESS INC.

# ENVIRONMENTAL LABORATORY

4626 Royal Avenue, Niagara Falls, New York 14303

JOE: FERRY CONCRETE CONSTRUCTION COMPANY, INC.  3179 Walden Avenue, Depew, New York  SAMPLE AND WORK REQUESTED BY: John Ferry	
DATE: February 25, 1976	
FRONTIER CHEMICAL LAB NO. 2256	, :
TIEM	ANALYSIS
Origin: (Sample from Laneaster Pond)	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t
2 Order: no	ne
3 Colon (APHA) Unit*	
4 Specific gravity (@ room temperature) .1.	010
5 Ph 8.	20
6 Total Suspended Solid (TSS)** 85	mqq 0
7	mqq 000
8 Chlorida (Class	0 ppm
9	O ppm
10 Silica (SiO <sub>2</sub> ) 20	ppm
11 Nitrate (NO -)	ppm ·
12 Calcium (Ca <sup>+2</sup> )	500 ppm
13 Sodium (Nat)	DDM DDM
14 Tran (F-±2)	ppm
$\frac{15}{2 \cdot 100} = \frac{(2n+2)}{2}$	ace
16 Total Organic (mag)	מוכןס (
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# BUFFALO TESTING LABORATORIES

CHEMISTS - METALLURGISTS

902 Kenmore Ave.



BIOLOGISTS - ENGINEERS

Buffalo, N. Y. - 14216

Phone: AC 716-873-2302

Purchase Order No. Report No.

70,639

May 23, 1978

Attn: Mr. John Ferry Ferry Construction 3179 Walden Avenue Depew, NY 14043

#### Gentlemen:

Following are the results of the tests performed on the samples which you submitted to us on May 17th, 1978.

Samples Submitted: Two (2) water samples identified as:

(1) 1st Draw

(2) 2nd Draw

Object: Chemical analysis

## Results:

,		· •	· ·
Test	Sample #1	Sample.#2	Specs.
pH	7.75	8.05	7.7 - 9.0
Dissolved Solids	345 ppm	338 ppm	36 - 1306 pps
Suspended Solids	25.0 ppm	3.5 ppm	268 - 359 ppr
BOD	4.6 ppm	<.6 ppm	1 - 12 ppm
COD	< 10 ppm	<10 ppm	10 - 240 ppm
Chloride	16.3 ppm	16.3 ppm	2.5 - 16 ppm
Sulfide	<.l ppm	<.1 ppm	.021 ppm

BUFFALO TESTING LABORATORIES

OUB LETTERS AND REPORTS ADE FOR THE EXCLUSIVE USE OF THE CLIENT TO WHOM THEY ARE ADDRESSED AND THRIR COMMUNICATION TO ANY OTHERS OR THE USY OF THE WAVE OF BUFFALO TESTING LABORATORIES. INC. HUST RECEIVE OUR PRIOR MEITTER APPROVAL. OUR LETTERS AND REPORTS APPLY ONLY TO THE GUALITIES OF APPARENTLY ISENTICAL OR SIMILAR PRODUCTS. THE REPORTS AND LETTERS AND THE NAME OF THE BUFFALO IESTING LABORATORIES, INC. OR ITS SEALS OR INSIGNIA. ARE NOT TO BE USED UNDER ANY CIRCUMSTANCES IN ADVERTISING TO THE GENERAL PUBLIC Limitation of Liability - Due diligence was used in rendering the professional opinion, but if it should fail in some regard, the amount of liability will be limited to an amount equal to the fee.

# BUFFALO TESTING LABORATORIES

## Buffalo, N. Y. - 14216

Re	sul	ts	. (	(c	ont	_	)
100	707	( · ()	٠. '	60,	~ 66 W		,

Test	Sample #1	Sample #2	Specs.
Fluoride	1.0 ppm	1.0 ppm	1.8 - 13.77 ppm
Cyanide	<.01 ppm	<.01 ppm	.021 ppm
Phenol Phenol	<.1 ppb	<.1 ppb	2 - 15 ppb
Zinc	0.16 ppm	0.03 ppm	.05 - 6.0 ppm
Lead	<.01 ppm	<.01 ppm	.1, - 1.3 ppm
Mercury	<.01 ppm	<b>∠.01</b> pm mqç 10. <b>&gt;</b>	.1 - 1.3 ppm
Manganese	<.25 ppm	<b>∠.</b> 25 ppm	.02 - 3.9 ppm
Iron	3.3 ppm	1.7 ppm	1 - 30 ppm
Volatile Content	< 1%	<b>&lt;</b> 1%	2 - 8%

Very truly yours, BUFFALO TESTING LABORATORIES, INC.

EJK/mec

cc: Wendell Engineers

Technical Director

BUFFALO DIVISION 3695 BROADWAY, BUFFALO, N.Y. 14225



TELEPHONE 716-683-0440
TELEX 0-1250

# ENVIRONMENTAL LABORATORY

# ANALYTICAL RESULTS

	mber 1	063W-690		Customer P.O. #125
ate: Collected	4/17/79	Received	4	/17/79 Reported 4/17/79
mpling Point/Des	cription	SAMPLE		Surface Water Basin.
		,		1
lkalinity			(As)	Arsenic
ionic Detergents (	MBAS)			Barium
ochemical Oxygen	the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s			
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Demand (COD)		. '	(Cu)	
hlorides	,		_ (Fe)	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
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		<.1 ppb	_ (Zn)	Zinc
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ial Solids				· · · · · · · · · · · · · · · · · · ·
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		and had but		MMMI Suna
			Parrie	Mully y ymord
			Direc	ard J. Grucza
			DILEC	tor, Environmental Laboratory

BUFFALO DIVISION 3695 BROADWAY, BUFFALO, N.Y. 14225



# ENVIRONMENTAL LABORATORY

# ANALYTICAL RESULTS

stomer Ferry Concrete Construction, 3179 W	Valden Ave., Depew, N.Y. 14043
RO Laboratory Number 1063W-689	Customer P.O. #125
Date: Collected 4/17/79 Received_	4/17/79 Reported 4/17/79
mpling Point/Description SAMPLE #2	water 5 High
kalinity	(As) Arsenic
nionic Detergents (MBAS)	(Ba) Barium
ochemical Oxygen	(Cd) Cadmium
Demand (BOD <sub>5</sub> )	(Cr) Chromium
Chemical Oxygen	(Cu) Copper
Demand (COD)	(Fe) Iron
Morides	Iron-soluble
Conductivity	(Pb) Lead
anides	(Mg) Magnesium
Guorides	(Mn) Manganese
Jardness	(Hg) Mercury
trogen, Ammonia	(K) Potassium
vitrogen, Total Kjeldahl	(Se) Selenium
Mitrogen, Nitrates	(Ag) Silver
trogen, Nitrites	(Na) Sodium
enenols * -: 1. ppb	(Zn) Zinc
H	,
lfates	<b>~</b>
rotal Dissolved Solids	•
Total Suspended Solids	
otal Solids	Trihalomethanes (THM's)
Turbidity	- Chloroform
	Bromodichloromethane
ndrin	- Dibromochloromethane
Lindane	- Bromoform
Methoxychlor	DIGHOIOIIII
oxaphene	- Total THM'S)
2, 4-D	- IOUAL LITTUL D)
4,5-TP (Silvex	- 6/
* All preserved with H3PO4 + CuSO4	Demaid J. Juria
	Bernard J. Grucza
	Director, Environmental Laboratory

BUFFALO DIVISION

3695 BROADWAY, BUFFALO, N.Y. 14225



## ENVIRONMENTAL LABORATORY

## ANALYTICAL RESULTS

Customer Ferry Concret	e Construction, 3179 \	Walden Ave. Depew, N.Y. 14043
O Laboratory Number	1063W-688	Customer P.O. # 125
te: Collected 4/17/	79 Received	4/17/79 Reported 4/17/79
ampling Point/Description	SAMPLE #1	Existing Cagoon Chea. Sturry
lkalinity		(As) Arsenic
ionic Detergents (MBAS)		(Ba) Barium
siochemical Oxygen	•	(Cd) Cadmium
Demand (BOD <sub>5</sub> )		(Cr) Chromium
emical Oxygen		(Cu) Copper
Demand (COD)	•	(Fe) Iron
Thlorides	Netfordspriving in the private And Statement and Company of the statement of the private day with the design of private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and the private and	Iron-soluble
nductivity		(Pb) Lead
Cyanides		(Mg) Magnesium
''uorides		(Mn) Manganese
rdness		(Hg) Mercury
∛itrogen, Ammonia		(K ) Potassium
Ttrogen, Total Kjeldahl		(Se) Selenium
trogen, Nitrates		(Ag) Silver
Vitrogen, Nitrites		(Na) Sodium
henols *	28. ppb	(Zn) Zinc
Sulfates		mayorium.
ntal Dissolved Solids		ADMINISTRAL TO THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE
atal Suspended Solids		
Total Solids		Trihalomethanes (THM's)
irbidity		TIMATOMETICA (TIME 5).
11 DIGICY		— Chloroform
Indrin '	•	Bromodichloromethane
indane		- Dibromochloromethane
ethoxychlor		— Bromoform
Coxaphene	er ned kon erroet grade aan standigen wegen en en en en ee de gran weget op hat de de de grade de door voor de de grande grade de de grande grade de de grande grade de grade grade de grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade grade gra	97 G=10
4-D		— Total THM'S)
4,5-TP (Silvex		
* All preserved with H3	PO4 + CuSO <sub>4</sub>	Bernard J. Grucza
		Director, Environmental Laboratory



11650 GENESEE ST. • ALDEN, N.Y. 14004

JANUARY 09, 1979

CANCASTER RECLAMATION FERRY CONSTRUCTION 3179 WALDEN AVENUE LANCASTER, N.Y.

DEAR JOHN,

THE MATERIAL THAT WE WILL BE DUMPING AT YOUR SITE IS A UNILAYERED LOW VISCOSITY SLUDGE COMPOSED OF PORTLAND CEMENT, ASBESTOS AND GLASS FIBRES IN THE APPROXIMATE AMOUNTS SHOWN BELOW:

PORTLAND CEMENT ASBESTOS FIBERS GLASS FIBRES WATER

20% 5% 10%

S'INCERELY YOURS,

ROBERT LOWREY PLANT MANAGER

Appendix 10 . FOR STATE USE ONLY 4. Application No. Tulephone No. 684-1703 Telephone No. 16. Telephone No. 716-683-6000 UNIT WT. 8 PPM (check onu) If yes, attach form.

APPLICATION FOR TREATMENT OR DISPOSAL SITE NO. APPLICATION NO. | DATE RECEIVED OF AN INDUSTRIAL OR HAZARDOUS WASTE STREAM DEPARTMENT ACTION Dapproved Disapproved See Application Instructions on Reverse Side 1. Project/Facility Name 403 Pavement Road 3. 5/69 401 2. County Erie 5. Owner's Name Lancaster Reclamation 6. Address(Street, City, State, Zip Code) 3179 Walden Ave., Depew, N. Y 8. Operator's Name Lancaster Reclamation 9. Address(Street, City, State, Zip Code) Same as above 14043 11. Method of Treatment or Disposal (mixed with bentonite clay sludge ) Lagooning 13. Address of Facility Generating Waste(Street, City, State, Zip) 12. Company Generating Wasto 2 Main Street, Depew, New York 14043 Dresser Tranp. Equip. Div. 15. Mailing Address of Representative 14. Representative of Waste Generator 2 Main Street, Depew, N.Y. 14043 A. E. Eicheldinger 17. Description of Process Producing Waste. Core Making Sands 18. Expected Annual Waste Production 19. Waste Hauled In: 6,000 cu.vdswx/yr. Gal./yr. Drums Bulk Tank Roll-off Container Nother Bulk Truck 20. Waste Composition Physical State: a. Average Percent Solids Liquid Slurry Sludge Solid Contained Gas c. pH Range 7.0 to 8.0 d. Components CONCENTRATION (dry weight) Typical Upper Lower Moisture (% water) = 3.62% Total solids 96.38% consisting of:  $\frac{2.04}{90.50}$ SiO2 (Sand Type)
AL203.4SIO2 (Clay Type)
Fe203 (Iron Oxide)
CaO (Lime Type)
Phenolic Compounds 3.66 2.26 0.24 0.0002 Was a Leaching Potential Test conducted on the Waste? X Yes | No 22. Detail all hazards and nuisance problems associated with the wastes. List necessary safety, handling, treatment and disposal precautions. NONE

	Wasto Hauler 24. Address(s v Concrete 3179 Wald		No. 26. Telephone No. 684-1703				
27,	CERTIFICATION:	14043					
	I hereby affirm under pen	alty of perjury that information provided on	this form and				
		xhibits is true to the best of my knowledge					
		ein are punishable as a Class A misdemeanor					
	Section 210.45 of the Penal Law.						
	a. Representative of Waste Generator:	A. E. Ercheldinger, Plant Engineer	3-29-79				
		Signature and/Title	Date				
r <sub>per</sub> a	b. Representative of Treatment or Disposal Facility:	Commence of the second	3-7-79				
		Signature and Title	Date				

3695 BROADWAY, BUFFALO, N.Y. 14227

ENVIRONMENTAL LABORATORY ANALYTICAL RESULTS

[ , . G 2 f C ** e c -	Oldings, Mc.			D 0 4 0000	
RO Laboratory Number	20,028 W-	2433	Customer		2 /44 /01
Date: Collected 2/2		Received_	2/26/81	Reported	3/11/81
ampling Point Descript	ion <u>Surfa</u>				
he above referenced max	iterial has be Non-hazardo	en classified	as H	azardous	
Is a result of testing for protocols in 40CFR261.	the following	characteris	tics according		
Ignitability:	ignitable	nor	ı-ignitable	x not tested	
Corrosivity:	corrosive	noi	-corrosive	x not tested	
Reactivity:	reactive	nor	ı-reactive	x not tested	
EP Toxicity:		x not	n-toxic.	not tested	
Hazardous Constituen		R 261; Appen	dix VII)		. •
] 1. 3.		2. 4.			
disease and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	RESULTS	OF EP TO	CICITY TEST		- 1//i
Lontaminant Allowedir	ng L) Foun	id (mg/L)	<u>Contaminant</u>	Allowed (mg L)	Found (mg /
Arsenic 5.0    3arium 100.0   Cadmium 1.0   Chromium 5.0   Lead 5.0   Mercury 0.2	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0.028 0.001 0.008 0.001	Silver Endrin Lindane Methoxychlor Toxaphene 2,4-D	- 0.5 10.0	<pre> &lt; 0.001 &lt; 0.00005 &lt; 0.00002 &lt; 0.0005 &lt; 0.0005 &lt; 0.0001 &lt; 0.0001 </pre>
Selenium 1.0	) 4	0.001	2,4,5-TP	1.0 nce with 40CFR 2	

and the EPA manual Test Methods for the Evaluation of Solid Waste; SW-846,

Environmental Laboratory

Form No G-03 '81,

Revision A; August 8, 1980.

3695 BROADWAY, BUFFALO, N.Y. 14227



## ENVIRONMENTAL LABORATORY ANALYTICAL RESULTS

8		- 7 0			
istomer Re	ed Holdings, In	<u>C.</u>			
10 Laboratory Num	ber 20,02	3 W-2434	Custome	r P.O. #	2682
te: Collected	2/26/81	Received_	2/26/81	Reported	3/11/81
hipling Point/Desc	ription Pro	epaste Alkali	estigilib eyyligirinininininininininininininininininin		
1	- April (const) September 200 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100		•		gournment 15.74 in dear the statement of participancy of the ex-hall discount deared in collection of the extension of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of t
he above referenced	•				
) Constitution of	Non-haza n	dous ·		azardous	•
a result of testing ptocols in 40CFR26		ng characteris	stics according	g to the procedu	res and
Ignitability:	ignitabl	e no	n-ignitable	x not test	ed
Corrosivity:	corrosi	veno	n-corrosive	x not test	ed ·
Reactivity:	reactive	no	n-reactive	x not test	ed
EP Toxicity	: toxic	x no	n-toxic	not test	eđ
	documentation (fight and first) in the company				
Hazardous Constit	uents (per 40C	FR 261; Apper	ndix VII)		
1.		2.			- Company Company
Control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and control and contro					· ·
	RESUL'	rs of ep to:	XICITY TEST		
ntaminant Allowe	ed(mg/L) For	ind (mg L)	Contaminant	Allowed (mg /L)	Found (mg/L)
rsenic	5.0	0.016	Silver	5.0	0.002
garium 10	0.0	0.034	End rin	0.02	<b>4</b> 0. 00005
	1.0	0.001	Lindane ·	0.40	< 0.00001
fromium	5.0		Methoxychlor	10.0	< 0.00002
ead	5.0	0.009	Toxaphene	0.5	< 0.0005
1		0.0002	2,4-D	10.0	< 0.0001
denium	1.0	0.005	2,4,5-TP	1.0	< 0.0001
The above charact	eristics have t	een determin	ed in accordan	ce with 40CFR	261

Jand the EPA manual Test Methods for the Evaluation of Solid Waste; SW-846,

Bernard J. Gricza, Director Environmental Laboratory

Revision A; August 8, 1980.

3695 BROADWAY, BUFFALO, N.Y. 14227

# ENVIRONMENTAL LABORATORY ANALYTICAL RESULTS

'ustomer Reed Holdings, Inc. ".			
APO Laboratory Number 20,028 W-2435	Customer		
ate: Collected 2/26/81 . Received	2/26/81	Reported3	3/11/81
Campling Point/Description Prepaste Polym	Jer		and which contributed any coming on associate specialistic company of the special contributed was proportional or special stage.
The above referenced material has been classific	d as	•	
x Non-hazardous	H		
as a result of testing for the following characteristrotocols in 40CFR261.	stics according	to the procedure	es and
Ignitability:ignitableno	n-ignitable	x not tested	i
Corrosivity: corrosive no	n-corrosive	x not tested	1
Reactivity: reactivenc	n-reactive	x not tested	<b>d</b>
ACC CLAVACY &	on-toxic	not teste	đ
ALL AUGUSTON CONTRACTOR OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE		i i	
Hazardous Constituents (per 40CFR 261; Appe	ndix VII)		
2.			
3. 4.			ggaganille
RESULTS OF EP TO	XICITY TEST		
Contaminant Allowed(mg/L) Found (mg/L)	Contaminant	Allowed (mg/L)	
7 0 001	Silver	5.0 ·	∠ 0.001
rsenic 5.0 <u>20.001</u> Barium 100.0 <u>0.012</u>	Endrin	0.02	< 0.00005
Gadmium 1.0 ∠ 0.001	Lindane	0.40	< 0.00001
hromium 5.0 0.003	Methoxychlor	10.0	< 0.00002
Lead 5.0 0.010	Toxaphene	0.5.	< 0.0005
Figury 0.2 < 0.0002	2,4-D	10.0	< 0.0001
elenium 1.0 < 0.001	2,4,5-TP	1.0	< 0.0001
The above characteristics have been determined and the EPA manual Test Methods for the Every Revision A; August 8, 1980.	ned in accordanalization of Soli	nce with 40CFR to Waste; SW-846	261 3,

Environmental Laboratory

Form No. G-03/81

## **GROUNDWATER RESULTS**



SAMPLE DATA

GW-IA

## ORGANICS ANALYSIS DATA SHEET

( PAGE 1 )

SAMPLE NUMBER

GW-1A

Laboratory Name: NANCO LABORATORY INC.

Lab File ID No:>A3001

Sample Matrix: WATER

Data Release Authorized By: Kathlex M. Kellif

Lancaster Reclaimation

Case No: ENG. SCIENCE

QC Report No: N/A

Contract No: N/A

Date Sample Received: 10/31/87

Concentration: Low Medium

(Circle One)

Date Extracted/Prepared:

11/03/87 11/03/87

Date Analyzed: Conc/Dil Factor:

pH: 10.0

Percent Moisture:

N/A

CAS	ug/l or ug/Kg	CAS	ug/l or ug/Kg
Number	( Circle One )	Number	( Circle One )
74-87-3  Chloromethane	10.0 U	79-34-5   1,1,2,2-Tetrachloroethane	5.0 U
74-83-9  Bromomethane	10.0 U	78-87-5   1,2-Dichloropropane	j 5.0 U j
75-01-4  Vinyl Chloride	10.0 U	10061-02-6  Trans-1,3-Dichloropropene	j 5.0 U j
75-00-3  Chloroethane	10.0 U j	79-01-6   Trichloroethene	5.0 U
75-09-2   Methylene Chloride	3.3 JB	124-48-1   Dibromochloromethane	5.0 U
67-64-1  Acetone	4.5 J	79-00-5   1,1,2-Trichloroethane	5.0 U
75-15-0  Carbon Disulfide	5.0 U	71-43-2   Benzene	5.0 U
75-35-4  1,1-Dichloroethene	j 5.0 U j	10061-01-5  cis-1,3-Dichloropropene	5.0 U
75-34-3  1,1-Dichloroethane	5.0 U	110-75-8   2-Chloroethylvinylether	10.0 U
156-60-5 Trans-1,2-Dichloroethene	5.0 U	75-25-2   Bromoform	5.0 U
67-66-3  Chloroform	5.0 U	591-78-6   2-Hexanone	1 10.0 0
107-06-2 1,2-Dichloroethane	5.0 U	108-10-1   4-Methyl-2-Pentanone	10.0 U
78-93-3   2-Butanone	10.0 U	127-18-4   Tetrachloroethene	5.0 U
71-55-6   1,1,1-Trichloroethane	5.0 U	108-88-3   Toluene	5.0 U
56-23-5  Carbon Tetrachloride	5.0 U	108-90-7   Chlorobenzene	5.0 U
108-05-4 Vinyl Acetate	10.0 U	100-41-4 Ethylbenzene	5.0 U
75-27-4 Bromodichloromethane	5.0 U	100-42-5   Styrene	5.0 U
***************************************		Total Xylenes	5.0 U

#### Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE

If the result is a value greater than or equal to the detection. This flag applies to pesticide parameters where the identification limit, report the value.

U

Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U(e.g.10U based on necessary concentration dilution actions. (This is not This flag is used when the analyte is found in the blank as well necessarily the instrument detection limit.) The footnote should as a sample. It indicates possible/probable blank contamination read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J

Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds and such description attached to the data summary report. where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

and warns the data user to take appropriate action.

Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described

# ORGANIC ANALYSIS DATA SHEET ( PAGE 2 )

LABORATORY NAME: NANCO LABS. INC. CASE NO: ENG. SCIENCE Lancaster Reclaimation

SAMPLE NO.

GW-1A

#### SEMIVOLATILE COMPOUNDS

	Concentration: Low	Medium	(Circle One)	GPC Cleanup: Yes No_X	
	Date Extracted/Prepared: 11/	03/87		Separatory Funnel Extraction	<del></del>
	Date Analyzed: 12/01/87			Continuous Liquid - Liquid E	xtraction: Yes_
	Conc/Dil Factor:	> 1			
	Percent Moisture: N/A	$f \rightarrow$			
CAS		(ug/l or ug/Kg	CAS		ug/V or ug/Kg
Number		( Circle One )	Number		( Circle One )
1	1	1	83-32-9	Acenaphthene	10.0 U
108-95-2	Phenol	10.0 U	51-28-5	2,4-Dinitrophenol	50.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U	100-02-7	4-Nitrophenol	50.0 U
95-57-8	2-Chlorophenol	10.0 0	132-64-9	Dibenzofuran	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U	121-14-2	2,4-Dinitrotoluene	10.0 U
106-46-7	1,4-Dichlorobenzene	10.0 U	606-20-2	2,6-Dinitrotoluene	[ 10.0 U
100-51-6	Benzyl Alcohol	10.0 U	84-66-2	Diethylphthalate	10.0 U
95-50-1	1,2-Dichlorobenzene	10.0 U	7005-72-3	4-Chlorophenyl-phenylether	10.0 U
95-48-7	2-Methylphenol	10.0 U	86-73-7	Fluorene	10.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U	100-01-6	4-Nitroaniline	50.0 U
106-44-5	4-Methylphenol	10.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U	86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
67-72-1	Hexachloroethane	10.0 U	101-55-3	4-Bromophenyl-phenylether	10.0 U
98-95-3	Nitrobenzene	10.0 0	i   118-74-1	Hexachlorobenzene	10.0 U
78-59-1	Isophorone	10.0 U	87-86-5	Pentachlorophenol	50.0 U
88-75-5	2-Nitrophenol	j 10.0 u j	85-01-8	Phenanthrene	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U	120-12-7	Anthracene	10.0 U
65-85-0	Benzoic Acid	50.0 U	84-74-2	Di-n-Butylphthalate	10.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	j 10.0 U j	206-44-0	Fluoranthene	10.0 U
120-83-2	2,4-Dichlorophenol	10.0 U	129-00-0	Pyrene	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U	85-68-7	Butylbenzylphthalate	10.0 U
91-20-3	Naphthalene	10.0 υ	91-94-1	3,31-Dichlorobenzidine	20.0 U
106-47-8	4-Chloroaniline	10.0 U	56-55-3	Benzo(a)Anthracene	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U	1 117-81-7	bis(2-Ethylhexyl)Phthalate	7.3 J
59-50-7	4-Chloro-3-Methylphenol	i 10.0 u i	218-01-9	Chrysene	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U	117-84-0	Di-n-Octyl Phthalate	10.0 U
77-47-4	Hexachlorocyclopentadiene	10.0 υ	205-99-2	Benzo(b)Fluoranthene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U	207-08-9	Benzo(k)Fluoranthene	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U	50-32-8	Benzo(a)Pyrene	11.4 B
91-58-7	2-Chloronaphthalene	10.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
88-74-4	2-Nitroaniline	50.0 U	53-70-3	Dibenz(a,h)Anthracene	10.0 U
131-11-3	Dimethyl Phthalate	10.0 U	191-24-2	Benzo(g,h,i)Perylene	10.0 U
208-96-8	Acenaphthylene	10.0 U	i	1	
99-09-2	3-Nitroaniline	50.0 U	 		
		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(1) - Cannot H	oe separated from diphenylamine	
1	1	1 1	(1) - cannor r	de separated from diprienty camine	

# ORGANICS ANALYSIS DATA SHEET ( PAGE 4 )

SAMPLE NUMBER GW-1A

LABORATORY NAME :NANCO LABS.INC.

CASE NO: ENG. SCIENCE Lancaster Reclaimation

## Tentatively Identified Compounds

						Estimated
		CAS			RT of Scar	- / -
	1	Number	Compound Name	Fraction	Number	(ug/l) or ug/Kg)
 I	1		NONE FOUND	VOA		
1	2		I NONE TOURD	IVOA		
1	3		UNKNOWN	BNA	   120	75.0 J
1	4		•	•	1277	25.0 J
1	5		UNKNOWN	BNA		•
1			UNKNOWN ALKENE	BNA	1388	20.0 J
١	6		UNKNOWN ALKANE	BNA	1544	12.0 J
١	7		UNKNOWN	BNA	1590	13.0 J
١	8		1	1		!
ı	9		1			
	10		1			!
1	11		1			
1	12		!			1
	13					
	14			1		
-	15					1
l	16		1			]
1	17		1			
	18			1		l
	19		1			
	20					1
١	21					
	22					
1	23		1			
	24		1	1		1
١	25		· ·			
	26		1			

MAR O 1 1988

# INORGANIC ANALYSIS DATA SHEET FORM I

SMPL NO .: GW-1A

Lab Name : NANCO LABORATORIES, INC.

Customer Name: Engineering Science

SOW NO. : N/A

Lab Receipt Date: 10/31/87

Lab Sample ID: 87-EW-3757

Date Reported: \2\9\87

Location ID: LANCASTER RECLAMATION

#### ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW \_\_X \_\_ MEDIUM \_\_\_\_\_

MATRIX: WATER \_\_X \_\_ SOIL \_\_\_\_\_ SLUDGE \_\_OTHER \_\_\_\_

UG/L OR MG/KG DRY WEIGHT ( CIRCLE ONE )

1.	ALUMINUM	41000.0	P	13. MAGNESIUM	154500.0 P
2.	ANTIMONY	50.0	υN	14. MANGANESE	3671.0 P
3.	ARSENIC	10.6	SFN	15. MERCURY	0.2 U C.V.
4.	BARIUM	415.0	P	16. NICKEL	104.0 P
5.	BERYLLIUM	2.0	Ичи	17. POTASSIUM	11100.0 P
6.	CADMIUM	5.0	P	18. SELENIUM	15.0 UFN
7.	CALCIUM	359200.0	P	19. SILVER	10.0 UPN
8.	CHROMIUM	189.0	P	20. SODIUM	35100.0 P
9.	COBALT	39.0	<b>P</b>	21. THALLIUM	2.0 UF
10.	COPPER	121.0		22. VANADIUM	108.0 P
11.	IRON	104.9	P 101900. 6AM	23. ZINC	474.0 PN
12.	LEAD		FN# (1:10) PERCENT	SOLIDS (%)	NA
	CYANIDE	NR			
	PHENOL	NR		,	

FOOTNOTES: FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS: This sample was a brown, clear liquid. The sample became colorless after ICP digestions and lt yellow after furnace digestions.

Lead was analyzed at a 1:10 dilution.

Rusauth 9

LAB MANAGER



SAMPLE DATA

GW-1B

#### ORGANICS ANALYSIS DATA SHEET

( PAGE 1 )

SAMPLE NUMBER

**GW-1B** 

Laboratory Name: NANCO LABORATORY INC.

Lab File ID No:>A3027

Sample Matrix: WATER Kathleex M Kellef Data Release Authorized By

Case No: ENG. SCIENCE QC Report No: N/A Contract No: N/A

Date Sample Received: 10/31/87

Lancaster Reclaimation

Concentration: Date Extracted/Prepared:

Medium 11/04/87

(Circle One)

Date Analyzed: Conc/Dil Factor: 11/04/87

CAS

pH: 10.9

Percent Moisture:

N/A

CAS Numbor

Number

Number	( Circle One )	Number	-( Circle one
74-87-3  Chloromethane	10.0 U	79-34-5   1,1,2,2-Tetrachloroethane	5.0 U
74-83-9 Bromomethane	10.0 U	78-87-5   1,2-Dichloropropane	5.0 U
75-01-4  Vinyl Chloride	10.0 U	10061-02-6  Trans-1,3-Dichloropropene	5.0 U
75-00-3  Chloroethane	10.0 U	79-01-6   Trichloroethene	5.0 U
75-09-2  Methylene Chloride	53.9 B	124-48-1   Dibromochloromethane	5.0 U
67-64-1  Acetone	21.0 B	79-00-5   1,1,2-Trichloroethane	5.0 U
75-15-0  Carbon Disulfide	5.0 U	71-43-2   Benzene	5.0 U
75-35-4  1,1-Dichloroethene	5.0 U	10061-01-5  cis-1,3-Dichloropropene	5.0 U
75-34-3  1,1-Dichloroethane	j 5.0 υ j	110-75-8   2-Chloroethylvinylether	10.0 U
156-60-5 Trans-1,2-Dichloroethene	5.0 U	75-25-2   Bromoform	5.0 U
67-66-3  Chloroform	5.0 U	591-78-6   2-Hexanone	10.0 U
107-06-2 1,2-Dichloroethane	5.0 U	108-10-1   4-Methyl-2-Pentanone	10.0 U
78-93-3  2-Butanone	10.0 U	127-18-4   Tetrachloroethene	5.0 U
71-55-6  1,1,1-Trichloroethane	5.0 U	108-88-3   Toluene	5.0 U
56-23-5   Carbon Tetrachloride	5.0 U	108-90-7   Chlorobenzene	5.0 U
108-05-4 Vinyl Acetate	10.0 U	100-41-4   Ethylbenzene	5.0 U
75-27-4   Bromodichloromethane	5.0 U	100-42-5   Styrene	5.0 U
		Total Xylenes	5.0 U

#### Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE

If the result is a value greater than or equal to the detection This flag applies to pesticide parameters where the identification limit, report the value.

u

Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U(e.g.10U

based on necessary concentration dilution actions. (This is not This flag is used when the analyte is found in the blank as well necessarily the instrument detection limit.) The footnote should as a sample. It indicates possible/probable blank contamination read U-Compound was analyzed for but not detected. The number is and warns the data user to take appropriate action. the minimum attainable detection limit for the sample.

J

Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds and such description attached to the data summary report. where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described

# ORGANIC ANALYSIS DATA SHEET ( PAGE 2 )

LABORATORY NAME: NANCO LABS. INC.

CASE NO: ENG. SCIENCE Lancaster Reclaimation

SAMPLE NO. GW-1B

## SEMIVOLATILE COMPOUNDS

	Concentration:  Date Extracted/Prepared: 11  Date Analyzed: 12/03/87  Conc/Dil Factor:	•	(Circle One)	GPC Cleanup: Yes No Separatory Funnel Extractio Continuous Liquid - Liquid	n: YesX
CAS Number	Percent Moisture: N/A	( Circle One )	CAS Number		( Circle One )
			83-32-9	Acenaphthene	10.0 U
108-95-2	Phenol	10.0 U	51-28-5	2,4-Dinitrophenol	50.0 U
111-44-4	bis(-2-Chloroethyl)Ether	j 10.0 U j	100-02-7	4-Nitrophenol	50.0 U
95-57-8	2-Chlorophenol	10.0 U	132-64-9	Dibenzofuran	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U	121-14-2	2,4-Dinitrotoluene	10.0 U
106-46-7	1,4-Dichlorobenzene	10.0 U	606-20-2	2,6-Dinitrotoluene	10.0 0
100-51-6	Benzyl Alcohol	10.0 U	84-66-2	Diethylphthalate	10.0 U
95-50-1	1,2-Dichlorobenzene	10.0 U	7005-72-3	4-Chlorophenyl-phenylether	10.0 U
95-48-7	2-Methylphenol	10.0 U	86-73-7	Fluorene	10.0 0
39638-32-9	bis(2-chloroisopropyl)Ether	•	100-01-6	4-Nitroaniline	50.0 U
106-44-5	4-Methylphenol	10.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U j
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 0	86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
67-72-1	Hexachloroethane	10.0 U	101-55-3	4-Bromophenyl-phenylether	10.0 U
98-95-3	Nitrobenzene	10.0 U	118-74-1	Hexachlorobenzene	10.00
78-59-1	Isophorone	10.0 U	87-86-5	Pentachlorophenol	50.0 U
88-75-5	2-Nitrophenol	10.0 U	85-01-8	Phenanthrene	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U	120-12-7	Anthracene	10.0 U
65-85-0	Benzoic Acid	50.0 U	84-74-2	Di-n-Butylphthalate	10.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U	206-44-0	Fluoranthene	10.0 U
120-83-2	2,4-Dichlorophenol	10.0 U	129-00-0	Pyrene	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U	85-68-7	Butylbenzylphthalate	10.0 U
91-20-3	Naphthalene	10.0 U	91-94-1	3,3'-Dichlorobenzidine	20.0 U
106-47-8	4-Chloroaniline	10.0 U	56-55-3	Benzo(a)Anthracene	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	163.9
59-50-7	4-Chloro-3-Methylphenol	10.0 U	218-01-9	Chrysene	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U	117-84-0	Di-n-Octyl Phthalate	10.0 U
77-47-4	Hexachlorocyclopentadiene	10.0 U	205-99-2	Benzo(b)Fluoranthene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U	207-08-9	Benzo(k)Fluoranthene	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U	50-32-8	Benzo(a)Pyrene	10.0 U
91-58-7	2-Chloronaphthalene	10.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
88-74-4	2-Nitroaniline	50.0 U	53-70-3	Dibenz(a,h)Anthracene	10.0 U
131-11-3	Dimethyl Phthalate	10.0 U	191-24-2	Benzo(g,h,i)Perylene	10.0 U
208-96-8	Acenaphthylene	10.0 U j		1	1 1
99-09-2	3-Nitroaniline	[ 50.0 U ]			******
	1	i i	(1) - Cannot k	oe separated from diphenylamine	

# ORGANICS ANALYSIS DATA SHEET ( PAGE 4 )

SAMPLE NUMBER GW-1B

LABORATORY NAME :NANCO LABS.INC.

CASE NO: ENG. SCIENCE Lancaster Reclaimation

## Tentatively Identified Compounds

		CAS			RT or Scar	Estimated Concentration
		Number	Compound Name	Fraction	Number	(ug/l or ug/Kg)
 	1		NONE FOUND	VOA		
1	2					
I	3	127184	ETHENE, TETRACHLORO	BNA	56	10.0 J
-	4	505180	PYRIDINE,2,3,4,5-TETRAHYDRO	BNA	127	18.0 J
1	5	928949	2-HEXEN-1-OL	BNA	175	34.0 J
1	6	• • • •	UNKNOWN	BNA	230	87.0 J
l	7		UNKNOWN	BNA	233	13.0 J
-	8		UNKNOWN	BNA	346	16.0 J
-	9		UNKNOWN	BNA	1469	14.0 J
1	10		UNKNOWN	BNA	1537	21.0 J
1	11	56771483	CYCLOPROPANAMINE, N-METHYL-1-PHENYL	BNA	1600	31.0 J
-	12		UNKNOWN	BNA	1659	42.0 J
ĺ	13		UNKNOWN	BNA	1717	37.0 J
-	14	• • • •	UNKNOWN	BNA	1782	130.0 J
-	15		UNKNOWN	BNA	1860	26.0 J
1	16		UNKNOWN	BNA	1954	15.0 J
1	17	••••	UNKNOWN	BNA	2072	14.0 J
1	18			1	1 1	
-	19				1 1	1
-	20			1		
1	21		1	1		
-	22					1
İ	23			1		1
1	24				1 1	
	25		1			
	26		1	1		

SMPL NO .: GW-1B

Lab Name : NANCO LABORATORIES, INC.

Customer Name: Engineering Science

SOW NO. : N/A

Lab Receipt Date: 10/31/87

Lab Sample ID: 87-EW-3763

Date Reported: 12/9/87

Location ID: LANCASTER RECLAMATION

ELEMENTS IDENTIFIED AND MEASURED

MEDIUM CONCENTRATION :

PREEDINGTED 1888 SLUDGE \_\_\_\_OTHER \_\_\_ MATRIX: WATER SOIL

OR MG/KG DRY WEIGHT ( CIRCLE ONE )

			Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of th	
1.	ALUMINUM	1150.0 P	13. MAGNESIUM	13900.0 P
2.	ANTIMONY	50.0 UP N	14. MANGANESE	15.0 UP
3.	ARSENIC	3.0 UF N	15. MERCURY	0.2 U C.V.
4.	BARIUM	[ 120.0 ]P	16. NICKEL	25.0 UP
5.	BERYLLIUM	2.0 UP N	17. POTASSIUM	8300.0 P
6.	CADMIUM	5.0 UP	18. SELENIUM	3.0 UF N
7.	CALCIUM	65900.0 P	19. SILVER	10.0 UP N
8.	CHROMIUM	18.0 P	20. SODIUM	56600.0 P
9.	COBALT	30.0 UP	21. THALLIUM	2.0 UF
10.	COPPER	15.0 UP	22. VANADIUM	25.0 UP
11.	IRON	2435.0 P	23. ZINC	39.0 PN
12.	LEAD	[ 3.6 ]FN#	PERCENT SOLIDS (%)	NA
	CYANIDE	NR		

FOOTNOTES: FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS: This sample was a clear, colorless liquid and remained clear and colorless after ICP and furnace digestion procedures.

LAB MANAGER

NR

PHENOL



SAMPLE DATA

GW-2B

#### ORGANICS ANALYSIS DATA SHEET

( PAGE 1 )

SAMPLE NUMBER

GW-2B

Laboratory Name: NANCO LABORATORY INC.

Lab File ID No:>A3002

Sample Matrix: WATER Kathleex M. Kellif Day VOLATILE COMPOUNDS

Data Release Authorized By:

QC Report No: N/A Contract No: N/A

Lancaster Reclaimation Case No: ENG. SCIENCE

Date Sample Received: 10/31/87

Concentration:

(Circle One) Medium 11/03/87

Date Extracted/Prepared: Date Analyzed:

11/03/87

pH: 11.4

Conc/Dil Factor:

N/A

Percent Moisture:

CAS Number	(ug/l) or ug/Kg (Circle One )	CAS Number	ug/l or ug/Kg ( Circle One )
'74-87-3  Chloromethane	10.0 U	79-34-5   1,1,2,2-Tetrachloroethane	5.0 U
74-83-9  Bromomethane	10.0 U	78-87-5   1,2-Dichloropropane	5.0 U
75-01-4  Vinyl Chloride	10.0 U	10061-02-6  Trans-1,3-Dichloropropene	5.0 U
75-00-3  Chloroethane	10.0 U	79-01-6   Trichloroethene	5.0 U
75-09-2  Methylene Chloride	7.9 B	124-48-1   Dibromochloromethane	5.0 U
67-64-1   Acetone	10.8	79-00-5   1,1,2-Trichloroethane	5.0 U
75-15-0  Carbon Disulfide	5.0 U	71-43-2   Benzene	5.0 U
75-35-4  1,1-Dichloroethene	5.0 U	10061-01-5  cis-1,3-Dichloropropene	5.0 U
75-34-3  1,1-Dichloroethane	j 5.0 U j	110-75-8   2-Chloroethylvinylether	10.0 U
156-60-5 Trans-1,2-Dichloroethene	j 5.0 U j	75-25-2   Bromoform	5.0 U
167-66-3  Chloroform	j 5.0 U j	591-78-6   2-Hexanone	10.0 U
107-06-2 1,2-Dichloroethane	j 5.0 U j	108-10-1 4-Methyl-2-Pentanone	10.0 U
78-93-3  2-Butanone	i 10.0 U i	127-18-4   Tetrachloroethene	5.0 U
71-55-6  1,1,1-Trichloroethane	5.0 U	108-88-3   Toluene	5.0 U
56-23-5  Carbon Tetrachloride	5.0 U	108-90-7   Chlorobenzene	5.0 U
108-05-4 Vinyl Acetate	10.0 U	100-41-4   Ethylbenzene	5.0 U
75-27-4  Bromodichloromethane	5.0 U	100-42-5   Styrene	5.0 U
		Total Xylenes	5.0 U
·			

## Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

#### VALUE

limit, report the value.

U

Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U(e.g.10U based on necessary concentration dilution actions. (This is not This flag is used when the analyte is found in the blank as well necessarily the instrument detection limit.) The footnote should as a sample. It indicates possible/probable blank contamination read U-Compound was analyzed for but not detected. The number is and warns the data user to take appropriate action. the minimum attainable detection limit for the sample.

J

Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds and such description attached to the data summary report. where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

If the result is a value greater than or equal to the detection. This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

В

Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described

# ORGANIC ANALYSIS DATA SHEET ( PAGE 2 )

LABORATORY NAME: NANCO LABS. INC. CASE NO: ENG. SCIENCE Lancaster Reclaimation

SAMPLE NO. GW-2B

#### SEMIVOLATILE COMPOUNDS

	Concentration: (Low	Medium	(Circle One)	GPC Cleanup: Yes No_>	<b>(</b>	
	Date Extracted/Prepared: 11/03/87  Date Analyzed: 12/01/87  Separatory Funnel Extraction: Yes_X_ Continuous Liquid - Liquid Extraction: Yes_X_					
	Conc/Dil Factor:	> 1				
	Percent Moisture: N/A					
CAS		ug/l/ or ug/Kg	CAS		ug/V or ug/Kg	
Number		( Circle One )	Number		(Circle One )	
1	1		83-32-9	Acenaphthene	10.0 U	
108-95-2	Phenol	10.0 U	51-28-5	2,4-Dinitrophenol	50.0 U	
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U	100-02-7	4-Nitrophenol	50.0 U	
95-57-8	2-Chlorophenol	10.0 U	132-64-9	Dibenzofuran	10.0 U	
541-73-1	1,3-Dichlorobenzene	10.0 U	121-14-2	2,4-Dinitrotoluene	10.0 U	
106-46-7	1,4-Dichlorobenzene	10.0 U	606-20-2	2,6-Dinitrotoluene	10.0 U	
100-51-6	Benzyl Alcohol	10.0 U	84-66-2	Diethylphthalate	10.0 U	
95-50-1	1,2-Dichlorobenzene	10.0 U	7005-72-3	4-Chlorophenyl-phenylether	10.0 U	
95-48-7	2-Methylphenol	10.0 U	86-73-7	Fluorene	10.0 U	
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U	100-01-6	4-Nitroaniline	50.0 U	
106-44-5	4-Methylphenol	10.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U	
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U	86-30-6	N-Nitrosodiphenylamine (1)	10.0 U	
67-72-1	Hexachloroethane	10.0 U	101-55-3	4-Bromophenyl-phenylether	10.0 U	
98-95-3	Nitrobenzene	10.0 U	118-74-1	Hexachlorobenzene	10.0 U	
78-59-1	Isophorone	10.0 U	87-86-5	Pentachlorophenol	50.0 U	
88-75-5	2-Nitrophenol	10.0 U	85-01-8	Phenanthrene	10.0 U	
105-67-9	2,4-Dimethylphenol	10.0 U	120-12-7	Anthracene	10.0 U	
65-85-0	Benzoic Acid	50.0 U	84-74-2	Di-n-Butylphthalate	2.4 J	
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U	206-44-0	Fluoranthene	10.0 U	
120-83-2	2,4-Dichlorophenol	10.0 U	129-00-0	Pyrene	10.0 U	
120-82-1	1,2,4-Trichlorobenzene	10.0 U	85-68-7	Butylbenzylphthalate	10.0 U	
91-20-3	Naphthalene	10.0 U	91-94-1	3,3'-Dichlorobenzidine	20.0 U	
106-47-8	4-Chloroaniline	10.0 U	56-55-3	Benzo(a)Anthracene	10.0 U	
87-68-3	Hexachlorobutadiene	10.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	89.5	
59-50-7	4-Chloro-3-Methylphenol	10.0 U	218-01-9	Chrysene	10.0 U	
91-57-6	2-Methylnaphthalene	10.0 U	117-84-0	Di-n-Octyl Phthalate	30.7	
77-47-4	Hexachlorocyclopentadiene	10.0 U	205-99-2	Benzo(b)Fluoranthene	10.0 U	
88-06-2	2,4,6-Trichlorophenol	10.0 U	207-08-9	Benzo(k)Fluoranthene	10.0 U	
95-95-4	2,4,5-Trichlorophenol	50.0 U	50-32-8	Benzo(a)Pyrene	11.9 B	
91-58-7	2-Chloronaphthalene	10.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U	
88-74-4	2-Nitroaniline	50.0 U	53-70-3	Dibenz(a,h)Anthracene	10.0 U	
131-11-3	Dimethyl Phthalate	10.0 U	191-24-2	Benzo(g,h,i)Perylene	10.0 U	
208-96-8	Acenaphthylene	10.0 U				
99-09-2	3-Nitroaniline	50.0 U				

SAMPLE NUMBER GW-2B

LABORATORY NAME :NANCO LABS.INC.

CASE NO: ENG. SCIENCE Lancaster Reclaimation

1   NONE FOUND   VOA			CAS Number	Compound Name	Fraction	RT or Scan	Estimated  Concentration (ug/l) or ug/Kg)
2							\
3   UNKNOWN ALKENE	l	1		NONE FOUND	VOA		
4		2					
5   UNKNOWN   BNA   1289   740.0     6   ISOMER OF EICOSENE   BNA   1291   34.0     7   UNKNOWN ALKANE   BNA   1335   31.0     8   UNKNOWN ALKANE   BNA   1342   40.0     9   UNKNOWN ALKANE   BNA   1390   550.0     10   UNKNOWN ALKANE   BNA   1396   56.0     11   UNKNOWN ALKANE   BNA   1447   56.0     12   UNKNOWN ALKANE   BNA   1447   56.0     13   UNKNOWN ALKANE   BNA   1447   54.0     14 28553120   1,2 BENZENEDICARBOXYLIC ACID, DIISONYL ESTER   BNA   1563   61.0     15 28553120   1,2 BENZENEDICARBOXYLIC ACID, DIISONYL ESTER   BNA   1575   28.0     16   UNKNOWN ALKANE   BNA   1575   28.0     17 544763   HEXADECANE   BNA   1635   64.0     18 26761400   1,2 BENZENEDICARBOXYLIC ACID, DIISODECYL ESTER   BNA   1666   29.0     19 112958   EICOSANE   BNA   1678   38.0     20                   22                   23                   24     25                   25                     26                   27                     28                       29                     20                     21                     22	1	3		UNKNOWN	BNA	121	42.0
6	1	4		UNKNOWN ALKENE	BNA	1158	14.0
7		5		UNKNOWN	BNA	1289	740.0
8   UNKNOWN ALKANE   BNA   1342   40.0     9   UNKNOWN   BNA   1390   550.0     10   UNKNOWN ALKANE   BNA   1396   56.0     11   UNKNOWN ALKANE   BNA   1447   56.0     12   UNKNOWN ALKANE   BNA   1447   54.0     13   UNKNOWN ALKANE   BNA   1545   95.0     14 28553120   1,2 BENZENEDICARBOXYLIC ACID, DIISONYL ESTER BNA   1563   61.0     15 28553120   1,2 BENZENEDICARBOXYLIC ACID, DIISONYL ESTER BNA   1575   28.0     16   UNKNOWN ALKANE   BNA   1591   120.0     17 544763   HEXADECANE   BNA   1635   64.0     18 26761400   1,2 BENZENEDICARBOXYLIC ACID, DIISODECYL ESTER BNA   1666   29.0     19 112958   EICOSANE   BNA   1678   38.0     20		6		ISOMER OF EICOSENE	BNA	1291	34.0
9	1	7		UNKNOWN ALKANE	BNA	1335	31.0
10	Ĺ	8		UNKNOWN ALKANE	BNA	1342	40.0
11   UNKNOWN ALKANE   BNA   1447   56.0     12   UNKNOWN ALKANE   BNA   1497   54.0     13   UNKNOWN ALKANE   BNA   1545   95.0     14 28553120   1,2 BENZENEDICARBOXYLIC ACID, DIISONYL ESTER   BNA   1563   61.0     15 28553120   1,2 BENZENEDICARBOXYLIC ACID, DIISONYL ESTER   BNA   1575   28.0     16   UNKNOWN ALKANE   BNA   1591   120.0     17 544763   HEXADECANE   BNA   1635   64.0     18 26761400   1,2 BENZENEDICARBOXYLIC ACID, DIISODECYL ESTER   BNA   1666   29.0     19 112958   EICOSANE   BNA   1678   38.0     20	ĺ	9		UNKNOWN	BNA	1390	550.0
12   UNKNOWN ALKANE   BNA   1497   54.0     13   UNKNOWN ALKANE   BNA   1545   95.0     14 28553120   1,2 BENZENEDICARBOXYLIC ACID, DIISONYL ESTER   BNA   1563   61.0     15 28553120   1,2 BENZENEDICARBOXYLIC ACID, DIISONYL ESTER   BNA   1575   28.0     16   UNKNOWN ALKANE   BNA   1591   120.0     17 544763   HEXADECANE   BNA   1635   64.0     18 26761400   1,2 BENZENEDICARBOXYLIC ACID, DIISODECYL ESTER   BNA   1666   29.0     19 112958   EICOSANE   BNA   1678   38.0     20	ĺ	10		UNKNOWN ALKANE	BNA	1396	56.0
13   UNKNOWN ALKANE   BNA   1545   95.0     14 28553120   1,2 BENZENEDICARBOXYLIC ACID, DIISONYL ESTER   BNA   1563   61.0     15 28553120   1,2 BENZENEDICARBOXYLIC ACID, DIISONYL ESTER   BNA   1575   28.0     16   UNKNOWN ALKANE   BNA   1591   120.0     17 544763   HEXADECANE   BNA   1635   64.0     18 26761400   1,2 BENZENEDICARBOXYLIC ACID, DIISODECYL ESTER   BNA   1666   29.0     19 112958   EICOSANE   BNA   1678   38.0     20	I	11		UNKNOWN ALKANE	BNA	1447	56.0
14 28553120   1,2 BENZENEDICARBOXYLIC ACID, DIISONYL ESTER   BNA   1563   61.0     15 28553120   1,2 BENZENEDICARBOXYLIC ACID, DIISONYL ESTER   BNA   1575   28.0     16	ĺ	12		UNKNOWN ALKANE	BNA	1497	54.0
15 28553120   1,2 BENZENEDICARBOXYLIC ACID, DIISONYL ESTER   BNA   1575   28.0   16   UNKNOWN ALKANE   BNA   1591   120.0   17 544763   HEXADECANE   BNA   1635   64.0   18 26761400   1,2 BENZENEDICARBOXYLIC ACID, DIISODECYL ESTER   BNA   1666   29.0   19 112958   EICOSANE   BNA   1678   38.0   20	1	13		UNKNOWN ALKANE	BNA	1545	95.0
16	1	14	28553120	1,2 BENZENEDICARBOXYLIC ACID, DIISONYL ESTER	BNA	1563	61.0
17 544763   HEXADECANE	1	15	28553120	1,2 BENZENEDICARBOXYLIC ACID, DIISONYL ESTER	BNA	1575	28.0
18 26761400   1,2 BENZENEDICARBOXYLIC ACID, DIISODECYL ESTER BNA   1666   29.0   19 112958   EICOSANE   BNA   1678   38.0   20	1	16		UNKNOWN ALKANE	BNA	1591	120.0
19 112958   EICOSANE	1	17	544763	HEXADECANE	BNA	1635	64.0
20	I	18	26761400	1,2 BENZENEDICARBOXYLIC ACID, DIISODECYL ESTER	BNA	1666	29.0
21	l	19	112958	EICOSANE	BNA	1678	38.0
22	1	20			1		
23	1	21				]	•
24	İ	22				1	
25		23			1		
	1	24					
26		25	1				
	1	26			1		

### INORGANIC ANALYSIS DATA SHEET FORM I

SMPL NO.: GW-2B

Lab Name: NANCO LABORATORIES, INC.

Customer Name: Engineering Science

SOW NO. : N/A

Lab Receipt Date: 10/31/87

Lab Sample ID: 87-EW-3758

Location ID: LANCASTER RECLAMATION

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW \_\_\_X\_\_\_ MEDIUM

888; I O FIGUR SLUDGE \_\_\_\_OTHER \_\_ MATRIX : WATER \_\_X\_\_ SOIL \_\_\_\_

UG/L OR MG/KG DRY WEIGHT ( CIRCLE ONE )

1.	ALUMINUM	930.0	P	13.	MAGNESIUM	7400.0	Þ
2.	ANTIMONY	50.0	UP N	14.	MANGANESE	15.0 (	JP
3.	ARSENIC	3.0	UF N	15.	MERCURY	0.2	J C.V.
4.	BARIUM	0.08	]P	16.	NICKEL	25.0	UP
5.	BERYLLIUM	2.0	UP N	17.	POTASSIUM	35100.0	P
6.	CADMIUM	5.0	UP	18.	SELENIUM	15.0	UF N
7.	CALCIUM	42100.0	P	19.	SILVER	10.0	UP N
8.	CHROMIUM	10.0	UP	20.	SODIUM	85700.0	Р
9.	COBALT	30.0	UP	21.	THALLIUM	2.0	UF
10.	COPPER	15.0	UP	22.	VANADIUM	25.0	UP
11.	IRON	1853.0	P	23.	ZINC	33.0	PN
12.	LEAD	[ 4.4	1 F N &	PERCENT SOLI	DS (%)	NA	
	CYANIDE	NR					

FOOTNOTES: FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS: This sample was a clear and colorless liquid. The sample remained colorless after ICP digestions but became It yellow after furnace digestions.

NR

LAB MANAGER

**PHENOL** 



GW-3A

#### ORGANICS ANALYSIS DATA SHEET

( PAGE 1 )

SAMPLE NUMBER

GW-3A

Laboratory Name: NANCO LABORATORY INC.

Lab File ID No:>A3004 Sample Matrix: WATER

Data Release Authorized By: Kuthlick M. Keilif

Lancaster Reclaimation Case No: ENG. SCIENCE

QC Report No: N/A Contract No: N/A

Date Sample Received: 10/31/87

VOLA TILE COMPOUNDS

Concentration:

Low, 11/03/87 (Circle One)

Date Extracted/Prepared:

11/03/87

Medium

Date Analyzed: Conc/Dil Factor:

pH: 7.8

Percent Moisture:

N/A

040	(ug/V) or ug/Kg	CAS	(ug/l) or ug/Kg
CAS	( Circle One )	Number	( Circle One )
Number	( tirdle one )	Number	
174-87-3  Chloromethane	10.0 U	79-34-5   1,1,2,2-Tetrachloroethane	5.0 U
74-83-9  Bromomethane	i 10.0 U İ	78-87-5   1,2-Dichloropropane	5.0 U
175-01-4  Vinyl Chloride	10.0 U	10061-02-6  Trans-1,3-Dichloropropene	5.0 U
75-00-3  Chloroethane	i 10.0 U i	79-01-6   Trichloroethene	5.0 U
75-09-2  Methylene Chloride	17.0 в	124-48-1   Dibromochloromethane	5.0 U
67-64-1  Acetone	12.7	79-00-5   1,1,2-Trichloroethane	5.0 U
75-15-0  Carbon Disulfide	5.0 U	71-43-2   Benzene	5.0 U
75-35-4  1,1-Dichloroethene	5.0 U	10061-01-5  cis-1,3-Dichloropropene	5.0 U
75-34-3  1,1-Dichloroethane	i 5.0 U i	110-75-8   2-Chloroethylvinylether	10.0 U
156-60-5   Trans-1,2-Dichloroethene	5.0 U	75-25-2   Bromoform	5.0 U
167-66-3   Chloroform	5.0 U	591-78-6   2-Hexanone	10.0 U
107-06-2 1,2-Dichloroethane	5.0 U	108-10-1   4-Methyl-2-Pentanone	10.0 U
,78-93-3  2-Butanone	10.0 U	127-18-4   Tetrachloroethene	5.0 U
71-55-6  1,1,1-Trichloroethane	5.0 U	108-88-3   Toluene	5.0 U
56-23-5  Carbon Tetrachloride	5.0 U	108-90-7   Chlorobenzene	5.0 U
108-05-4 Vinyl Acetate	1 10.0 U	100-41-4   Ethylbenzene	5.0 U
75-27-4  Bromodichloromethane	5.0 U	100-42-5   Styrene	5.0 U
112 2 12		Total Xylenes	5.0 U

#### Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

#### VALUE

imit, report the value.

U

Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U(e.g.10U Dased on necessary concentration dilution actions. (This is not This flag is used when the analyte is found in the blank as well 'ead U-Compound was analyzed for but not detected. The number is and warns the data user to take appropriate action. the minimum attainable detection limit for the sample.

J

'ndicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds and such description attached to the data summary report. where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification

iteria but the result is less than the specified detection limit greater than zero (e.g. 10J).

f the result is a value greater than or equal to the detection. This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

necessarily the instrument detection limit.) The footnote should as a sample. It indicates possible/probable blank contamination

# ORGANIC ANALYSIS DATA SHEET ( PAGE 2 )

LABORATORY NAME: NANCO LABS. INC. CASE NO: ENG. SCIENCE Lancaster Reclaimation SAMPLE NO. GW-3A

## SEMIVOLATILE COMPOUNDS

	Concentration: (Low)  Date Extracted/Prepared: 11/9	Medium 03/87	(Circle One)	GPC Cleanup: Yes No No No No No No No No No No No No No	n: YesX
	Date Analyzed: 12/01/87			Continuous Liquid - Liquid E	Extraction: Yes
	Conc/Dil Factor:	> 1			
	Percent Moisture: N/A				
CAS		(ug/l/ or ug/Kg	CAS		(ug/l) or ug/K
Number		( Circle One )	Number		( Circle One )
			1 07 72 0	Acenaphthene	10.0 U
		1004	83-32-9   51-28-5	2.4-Dinitrophenol	50.0 U
108-95-2	Phenol	10.0 U	,	4-Nitrophenol	50.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U	100-02-7	Dibenzofuran	10.0 U
95-57-8	2-Chlorophenol	10.0 U	132-64-9	!	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U	121-14-2	2,4-Dinitrotoluene	10.0 0
106-46-7	1,4-Dichlorobenzene	10.0 U	606-20-2	2,6-Dinitrotoluene	10.0 U
100-51-6	Benzyl Alcohol	10.0 U	84-66-2	Diethylphthalate	10.0 U
95-50-1	1,2-Dichlorobenzene	10.0 U	7005-72-3	4-Chlorophenyl-phenylether	
95-48-7	2-Methylphenol	10.0 U	86-73-7	Fluorene	10.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U	100-01-6	4-Nitroaniline	50.0 U
106-44-5	4-Methylphenol	10.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U	86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
67-72-1	Hexachloroethane	10.0 U	101-55-3	4-Bromophenyl-phenylether	10.0 U
98-95-3	Nitrobenzene	10.0 U	118-74-1	Hexachlorobenzene	10.0 U
78-59-1	Isophorone	10.0 U	87-86-5	Pentachlorophenol	50.0 U
88-75-5	2-Nitrophenol	10.0 U	85-01-8	Phenanthrene	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U	120-12-7	Anthracene	10.0 U
65-85-0	Benzoic Acid	50.0 U	84-74-2	Di-n-Butylphthalate	7.7 J
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U	206-44-0	Fluoranthene	10.0 U
120-83-2	2,4-Dichlorophenol	10.0 U	129-00-0	Pyrene	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U	85-68-7	Butylbenzylphthalate	10.0 U
91-20-3	Naphthalene	10.0 U	91-94-1	3,3'-Dichlorobenzidine	20.0 U
106-47-8	4-Chloroaniline	10.0 U	56-55-3	Benzo(a)Anthracene	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	25.9
59-50-7	4-Chloro-3-Methylphenol	10.0 U	218-01-9	Chrysene	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U	117-84-0	Di-n-Octyl Phthalate	10.0 U
77-47-4	Hexachlorocyclopentadiene	10.0 U	205-99-2	Benzo(b)Fluoranthene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U	207-08-9	Benzo(k)Fluoranthene	10.0 ປ
95-95-4	2,4,5-Trichtorophenol	50.0 U	50-32-8	Benzo(a)Pyrene	10.0 U
•	2-Chloronaphthalene	10.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
91-58-7	'	50.0 U	53-70-3	Dibenz(a,h)Anthracene	10.0 U
88-74-4	2-Nitroaniline	10.0 U	191-24-2	Benzo(g,h,i)Perylene	10.0 υ
131-11-3	Dimethyl Phthalate		1 171 67 6		
208-96-8	Acenaphthylene   3-Nitroaniline	10.0 U     50.0 U	1	1	

SAMPLE NUMBER GW-3A

LABORATORY NAME :NANCO LABS.INC.

CASE NO: ENG. SCIENCE Lancaster Reclaimation

1   UNKNOWN ALDEHYDE						(	Estimated
1   UNKNOWN ALDEHYDE   VOA   292   5.0 J   2							<i>f</i> .
2			Number	Compound Name	Fraction	Number	(ug// or ug/Kg)
2							
3   127184   ETHENE, TETRACHLORO   BNA   67   43.0 J     4     UNKNOWN   BNA   138   40.0 J     5   928949   2-HEXEN-1-OL   BNA   185   82.0 J     6     UNKNOWN   BNA   187   42.0 J     7     UNKNOWN   BNA   190   22.0 J     8   930687   2-CYCLOHEXEN-1-ONE   BNA   240   76.0 J     9     UNKNOWN   BNA   243   10.0 J     10                     11	1			UNKNOWN ALDEHYDE	VOA	292	5.0 J
4   UNKNOWN   BNA   138   40.0 J     5 928949   2-HEXEN-1-OL   BNA   185   82.0 J     6   UNKNOWN   BNA   187   42.0 J     7   UNKNOWN   BNA   190   22.0 J     8 930687   2-CYCLOHEXEN-1-ONE   BNA   240   76.0 J     9   UNKNOWN   BNA   243   10.0 J     10							
5 928949   2-HEXEN-1-OL		3	127184	ETHENE, TETRACHLORO	BNA	,	•
6	1	4		UNKNOWN	BNA	138	40.0 J
7		5	928949	2-HEXEN-1-OL	BNA	185	82.0 J
8 930687   2-CYCLOHEXEN-1-ONE   BNA   240   76.0 J   9   UNKNOWN   BNA   243   10.0 J   10		6		UNKNOWN	BNA	187	42.0 J
9   UNKNOWN	1	7		UNKNOWN	BNA	190	22.0 J
10	İ	8	930687	2-CYCLOHEXEN-1-ONE	BNA	240	76.0 J
11	ĺ	9		UNKNOWN	BNA	243	10.0 J
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13	i	11		1	į	1	
13	i	12		<u> </u>		i i	i
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## INORGANIC ANALYSIS DATA SHEET FORM I

Lab Name : NANCO LABORATORIES, INC.

Customer Name: Engineering Science

SMPL NO.: GW-3A

SOW NO. : N/A

Lab Receipt Date : 10/31/87

Lab Sample ID: 87-EW-3760

Date Reported: 12/9/87

Location ID: LANCASTER LANDFILL

✓ ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: MEDIUM \_\_\_\_

SLUDGE \_\_\_OTHER \_\_\_ WATER \_\_X\_\_ SOIL \_\_\_\_ MATRIX:

OR MG/KG DRY WEIGHT ( CIRCLE ONE )

1.	ALUMINUM	21420.0	Р			13. MAGNESIUM	137500.0	
2.	ANTIMONY	50.0	UP N			14. MANGANESE	2933.0	P
3.	ARSENIC	19.2	FN			15. MERCURY	0.2	u c.v.
4.	BARIUM	257.0	Р			16. NICKEL	76.0	Р
5.	BERYLLIUM	2.0	UP N			17. POTASSIUM	9300.0	Р
6.	CADMIUM	5.0	UP			18. SELENIUM	15.0	$\omega_{\text{AU}}$
7.	CALCIUM	325800.0	Р			19. SILVER	12.0	PN
8.	CHROMIUM	64.0	Р			20. SODIUM	11300.0	Р
9.	COBALT	67.0	Р			21. THALLIUM	2.0	UF
10.	COPPER	211.0	Р			22. VANADIUM	£ 48.0	]P
11.	IRON	101300.0	P	•		23. ZINC	1526.0	PN
12.	LEAD	195.0	FNOT	(1:10)	PERCENT S	OLIDS (%)	NA	
	CYANIDE	NR						
	PHENOL	NR						

FOOTNOTES: FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS: This sample was a brown, clear liquid. The sample became colorless after ICP digestions and It yellow after furnace digestions.

Lead was analyzed at a 1:10 dilution.

LAB MANAGER



GW-3B

#### ORGANICS ANALYSIS DATA SHEET

( PAGE 1 )

SAMPLE NUMBER

GW-3B

Laboratory Name: NANCO LABORATORY INC.

Lab File ID No:>A3003 Sample Matrix: WATER

Data Release Authorized By: Lathlex M. Kelly

Lancaster Reclaimation Case No: ENG. SCIENCE QC Report No: N/A Contract No: N/A

Date Sample Received: 10/31/87

Concentration:

Date Extracted/Prepared:

Date Analyzed:

Conc/Dil Factor:

Percent Moisture:

Medium

(Circle One)

11/03/87 11/03/87

pH: 8.7

N/A

CAS	(ug/l or ug/Kg	CAS	(ug/l) or ug/Kg
Number	( Circle One )	Number	( Circle One )
74-87-3  Chloromethane	10.0 U	79-34-5   1,1,2,2-Tetrachloroethane	5.0 U
74-83-9  Bromomethane	10.0 U	78-87-5   1,2-Dichloropropane	5.0 U
75-01-4  Vinyl Chloride	10.0 U	10061-02-6  Trans-1,3-Dichloropropene	5.0 U
75-00-3  Chloroethane	10.0 U	79-01-6   Trichloroethene	5.0 U
75-09-2   Methylene Chloride	24.0 B	124-48-1   Dibromochloromethane	5.0 U
67-64-1   Acetone	18.6	79-00-5   1,1,2-Trichloroethane	5.0 U
75-15-0   Carbon Disulfide	5.0 U	71-43-2   Benzene	5.0 U
75-35-4  1,1-Dichloroethene	[ 5.0 U	10061-01-5  cis-1,3-Dichloropropene	5.0 U
75-34-3  1,1-Dichloroethane	5.0 U	110-75-8   2-Chloroethylvinylether	10.0 U
156-60-5 Trans-1,2-Dichloroethene	5.0 U	75-25-2   Bromoform	5.0 U
67-66-3  Chloroform	5.0 U	591-78-6   2-Hexanone	10.0 U
107-06-2 1,2-Dichloroethane	5.0 U	108-10-1 4-Methyl-2-Pentanone	10.0 U
78-93-3  2-Butanone	10.0 U	127-18-4   Tetrachloroethene	5.0 U
71-55-6  1,1,1-Trichloroethane	5.0 U	108-88-3   Toluene	5.0 U
56-23-5  Carbon Tetrachloride	5.0 U	108-90-7   Chlorobenzene	5.0 U
108-05-4 Vinyl Acetate	10.0 U	100-41-4 Ethylbenzene	5.0 U
75-27-4 Bromodichloromethane	5.0 U	100-42-5   Styrene	5.0 U
		Total Xylenes	5.0 U

#### Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

### VALUE

If the result is a value greater than or equal to the detection. This flag applies to pesticide parameters where the identification limit, report the value.

Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U(e.g.10U based on necessary concentration dilution actions. (This is not This flag is used when the analyte is found in the blank as well read U-Compound was analyzed for but not detected. The number is and warns the data user to take appropriate action. the minimum attainable detection limit for the sample.

Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds and such description attached to the data summary report. where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

В

necessarily the instrument detection limit.) The footnote should as a sample. It indicates possible/probable blank contamination

## ORGANIC ANALYSIS DATA SHEET ( PAGE 2 )

LABORATORY NAME: NANCO LABS. INC.

CASE NO: ENG. SCIENCE Lancaster Reclaimation

SAMPLE NO. GW-3B

## SEMIVOLATILE COMPOUNDS

	Concentration:  Date Extracted/Prepared: 11/ Date Analyzed: 12/01/87  Conc/Dil Factor:		(Circle One)	GPC Cleanup: Yes No_) Separatory Funnel Extraction Continuous Liquid - Liquid R	r: Yes_X_
	Percent Moisture: N/A				
CAS		ug/V or ug/Kg	CAS		(ug/l or ug/Kg
Number		( Circle One )	Number		( Circle One )
			83-32-9	Acenaphthene	l 10.0 U
		10011	51-28-5	2,4-Dinitrophenol	50.0 U
108-95-2	Phenol	10.0 U	100-02-7	4-Nitrophenol	50.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U	•	Dibenzofuran	10.0 U
95-57-8	2-Chlorophenol	10.0 U	132-64-9	2.4-Dinitrotoluene	10.0 U [
541-73-1	1,3-Dichlorobenzene	10.0 U	121-14-2	, ,	10.0 U
106-46-7	1,4-Dichlorobenzene	10.0 U	606-20-2	2,6-Dinitrotoluene	10.0 U
100-51-6	Benzyl Alcohol	10.0 U	84-66-2	Diethylphthalate	10.0 U
95-50-1	1,2-Dichlorobenzene	10.0 U	7005-72-3	4-Chlorophenyl-phenylether	10.0 U
95-48-7	2-Methylphenol	10.0 U	86-73-7	Fluorene	'
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U	100-01-6	4-Nitroaniline	50.0 U
106-44-5	4-Methylphenol	10.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U	86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
67-72-1	Hexachloroethane	10.0 U	101-55-3	4-Bromophenyl-phenylether	10.0 U
98-95-3	Nitrobenzene	10.0 U	118-74-1	Hexachlorobenzene	10.0 U
78-59-1	Isophorone	10.0 U	87-86-5	Pentachlorophenol	50.0 U
88-75-5	2-Nitrophenol	10.0 U	85-01-8	Phenanthrene	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U	120-12-7	Anthracene	10.0 U
65-85-0	Benzoic Acid	50.0 U	84-74-2	Di-n-Butylphthalate	4.0 J
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U	206-44-0	Fluoranthene	10.0 U
120-83-2	2,4-Dichlorophenol	10.0 U	129-00-0	Pyrene	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U	85-68-7	Butylbenzylphthalate	10.0 U
91-20-3	Naphthalene	10.0 U	91-94-1	3,3'-Dichlorobenzidine	20.0 U
106-47-8	4-Chloroaniline	10.0 U	56-55-3	Benzo(a)Anthracene	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	10.0 U
1 59-50-7	4-Chloro-3-Methylphenol	10.0 U	218-01-9	Chrysene	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U	117-84-0	Di-n-Octyl Phthalate	10.0 U
77-47-4	Hexachlorocyclopentadiene	10.0 U	205-99-2	Benzo(b)Fluoranthene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U	207-08-9	Benzo(k)Fluoranthene	10.0 U
95-95-4	2,4,5-Trichtorophenol	50.0 U	50-32-8	Benzo(a)Pyrene	10.0 U
91-58-7	2-Chloronaphthalene	10.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
88-74-4	2-Nitroaniline	50.0 U	53-70-3	Dibenz(a,h)Anthracene	10.0 U
131-11-3	Dimethyl Phthalate	10.0 U	191-24-2	Benzo(g,h,i)Perylene	10.0 U
•	Acenaphthylene	10.0 U		•	
208-96-8	3-Nitroaniline	50.0 U			
99-09-2	J'NICI Odni Cine	1 30.0 0 1	(1) - Cappot	be separated from diphenylamin	e

SAMPLE NUMBER GW-3B

LABORATORY NAME : NANCO LABS.INC.

CASE NO: ENG. SCIENCE

LANCASTER LANDFILL

					Estimated
CA	\s			RT or Scar	Concentration
Number		Compound Name	Fraction	Number	(ug/l or ug/Kg)
1 3	769231	1-HEXENE 4-METHYL	VOA	596	8.0 J [
2	I		1		
3	127184	ETHENE, TETRACHLORO	BNA	70	61.0 J
4		UNKNOWN	BNA	140	58.0 J
5		UNKNOWN AMINE	BNA	187	110.0 J
6		UNKNOWN	BNA	190	70.0 J
7		UNKNOWN ALKENE	BNA	244	120.0 J
j 8		UNKNOWN CARBOXYLIC ACID	BNA	1488	2800.0 J
9		UNKNOWN	BNA	1570	230.0 J
10	İ		1		
11	ĺ		1		1
12	Ì				1
13	ĺ		1 .		l I
14	Ì				
15	İ				l
1 16	İ				<u> </u>
17	i				
18	i				
i 19	İ		1		[
I 20	i				1
21	İ				
22	i		1		
23					1
24					
25	i				
26			1	1	

## INORGANIC ANALYSIS DATA SHEET FORM I

0000005

SMPL NO.: GW-3B

Lab Name : NANCO LABORATORIES, INC.

Customer Name: Engineering Science

SOW NO. : N/A

Lab Receipt Date: 10/31/87

Lab Sample ID: 87-EW-3759

Date Reported: 12/9/87

Location ID: LANCASTER RECLAMATION

#### ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATIO	ON:	LOMX		MEDIUM	
MATRIX :	WATERX_	soi	L	SLUDGE	_OTHER

UG/L OR MG/KG DRY WEIGHT ( CIRCLE ONE )

1.	ALUMINUM	7	610.0	P		13. MAGNESIUM	53800.0 P
2.	ANTIMONY		50.0	UP N		14. MANGANESE	444.0 UP
3.	ARSENIC		4.1	UFN		15. MERCURY	0.2 U C.V.
4.	BARIUM	£	214.0	]P		16. NICKEL	25.0 UP
5.	BERYLLIUM		2.0	UP N		17. POTASSIUM	4500.0 P
6.	CADMIUM		5.0	UP		18. SELENIUM	15.0 UF N
7.	CALCIUM	117	7800.0	Р		19. SILVER	10.0 UPN
8.	CHROMIUM		94.0	UP		20. SODIUM	16600.0 P
9.	COBALT		30.0	UP		21. THALLIUM	2.0 UF
10.	COPPER		15.0	UP		22. VANADIUM	25.0 UP
11.	IRON	1!	5861.0	P		23. ZINC	163.0 PN
12.	LEAD	Į.	39.2	JFN ♣	PERCENT	SOLIDS (%)	NA
	CYANIDE		NR				
	PHENOL		NR				

FOOTNOTES: FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS: This sample was a tan, clear liquid. The sample became colorless after ICP and it yellow after furnace digestion procedures.

DISULUA SANAGER

MAR O 1 1988



GW-48\_\_

#### ORGANICS ANALYSIS DATA SHEET

( PAGE 1 )

SAMPLE NUMBER

GW-4B

Laboratory Name: NANCO LABORATORY INC.

Lab File ID No:>A3023 Sample Matrix: WATER

Data Release Authorized By: Kathlux M. Kellef

Lancaster Reclaimation

Case No: ENG. SCIENCE

QC Report No: N/A

Contract No: N/A

Date Sample Received: 10/31/87

Concentration:

Medium

(Circle One)

Date Extracted/Prepared:

11/04/87 11/04/87

Date Analyzed: Conc/Dil Factor:

pH: 9.5

Percent Moisture:

N/A

CAS Number	ug// or ug/Kg (Circle One)	CAS Number	ug/l or ug/Kg ( Circle One )
174-87-3  Chloromethane	10.0 U	79-34-5   1,1,2,2-Tetrachloroethane	5.0 U
74-83-9  Bromomethane	10.0 U	78-87-5   1,2-Dichloropropane	5.0 U
175-01-4   Vinyl Chloride	10.0 U	10061-02-6  Trans-1,3-Dichloropropene	5.0 U
75-00-3  Chloroethane	10.0 U	79-01-6   Trichloroethene	5.0 U
75-09-2  Methylene Chloride	52.4 B	124-48-1   Dibromochloromethane	5.0 U
67-64-1 Acetone	23.3 B	79-00-5   1,1,2-Trichloroethane	5.0 U
75-15-0  Carbon Disulfide	5.0 U	71-43-2   Benzene	1.7 J
75-35-4  1,1-Dichloroethene	5.0 U	10061-01-5  cis-1,3-Dichloropropene	5.0 U
75-34-3  1,1-Dichloroethane	5.0 U	110-75-8   2-Chloroethylvinylether	10.0 U
156-60-5 Trans-1,2-Dichloroethene	5.0 U	75-25-2   Bromoform	5.0 U
67-66-3  Chloroform	5.0 U	591-78-6   2-Hexanone	6.0 J
107-06-2 1,2-Dichloroethane	[ 5.0 U ]	108-10-1   4-Methyl-2-Pentanone	10.0 U
78-93-3   2-Butanone	10.0 U	127-18-4   Tetrachloroethene	5.0 U
71-55-6  1,1,1-Trichloroethane	[ 5.0 U	108-88-3   Toluene	5.0 U
56-23-5  Carbon Tetrachloride	5.0 U	108-90-7   Chlorobenzene	5.0 U
108-05-4 Vinyl Acetate	10.0 U	100-41-4   Ethylbenzene	5.0 U
75-27-4  Bromodichloromethane	5.0 U	100-42-5   Styrene	5.0 U
		Total Xylenes	5.0 U

### Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

### VALUE

limit, report the value.

U

Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U(e.g.10U based on necessary concentration dilution actions. (This is not This flag is used when the analyte is found in the blank as well necessarily the instrument detection limit.) The footnote should as a sample. It indicates possible/probable blank contamination read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J

Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds and such description attached to the data summary report. where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

If the result is a value greater than or equal to the detection. This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

В

and warns the data user to take appropriate action.

## ORGANIC ANALYSIS DATA SHEET ( PAGE 2 )

LABORATORY NAME: NANCO LABS. INC.

CASE NO: ENG. SCIENCE Lancaster Reclaimation

SAMPLE NO. GW-4B

## SEMIVOLATILE COMPOUNDS

Concentration: Low Date Extracted/Prepared: 11 Date Analyzed: 12/01/87				GPC Cleanup: Yes NoX_ Separatory Funnel Extraction: YesX_ Continuous Liquid - Liquid Extraction: Yes_		
CAS Number	Conc/Dil Factor: Percent Moisture: N/A	vg/V or ug/Kg	CAS Number		ug/l or ug/Kg (Circle One )	
		]	83-32-9	Acenaphthene	10.0 U	
108-95-2	Phenol	10.0 U	51-28-5	2,4-Dinitrophenol	50.0 U	
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U	100-02-7	4-Nitrophenol	1 50.0 U I	
95-57-8	2-Chlorophenol	10.0 U	132-64-9	Dibenzofuran	10.0 U	
541-73-1	1,3-Dichlorobenzene	10.0 U	121-14-2	2,4-Dinitrotoluene	10.0 U	
106-46-7	1,4-Dichlorobenzene	10.0 U	606-20-2	2,6-Dinitrotoluene	10.0 U j	
100-51-6	Benzyl Alcohol	10.0 U	84-66-2	Diethylphthalate	10.0 U	
95-50-1	1,2-Dichlorobenzene	i 10.0 u i	7005-72-3	4-Chlorophenyl-phenylether	10.0 U	
95-48-7	2-Methylphenol	i 10.0 u i	86-73-7	Fluorene	10.0 U	
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U	100-01-6	4-Nitroaniline	50.0 U	
106-44-5	4-Methylphenol	10.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U	
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U	86-30-6	N-Nitrosodiphenylamine (1)	10.0 U	
67-72-1	Hexachloroethane	10.0 U	101-55-3	4-Bromophenyl-phenylether	10.0 U	
98-95-3	Nitrobenzene	10.0 U	118-74-1	Hexachlorobenzene	10.0 U	
78-59-1	Isophorone	10.0 U	87-86-5	Pentachlorophenol	50.0 U	
88-75-5	2-Nitrophenol	j 10.0 U j	85-01-8	Phenanthrene	10.0 U	
105-67-9	2,4-Dimethylphenol	10.0 U	120-12-7	Anthracene	10.0 U	
65-85-0	Benzoic Acid	50.0 U	84-74-2	Di-n-Butylphthalate	15.4   .	
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U	206-44-0	Fluoranthene	10.0 U	
120-83-2	2,4-Dichlorophenol	10.0 U	129-00-0	Pyrene	10.0 U	
120-82-1	1,2,4-Trichlorobenzene	10.0 U	85-68-7	Butylbenzylphthalate	10.0 U	
91-20-3	Naphthalene	10.0 U	91-94-1	3,3'-Dichlorobenzidine	20.0 U	
106-47-8	4-Chloroaniline	10.0 U	56-55-3	Benzo(a)Anthracene	10.0 U	
87-68-3	Hexachlorobutadiene	10.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	10.0 U	
59-50-7	4-Chloro-3-Methylphenol	10.0 U	218-01-9	Chrysene	10.0 U	
91-57-6	2-Methylnaphthalene	10.0 U	117-84-0	Di-n-Octyl Phthalate	10.0 U	
77-47-4	Hexachlorocyclopentadiene	10.0 U	205-99-2	Benzo(b)Fluoranthene	10.0 U	
88-06-2	2,4,6-Trichlorophenol	10.0 U	207-08-9	Benzo(k)Fluoranthene	10.0 U	
95-95-4	2,4,5-Trichlorophenol	50.0 U	50-32-8	Benzo(a)Pyrene	10.0 U	
91-58-7	2-Chloronaphthalene	10.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U	
88-74-4	2-Nitroaniline	50.0 U	53-70-3	Dibenz(a,h)Anthracene	10.0 U	
131-11-3	Dimethyl Phthalate	10.0 U	191-24-2	Benzo(g,h,i)Perylene	10.0 U	
208-96-8	Acenaphthylene	10.0 U	1	1		
99-09-2	3-Nitroaniline	50.0 U				
			(1) - Cannot	be separated from diphenylamine	•	

SAMPLE NUMBER GW-4B

LABORATORY NAME :NANCO LABS.INC.

CASE NO: ENG. SCIENCE Lancaster Reclaimation

	,	340			RT or Scar	Estimated Concentration
		CAS Number	Compound Name	Fraction	Number	(ug/V or ug/Kg)
	1		NONE FOUND	VOA		
1	2			l		
	3	127184	ETHENE	BNA	68	47.0 J
1	4		UNKNOWN	BNA	119	10.0 』
-	5	505180	PYRIDINE, 2,3,4,5-TETRAHYDRO	BNA	138	45.0 J
1	6		UNKNOWN ALKENE	BNA	186	11.0 J
1	7		UNKNOWN	BNA	189	40.0 J
ĺ	8		UNKNOWN	BNA	193	9.0 J
1	9	930687	2-CYCLOHEXEN-1-ONE	BNA	242	103.0 J
İ	10		UNKNOWN	BNA	244	11.0 J
ĺ	11		UNKNOWN	BNA	1477	17.0 J
ĺ	12		UNKNOWN	BNA	1566	84.0 J
i	13		1	1		
İ	14		1	1		1
i	15					1
i	16		1	1		1
i	17				1	1
i	18				1	
i	19		· 	1		
i	20				1	1
i	21					
i	22			1		
i	23			1		
1	24			į	1	
j	25		Ì	İ	1	1
i	26			İ	1	
- 1			1	•		

## INORGANIC ANALYSIS DATA SHEET

FORM I SMPL NO.: GW-4B

Lab Name : NANCO LABORATORIES, INC.

Customer Name: Engineering Science

SOW NO. : N/A

Lab Receipt Date: 10/31/87

Lab Sample ID: 87-EW-3761

Date Reported: 12/9/87

Location ID: LANCASTER RECLAMATION

ELEMENTS IDENTIFIED AND MEASURED

1.0 AAM LOW \_\_\_X\_\_\_ CONCENTRATION : MEDIUM \_\_\_\_\_ MATRIX: WATER \_\_X\_\_ SOIL \_\_\_\_ SLUDGE \_\_\_\_OTHER \_\_\_\_

UG/L OR MG/KG DRY WEIGHT ( CIRCLE ONE )

1.	ALUMINUM	4960.0	Р	13.	MAGNESIUM	21400.0	Р
2.	ANTIMONY	50.0	UP N	14.	MANGANESE	233.0	Р
3.	ARSENIC	19.3	FΝ	15.	MERCURY	0.2	u c.v.
4.	BARIUM	327.0	P	16.	NICKEL	[ 31.0	] P
5.	BERYLLIUM	2.0	UPN	17.	POTASSIUM	12700.0	Р
6.	CADMIUM	5.0	UP	18.	SELENIUM	3.0	UF N
7.	CALCIUM	56300.0	P	19.	SILVER	10.0	UP <b>()</b>
8.	CHROMIUM	18.0	P	20.	SODIUM	45400.0	Р
9.	COBALT	30.0	UP	21.	THALLIUM	2.0	UF
10.	COPPER	15.0	UP	22.	VANADIUM	25.0	Р
11.	IRON	9738.0	P	23.	ZINC	47.0	PN
12.	LEAD	19.3	SF Not	PERCENT SOLI	OS (%)	NA	
	CYANIDE	NR					
	PHENOL	NR					

FOOTNOTES: FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS: This sample was an opaque, brown liquid. The sample became colorless after both ICP and furnace digestion procedures.

LAB MANAGER



GW-5A

#### ORGANICS ANALYSIS DATA SHEET

( PAGE 1 )

SAMPLE NUMBER

GW-5A

Laboratory Name: NANCO LABORATORY INC.

Lab File ID No:>A3031

Sample Matrix: WATER Data Release Authorized By: Kathlix M. Killef QC Report No: N/A Contract No: N/A

Lancaster Reclaimation

Case No: ENG. SCIENCE

Date Sample Received: 10/31/87

OLATILE COMPOUNDS

Concentration:

100

(Circle One)

Date Extracted/Prepared

11/05/87 11/05/87

Medium

Date Analyzed:

pH: 8.5

Conc/Dil Factor: Percent Moisture:

N/A

		24.0		(in the page 1) of the
CAS	(ug/) or ug/Kg	CAS		ug/l or ug/Kg
Number	( Circle One )	Numbe	r	( Circle One )
74-87-3  Chloromethane	1000.0 U	79-34-5	1,1,2,2-Tetrachloroethane	500.0 U
74-83-9  Bromomethane	1000.0 U	78-87-5	1,2-Dichloropropane	500.0 U
75-01-4  Vinyl Chloride	1000.0 U	10061-02-6	Trans-1,3-Dichloropropene	500.0 U
75-00-3  Chloroethane	1 1000.0 U	79-01-6	Trichloroethene	5019.0
75-09-2  Methylene Chloride	985.5 в	124-48-1	Dibromochloromethane	500.0 U
67-64-1  Acetone	2500.0 B	79-00-5	1,1,2-Trichloroethane	500.0 U
75-15-0   Carbon Disulfide	500.0 U	71-43-2	Benzene	5250.8
75-35-4  1,1-Dichloroethene	5059.7	10061-01-5	cis-1,3-Dichloropropene	500.0 U
75-34-3  1,1-Dichloroethane	500.0 U	110-75-8	2-Chloroethylvinylether	1000.0 U
156-60-5 Trans-1,2-Dichloroethene	500.0 U	75-25-2	Bromoform	500.0 U
67-66-3  Chloroform	500.0 U	591-78-6	2-Hexanone	100 <b>0.</b> 0 U
107-06-2 1,2-Dichloroethane	500.0 U	108-10-1	4-Methyl-2-Pentanone	1000.0 U
78-93-3  2-Butanone	1000.0 U	127-18-4	Tetrachloroethene	500.0 U
71-55-6  1,1,1-Trichloroethane	500.0 U	108-88-3	Toluene	5206.5
56-23-5  Carbon Tetrachloride	500.0 U	108-90-7	Chlorobenzene	5273.7
108-05-4 Vinyl Acetate	1000.0 U	100-41-4	Ethylbenzene	500.0 U
75-27-4  Bromodichloromethane	500.0 U	100-42-5	Styrene	500.0 U
		ĺ	Total Xylenes	500.0 U
<u>.</u>				

## Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

#### VALUE

If the result is a value greater than or equal to the detection. This flag applies to pesticide parameters where the identification limit, report the value.

11

Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U(e.g.10U based on necessary concentration dilution actions. (This is not This flag is used when the analyte is found in the blank as well necessarily the instrument detection limit.) The footnote should as a sample. It indicates possible/probable blank contamination read U-Compound was analyzed for but not detected. The number is and warns the data user to take appropriate action. the minimum attainable detection limit for the sample.

J.

Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds and such description attached to the data summary report. where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

В

# ORGANIC ANALYSIS DATA SHEET ( PAGE 2 )

LABORATORY NAME: NANCO LABS. INC.

CASE NO: ENG. SCIENCE Lancaster Reclaimation

SAMPLE NO. GW-5A

## SEMIVOLATILE COMPOUNDS

CAS Number	Concentration: Low Date Extracted/Prepared: 1 Date Analyzed: 12/01/87 Conc/Dil Factor: Percent Moisture: N/A		(Circle One)  CAS Number	GPC Cleanup: Yes Separatory Funnel Extra Continuous Liquid - Lia	action: Yes_X_
   108-95-2   111-44-4	Phenol   bis(-2-Chloroethyl)Ether		83-32-9   51-28-5   100-02-7   132-64-9	Acenaphthene   2,4-Dinitrophenol   4-Nitrophenol   Dibenzofuran	10.0 U     50.0 U     50.0 U     10.0 U

			83-32-9	Acenaphthene	10.0 U
108-95-2	Phenol	17.0	51-28-5	2,4-Dinitrophenol	50.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U	100-02-7	4-Nitrophenol	50.0 U
95-57-8	2-Chlorophenol	30.4	132-64-9	Dibenzofuran	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U	121-14-2	2,4-Dinitrotoluene	10.0 U
106-46-7	1,4-Dichlorobenzene	10.0 U	606-20-2	2,6-Dinitrotoluene	10.0 U
100-51-6	Benzyl Alcohol	10.0 U	84-66-2	Diethylphthalate	10.0 U
95-50-1	1,2-Dichlorobenzene	10.0 U	7005-72-3	4-Chlorophenyl-phenylether	10.0 U
95-48-7	2-Methylphenol	10.0 U	86-73-7	Fluorene	10.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U	100-01-6	4-Nitroaniline	50.0 U
106-44-5	4-Methylphenol	10.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U	86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
67-72-1	Hexachloroethane	10.0 U	101-55-3	4-Bromophenyl-phenylether	10.0 U
98-95-3	Nitrobenzene	10.0 U	118-74-1	Hexachlorobenzene	10.0 U
78-59-1	Isophorone	10.0 U	87-86-5	Pentachlorophenol	50.0 L
88-75-5	2-Nitrophenol	10.0 U	85-01-8	Phenanthrene	10.0 L
105-67-9	2,4-Dimethylphenol	10.0 U	120-12-7	Anthracene	10.0 L
65-85-0	Benzoic Acid	50.0 U	84-74-2	Di-n-Butylphthalate	1.9 J
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U	206-44-0	Fluoranthene	10.0 L
120-83-2	2,4-Dichlorophenol	10.0 U	129-00-0	Pyrene	10.0 L
120-82-1	1,2,4-Trichlorobenzene	10.0 U	85-68-7	Butylbenzylphthalate	10.0 L
91-20-3	Naphthalene	10.0 U	91-94-1	3,3'-Dichlorobenzidine	20.0 L
106-47-8	4-Chloroaniline	10.0 U	56-55-3	Benzo(a)Anthracene	10.0 (
87-68-3	Hexachlorobutadiene	10.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	107.9
59-50-7	4-Chloro-3-Methylphenol	14.4	218-01-9	Chrysene	10,0 t
91-57-6	2-Methylnaphthalene	10.0 U	117-84-0	Di-n-Octyl Phthalate	10.0 L
77-47-4	Hexachlorocyclopentadiene	10.0 U	205-99-2	Benzo(b)Fluoranthene	10.0 (
88-06-2	2,4,6-Trichlorophenol	10.0 U	207-08-9	Benzo(k)Fluoranthene	10.0 (
95-95-4	2,4,5-Trichlorophenol	50.0 U	50-32-8	Benzo(a)Pyrene	10.0 (
91-58-7	2-Chloronaphthalene	10.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 i
88-74-4	2-Nitroaniline	50.0 U	53-70-3	Dibenz(a,h)Anthracene	10.0 (
131-11-3	Dimethyl Phthalate	10.0 U	191-24-2	Benzo(g,h,i)Perylene	10.0
208-96-8	Acenaphthylene	10.0 U	1	1	
99-09-2	3-Nitroaniline	50.0 U			

(1) - Cannot be separated from diphenylamine

SAMPLE NUMBER GW-5A

LABORATORY NAME :NANCO LABS.INC.

CASE NO: ENG. SCIENCE Lancaster Reclaimation

		CAS Number	Compound Name	Fraction	RT or Scar	Estimated Concentration (ug/V or ug/Kg)
	1		UNKNOWN	VOA	12	830.0 J
İ	2		UNKNOWN	VOA	16	810.0 J
İ	3					
İ	4	127184	ETHENE, TETRACHLORO	BNA	69	3.0 J
ĺ	5	505180	PYRIDINE 2,3,4,5 TETRAHYDRO	BNA	139	2.0 J
ĺ	6		UNKNOWN ALCOHOL	BNA	180	52.0 J
İ	7		UNKNOWN	BNA	185	25.0 J
İ	8		UNKNOWN KETONE	BNA	190	14.0 J
ĺ	9	930687	2-CYCLOHEXEN-1-ONE	BNA	241	32.0 J
ĺ	10	95578	PHENOL, 2-CHLORO	BNA	318	3.0 J
ĺ	11		ISOMER OF PHENOL CHLORO METHYL	BNA	636	10.0 J
	12		1			1
1	13		1	•		1
	14			1	•	
1	15			1		
	16		1	1		
1	17			1	!	1
١	18		1	1	1	1
	19			1		1
1	20		1	1		
1	21			1		
	22		1			
ļ	23			1		
ļ	24		1			
İ	25					
-	26		1	l		

## INORGANIC ANALYSIS DATA SHEET FORM I

SMPL NO.: GW-5A

Lab Name : NANCO LABORATORIES, INC.

Customer Name: Engineering Science

SOW NO. : N/A

Lab Receipt Date: 10/31/87

Lab Sample ID: 87-EW-3762

Date Reported: 12/9/8

Location ID: LANCASTER RECLAMATION

ELEMENTS IDENTIFIED AND MEASURED

MEDIUM \_\_ CONCENTRATION:

100 1 1988 100 1 1988 SLUDGE \_\_\_\_OTHER \_\_\_\_ WATER \_\_X\_\_ SOIL \_\_\_\_ MATRIX :

UG/L OR MG/KG DRY WEIGHT ( CIRCLE ONE )

1.	ALUMINUM	13660.0 P	13. MAGNESIUM	96800.0 P
2.	ANTIMONY	113.0 P N	14. MANGANESE	1915.0 P
3.	ARSENIC	[ 9.4]FN	15. MERCURY	0.2 U C.V.
4.	BARIUM	[ 159.0 ] P.H MM	16. NICKEL	52.0 P
5.	BERYLLIUM	2.0 UPN	17. POTASSIUM	8200.0 P
6.	CADMIUM	5.0 UP	18. SELENIUM	15.0 UFN
7.	CALCIUM	200600.0 P	19. SILVER	10.0 UP N
8.	CHROMIUM	73.0 P	20. SODIUM	27000.0 P
9.	COBALT	[ 43.0 ]P	21. THALLIUM	2.0 UF
10.	COPPER	122.0 P	22. VANADIUM	25.0 UP
11.	IRON	54300.0 P	23. ZINC	684.0 PN
12.	LEAD	61.6 SF NA	PERCENT SOLIDS (%)	NA
	CYANIDE	NR		
	PHENOL	NR		

FOOTNOTES: FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS: This sample was an opaque-tan liquid. The sample became colorless after both ICP and furnace digestion procedures.

LAB MANAGER



88-EW-0408 GW-5A.14 Resampling (VOA ONLY)

#### ORGANICS ANALYSIS DATA SHEET ( PAGE 1 )

SAMPLE NUMBER

LANDCASTER REC.

Laboratory Name: NANCO LABORATORY INC.

Lab File ID No:>H1209 Sample Matrix: WATER

Case No: ENGINEERING SCIENCE

GW-5A.14

QC Report No: N/A Contract No: N/A

Date Sample Received: 06/02/88

Data Release Authorized By: PS (Sursol) VOLATILE COMPOUNDS

Medium

(Circle One)

Date Extracted/Prepared: 06/12/88

Date Analyzed:06/12/88

Conc/Dil Factor:

:Hq 8.04

Percent Moisture: N/A

CAS	(ug/l) or ug/Kg	CAS	(ug/l) or ug/Kg
Number	( Circle One )	Number	(Circle One )
74-87-3  Chloromethane	10.0 U	79-34-5   1,1,2,2-Tetrachloroethane	5.0 U
74-83-9  Bromomethane	10.0 U	78-87-5   1,2-Dichloropropane	5.0 U
75-01-4   Vinyl Chloride	10.0 U	10061-02-6  Trans-1,3-Dichloropropene	5.0 U
75-00-3  Chloroethane	10.0 U	79-01-6   Trichloroethene	5.0 U
75-09-2   Methylene Chloride	4.2 JB	124-48-1   Dibromochloromethane	5.0 U
67-64-1   Acetone	14.0 B	79-00-5   1,1,2-Trichloroethane	5.0 U
75-15-0  Carbon Disulfide	5.0 U	71-43-2   Benzene	5.0 U
75-35-4  1,1-Dichloroethene	5.0 U	10061-01-5  cis-1,3-Dichloropropene	5.0 U
75-34-3  1,1-Dichloroethane	5.0 U	110-75-8   2-Chloroethylvinylether	10.0 U
156-60-5 Trans-1,2-Dichloroethene	5.0 U	75-25-2   Bromoform	5.0 U
67-66-3  Chloroform	5.0 U	591-78-6   2-Hexanone	10.0 U
107-06-2 1,2-Dichloroethane	5.0 U	108-10-1   4-Methyl-2-Pentanone	10.0 U
78-93-3   2-Butanone	10.0 U	127-18-4   Tetrachloroethene	5.0 U
71-55-6  1,1,1-Trichloroethane	5.0 U	108-88-3   Toluene	5.0 U
56-23-5   Carbon Tetrachloride	5.0 U	108-90-7   Chlorobenzene	5.0 U
108-05-4 Vinyl Acetate	10.0 U	100-41-4   Ethylbenzene	5.0 U
75-27-4  Bromodichloromethane	5.0 U	100-42-5   Styrene	5.0 U
		Total Xylenes	5.0 U

#### Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE

limit, report the value.

If the result is a value greater than or equal to the detection. This flag applies to pesticide parameters where the identification

J

Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U(e.g.10U based on necessary concentration dilution actions. (This is not This flag is used when the analyte is found in the blank as well read U-Compound was analyzed for but not detected. The number is and warns the data user to take appropriate action. the minimum attainable detection limit for the sample.

Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds and such description attached to the data summary report. where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

В

necessarily the instrument detection limit.) The footnote should as a sample. It indicates possible/probable blank contamination

# ORGANICS ANALYSIS DATA SHEET ( PAGE 4 )

SAMPLE NUMBER

LABORATORY NAME :NANCO LABS.INC.
CASE NO: ENGINEERING SCIENCE

LANDCASTER REC.

P612188

GW-5A.14

		CAS		(	OT as Sam	Estimated
		Number	Company Name	Fanatian		n Concentration
		wallbei.	Compound Name	rraction	Nulliber	(ug/l or ug/Kg)
1	1		NONE FOUND	VOA		
1	2			1		
- 1	3			1		
1	4				1	
	5			1		
ĺ	6			1		1
	7			1	!	
	8					
	9					
	10		1			
1	11				1	
	12			1		
1	13					
	14			1		1
1	15					1
1	16			1		1
	17					1
l	18					
1	19			1		
1	20			1		1
-	21			1		
-	22			1		
l	23		1		[	
1	24		1	1		
	25		<b>!</b>			
	26			***************************************		



TRIP BLANK

#### ORGANICS ANALYSIS DATA SHEET

( PAGE 1 )

SAMPLE NUMBER TRIP BLANK

Lancaster Reclaimation

Case No: ENG. SCIENCE

QC Report No: N/A

Contract No: N/A

Date Sample Received: 10/31/87

Data Release Authorized By: Kithlick M. Kli DLAMIE COMPOUNDS

Concentration:

Medium

(Circle One)

Date Extracted/Prepared:

11/03/87

Date Analyzed:

Laboratory Name: NANCO LABORATORY INC.

Lab File ID No:>A3007

Sample Matrix: WATER

11/03/87

pH: 6.3

Conc/Dil Factor:

Percent Moisture:

N/A

0.0 U   0.0 U   0.0 U   0.0 U	79-34-5     78-87-5     10061-02-6    79-01-6	1,1,2,2-Tetrachloroethane 1,2-Dichloropropane Trans-1,3-Dichloropropene	5.0 U     5.0 U
0.0 U   0.0 U   0.0 U	78-87-5   10061-02-6	1,2-Dichloropropane	j 5.0 U
0.0 U   0.0 U	10061-02-6		
o.o u	, ,	Trans-1,3-Dichloropropene	
	79-01-6		5.0 U
0 4 p 1		Trichloroethene	5.0 U
7.0 D	124-48-1	Dibromochloromethane	5.0 U
2.8	79-00-5	1,1,2-Trichloroethane	5.0 U
5.0 U	71-43-2	Benzene	5.0 U
5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
5.0 U	75-25-2	Bromoform	5.0 U
5.0 U	591-78-6	2-Hexanone	10.0 U
5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
0.0 U ]	127-18-4	Tetrachloroethene	5.0 U
5.0 U	108-88-3	Toluene	5.0 U
5.0 U	108-90-7	Chlorobenzene	5.0 U
o.o u j	100-41-4	Ethylbenzene	5.0 U
5.0 U	100-42-5	Styrene	5.0 U
	1	Total Xylenes	5.0 U
	5.0 U   5.0 U   5.0 U   5.0 U   5.0 U   0.0 U   5.0 U   5.0 U	2.8   79-00-5 5.0 U   71-43-2 5.0 U   10061-01-5 5.0 U   110-75-8 5.0 U   75-25-2 5.0 U   591-78-6 5.0 U   108-10-1 0.0 U   127-18-4 5.0 U   108-88-3 5.0 U   108-90-7 0.0 U   100-41-4	

#### Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

### VALUE

If the result is a value greater than or equal to the detection. This flag applies to pesticide parameters where the identification limit, report the value.

Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U(e.g.10U based on necessary concentration dilution actions. (This is not This flag is used when the analyte is found in the blank as well

the minimum attainable detection limit for the sample.

Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds and such description attached to the data summary report. where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

В

necessarily the instrument detection limit.) The footnote should as a sample. It indicates possible/probable blank contamination read U-Compound was analyzed for but not detected. The number is and warns the data user to take appropriate action.

SAMPLE NUMBER
TRIP BLANK

LABORATORY NAME :NANCO LABS.INC. CASE NO: ENG. SCIENCE Lancaster Reclaimation

	AS umber	Compound Name	Fraction	RT or Scar	Estimated Concentration (ug// or ug/Kg)
1 1	NON	IE FOUND	VOA		
2	į		, 	i	į
3	i		i		İ
4			İ		
5	į		1		ĺ
6	ĺ		1		
7	1		1		
8	-		1		
9			1		
10	l				
11	i.				
12					
13	•				
14			ļ	<u> </u>	
15			1		
16	ļ		!		
17	!		1		
18	ļ		1		
19	l l		1		] 
20			1		
21			1	1	
22	1		1	1	 
23	ĺ		l I	1	; !
24	 		1	1	! !
26	1		1	1	 
1 20	1		l		



SAMPLE DATA PACKAGE

TRIP BLank

## CREANICS ANALYSIS DATA SHEET

( PAGE 1 )

10/21/83

SAMPLE WUMBER

LANDCASTER REC.

Case No: ENGINEERING SCIENCE

TRIP BLANK

Laboratory Name: NANCO LABORATORY INC.

Lab File ID No:>H1198

Sample Matrix: WATER Data Release Authorized By: Polykenoch

GC Report No: N/A

Contract No: N/A

Date Sample Received: 06/02/88

VOLATILE COMPOUNDS

Medium

Concentration:

(Circle One)

Date Extracted/Prepared: 06/11/88

Date Analyzed:06/11/88

Conc/Dil Factor:

7.87 pH:

Percent Moisture:

CAS	ug/l or ug/Kg ( Circle One )	CAS Number	( Circle One )
Number	( circle one )	nuinei	
74-87-3  Chloromethane	10.0 U	79-34-5   1,1,2,2-Tetrachloroethane	5.0 U
74.83.9  Bromomethane	10.0 U	78-87-5   1,2-Dichloropropane	5.0 U
75-01-4  Vinyl Chloride	10.0 U	10061-02-6  Trans-1,3-Dichloropropene	5.
75-00-3  Chloroethane	10.0 U	79-01-6   Trichloroethene	[ 5.0 U ]
75-09-2  Methylene Chloride	7.0 B	124-48-1   Dibromochloromethane	5.0 U
67-64-1   Acetone	10.0 B	79-00-5   1,1,2-Trichloroethane	5.0 U
75-15-0  Carbon Disulfide	5.0 U	71-43-2   Benzene	5.0 U
75-35-4  1.1-Dichloroethene	5.0 U	10061-01-5  cis-1,3-Dichloropropene	5.0 U
75-34-3  1,1-Dichloroethane	5.0 U	110-75-8   2-Chloroethylvinylether	10.0 U
156-60-5 Trans-1,2-Dichloroethene	5.0 U j	75-25-2   Bromoform	5.0 U
67-66-3  Chloroform	j 5.0 u j	591-78-6   2-Hexanone	10.0 U
107-06-2 1,2-Dichloroethane	5.0 U	108-10-1   4-Methyl-2-Pentanone	10.0 0
78-93-3  2-Butanone	j 5.04 j	127-18-4   Tetrachloroethene	5.0 U
71-55-6   1,1,1-Trichloroethane	j 5.0 U j	108-88-3   Toluene	5.0 U
56-23-5  Carbon Tetrachloride	5.0 U	108-90-7   Chlorobenzene	5.0 U
108-05-4 Vinyl Acetate	10.0 U	100-41-4   Ethylbenzene	5.0`u
75-27-4  Bromodichloromethane	5.0 U	100-42-5   Styrene	5.0 U
1		.   Total Xylenes	5.0 U

## Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE

If the result is a value greater than or equal to the detection. This flag applies to pesticide parameters where the identification limit, report the value.

Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U(e.g.10U

read U-Compound was analyzed for but not detected. The number is and warns the data user to take appropriate action.

the minimum attainable detection limit for the sample.

Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds and such description attached to the data summary report. where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

based on necessary concentration dilution actions. (This is not This flag is used when the analyte is found in the blank as well necessarily the instrument detection limit.) The footnote should as a sample. It indicates possible/probable blank contamination

OTHER



GW-4A

#### ORGANICS ANALYSIS DATA SHEET

( PAGE 1 )

SAMPLE NUMBER

GW-4A

Laboratory Name: NANCO LABORATORY INC.

Lab File ID No:>A3006

Sample Matrix: WATER

Kathleex M. Kelly Data Release Authorized By:

QC Report No: N/A Contract No: N/A

Date Sample Received: 10/31/87

Concentration: Low

Medium

(Circle One)

Date Extracted/Prepared:

11/03/87 11/03/87

Lancaster Reclaimation

Case No: ENG. SCIENCE

Date Analyzed: Conc/Dil Factor:

pH: 6.6

Percent Moisture:

N/A

AS umber	ug/l or ug/Kg (Circle One )	CAS Number	ug/l) or ug/Kg ( Circle One )
17/ 07 7 Johiananahana	1 10.0 U	79-34-5   1,1,2,2-Tetrachloroethane	5.0 U
174-87-3   Chloromethane	1 10.0 U	78-87-5   1,2-Dichloropropane	5.0 U
4-83-9   Bromomethane			5.0 U
1/5-01-4  Vinyl Chloride	10.0 U	10061-02-6  Trans-1,3-Dichloropropene	
75-00-3  Chloroethane	10.0 U	79-01-6   Trichloroethene	5.0 U
75-09-2   Methylene Chloride	23.9 B	124-48-1   Dibromochloromethane	5.0 U
	18.9	79-00-5   1,1,2-Trichloroethane	5.0 U
75-15-0  Carbon Disulfide	5.0 U	71-43-2   Benzene	5.0 U
75-35-4  1,1-Dichloroethene	5.0 U	10061-01-5  cis-1,3-Dichloropropene	5.0 U
5-34-3  1,1-Dichloroethane	5.0 U	110-75-8   2-Chloroethylvinylether	10.0 U
156-60-5 Trans-1,2-Dichloroethene	5.0 U	75-25-2   Bromoform	5.0 U
67-66-3  Chloroform	6.3	591-78-6   2-Hexanone	10.0 U
07-06-2 1,2-Dichloroethane	5.0 U	108-10-1   4-Methyl-2-Pentanone	10.0 U
	10.0 U	127-18-4   Tetrachloroethene	5.0 U [
71-55-6  1,1,1-Trichloroethane	5.0 U	108-88-3   Toluene	5.0 U
6-23-5  Carbon Tetrachloride	5.0 U	108-90-7   Chlorobenzene	5.0 U
108-05-4 Vinyl Acetate	10.0 U	100-41-4   Ethylbenzene	5.0 U
75-27-4  Bromodichloromethane	5.0 U	100-42-5   Styrene	5.0 U
		Total Xylenes	5.0 U

### Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

## VALUE

imit, report the value.

U

Indicates compound was analyzed for but not detected. Report re minimum detection limit for the sample with the U(e.g.10U ased on necessary concentration dilution actions. (This is not This flag is used when the analyte is found in the blank as well ead U-Compound was analyzed for but not detected. The number is and warns the data user to take appropriate action. ne minimum attainable detection limit for the sample.

Indicates an estimated value. This flag is used either when stimating a concentration for tentatively identified compounds and such description attached to the data summary report. where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification riteria but the result is less than the specified detection limit ut greater than zero (e.g. 10J).

·f the result is a value greater than or equal to the detection. This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

В

necessarily the instrument detection limit.) The footnote should as a sample. It indicates possible/probable blank contamination

SAMPLE NUMBER GW-4A

LABORATORY NAME :NANCO LABS.INC.

CASE NO: ENG. SCIENCE

LANCASTER LANDFILL

		CAS			RT or Sca	Estimated n Concentration
		Number	Compound Name	Fraction		(ug/l or ug/Kg)
1	1	• • • •	NONE FOUND	VOA		
1	2		1	1	1	
-	3		1		!	
1	4		1	1	1	
1	5		1		I	
1	6		1			!
1	7		I			!
1	8					
	9		1			
	10		1	!		
ı	11		1		!	
	12		1		Į.	
l	13			!		
	14		1		<u> </u>	
1	15			!	1	
	16			!		1
1	17			1		
1	18				ŀ	1
	19		!		ļ	1
	20		!		1	1
1	21		!	1		1
ļ	22		!	1	 	1
ļ	23		!	1	1	1
-	24		!		1	[
1	25		!	1	1	]
l	26		1	1		



GW-58

FIELD BLANK

#### ORGANICS ANALYSIS DATA SHEET

( PAGE 1 )

SAMPLE NUMBER

GW-5B

Laboratory Name: NANCO LABORATORY INC.

Lab File ID No:>A3005

Sample Matrix: WATER

Data Release Authorized By: Kuthlik M Kellif

Case No: ENG. SCIENCE

QC Report No: N/A

Lancaster Reclaimation

Contract No: N/A

Date Sample Received: 10/31/87

OLATILÉ COMPOUNDS

Concentration:

Medium

(Circle One)

Date Extracted/Prepared:

11/03/87

Date Analyzed: Conc/Dil Factor: 11/03/87

pH: 6.8

Percent Moisture:

LOW

N/A

		-12	
CAS	(ug/l or ug/Kg	CAS	ug/k or ug/kg
{umber	(Circle One )	Number	( Circle One )
174-87-3  Chloromethane	10.0 U	79-34-5   1,1,2,2-Tetrachloroethane	5.0 U
74-83-9  Bromomethane	10.0 U	78-87-5   1,2-Dichloropropane	5.0 U
175-01-4   Vinyl Chloride	10.0 U	10061-02-6  Trans-1,3-Dichloropropene	5.0 U
75-00-3  Chloroethane	10.0 U	79-01-6   Trichloroethene	5.0 U
75-09-2   Methylene Chloride	24.2 B	124-48-1   Dibromochloromethane	5.0 U
57-64-1   Acetone	12.5	79-00-5   1,1,2-Trichloroethane	5.0 U
75-15-0  Carbon Disulfide	1 1.9 J	71-43-2   Benzene	5.0 U
75-35-4  1,1-Dichloroethene	j 5.0 U j	10061-01-5  cis-1,3-Dichloropropene	5.0 U
75-34-3  1,1-Dichloroethane	j 5.0 U j	110-75-8   2-Chloroethylvinylether	10.0 U
156-60-5 Trans-1,2-Dichloroethene	5.0 U	75-25-2   Bromoform	5.0 U
67-66-3  Chloroform	5.0 U j	591-78-6   2-Hexanone	10.0 U
107-06-2 1,2-Dichloroethane	์ 5.0 บ	108-10-1 4-Methyl-2-Pentanone	10.0 U
78-93-3   2-Butanone	53.5	127-18-4   Tetrachloroethene	5.0 U
71-55-6  1,1,1-Trichloroethane	j 5.0 u j	108-88-3   Toluene	5.0 U
36-23-5   Carbon Tetrachloride	5.0 U j	108-90-7   Chlorobenzene	5.0 U
108-05-4 Vinyl Acetate	1 10.0 U I	100-41-4   Ethylbenzene	5.0 U
75-27-4 Bromodichloromethane	5.0 U	100-42-5   Styrene	5.0 U
1.5 2	1	Total Xylenes	5.0 U

## Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

### VALUE

imit, report the value.

Indicates compound was analyzed for but not detected. Report he minimum detection limit for the sample with the U(e.g.10U ased on necessary concentration dilution actions. (This is not This flag is used when the analyte is found in the blank as well ead U-Compound was analyzed for but not detected. The number is and warns the data user to take appropriate action. he minimum attainable detection limit for the sample.

Indicates an estimated value. This flag is used either when stimating a concentration for tentatively identified compounds and such description attached to the data summary report. where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification riteria but the result is less than the specified detection limit ut greater than zero (e.g. 10J).

'f the result is a value greater than or equal to the detection. This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

В

necessarily the instrument detection limit.) The footnote should as a sample. It indicates possible/probable blank contamination

## ORGANICS ANALYSIS DATA SHEET ( PAGE 4 )

SAMPLE NUMBER GW-5B

LABORATORY NAME :NANCO LABS.INC.

CASE NO: ENG. SCIENCE Lancaster Reclaimation

				Estimated RT of Scan Concentration			
		CAS			RT of Scan		
		Number	Compound Name	Fraction	Number	(ug/l) or	ug/kg)
1	1		NONE FOUND	VOA			
i	2		•	İ			1
i	3		•				
i	4		· 	İ			
i	5		I				1
i	6		I	1			1
ĺ	7		ĺ				1
i	8						I
Ī	9		1				
ĺ	10						
1	11						1
-	12				<b>i</b> 1		İ
	13			1			
	14		1				
1	15				1		1
1	16		1				
1	17					İ	1
1	18						
-	19		Į.		j		1
1	20						!
١	21						
-	22		1			!	ļ
	23						1
1	24				!		
	25				!	!	į
1	26			1			1

SAMPLE NUMBER GW-5B

LABORATORY NAME : NANCO LABS.INC.

CASE NO: ENG. SCIENCE

LANCASTER LANDFILL

## Tentatively Identified Compounds

		CAS Number	Compound Name	Fraction		Estimated Concentration (ug/l or ug/Kg)
1	1		NONE FOUND	VOA		
İ	2		1	1		
1	3				!	
1	4		1	1		ļ
	5				!	ļ
1	6				!	ļ
1	7					! !
1	8				]	1
1	9			1	[	1
	10			1	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	1
	11		1	1	! ! ! !	i
	12 13		1	1	i i	i
1	14		1 1	İ	i i	İ
i	15		: 1	i	i i	1
i	16		•	İ		1
i	17			1	1	
i	18			1		!
i	19		1	1	1	!
İ	20					ļ
١	21		1	!		ļ
-	22		1	!		, <u> </u>
	23		Į.	!		İ
	24				1 1	ļ 1
1	25		1	1		1
	26		1	1	1	

## INORGANIC ANALYSIS DATA SHEET FORM I



Lab Name : NANCO LABORATORIES, INC.

Customer: Engineering Science

QC Batch: EW 3757-63

Lab Receipt Date: 10/31/87

LOCATION ID: LANCASTER RECLAMATION

DATE REPORTED: 12/9/87

#### ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW \_X \_\_\_ MEDIUM \_\_\_\_\_

MATRIX: WATER \_X \_\_ SOIL \_\_\_ SLUDGE \_\_OTHER \_\_\_\_

UG/L ØR MG/KG DRY WEIGHT ( CIRCLE ONE )

PROJECT ID	SAMPLE ID:	T.O.X.	Instrument Detection Limit
********			
GW-1A	EW-3757	. 32	5 ug/L
GW-2B	EW-3758	5U	5 ug/L
GW-3B	EW-3759	34	5 ug/L
GW-3A	EW-3760	50	5 ug/L
GW-4B	EW-3761	9	5 ug/L
GW-5A	EW-3762	6	5 ug/L
GW-5A MS	EW-3762 MS	73	5 ug/L
GW-5A MSD	EW-3762 MSD	78	5 ug/L
GW-1B	EW-3763	<b>5</b> U	5 ug/L

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS: BMRL = RESULTS ARE BELOW MINIMUM REPORTING LEVEL

ND = RESULTS ARE NOT DETECTED

Desult

LAB MANAGER

# SURFACE WATER RESULTS



SAMPLE DATA

<u>Sw-1</u>\_\_\_

#### ORGANICS ANALYSIS DATA SHEET

( PAGE 1 )

SAMPLE NUMBER

SW-1

LANCASTER REC.

Laboratory Name: NANCO LABORATORY INC.

Lab File ID No:>F0952

Sample Matrix: WATER

Data Release Authorized By: P. J. Wunsch

Case No: ENG. SCIENCE QC Report No: N/A Contract No: N/A

Date Sample Received: 09/10/87

VOLATILE COMPOUNDS

Concentration:

Medium

(Circle One)

Date Extracted/Prepared: 09/14/87

Date Analyzed:09/14/87

Conc/Dil Factor:

pH: 8.0

Percent Moisture: N/A

CAS Number	ug/l or ug/Kg (Circle One )	CAS Number	ug/l or ug/Kg (Circle One )
Number    74-87-3   Chloromethane   74-83-9   Bromomethane   75-01-4   Vinyl Chloride   75-00-3   Chloroethane   175-09-2   Methylene Chloride   67-64-1   Acetone   175-15-0   Carbon Disulfide   175-35-4   1,1-Dichloroethane   156-60-5   Trans-1,2-Dichloroethane   166-66-3   Chloroform	10.0 U     10.0 U     10.0 U     10.0 U     3.0 JB    12.0 B     5.0 U     5.0 U     5.0 U	79-34-5   1,1,2,2-Tetrachloroethane   78-87-5   1,2-Dichloropropane   10061-02-6   Trans-1,3-Dichloropropene   79-01-6   Trichloroethane   124-48-1   Dibromochloromethane   79-00-5   1,1,2-Trichloroethane   71-43-2   Benzene   10061-01-5   cis-1,3-Dichloropropene   110-75-8   2-Chloroethylvinylether   75-25-2   Bromoform   591-78-6   2-Hexanone	5.0 U     5.0 U     5.0 U     5.0 U     5.0 U     5.0 U     5.0 U     10.0 U
107-06-2 1,2-Dichloroethane 78-93-3  2-Butanone  71-55-6  1,1,1-Trichloroethane  56-23-5  Carbon Tetrachloride 108-05-4 Vinyl Acetate  75-27-4  Bromodichloromethane	5.0 U     10.0 U     5.0 U     5.0 U     10.0 U     5.0 U	108-10-1	10.0 U     10.0 U     5.0 U     5.0 U     5.0 U     5.0 U

#### Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE

If the result is a value greater than or equal to the detection. This flag applies to pesticide parameters where the identification imit, report the value.

Indicates compound was analyzed for but not detected. Report

he minimum detection limit for the sample with the U(e.g.10U ased on necessary concentration dilution actions. (This is not This flag is used when the analyte is found in the blank as well read U-Compound was analyzed for but not detected. The number is and warns the data user to take appropriate action. he minimum attainable detection limit for the sample.

Indicates an estimated value. This flag is used either when stimating a concentration for tentatively identified compounds and such description attached to the data summary report. here a 1 1 response is assumed or when the mass spectral data

has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

necessarily the instrument detection limit.) The footnote should as a sample. It indicates possible/probable blank contamination

OTHER

Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described

indicates the presence of a compound that meets the identification This flag denotes that the compound is a spike compound rriteria but the result is less than the specified detection limit and was added to the sample prior to analysis. ut greater than zero (e.g. 10J).

# ORGANIC ANALYSIS DATA SHEET ( PAGE 2 )

LABORATORY NAME: NANCO LABS. INC.
CASE NO: ENGINEERING SCIENCE
LANCASTER REC.

SAMPLE NO. SW-1

#### SEMIVOLATILE COMPOUNDS

		$\overline{}$			
	Concentration: Low	Medium	(Circle One)	GPC Cleanup: YesNo	
	Date Extracted/Prepared: 09/	14/87		Separatory Funnel Extraction	on: Yes_X_
	Date Analyzed: 09/18/87			Continuous Liquid - Liquid	Extraction: Yes
	Conc/Dil Factor:	·> 1			
	Percent Moisture:	N/A			
CAS		ug/l or ug/Kg	CAS		(ug/l) or ug/Kg
Number		(-etrcle One )	Number		(Circle One)
1		1	83-32-9	Acenaphthene	10.0 U
108-95-2	Phenol	10.0 U	51-28-5	2,4-Dinitrophenol	50.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U	100-02-7	4-Nitrophenol	50.0 U
95-57-8	2-Chlorophenol	10.0 U	132-64-9	Dibenzofuran	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U	121-14-2	2,4-Dinitrotoluene	i 10.0 u i
106-46-7	1,4-Dichlorobenzene	10.0 U	606-20-2	2,6-Dinitrotoluene	i 10.0 U i
100-51-6	Benzyl Alcohol	10.0 U	84-66-2	Diethylphthalate	10.0 U
95-50-1	1,2-Dichlorobenzene	10.0 U	7005-72-3	4-Chlorophenyl-phenylether	10.0 U
95-48-7	2-Methylphenol	10.0 U	86-73-7	Fluorene	10.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U	100-01-6	4-Nitroaniline	50.0 U
106-44-5	4-Methylphenol	10.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U	86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
67-72-1	Hexachloroethane	10.0 U	101-55-3	4-Bromophenyl-phenylether	10.0 U j
98-95-3	Nitrobenzene	10.0 U	118-74-1	Hexachlorobenzene	10.0 U
78-59-1	Isophorone	10.0 U	87-86-5	Pentachlorophenol	50.0 U
88-75-5	2-Nitrophenol	10.0 U	85-01-8	Phenanthrene	10.0 U j
105-67-9	2,4-Dimethylphenol	10.0 U	120-12-7	Anthracene	10.0 U
65-85-0	Benzoic Acid	50.0 U	84-74-2	Di-n-Butylphthalate	10.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U	206-44-0	Fluoranthene	10.0 U
120-83-2	2,4-Dichlorophenol	10.0 U	129-00-0	Pyrene	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U	85-68-7	Butylbenzylphthalate	10.0 U
91-20-3	Naphthalene	10.0 U	91-94-1	3,3'-Dichlorobenzidine	20.0 U
106-47-8	4-Chloroaniline	10.0 U	56-55-3	Benzo(a)Anthracene	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	10.0 U
59-50-7	4-Chloro-3-Methylphenol	10.0 U	218-01-9	Chrysene	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U	117-84-0	Di-n-Octyl Phthalate	10.0 U
77-47-4	Hexachlorocyclopentadiene	10.0 U	205-99-2	Benzo(b)Fluoranthene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U	207-08-9	Benzo(k)Fluoranthene	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U	50-32-8	Benzo(a)Pyrene	11.8 B
91-58-7	2-Chloronaphthalene	10.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
88-74-4	2-Nitroaniline	50.0 U	53-70-3	Dibenz(a,h)Anthracene	10.0 U
131-11-3	Dimethyl Phthalate	10.0 U	191-24-2	Benzo(g,h,i)Perylene	10.0 U
208-96-8	Acenaphthylene	10.0 U			
99-09-2	3-Nitroaniline	50.0 U			

(1) - Cannot be separated from diphenylamine

SAMPLE NUMBER

SW-1

LABORATORY NAME :NANCO LABS.INC.
CASE NO: ENGINEERING SCIENCE
LANCASTER REC.

#### Tentatively Identified Compounds

	CAS			RT or Scar	Estimated  Concentration
	Number	Compound Name	Fraction	Number	(ug/L) or ug/Kg)
1	1	NONE FOUND	VOA		
-	2	1	1		į
1	3	UNKNOWN	BNA	54	2.0 J
1	4	UNKNOWN	BNA	67	2.0 J
1	5	UNKNOWN	BNA	125	6.4 J
1	6 3522949	HEXANE,2,2,5-TRIMETHYL	BNA	234	3.0 J
1	7 75268074	ACETAALDEHYDE, Z-BUTENYLHYDRAZONE	BNA	313	3.0 J
l	8	UNKNOWN	BNA	323	2.0 J
1	9	UNKNOWN	BNA	345	2.0 J
	10	UNKNOWN	BNA	653	2.0 J
	11	UNKNOWN	BNA	748	2.0 J
	12	UNKNOWN	BNA	971	4.0 J
+	13	1	1	1	
1	14			1	
1	15				
ĺ	16				
ĺ	17	ĺ	1		ĺ
İ	18			İ	ĺ
1	19	1	l	1	1
1	20	i .	İ	1	ĺ
1	21	1	1	1	
1	22	1	1	1	
1	23	1	1	1	
1	24	1			
-	25	1	1	1	
1	26	1	1		

#### INORGANIC ANALYSIS DATA SHEET FORM I

SMPL NO.: SW-1

Lab Name : NANCO LABORATORIES, INC.

Customer Name: Engineering Science

SOW NO. : N/A

Lab Receipt Date: 09/10/87

Lab Sample ID: 87-EW-2439

Date Reported: 10/07/87

Location ID: Lancaster Rec.

#### ELEMENTS IDENTIFIED AND MEASURED

CONCENTRAT	ION :	romx	MEDIUM
MATRIX :	WATER	x soil _	SLUDGEOTHER

## (UG/L OR MG/KG DRY WEIGHT ( CIRCLE ONE )

1.	ALUMINUM	[ 186.0	]P~	13.	MAGNESIUM	18231.0	P 🗷
2.	ANTIMONY	58.0	UP	14.	MANGANESE	16.0	P
3.	ARSENIC	3.0	UF	15.	MERCURY	0.2	u c.v. <i>№</i>
4.	BARIUM	19.0	UP	16.	NICKEL	12.0	UP
5.	BERYLLIUM	0.6	UP	17.	POTASSIUM	[ 842.0	]P
6.	CADMIUM	5.0	UP	18.	SELENIUM	5.0	UF N
7.	CALCIUM	27870.0	P 🚝	19.	SILVER	15.0	P
8.	CHROMIUM	9.0	UP	20.	SODIUM	9739.0	P
9.	COBALT	13.0	UP	21.	THALLIUM	5.0	UF
10.	COPPER	3.0	UP	22.	VANADIUM	5.0	UP
11.	IRON	345.0	PN	23.	ZINC	26.0	P
12.	LEAD	5.0	UF pv	PERCENT SOLID	)S (%)	N/A	
	CYANIDE	10.0	U				
	PHENOL	NR					

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

comments: This rample was her aborder light. The sample remained colorless for look I cp and Jume injustion providences.

LAB MANAGER



SAMPLE DATA

<u>\_\_Sw-2\_\_\_</u>

#### ORGANICS ANALYSIS DATA SHEET

( PAGE 1 )

SAMPLE NUMBER

LANCASTER REC.

SW-2

Laboratory Name: NANCO LABORATORY INC.

Lab File ID No:>F0955

Sample Matrix: WATER

Data Release Authorized By: P. J. Wunsch

Case No: ENG. SCIENCE QC Report No: N/A

Contract No: N/A

Date Sample Received: 09/10/87

VOLATILE COMPOUNDS

Concentration:

Medium

(Circle One)

Date Extracted/Prepared: 09/14/87

Date Analyzed:09/14/87

Conc/Dil Factor:

pH: 8.4

Percent Moisture: N/A

CAS	/ug/l /or ug/Kg	CAS	ug/j or ug/Kg
Number	(Circle One)	Number	(Circle One )
••••••			
74-87-3  Chloromethane	10.0 U	79-34-5   1,1,2,2-Tetrachloroethane	5.0 U
74-83-9  Bromomethane	10.0 U	78-87-5   1,2-Dichloropropane	5.0 U
75-01-4  Vinyl Chloride	10.0 U	10061-02-6  Trans-1,3-Dichloropropene	5.0 U
75-00-3  Chloroethane	10.0 U	79-01-6   Trichloroethene	5.0 U
75-09-2  Methylene Chloride	6.0 B	124-48-1   Dibromochloromethane	5.0 U
67-64-1  Acetone	20.0 в	79-00-5   1,1,2-Trichloroethane	5.0 U
75-15-0  Carbon Disulfide	5.0 U	71-43-2   Benzene	5.0 U
75-35-4  1,1-Dichloroethene	5.0 U	10061-01-5  cis-1,3-Dichloropropene	5.0 U
75-34-3  1,1-Dichloroethane	5.0 U	110-75-8   2-Chloroethylvinylether	10.0 U
156-60-5 Trans-1,2-Dichloroethene	5.0 U	75-25-2   Bromoform	5.0 U
67-66-3  Chloroform	5.0 U	591-78-6   2-Hexanone	10.0 U
107-06-2 1,2-Dichloroethane	5.0 U	108-10-1   4-Methyl-2-Pentanone	10.0 U
78-93-3  2-Butanone	10.0 U	127-18-4   Tetrachloroethene	5.0 U
71-55-6  1,1,1-Trichloroethane	5.0 U	108-88-3   Toluene	5.0 U
56-23-5  Carbon Tetrachloride	5.0 U	108-90-7   Chlorobenzene	5.0 U
108-05-4 Vinyl Acetate	10.0 U	100-41-4   Ethylbenzene	5.0 U
75-27-4  Bromodichloromethane	5.0 U	100-42-5   Styrene	5.0 U
•••••		Total Xylenes	5.0 U

#### Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

#### VALUE

limit, report the value.

Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U(e.g.10U based on necessary concentration dilution actions. (This is not This flag is used when the analyte is found in the blank as well necessarily the instrument detection limit.) The footnote should as a sample. It indicates possible/probable blank contamination read U-Compound was analyzed for but not detected. The number is and warns the data user to take appropriate action. the minimum attainable detection limit for the sample.

Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds and such description attached to the data summary report. where a 1 1 response is assumed or when the mass spectral data

If the result is a value greater than or equal to the detection. This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed

by GC/MS

В

Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described

indicates the presence of a compound that meets the identification This flag denotes that the compound is a spike compound criteria but the result is less than the specified detection limit and was added to the sample prior to analysis. but greater than zero (e.g. 10J).

# ORGANIC ANALYSIS DATA SHEET ( PAGE 2 )

LABORATORY NAME: NANCO LABS. INC.
CASE NO: ENGINEERING SCIENCE
LANCASTER REC.

SAMPLE NO. SW-2

#### SEMIVOLATILE COMPOUNDS

	(in				
•	Concentration: / Low	/ Medium	(Circle One)	GPC Cleanup: YesNo_X	******
	Date Extracted/Prepared: 09	/14/87		Separatory Funnel Extraction	: YesX
	Date Analyzed: 09/18/87			Continuous Liquid - Liquid Ex	ktraction: Yes_
	Conc/Dil Factor:	-> 1			
	Percent Moisture:	N/A			
CAS		ug/l or ug/Kg	CAS	/	ug/l or ug/Kg
Number	(	(Circle One )	Number		(etrcle One)
1	· · · · · · · · · · · · · · · · · · ·	1 1	83-32-9	A	
l 108-95-2	Phenol	10.0 U	51-28-5	Acenaphthene	10.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.00	100-02-7	2,4-Dinitrophenol	50.0 U
95-57-8	2-Chlorophenol	1	1	4-Nitrophenol	50.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U	132-64-9	Dibenzofuran	10.0 U
1 106-46-7	1,4-Dichlorobenzene	10.0 U	121-14-2	2,4-Dinitrotoluene	10.0 U
1 100-51-6	Benzyl Alcohol	10.0 U	606-20-2	2,6-Dinitrotoluene	10.0 U
95-50-1	•	10.0 U	84-66-2	Diethylphthalate	10.0 U
95-48-7	1,2-Dichlorobenzene	10.0 U	7005-72-3	4-Chlorophenyl-phenylether	10.0 U
•	2-Methylphenol	10.0 U	86-73-7	Fluorene	10.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	•	100-01-6	4-Nitroaniline	50.0 U
106-44-5	4-Methylphenol	10.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U	86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
67-72-1	Hexachloroethane	10.0 U	101-55-3	4-Bromophenyl-phenylether	10.0 U
98-95-3	Nitrobenzene	10.0 U	118-74-1	Hexachlorobenzene	10.0 U
78-59-1	Isophorone	10.0 U	87-86-5	Pentachlorophenol	50.0 U
88-75-5	2-Nitrophenol	10.0 U	85-01-8	Phenanthrene	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U	120-12-7	Anthracene	10.0 U
65-85-0	Benzoic Acid	50.0 U	84-74-2	Di-n-Butylphthalate	16.2
111-91-1	bis(-2-Chloroethoxy)Methane		206-44-0	Fluoranthene	10.0 U
120-83-2	2,4-Dichlorophenol	10.0 U	129-00-0	Pyrene	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U	85-68-7	Butylbenzylphthalate	10.0 U
91-20-3	Naphthalene	10.0 U	91-94-1	3,3'-Dichlorobenzidine	20.0 U
106-47-8	4-Chloroaniline	10.0 U	56-55-3	Benzo(a)Anthracene	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	10.0 U
59-50-7	4-Chloro-3-Methylphenol	10.0 U	218-01-9	Chrysene	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U	117-84-0	Di-n-Octyl Phthalate	10.0 U
77-47-4	Hexachlorocyclopentadiene	10.0 U	205-99-2	Benzo(b)Fluoranthene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U	207-08-9	Benzo(k)Fluoranthene	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U	50-32-8	Benzo(a)Pyrene	12.2 B
91-58-7	2-Chloronaphthalene	10.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
88-74-4	2-Nitroaniline	50.0 U	53-70-3	Dibenz(a,h)Anthracene	10.0 U
131-11-3	Dimethyl Phthalate	10.0 U	191-24-2	Benzo(g,h,i)Perylene	10.0 U
208-96-8	Acenaphthylene	10.0 U			i
99-09-2	3-Nitroaniline	50.0 U			
1			(1) - Cannot b	be separated from diphenylamine	

## INORGANIC ANALYSIS DATA SHEET FORM I

SMPL NO.: SW-2

004

Lab Name : NANCO LABORATORIES, INC.

Customer Name: Engineering Science

SOW NO. : N/A

Lab Receipt Date: 09/10/87

Lab Sample ID: 87-EW-2440

Date Reported: 10/07/87

Location ID: Lancaster Rec.

#### ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION :	LOMX	MEDIUM
MATRIX: WATER	X SOIL	SLUDGEOTHER

## UG/L OR MG/KG DRY WEIGHT ( CIRCLE ONE )

1.	ALUMINUM		762.0	PN	13. MAGNESIUM	1	7503.0 PE
2.	ANTIMONY		86.0	P	14. MANGANESE	:	29.0 P
3.	ARSENIC		3.0	UF	15. MERCURY		0.2 U C.V. N
4.	BARIUM	[	30.0	] P	16. NICKEL	Ĺ	28.0 JP
5.	BERYLLIUM	C	1.0	] P	17. POTASSIU	1 E	2062.0 JP
6.	CADMIUM		12.0	P	18. SELENIUM		5.0 UF N
7.	CALCIUM		43650.0	PË	19. SILVER		40.0 P
8.	CHROMIUM		26.0	P	20. SODIUM	ſ	1446.0 ]P
9.	COBALT		13.0	UP	21. THALLIUM		5.0 UF
10.	COPPER		35.0	P	22. VANADIUM	Ţ	13.0 JP
11.	IRON		801.0	PN	23. ZINC		58.0 P
12.	LEAD		5.0	UF $\sim$	PERCENT SOLIDS (%)		N/A
	CYANIDE		14.9				
	PHENOL		NR				

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS: This raple was a sear colonier liquid. The raple remained colonier for furnamend I of digestion proceeding

Keny Call

LAB MANAGER

# ORGANICS ANALYSIS DATA SHEET ( PAGE 4 )

SAMPLE NUMBER

SW-2

LABORATORY NAME :NANCO LABS.INC.
CASE NO: ENGINEERING SCIENCE
LANCASTER REC.

Tentatively Identified Compounds

		CAS					Estimated n Concentration	
		Number		Compound Name	Fraction	Number	(ug/l or ug/Kg)	
1	1		NONE	FOUND	VOA -			1
1	2							i
İ	3	• • • • •	NONE	FOUND	BNA			ĺ
İ	4		1					
1	5		1					-
1	6		1				1	I
1	7							ı
1	8		!		  -		1	ļ
	9 10				i		1	
1	11		1			 	1	- 1
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	17		}				1	1
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ı	19		1			İ	1	i
1	20		ļ		<u> </u>	<u> </u>	!	!
ļ	21						4	!
1	22 23		1		 	  -	1	
I I	24		1		 	 	<b>!</b>	1
1	25		1		 	i İ	 	1
i	26		1		! 	! !	! 	1
•		•	•		•	•	ī	ł



SAMPLE DATA

<u>Sw-3</u>

#### ORGANICS ANALYSIS DATA SHEET

( PAGE 1 )

SAMPLE NUMBER

SW-3

LANCASTER REC.

Laboratory Name: NANCO LABORATORY INC.

Lab File ID No:>F0956 Sample Matrix: WATER

Data Release Authorized By: P. J. Wursch

Case No: ENG. SCIENCE QC Report No: N/A Contract No: N/A

Date Sample Received: 09/10/87

VOLATILE COMPOUNDS

Concentration:

Medium

(Circle One)

Date Extracted/Prepared: 09/14/87

Date Analyzed:09/14/87

Conc/Dil Factor:

pH: 7.9

Percent Moisture: N/A

CAS Number	ug/l or ug/Kg ( Circle One )	CAS Number	ug/l or ug/Kg (Circle One )
74-87-3  Chloromethane	10.0 U	79-34-5   1,1,2,2-Tetrachloroethane	5.0 U
74-83-9  Bromomethane	10.0 U	78-87-5   1,2-Dichloropropane	5.0 U
75-01-4   Vinyl Chloride	10.0 U	10061-02-6  Trans-1,3-Dichloropropene	5.0 U
75-00-3  Chloroethane	10.0 U	79-01-6   Trichloroethene	5.0 U
75-09-2   Methylene Chloride	2.0 JB	124-48-1   Dibromochloromethane	5.0 U
67-64-1   Acetone	12.0 B	79-00-5   1,1,2-Trichloroethane	5.0 U
75-15-0  Carbon Disulfide	5.0 U	71-43-2   Benzene	5.0 U
75-35-4  1,1-Dichloroethene	5.0 U	10061-01-5  cis-1,3-Dichloropropene	5.0 U
75-34-3  1,1-Dichloroethane	5.0 U	110-75-8   2-Chloroethylvinylether	10.0 U
,156-60-5 Trans-1,2-Dichloroethene	5.0 U	75-25-2   Bromoform	5.0 U
67-66-3  Chloroform	5.0 U	591-78-6   2-Hexanone	10.0 U
107-06-2 1,2-Dichloroethane	5.0 U	108-10-1   4-Methyl-2-Pentanone	1 10.0 U
78-93-3  2-Butanone	10.0 U	127-18-4   Tetrachloroethene	5.0 U
71-55-6  1,1,1-Trichloroethane	5.0 U	108-88-3   Toluene	J 5.0 U J
156-23-5  Carbon Tetrachloride	5.0 U	108-90-7   Chlorobenzene	1 5.0 U
108-05-4 Vinyl Acetate	10.0 U	100-41-4   Ethylbenzene	5.0 U
75-27-4  Bromodichloromethane	5.0 U	100-42-5   Styrene	j 5.0 u j
		Total Xylenes	5.0 U

#### Data Reporting Qualifiers

by GC/MS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE

C

If the result is a value greater than or equal to the detection. This flag applies to pesticide parameters where the identification .imit, report the value.

Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U(e.g.10U

pased on necessary concentration dilution actions. (This is not This flag is used when the analyte is found in the blank as well necessarily the instrument detection limit.) The footnote should as a sample. It indicates possible/probable blank contamination read U-Compound was analyzed for but not detected.The number is and warns the data user to take appropriate action. the minimum attainable detection limit for the sample.

Indicates an estimated value. This flag is used either when stimating a concentration for tentatively identified compounds and such description attached to the data summary report.

where a 1 1 response is assumed or when the mass spectral data

Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described

has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed

indicates the presence of a compound that meets the identification This flag denotes that the compound is a spike compound oriteria but the result is less than the specified detection limit and was added to the sample prior to analysis. ut greater than zero (e.g. 10J).

# ORGANIC ANALYSIS DATA SHEET ( PAGE 2 )

LABORATORY NAME: NANCO LABS. INC.
CASE NO: ENGINEERING SCIENCE
LANCASTER REC.

SAMPLE NO.

sw-3

#### SEMIVOLATILE COMPOUNDS

Concentration:  Date Extracted/Prepared  Date Analyzed: 09/18/87  Conc/Dil Factor:				GPC Cleanup: Yes NoX Separatory Funnel Extraction: YesX Continuous Liquid - Liquid Extraction: Yes_		
CAS Number	Percent Moisture:	N/A ug/l or ug/Kg (Circle One )	CAS Number		ug/l or ug/Kg ( Circle One )	
-			83-32-9	Acenaphthene	10.0 U	
108-95-2	Phenot	10.0 U	51-28-5	2,4-Dinitrophenol	50.0 U	
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U	100-02-7	4-Nitrophenol	50.0 U	
95-57-8	2-Chlorophenol	10.0 U	132-64-9	Dibenzofuran	10.0 U	
541-73-1	1,3-Dichlorobenzene	10.0 U	121-14-2	2,4-Dinitrotoluene	10.0 U	
106-46-7	1,4-Dichlorobenzene	10.0 U	606-20-2	2,6-Dinitrotoluene	10.0 U	
100-51-6	Benzyl Alcohol	10.0 U	84-66-2	Diethylphthalate	10.0 U	
95-50-1	1,2-Dichlorobenzene	10.0 U	7005-72-3	4-Chlorophenyl-phenylether	10.0 U	
95-48-7	2-Methylphenol	10.0 U	86-73-7	Fluorene	10.0 U	
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U	100-01-6	4-Nitroaniline	50.0 U	
106-44-5	4-Methylphenol	10.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U	
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U	86-30-6	N-Nitrosodiphenylamine (1)	10.0 U	
67-72-1	Hexachloroethane	10.0 U	101-55-3	4-Bromophenyl-phenylether	10.0 U	
98-95-3	Nitrobenzene	10.0 U	118-74-1	Hexachlorobenzene	10.0 U	
78-59-1	Isophorone	10.0 U	87-86-5	Pentachlorophenol	50.0 U	
88-75-5	2-Nitrophenol	10.0 U	85-01-8	Phenanthrene	10.0 U	
105-67-9	2,4-Dimethylphenol	10.0 U	120-12-7	Anthracene	10.0 U	
65-85-0	Benzoic Acid	50.0 U	84-74-2	Di-n-Butylphthalate	8.4 J	
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U	206-44-0	Fluoranthene	10.0 U	
120-83-2	2,4-Dichlorophenol	10.0 U	129-00-0	Pyrene	10.0 U	
120-82-1	1,2,4-Trichlorobenzene	10.0 U	85-68-7	Butylbenzylphthalate	10.0 U	
91-20-3	Naphthalene	10.0 U	91-94-1	3,31-Dichlorobenzidine	20.0 U	
106-47-8	4-Chloroaniline	10.0 U	56-55-3	Benzo(a)Anthracene	10.0 U	
87-68-3	Hexachlorobutadiene	10.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	47.6 B	
59-50-7	4-Chloro-3-Methylphenol	10.0 U	218-01-9	Chrysene	10.0 U	
91-57-6	2-Methylnaphthalene	10.0 U	117-84-0	Di-n-Octyl Phthalate	6.0 J	
77-47-4	Hexachlorocyclopentadiene	10.0 U	205-99-2	Benzo(b)fluoranthene	10.0 U	
88-06-2	2,4,6-Trichlorophenol	10.0 U	207-08-9	Benzo(k)Fluoranthene	10.0 U	
95-95-4	2,4,5-Trichlorophenol	50.0 U	50-32-8	Benzo(a)Pyrene	11.7 B	
91-58-7	2-Chloronaphthalene	10.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U	
88-74-4	2-Nitroaniline	50.0 U	53-70-3	Dibenz(a,h)Anthracene	10.0 U	
131-11-3	Dimethyl Phthalate	10.0 U	191-24-2	Benzo(g,h,i)Perylene	10.0 u	
208-96-8	Acenaphthylene	10.0 U	1	1	1	
99-09-2	3-Nitroaniline	50.0 U			*********	
1	1		(1) - Cannot b	e sep <mark>arate</mark> d from diphenylamine	•	

SAMPLE NUMBER

SW-3

LABORATORY NAME :NANCO LABS.INC.
CASE NO: ENGINEERING SCIENCE
LANCASTER REC.

Tentatively Identified Compounds

		CAS				Estimated Concentration	
		Number	Compound Name	Fraction	Number	(ug/l) or ug/Kg)	
1	1		NONE FOUND	VOA			
	2		1				
	3		NONE FOUND	BNA			
1	4						
	5		1				
-	6		1	ļ			
	7			1			
	8						
1	9			1			
f	10			1			
1	11						
1	12			1			
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i	26		· 	i		! 	

## INORGANIC ANALYSIS DATA SHEET

SMPL NO.: SW-3

FORM I

Lab Name : NANCO LABORATORIES, INC.

Customer Name: Engineering Science

SOW NO. : N/A

Lab Receipt Date: 09/10/87

Lab Sample ID: 87-EW-2441

Date Reported: 10/07/87

Location ID: Lancaster Rec.

### ELEMENTS IDENTIFIED AND MEASURED

MEDIUM \_\_\_\_\_ CONCENTRATION : LOW \_\_X\_\_ MATRIX : WATER \_\_X\_\_ SOIL \_\_\_\_ SLUDGE \_\_\_\_OTHER \_\_\_\_

UG/L) OR MG/KG DRY WEIGHT ( CIRCLE ONE )

1.	ALUMINUM		1404.0 F	P~	13. MAGNESIUM 2740	4.0	PΒ
2.	ANTIMONY		62.0 F	P	14. MANGANESE 5	1.0	Р
3.	ARSENIC		3.0 (	UF	15. MERCURY	0.2	u c.v.~
4.	BARIUM	ε	55.0	] P	16. NICKEL [ 2	3.0	] P
5.	BERYLLIUM		0.6	UP	17. POTASSIUM [ 402	5.0	]P
6.	CADMIUM		5.0 l	UP	18. SELENIUM	5.0	UF/
7.	CALCIUM		35802.0	p E	19. SILVER	3.0	P
8.	CHROMIUM		13.0	P	20. SODIUM 180°	8.0	P
9.	COBALT		13.0	UP	21. THALLIUM	5.0	UF
10.	COPPER	ť	11.0	]P	22. VANADIUM [	5.0	<b>]</b> P
11.	IRON		1923.0	P∕	23. ZINC	36.0	P
12.	LEAD		5.0	UF ~	PERCENT SOLIDS (%)	'A	
	CYANIDE		10.0	υ			
	PHENOL		NR				

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

coloration. The rangele hecause colores from

top and funcion digitar procedure.

LAB MANAGER



SAMPLE DATA

SW - 4

Lancaster Rec.

('PAGE 1)

Laboratory Name: NANCO LABORATORY INC.

Lab File ID No:>F0989

Sample Matrix: WATER

Data Release Authorized By

Case No: ENGINEERING SCIENCE

SW-4

QC Report No: N/A

LANCASTER REC.

Contract No: N/A

Date Sample Received: 09/11/87

VOLATILE COMPOUNDS

Concentration:

Low

Medium

(Circle One)

Date Extracted/Prepared: 09/16/87

Date Analyzed:09/16/87

Conc/Dil Factor:

pH: 7.0

Percent Moisture: N/A

CAS	(ug/l) or ug/Kg	CAS	(ug/l) or ug/Kg
lumber	( Circle One )	Number	( Circle One )
74-87-3  Chloromethane	10.0 U	79-34-5   1,1,2,2-Tetrachloroethane	5.0 U
74-83-9  Bromomethane	10.0 U	78-87-5   1,2-Dichloropropane	5.0 U
75-01-4   Vinyl Chloride	10.0 U	10061-02-6  Trans-1,3-Dichloropropene	5.0 U
75-00-3  Chloroethane	10.0 U	79-01-6   Trichloroethene	5.0 U
5-09-2  Methylene Chloride	10.0 B	124-48-1   Dibromochloromethane	5.0 U
7-64-1   Acetone	8.2 JB	79-00-5   1,1,2-Trichloroethane	5.0 U
75-15-0  Carbon Disulfide	5.0 U	71-43-2   Benzene	5.0 U
75-35-4  1,1-Dichloroethene	5.0 U	10061-01-5  cis-1,3-Dichloropropene	j 5.0 U j
'5-34-3  1,1-Dichloroethane	5.0 U	110-75-8   2-Chloroethylvinylether	10.0 U
156-60-5   Trans-1,2-Dichloroethene	5.0 U	75-25-2   Bromoform	5.0 U
67-66-3  Chloroform	5.0 U	591-78-6   2-Hexanone	10.0 U
07-06-2 1,2-Dichloroethane	5.0 U	108-10-1   4-Methyl-2-Pentanone	10.0 U
'8-93-3  2-Butanone	10.0 U	127-18-4   Tetrachloroethene	5.0 U
71-55-6  1,1,1-Trichloroethane	5.0 U	108-88-3   Toluene	5.0 U
'56-23-5  Carbon Tetrachloride	5.0 U	108-90-7   Chlorobenzene	5.0 U
08-05-4 Vinyl Acetate	10.0 U	100-41-4   Ethylbenzene	5.0 U
/5-27-4  Bromodichloromethane	5.0 U	100-42-5   Styrene	5.0 U
•••••	*****	Total Xylenes	5.0 U

#### Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE

imit, report the value.

Indicates compound was analyzed for but not detected. Report ne minimum detection limit for the sample with the U(e.g.10U ased on necessary concentration dilution actions. (This is not This flag is used when the analyte is found in the blank as well read U-Compound was analyzed for but not detected. The number is and warns the data user to take appropriate action. he minimum attainable detection limit for the sample.

Indicates an estimated value. This flag is used either when stimating a concentration for tentatively identified compounds and such description attached to the data summary report. here a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification miteria but the result is less than the specified detection limit it greater than zero (e.g. 10J).

If the result is a value greater than or equal to the detection. This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

В

necessarily the instrument detection limit.) The footnote should as a sample. It indicates possible/probable blank contamination

Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described

# ORGANIC ANALYSIS DATA SHEET ( PAGE 2 )

LABORATORY NAME: NANCO LABS. INC. CASE NO: ENGINEERING SCIENCE

SAMPLE NO. SW-4 LANCASTER REC.

#### SEMIVOLATILE COMPOUNDS

CAS Number		Concentration: Low Date Extracted/Prepared: 09, Date Analyzed: 10/02/87	Medium /14/87	(Circle One)	GPC Cleanup: Yes No_ Separatory Funnel Extraction Continuous Liquid - Liquid	
CAS Number		· ·	-> 1		, , , , , , , , , , , , , , , , , , , ,	
CAS Number		•				
	CAS	<b>P</b> .	(ug/l) or ug/Kg	CAS		(ug/l) or ug/Kg
		•				
108-95-2						
111-44-4	1		1	83-32-9	Acenaphthene	10.0 U
95-57-8   2-Chlorophenol   10.0 U   132-64-9   Dibenzofuran   10.0 U   1541-73-1   1,3-Dichlorobenzene   10.0 U   121-14-2   2,4-Dinitrotoluene   10.0 U   106-46-7   1,4-Dichlorobenzene   10.0 U   606-20-2   2,6-Dinitrotoluene   10.0 U   100-51-6   Benzyl Alcohol   10.0 U   84-66-2   Diethylphthalate   10.0 U   95-50-1   1,2-Dichlorobenzene   10.0 U   7005-72-3   4-Chlorophenyl-phenylether   10.0 U   95-48-7   2-Methylphenol   10.0 U   86-73-7   Fluorene   10.0 U   100-01-6   4-Nitroaniline   50.0 U   106-44-5   4-Methylphenol   10.0 U   534-52-1   4,6-Dinitro-2-Methylphenol   50.0 U   621-64-7   N-Nitroso-Di-n-Propylamine   10.0 U   86-30-6   N-Nitrosodiphenylamine (1)   10.0 U   67-72-1   Hexachloroethane   10.0 U   101-55-3   4-Bromophenyl-phenylether   10.0 U   78-59-1   Isophorone   10.0 U   187-86-5   Pentachlorophenol   50.0 U   88-75-5   2-Nitrophenol   10.0 U   85-01-8   Phenanthrene   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U   100-01-0   10.0 U	108-95-2	Phenol	10.0 U	51-28-5	2,4-Dinitrophenol	50.0 U
541-73-1   1,3-Dichlorobenzene   10.0 U   121-14-2   2,4-Dinitrotoluene   10.0 U   106-46-7   1,4-Dichlorobenzene   10.0 U   606-20-2   2,6-Dinitrotoluene   10.0 U   100-51-6   Benzyl Alcohol   10.0 U   84-66-2   Diethylphthalate   10.0 U   95-50-1   1,2-Dichlorobenzene   10.0 U   7005-72-3   4-Chlorophenyl-phenylether   10.0 U   95-48-7   2-Methylphenol   10.0 U   86-73-7   Fluorene   10.0 U   39638-32-9   bis(2-chloroisopropyl)Ether   10.0 U   100-01-6   4-Nitroaniline   50.0 U   106-44-5   4-Methylphenol   10.0 U   534-52-1   4,6-Dinitro-2-Methylphenol   50.0 U   621-64-7   N-Nitroso-Di-n-Propylamine   10.0 U   86-30-6   N-Nitrosodiphenylamine (1)   10.0 U   67-72-1   Hexachloroethane   10.0 U   101-55-3   4-Bromophenyl-phenylether   10.0 U   78-59-1   Isophorone   10.0 U   87-86-5   Pentachlorophenol   50.0 U   88-75-5   2-Nitrophenol   10.0 U   88-01-8   Phenanthrene   10.0 U   105-67-9   2,4-Dimethylphenol   10.0 U   120-12-7   Anthracene   10.0 U	111-44-4	bis(-2-Chloroethyl)Ether	10.0 U	100-02-7	4-Nitrophenol	50.0 U
106-46-7	95-57-8	2-Chlorophenol	10.0 U	132-64-9	Dibenzofuran	10.0 U
100-51-6	541-73-1	1,3-Dichlorobenzene	10.0 U	121-14-2	2,4-Dinitrotoluene	10.0 U
95-50-1   1,2-Dichlorobenzene   10.0 U   7005-72-3   4-Chlorophenyl-phenylether   10.0 U   95-48-7   2-Methylphenol   10.0 U   86-73-7   Fluorene   10.0 U   39638-32-9   bis(2-chloroisopropyl)Ether   10.0 U   100-01-6   4-Nitroaniline   50.0 U   106-44-5   4-Methylphenol   10.0 U   534-52-1   4,6-Dinitro-2-Methylphenol   50.0 U   621-64-7   N-Nitroso-Di-n-Propylamine   10.0 U   86-30-6   N-Nitrosodiphenylamine (1)   10.0 U   67-72-1   Hexachloroethane   10.0 U   101-55-3   4-Bromophenyl-phenylether   10.0 U   98-95-3   Nitrobenzene   10.0 U   118-74-1   Hexachlorobenzene   10.0 U   78-59-1   Isophorone   10.0 U   87-86-5   Pentachlorophenol   50.0 U   88-75-5   2-Nitrophenol   10.0 U   85-01-8   Phenanthrene   10.0 U   105-67-9   2,4-Dimethylphenol   10.0 U   120-12-7   Anthracene   10.0 U	106-46-7	1,4-Dichlorobenzene	10.0 U	606-20-2	2,6-Dinitrotoluene	10.0 U
95-48-7   2-Methylphenol   10.0 U   86-73-7   Fluorene   10.0 U   39638-32-9   bis(2-chloroisopropyl)Ether   10.0 U   100-01-6   4-Nitroaniline   50.0 U   106-44-5   4-Methylphenol   10.0 U   534-52-1   4,6-Dinitro-2-Methylphenol   50.0 U   621-64-7   N-Nitroso-Di-n-Propylamine   10.0 U   86-30-6   N-Nitrosodiphenylamine (1)   10.0 U   67-72-1   Hexachloroethane   10.0 U   101-55-3   4-Bromophenyl-phenylether   10.0 U   98-95-3   Nitrobenzene   10.0 U   118-74-1   Hexachlorobenzene   10.0 U   78-59-1   Isophorone   10.0 U   87-86-5   Pentachlorophenol   50.0 U   88-75-5   2-Nitrophenol   10.0 U   85-01-8   Phenanthrene   10.0 U   105-67-9   2,4-Dimethylphenol   10.0 U   120-12-7   Anthracene   10.0 U	100-51-6	Benzyl Alcohol	10.0 U	84-66-2	Diethylphthalate	10.0 U
39638-32-9   bis(2-chloroisopropyl)Ether   10.0 U   100-01-6   4-Nitroaniline   50.0 U   106-44-5   4-Methylphenol   10.0 U   534-52-1   4,6-Dinitro-2-Methylphenol   50.0 U   621-64-7   N-Nitroso-Di-n-Propylamine   10.0 U   86-30-6   N-Nitrosodiphenylamine (1)   10.0 U   67-72-1   Hexachloroethane   10.0 U   101-55-3   4-Bromophenyl-phenylether   10.0 U   98-95-3   Nitrobenzene   10.0 U   118-74-1   Hexachlorobenzene   10.0 U   78-59-1   Isophorone   10.0 U   87-86-5   Pentachlorophenol   50.0 U   88-75-5   2-Nitrophenol   10.0 U   85-01-8   Phenanthrene   10.0 U   105-67-9   2,4-Dimethylphenol   10.0 U   120-12-7   Anthracene   10.0 U	95-50-1	1,2-Dichlorobenzene	10.0 U	7005-72-3	4-Chlorophenyl-phenylether	10.0 U
106-44-5	95-48-7	2-Methylphenol	10.0 U	86-73-7	Fluorene	10.0 U
621-64-7	39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U	100-01-6	4-Nitroaniline	50.0 U
67-72-1           Hexachloroethane           10.0 U             101-55-3           4-Bromophenyl-phenylether           10.0 U               98-95-3           Nitrobenzene           10.0 U             118-74-1           Hexachlorobenzene           10.0 U               78-59-1           Isophorone           10.0 U             87-86-5           Pentachlorophenol           50.0 U               88-75-5           2-Nitrophenol           10.0 U             85-01-8           Phenanthrene           10.0 U               105-67-9           2,4-Dimethylphenol           10.0 U             120-12-7           Anthracene           10.0 U	106-44-5	4-Methylphenol	10.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
98-95-3         Nitrobenzene           10.0 U     118-74-1           Hexachlorobenzene           10.0 U     178-79-1           Hexachlorobenzene           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-1           10.0 U     178-79-	621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U	86-30-6	N-Nitrosodiphenylamine (1)	i 10.0 u j
78-59-1   Isophorone   10.0 U   87-86-5   Pentachlorophenol   50.0 U   88-75-5   2-Nitrophenol   10.0 U   85-01-8   Phenanthrene   10.0 U   105-67-9   2,4-Dimethylphenol   10.0 U   120-12-7   Anthracene   10.0 U	67-72-1	Hexachloroethane	10.0 U j	101-55-3	4-Bromophenyl-phenylether	10.0 U
88-75-5   2-Nitrophenol   10.0 U   85-01-8   Phenanthrene   10.0 U   105-67-9   2,4-Dimethylphenol   10.0 U   120-12-7   Anthracene   10.0 U	98-95-3	Nitrobenzene	10.0 U	118-74-1	Hexachlorobenzene	1 10.0 U j
105-67-9   2,4-Dimethylphenol   10.0 U   120-12-7   Anthracene   10.0 U	78-59-1	Isophorone	10.0 U	87-86-5	Pentachlorophenol	
	88-75-5	2-Nitrophenol	j 10.0 u j	85-01-8	Phenanthrene	10.0 U
65-85-0   Benzoic Acid   50.0 U   84-74-2   Di-n-Butylphthalate   11.0	105-67-9	2,4-Dimethylphenol	10.0 U	120-12-7	Anthracene	j 10.0 u j
	65-85-0	Benzoic Acid	50.0 U	84-74-2	Di-n-Butylphthalate	i 11.0 i
111-91-1   bis(-2-Chloroethoxy)Methane   10.0 U   206-44-0   Fluoranthene   10.0 U	111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U	206-44-0	•	•
120-83-2   2,4-Dichlorophenol   10.0 U   129-00-0   Pyrene   10.0 U	120-83-2	2,4-Dichlorophenol	10.0 U	129-00-0	Pyrene	i 10.0 u i
120-82-1   1,2,4-Trichlorobenzene   10.0 U   85-68-7   Butylbenzylphthalate   10.0 U	120-82-1	1,2,4-Trichlorobenzene	10.0 U	85-68-7	Butylbenzylphthalate	•
91-20-3   Naphthalene   10.0 U   91-94-1   3,3'-Dichlorobenzidine   20.0 U	91-20-3	Naphthalene	10.0 U	91-94-1	•	•
106-47-8	106-47-8	4-Chloroaniline	10.0 U	56-55-3		•
87-68-3   Hexachlorobutadiene   10.0 U   117-81-7   bis(2-Ethylhexyl)Phthalate   290.0 B	87-68-3	Hexachlorobutadiene	j 10.0 u j	117-81-7	bis(2-Ethylhexyl)Phthalate	•
59-50-7   4-Chloro-3-Methylphenol   10.0 U   218-01-9   Chrysene   10.0 U	59-50-7	4-Chloro-3-Methylphenol	10.0 U	218-01-9	Chrysene	10.0 U
91-57-6   2-Methylnaphthalene   10.0 U     117-84-0   Di-n-Octyl Phthalate   10.0 U	91-57-6	2-Methylnaphthalene	10.0 U	117-84-0	Di-n-Octyl Phthalate	10.0 U j
77-47-4   Hexachlorocyclopentadiene   10.0 U   205-99-2   Benzo(b)Fluoranthene   10.0 U	77-47-4	Hexachlorocyclopentadiene	10.0 U	205-99-2	Benzo(b)Fluoranthene	1 10.0 U
88-06-2   2,4,6-Trichlorophenol   10.0 U   207-08-9   Benzo(k)Fluoranthene   10.0 U	88-06-2	2,4,6-Trichlorophenol	10.0 U	207-08-9	Benzo(k)Fluoranthene	- 1
95-95-4   2,4,5-Trichlorophenol   50.0 U   50-32-8   Benzo(a)Pyrene   11.0 B	95-95-4	2,4,5-Trichlorophenol	50.0 U	50-32-8	Benzo(a)Pyrene	11.0 B
91-58-7   2-Chloronaphthalene   10.0 U   193-39-5   Indeno(1,2,3-cd)Pyrene   10.0 U	•	•	10.0 U	•		
88-74-4   2-Nitroaniline   50.0 U     53-70-3   Dibenz(a,h)Anthracene   10.0 U	88-74-4	•	•	•	•	10.0 U
131-11-3   Dimethyl Phthalate   10.0 U   191-24-2   Benzo(g,h,i)Perylene   10.0 U	•	•	•	•	·	
208-96-8	•	· ·			1	i
99-09-2   3-Nitroaniline   50.0 U	•	' '		1		
(1) - Cannot be separated from diphenylamine	i			(1) - Cannot b	pe separated from diphenylamine	<b>e</b>

SAMPLE NUMBER

SW-4

LANCASTER REC.

LABORATORY NAME :NANCO LABS.INC. CASE NO: ENGINEERING SCIENCE

#### Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT on Scan	Estimated Concentration (ug/l or ug/Kg)
1		NONE FOUND	VOA		
2	ı				
3			1	1	
4				1	
5		UNKNOWN	BNA	1411	15.0 J
6	26761400	1,2-BENZENEDICARBOXYLIC ACID, DIISODECYL ESTER	BNA	1528	40.0 J
7		UNKNOWN	BNA	1534	49.0 J
8	••••	UNKNOWN	BNA	1541	38.0 J
9		UNKNOWN	BNA	1547	30.0 J
10	••••	UNKNOWN	BNA	1553	20.0 J
11	79061	2-PROPENAMIDE	BNA	1557	19.0 J
12					
13			1	1	
14		•			
15					
16					•
17			1		
18		·			
19			1		
20			1		
21			1		
22			-		
23				1 1	
24				1 1	
25			1	1	
26			1	1 1	

## INORGANIC ANALYSIS DATA SHEET FORM I

SMPL NO .: 5 W -4

Lab Name : NANCO LABORATORIES, INC.

Customer Name: Engineering Science

SOW NO. : N/A

Lab Receipt Date: 09/11/87

Lab Sample ID: 87-EW-2503

Date Reported:

Location ID: Lancaster Rec

#### ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW \_\_\_X\_\_\_ MEDIUM \_\_\_\_\_ SLUDGE \_\_\_\_OTHER \_\_\_\_ MATRIX: WATER X SOIL UG/L) OR MG/KG DRY WEIGHT ( CIRCLE ONE ) 1. ALUMINUM 29.0 UPN 13. MAGNESIUM 6638.0 P 2. ANTIMONY 58.0 UP 14. MANGANESE 49.0 P N 15. MERCURY 0.2 U C.V. № ARSENIC 3.0 UF 19.0 UP 16. NICKEL 12.0 UP N 4. BARIUM 0.6 UPN BERYLLIUM 17. POTASSIUM [ 2173.0 ]P 6. CADMIUM 5.0 UP 18. SELENIUM 5.0 UF 7. CALCIUM 26163.0 PE 19. SILVER 14.0 PN 20. SODIUM 13315.0 P 8. CHROMIUM 9.0 UP 21. THALLIUM 5.0 UF N 9. COBALT 13.0 UP 10. COPPER 3.0 UP N 22. VANADIUM 5.0 UP 151.0 P 23. ZINC 55.0 PN 11. IRON 12. LEAD 5.0 UFN PERCENT SOLIDS (%) CYANIDE 10.0 U PHENOL NR

FOOTNOTES: FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

comments: This iscorrigate was a duan liquid.

Outin ICP and burnous diapition

proceedings thus isomple summained

cohorses.

Debelot of

LAB MANAGER



## SAMPLE DATA

FIELD BLANK

#### ORGANICS ANALYSIS DATA SHEET

( PAGE 1 )

SAMPLE NUMBER FIELD BLANK

LANCASTER REC.

Laboratory Name: NANCO LABORATORY INC. Lab File ID No:>F0957

Sample Matrix: WATER

Data Release Authorized By: P. J. Wunsof

Case No: ENG. SCIENCE QC Report No: N/A

Contract No: N/A

Date Sample Received: 09/10/87

VOLATILE COMPOUNDS

Concentration:

Medium

(Circle One)

Date Extracted/Prepared: 09/14/87

Date Analyzed:09/14/87

Conc/Dil Factor:

Low

pH:

Percent Moisture: N/A

CAS . Number	ug/l or ug/Kg ( Circle One )	CAS Number	( Circle One )
74-87-3  Chloromethane	10.0 U	79-34-5   1,1,2,2-Tetrachloroethane	5.0 U
74-83-9  Bromomethane	10.0 U	78-87-5   1,2-Dichloropropane	5.0 U
75-01-4   Vinyl Chloride	10.0 U	10061-02-6  Trans-1,3-Dichloropropene	j 5.0 U j
75-00-3  Chloroethane	10.0 U	79-01-6   Trichloroethene	j 5.0 u j
75-09-2  Methylene Chloride	4.2 JB	124-48-1 Dibromochloromethane	5.0 U
67-64-1   Acetone	[ 14.0 B	79-00-5   1,1,2-Trichloroethane	5.0 U
75-15-0  Carbon Disulfide	5.0 U	71-43-2   Benzene	5.0 U
75-35-4  1,1-Dichloroethene	5.0 U	10061-01-5  cis-1,3-Dichloropropene	5.0 U
75-34-3  1,1-Dichloroethane	5.0 U	110-75-8   2-Chloroethylvinylether	10.0 U
156-60-5 Trans-1,2-Dichloroethene	5.0 U	75-25-2   Bromoform	5.0 U
67-66-3  Chloroform	7.0	591-78-6   2-Hexanone	10.0 U
107-06-2 1,2-Dichloroethane	5.0 U	108-10-1   4-Methyl-2-Pentanone	10.0 U
78-93-3   2-Butanone	10.0 U	127-18-4   Tetrachloroethene	5.0 U
71-55-6  1,1,1-Trichloroethane	5.0 U	108-88-3   Toluene	5.0 U
56-23-5  Carbon Tetrachloride	5.0 U	108-90-7   Chlorobenzene	5.0 U J
108-05-4 Vinyl Acetate	10.0 U	100-41-4   Ethylbenzene	5.0 U J
75-27-4  Bromodichloromethane	5.0 U	100-42-5   Styrene	5.0 U
••••••	• • • • • • • • • • • • • •	Total Xylenes	5.0 U

#### Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

#### VALUE

If the result is a value greater than or equal to the detection. This flag applies to pesticide parameters where the identification limit, report the value.

Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U(e.g.10U based on necessary concentration dilution actions. (This is not This flag is used when the analyte is found in the blank as well

necessarily the instrument detection limit.) The footnote should as a sample. It indicates possible/probable blank contamination read U-Compound was analyzed for but not detected. The number is and warns the data user to take appropriate action.

the minimum attainable detection limit for the sample.

Indicates an estimated value. This flag is used either when where a 1 1 response is assumed or when the mass spectral data

estimating a concentration for tentatively identified compounds and such description attached to the data summary report.

has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS В

Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described

S

indicates the presence of a compound that meets the identification This flag denotes that the compound is a spike compound criteria but the result is less than the specified detection limit and was added to the sample prior to analysis. but greater than zero (e.g. 10J).

# ORGANICS ANALYSIS DATA SHEET ( PAGE 4 )

SAMPLE NUMBER FIELD BLANK

LABORATORY NAME :NANCO LABS.INC.

CASE NO: ENGINEERING SCIENCE

LANCASTER REC.

#### Tentatively Identified Compounds

		CAS Number	Compound Name	Fraction	RT or Scar Number	Estimated Concentration (ug/l or ug/kg)
١	1	75285	PROPANE, 2-METHYL	VOA	54	9.1 J
-	2				ĺ	İ
1	3	-				
-	4			1		į
1	5					i
1	6	]		***		1.
1	7					i i
l	8	1				İ
	9	1				
	10	l		1		1
	11			1		
1	12		•			1
	13		•			[
1	14	1				
	15					
1	16					
!	17	ļ		!		
	18 19			!		
1	20	!				1
i i	21	1		i i		
i	22	1			]	
1	23	 		[ [		
1	24	i I		1 1	 	1
	25	1		1	 	1
İ	26	1				!



SAMPLE DATA

TRIP BLANK

#### ORGANICS ANALYSIS DATA SHEET

( PAGE 1 )

LANCASTER REC.

SAMPLE NUMBER TRIP BLANK

Laboratory Name: NANCO LABORATORY INC.

Lab File ID No:>F0960

Sample Matrix: WATER

Data Release Authorized By: Py. Www. Sch

Case No: ENG. SCIENCE

QC Report No: N/A

Contract No: N/A

Date Sample Received: 09/10/87

VOLATILE COMPOUNDS

Medium (Circle One)

Date Extracted/Prepared: 09/14/87

Date Analyzed:09/14/87

Conc/Dil Factor:

pH: 7.2 (25)

Percent Moisture: N/A

CAS Number	ug/l or ug/Kg (Circle One )	CAS Number	ug/l or ug/Kg ( Circle One )
[74-87-3  Chloromethane	10.0 U	79-34-5   1,1,2,2-Tetrachloroethane	5.0 U
74-83-9  Bromomethane	10.0 U	78-87-5   1,2-Dichloropropane	5.0 U
75-01-4  Vinyl Chloride	10.0 U	10061-02-6  Trans-1,3-Dichloropropene	5.0 U
75-00-3  Chloroethane	10.0 U	79-01-6   Trichloroethene	5.0 U
75-09-2  Methylene Chloride	2.0 JB	124-48-1   Dibromochloromethane	5.0 U
67-64-1  Acetone	8.1 JB	79-00-5   1,1,2-Trichloroethane	5.0 U
75-15-0  Carbon Disulfide	5.0 U	71-43-2   Benzene	5.0 U
75-35-4  1,1-Dichloroethene	5.0 U	10061-01-5  cis-1,3-Dichloropropene	5.0 u
75-34-3  1,1-Dichloroethane	5.0 U	110-75-8   2-Chloroethylvinylether	10.0 U
156-60-5 Trans-1,2-Dichloroethene	5.0 U	75-25-2   Bromoform	5.0 U
67-66-3  Chloroform	5.0 U	591-78-6   2-Hexanone	10.0 U
107-06-2 1,2-Dichloroethane	5.0 U	108-10-1   4-Methyl-2-Pentanone	10.0 U
78-93-3  2-Butanone	10.0 U	127-18-4   Tetrachloroethene	5.0 U
71-55-6  1,1,1-Trichloroethane	5.0 U	108-88-3   Toluene	5.0 U
56-23-5  Carbon Tetrachloride	5.0 U	108-90-7   Chlorobenzene	5.0 U
108-05-4 Vinyl Acetate	10.0 U	100-41-4   Ethylbenzene	5.0 U
75-27-4  Bromodichloromethane	5.0 U	100-42-5   Styrene	5.0 U
	***************************************	Total Xylenes	5.0 U

#### Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE

If the result is a value greater than or equal to the detection. This flag applies to pesticide parameters where the identification limit, report the value.

Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U(e.g.10U based on necessary concentration dilution actions. (This is not This flag is used when the analyte is found in the blank as well necessarily the instrument detection limit.) The footnote should as a sample. It indicates possible/probable blank contamination read U-Compound was analyzed for but not detected. The number is and warns the data user to take appropriate action. the minimum attainable detection limit for the sample.

Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds and such description attached to the data summary report. where a 1 1 response is assumed or when the mass spectral data

indicates the presence of a compound that meets the identification This flag denotes that the compound is a spike compound criteria but the result is less than the specified detection limit and was added to the sample prior to analysis. but greater than zero (e.g. 10J).

by GC/MS

has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed

В

Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described

# ORGANICS ANALYSIS DATA SHEET ( PAGE 4 )

SAMPLE NUMBER
TRIP BLANK

LABORATORY NAME :NANCO LABS.INC.
CASE NO: ENGINEERING SCIENCE
LANCASTER REC.

#### Tentatively Identified Compounds

					Estimated
	CAS				n Concentration
	Number	Compound Name	Fraction	Number	(ug/l) or ug/Kg)
1		NONE FOUND	VOA		
2			İ	İ	i
3			Ì	İ	i
4			İ	i	· 
5	i		i	İ	i i
6			ì	1	, 1
7			i	1	, , 
8	i		İ		' ;   1
9	i		İ	i	·
10	i		İ	i	' ; !
j 11	i		1	!	! !
12	i		1	! 	1
13	•		1	1	;
1 14	•		! !	1	! !
15	ľ		1	; 	!!!!
16			1	! 	1
17			! !	1	! !
18				! !	1 1
19	•		1	1	1 1
20	,			1	! !
21	j		, 	, 	1
22	,		1	İ	! 
23				!	·
24					! 
25	i		İ	i	 
26	i			]	·
••••			'		1

## INORGANIC ANALYSIS DATA SHEET FORM I

Lab Name : NANCO LABORATORIES, INC.

Customer: Engineering Science

QC Batch: EW 2439-41; ES 2443-50

Lab Receipt Date: 09/10/87

DATE: 10/7/87

#### ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW \_\_X \_\_ MEDIUM \_\_\_\_

MATRIX: WATER \_\_X \_\_ SOIL \_\_\_ SLUDGE \_\_OTHER \_\_\_\_

UG/L/OR MG/KG DRY WEIGHT ( CIRCLE ONE )

	SAMPLE ID:	T.O.X.
SW-1	EW-2439	1.3
5W-2	EW-2440	16
ew. ?	EW-2441	9.1

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS :

LAB MANAGER

Dehelul D

## INORGANIC ANALYSIS DATA SHEET

Lab Name : NANCO LABORATORIES, INC. Customer: Engineering Science

QC Batch: EW 2492-2496; EW 2503

Lab Receipt Date: 09/11/87

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION : LOW \_\_\_X\_\_\_ MEDIUM \_\_\_\_ MATRIX: WATER \_\_X\_\_\_ SOIL \_\_\_\_ SLUDGE \_\_\_\_OTHER \_\_\_\_

UG/L OR MG/KG DRY WEIGHT ( CIRCLE ONE )

Instrument Detection T.O.X. Limit

Lancaster Rec SW-4 EW-2503

5 ug/L

Lancaster Rec

PROJECT ID

EW-2503 MS

SAMPLE ID:

60% RECOVERY

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS: BMRL = RESULTS ARE BELOW MINIMUM REPORTING LEVEL

ND = RESULTS ARE NOT DETECTED

LAB MANAGER

## SEDIMENT RESULTS

SAMPLE DATA

\_\_SED-L\_\_

#### ORGANICS ANALYSIS DATA SHEET

( PAGE 1 )

SAMPLE NUMBER

SED - 1

LANCASTER REC.

Case No: ENG SCIENCE

QC Report No: N/A

Contract No: N/A Date Sample Received: 09/10/87

Sample Matrix: SOIL Data Release Authorized By: P. J. L. Yunsch

Laboratory Name: NANCO LABORATORY INC.

Lab File ID No:>B2474

VOLATILE COMPOUNDS

Medium

Concentration:

(Circle One)

Date Extracted/Prepared: 09/11/87

Date Analyzed:09/11/87

Conc/Dil Factor:

5

pH: 7.6

Percent Moisture: 26

îs	ug/l or/ug/Kg	CAS	ug/l or ug/Kg
, mber	( Circle One )	Number	( Circle One.)
74-87-3  Chloromethane	50.0 U	79-34-5   1,1,2,2-Tetrachloroethane	25.0 U
-83-9  Bromomethane	50.0 U	78-87-5   1,2-Dichloropropane	25.0 U
ا -01-4 Vinyl Chloride	50.0 U	10061-02-6  Trans-1,3-Dichloropropene	25.0 U
75-00-3  Chloroethane	50.0 U	79-01-6   Trichloroethene	25.0 U
3-09-2  Methylene Chloride	10.0	124-48-1   Dibromochloromethane	25.0 U
7-64-1 Acetone	460.0 B	79-00-5   1,1,2-Trichloroethane	25.0 U
75-15-0  Carbon Disulfide	34.0	71-43-2   Benzene	11.0 J
175-35-4  1,1-Dichloroethene	25.0 U	10061-01-5  cis-1,3-Dichloropropene	25.0 U
5-34-3  1,1-Dichloroethane	25.0 U	110-75-8   2-Chloroethylvinylether	50.0 U
156-60-5 Trans-1,2-Dichloroethene	25.0 U	75-25-2   Bromoform	25.0 U
67-66-3  Chloroform	25.0 U	591-78-6 2-Hexanone	50.0 U
)7-06-2 1,2-Dichloroethane	25.0 U	108-10-1   4-Methyl-2-Pentanone	50.0 U
3-93-3   2-Butanone	50.0 U	127-18-4   Tetrachloroethene	25.0 U
71-55-6  1,1,1-Trichloroethane	25.0 U	108-88-3   Toluene	25.0 U
'-3-23-5  Carbon Tetrachloride	25.0 U	108-90-7   Chlorobenzene	25.0 U
)8-05-4 Vinyl Acetate	50.0 U	100-41-4   Ethylbenzene	25.0 U
75-27-4  Bromodichloromethane	25.0 U	100-42-5   Styrene	25.0 U
		Total Xylenes	25.0 U

#### Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

by GC/MS

#### VALUE

If the result is a value greater than or equal to the detection. This flag applies to pesticide parameters where the identification

mit, report the value.

Indicates compound was analyzed for but not detected. Report e minimum detection limit for the sample with the U(e.g.10U sed on necessary concentration dilution actions. (This is not This flag is used when the analyte is found in the blank as well necessarily the instrument detection limit.) The footnote should as a sample. It indicates possible/probable blank contamination read U-Compound was analyzed for but not detected. The number is and warns the data user to take appropriate action. e minimum attainable detection limit for the sample.

Indicates an estimated value. This flag is used either when ere a 1 1 response is assumed or when the mass spectral data

timating a concentration for tentatively identified compounds and such description attached to the data summary report.

Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described

has been confirmed by GC/MS Single component pesticides greater

than or equal to 10 ng/ul in the final extract should be confirmed

indicates the presence of a compound that meets the identification This flag denotes that the compound is a spike compound iteria but the result is less than the specified detection limit and was added to the sample prior to analysis. t greater than zero (e.g. 10J).

LABORATORY NAME: NANCO LABS. INC. CASE NO: ENGINEERING SCIENCE LANCASTER REC.

SAMPLE NO. SED-1

## SEMIVOLATILE COMPOUNDS

	Concentration: Low	Medium	(Circle One)	GPC Cleanup: YesNo_X Separatory Funnel Extraction	 · Yes
	Date Extracted/Prepared: 09/16/87			Continuous Liquid - Liquid E.	xtraction: Yes
	Date Analyzed: 09/30/87			Continuous Liquid - Liquid L	X CT do C T O T T
	Conc/Dil Factor:	> 1			
	Percent Moisture:	26			ug/l or ug/K
		ug/l or ug/Kg	CAS		( Circle One )
		( Circle One )	Number		
			1 83-32-9	Acenaphthene	] 330.0 U
1		770.0	51-28-5	2,4-Dinitrophenol	1600.0 U
I	Phenol		100-02-7	4-Nitrophenol	1600.0 0
1	bis(-2-Chloroethyl)Ether	760.0	132-64-9	Dibenzofuran	330.0 U
1	2-Chlorophenol	330.0 U	121-14-2	2.4-Dinitrotoluene	330.0 U
I	1,3-Dichlorobenzene	1 330.0 U	606-20-2	2,6-Dinitrotoluene	330.0 U
١	1,4-Dichlorobenzene	330.0 U	1 84-66-2	Diethylphthalate	330.0 U
.	Benzyl Alcohol		7005-72-3	4-Chlorophenyl-phenylether	330.0 U
. 1	1,2-Dichlorobenzene	330.0 U     330.0 U	86-73-7	fluorene	330.0 U
!	2-Methylphenol	1 :	1 100-01-6	4-Nitroaniline	1600.0 U
,	bis(2-chloroisopropyl)E		534-52-1	4,6-Dinitro-2-Methylphenol	1600.0 U
	4-Methylphenol	330.0 U	86-30-6	N-Nitrosodiphenylamine (1)	330.0 U
	N-Nitroso-Di-n-Propylam		101-55-3	4-Bromophenyl-phenylether	330.0 U
	Hexachloroethane	330.0 U	118-74-1	Hexachlorobenzene	330.0 U
	Nitrobenzene	330.0 U	1 87-86-5	Pentachlorophenol	1600.0 U
	Isophorone	330.0 U	•	Phenanthrene	330.0 U
	2-Nitrophenol	330.0 U	85-01-8	Anthracene	330.0 U
	2,4-Dimethylphenol	330.0 U	120-12-7	Di-n-Butylphthalate	330.0 U
	Benzoic Acid	, 1600.0 U		Fluoranthene	330.0 U
	bis(-2-Chloroethoxy)Met			Pyrene	330.0
	2,4-Dichlorophenol	[ 330.0 U	` : <del>_</del>	Butylbenzylphthalate	330.0 U
	1,2,4-Trichlorobenzene	1 330.0 U	•	3,3'-Dichlorobenzidine	660.0 U
	Naphthalene	330.0 U	•	Benzo(a)Anthracene	330.0 L
	4-Chloroaniline	J 330.0 U	•		
	Hexachlorobutadiene	330.0 U	•	bis(2.Ethylhexyl)Phthalate	330.0 L
	4-Chloro-3-Methylpheno	(   460.0	218-01-9	Chrysene	1 330.0 L
	2-Methylnaphthalene	-   330.0 U		Di-n-Octyl Phthalate	1 330.0 U
	Hexachlorocyclopentadi	ene   330.0 U		Benzo(b)Fluoranthene	1 330.0 (
	2,4,6-Trichtorophenol	330.0 U	•	Benzo(k)Fluoranthene	330.0 (
	2,4,5-Trichlorophenol	1600.0 U	50-32-8	Benzo(a)Pyrene	330.0
	2-Chloronaphthalene	330.0 U		Indeno(1,2,3-cd)Pyrene	1 330.0
	2-Nitroaniline	1600.0 U		Dibenz(a,h)Anthracene	330.0
	Dimethyl Phthalate	330.0 U		Benzo(g,h,i  Perylene	1 330.0
	Acenaphthylene	330.0 U		1	
	3-Nitroaniline	1 1600.0 U		,	
	1 3-Microsimente	1	(1) - Canno	ot be separated from diphenylami	ne

## TABLE 2.5 30890-0092 KNGINERRING SCIENCE EPA TCL PESTICIDES/PCB'S

All results reported as ug/Kg.

## Sample Identification

Dilution Factor	1.00 1.28	
ethod Blank I.D.	1019 1019 -B02 -B02	Lower Limits of
ompound	Method SED-Blank 1	Detection with no Dilution
	ט ט	8.0
alpha_BHC	Ū Ū	8.0
peta BHC	บ บ	8.0
Jelta BHC	บ บ	8.0
gamma BHC	ี บ	8.0
Teptachlor	ū u	8.0
\ldrin Heptachlor Epoxide	σ σ	8.0
Endosulfan I	ט ט	8.0
Dieldrin	σ σ	16 16
4,4' DDE	ប ប	16
Endrin	ប ប	16
Endosulfan II	ប ប	16
4,4' DDD	υ υ	16
Endosulfan Sulfate	ប ប	16
4,4' DDT	<b>U</b>	80
Methoxychlor	<u> </u>	16
Endrin Ketone	U U	80
alpha Chlordane	<u> </u>	80
gamma Chlordane	U U	160
Toxaphene	U U	80
Aroclor - 1016	_	80
Aroclor - 1221	U U	80
Aroclor - 1232	<b>T T</b>	80
Aroclor - 1242	U U	80
Aroclor - 1248	υ <u> </u>	. 160
Aroclor - 1254	U U	160
Aroclor - 1260		

U, J - See Appendix for definition.

SAMPLE NUMBER

SED-1

LABORATORY NAME :NANCO LABS.INC.
CASE NO: ENGINEERING SCIENCE
LANCASTER REC.

#### Tentatively Identified Compounds

	CAS			RT or Scan	
	Number	Compound Name	Fraction	Number	(ug/l or ug/kg)
1 1	110543	HEXANE	VOA	256	27.0 J
2			1	1	
3	35	BENZENE, METHYL	BNA	6	1300.0 J
4	123422	2-PENTANONE,4-HYDROXY-4-METHYL	BNA	129	30000.0 J
5			1	1 1	
6			1		
7					1
8			1	1 1	
9			1		
10					
11			1		
12				1 1	
13			1	!!!	
14			1		
15			ļ	!!!	1
16				!!!	, 1
17			!		ļ
18					
19			ļ		!
20			l '	]	  -
21		<u> </u> 	1	i i	 
22		1	l i	1 1	; !
23		<del>I</del> I	! !	1 1	
25		<b>!</b> !	i 1	1 1	; !
26		1 		1 1	

### INORGANIC ANALYSIS DATA SHEET FORM I

SMPL NO.: SED-1

Lab Name : NANCO LABORATORIES, INC.

Customer Name: Engineering Science

SOW NO. : N/A

Lab Receipt Date: 09/10/87

Lab Sample ID: 87-ES-2442

Date Reported: 10/07/87

MEDIUM

Location ID: Lancaster Rec.

1.00

#### ELEMENTS IDENTIFIED AND MEASURED

		CONCENTRATION :	LOW		
		MATRIX : WATER	SOILX	SLUDGEOTHER	
			UG/L OR MG/KG DRY WEIGHT ( CIRCLE	ONE )	
1.	ALUMINUM	2971.9 P	13. MAGNESIUM	23573.0 P	
2.	ANTIMONY	91.6 P√	14. MANGANESE	278.6 P	
3.	ARSENIC	14.7 F~≭	15. MERCURY	0.1 U C.V.∿	
4.	BARIUM	[ 22.7 ]PN	16. NICKEL	20.8 P	
5.	BERYLLIUM	[ 0.3 ]Pn/	17. POTASSIUM	[ 448.4 ]P	
6.	CADMIUM	2.7 P	18. SELENIUM	1.4 UF ~	
7.	CALCIUM	62179.7 P	19. SILVER	32.2 P №	
8.	CHROMIUM	21.6 P	20. SODIUM		
9.	COBALT	13.5 P		13.5 UFp/	(1:10)
10.	COPPER	13.0 P		( 13.2 JP	
11.	IRON	6979.2 P	23. ZINC		
12.	LEAD	50.0 P	PERCENT SOLIDS (%)	/4.U	
	CYANIDE	NR			
	PHENOL.	NR			

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

comments: The sagle was for made tente and grey in coloration. The sagle became Dift yellow from I spend frame distribution. Il theory: Capita was any gold of a 1:10 delice.

LAB MANAGER

SAMPLE DATA

SED-2\_\_

#### ORGANICS ANALYSIS DATA SHEET

( PAGE 1 )

SAMPLE NUMBER

LANCASTER REC.

SED-2

Laboratory Name: NANCO LABORATORY INC.

Lab File ID No:>B2475

Sample Matrix: SOIL

Data Release Authorized By: Py Junsch

Case No: ENG. SCIENCE QC Report No: N/A Contract No: N/A

Date Sample Received: 09/10/87

VOLATILE COMPOUNDS

Medium

Concentration:

(Circle One)

Date Extracted/Prepared: 09/11/87

Date Analyzed:09/11/87

Conc/Dil Factor:

pH: 7.9

Percent Moisture: 28

CAS	ug/t or /ug/Kg	CAS	ug/l or (ug/Kg
Number	( Circle One )	Number	( Circle One )
74-87-3  Chloromethane	10.0 U	79-34-5   1,1,2,2-Tetrachloroethane	5.0 U
74-83-9 Bromomethane	10.0 U	78-87-5   1,2-Dichloropropane	5.0 U
75-01-4   Vinyl Chloride	10.0 U	10061-02-6 Trans-1,3-Dichloropropene	5.0 U
75-00-3  Chloroethane	10.0 U	79-01-6   Trichloroethene	5.0 U
'75-09-2  Methylene Chloride	2.3 J	124-48-1   Dibromochloromethane	5.0 U
67-64-1   Acetone	22.0 B	79-00-5   1,1,2-Trichloroethane	5.0 U
75-15-0  Carbon Disulfide	5.0 U	71-43-2   Benzene	1.6 J
175-35-4  1,1-Dichloroethene	5.0 U	10061-01-5  cis-1,3-Dichloropropene	5.0 U
75-34-3  1,1-Dichloroethane	5.0 U	110-75-8   2-Chloroethylvinylether	10.0 U
156-60-5 Trans-1,2-Dichloroethene	5.0 U	75-25-2   Bromoform	5.0 U
67-66-3  Chloroform	5.0 U	591-78-6   2-Hexanone	10.0 U
107-06-2 1,2-Dichloroethane	5.0 U	108-10-1   4-Methyl-2-Pentanone	10.0 U
78-93-3   2-Butanone	10.0 U	127-18-4   Tetrachloroethene	5.0 U
71-55-6  1,1,1-Trichloroethane	5.0 U	108-88-3   Toluene	5.0 U
156-23-5   Carbon Tetrachloride	5.0 U	108-90-7   Chlorobenzene	5.0 U
108-05-4 Vinyl Acetate	10.0 U	100-41-4   Ethylbenzene	5.0 U
175-27-4  Bromodichloromethane	5.0 U	100-42-5   Styrene	5.0 U
		Total Xylenes	5.0 U

#### Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE

If the result is a value greater than or equal to the detection. This flag applies to pesticide parameters where the identification imit, report the value.

Indicates compound was analyzed for but not detected. Report he minimum detection limit for the sample with the U(e.g.10U read U-Compound was analyzed for but not detected. The number is and warns the data user to take appropriate action. he minimum attainable detection limit for the sample.

Indicates an estimated value. This flag is used either when stimating a concentration for tentatively identified compounds—and such description attached to the data summary report. here a 1 1 response is assumed or when the mass spectral data

ut greater than zero (e.g. 10J).

ased on necessary concentration dilution actions. (This is not This flag is used when the analyte is found in the blank as well necessarily the instrument detection limit.) The footnote should as a sample. It indicates possible/probable blank contamination

has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed

OTHER

by GC/MS

Other specific flags and tootnotes may be required to properly define the results. If used, they must be fully described

indicates the presence of a compound that meets the identification This flag denotes that the compound is a spike compound riteria but the result is less than the specified detection limit and was added to the sample prior to analysis.

LABORATORY NAME: NANCO LABS. INC.
CASE NO: ENGINEERING SCIENCE
LANCASTER REC.

SAMPLE NO. SED-2

### SEMIVOLATILE COMPOUNDS

Concentration:	^	SEMIVOL	ATILE COMPOUNDS	•	
er	Concentration:  Date Extracted/Prepared: 09/16/87	edium (Circ	cle One)	Separatory Funnel Extractions Continuous Liquid - Liquid Extrac	or (ug/Kg)
er	conc/Dil Factor:		CAS	( C	ircle one
83.32-9	Percent Moisture:	or ug/Kg			
	( Ci	rcle One		1	
330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.	er		83-32-9	Acenaphtherio	
			51-28-5	2,4-billiophil	
330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.	1	770 0 11 1	1 100-02-7	1 p:hopzofuran	
1	2   Phenol	330.001	132-64-9	Diperizoraluene	
1,3-0ichlorobenzene	44-4   bis(-2-Chloroethy)	330.0 0 1	1 121-14-2	2,4-binitrotoluene	
1,4-Dichlorobenzene	i a chi arantello	330.0 0 1	606-20-2		
Benzyl Alcohol   330.0 U   86-73-7   Fluorene   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.0 U   1600.	1 1,3-Dichloropenzene	330.0 0 1	84-66-2	Diethytphenyl-phenylether	
Si-6	46-7 1.4-Dichlorobenzen	330.00	7005-72-3	4-Cittoropius	
2-Methylphenol   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U			86-73-7	"niline	
330.0 U   36-30-6   N-Nitrosodiphenylamine   330.0 U   36-30-6   N-Nitrosodiphenylamine   330.0 U   36-30-6   N-Nitrosodiphenylamine   330.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U   30.0 U			100-01-6	' - : + no.2-Methylphenol	
38-32-9	2-Methylphenot		534-52-1	in the accident of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of th	
N-Nitroso-Di-n-Propytamine   330.0 U   118-74-1   Hexachlorobenzene   1600.0 U   120-12-7   Nitrobenzene   330.0 U   87-86-5   Pentachlorophenol   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U			86-30-6	N-Nitrosani - phenylether	
Nitrobenzene   330.0 U   87-86-5   Pentactio opinion   330.0 U   87-86-5   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-8   Phenanthrene   330.0 U   85-01-18   Phenanthrene   330.0 U   85-01-18   Phenanthrene   330.0 U   85-01-18   Phenanthrene   330.0 U   85-01-18   Phenanthrene   330.0 U   85-01-18   Phenanthrene   330.0 U   85-01-18   Phenanthrene   330.0 U   85-01-18   Phenanthrene   330.0 U   85-01-18   Phenanthrene   330.0 U   85-01-18   Phenanthrene   330.0 U   85-01-18   Phenanthrene   330.0 U   85-01-18   Phenanthrene   330.0 U   85-01-18   Phenanthrene   330.0 U   85-01-18   Phenanthrene   330.0 U   85-01-18   Phenanthrene   330.0 U   85-01-18   Phenanthrene   330.0 U   85-01-18   Phenanthrene   330.0 U   85-01-18   Phenanthrene   330.0 U   85-01-18   Phenanthrene   330.0 U   85-01-18   Phenanthrene   330.0 U   85-01-18   Phenanthrene   330.0 U   85-01-18   Phenanthrene   330.0 U	5   4-Methylphenot		101-55-3	4-Bi Glophenzene	
Nitrobenzene   330.0 U   87-01-8   Phenanthrene   330.0 U   85-01-8   Anthracene   330.0 U   120-12-7   Di-n-Butylphthalate   330.0 U   120-12-7   Di-n-Butylphthalate   330.0 U   120-12-7   Di-n-Butylphthalate   330.0 U   120-12-7   Di-n-Butylphthalate   330.0 U   120-12-7   Di-n-Butylphthalate   330.0 U   120-12-7   Di-n-Butylphthalate   330.0 U   120-12-7   Di-n-Butylphthalate   330.0 U   120-12-7   Di-n-Butylphthalate   330.0 U   120-12-7   Di-n-Butylphthalate   330.0 U   120-12-7   Di-n-Butylphthalate   330.0 U   120-12-7   Di-n-Butylphthalate   330.0 U   120-12-7   Di-n-Butylphthalate   330.0 U   120-12-7   Di-n-Butylphthalate   330.0 U   120-12-7   Di-n-Butylphthalate   330.0 U   120-12-7   Di-n-Butylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-Detylphthalate   330.0 U   120-12-7   Di-n-	7 N-Nitroso-Dim	330.001		Hexacitor on the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexacitor of the Hexaci	
Nitrobelized   330.0 U   85-01-8   Anthracene   330.0 U   75-5   2-Nitrophenol   330.0 U   84-74-2   Di-n-Butylphthalate   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   3	1 Hexachtol Oction	330.0 0 1	87-86-5	pentacitoro	
1   1   1   1   1   1   1   1   1   1	Nitropenzeno	330.001	85-01-8	phenantin	
2,4-Dimethylphenol   1600.0 U   206-44-0   Fluoranthene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   330.0 U   206-44-0   Pyrene   206-44-0   Pyrene   206-44-0   Pyrene   206-44-0   Pyrene   206-44-0   Pyrene   206-44-0   Pyrene   206-44-0   Pyrene   206-44-0   Pyrene   206-44-0   Pyrene   206-44-0   Pyrene   206-44-0   Pyrene   206-44-0   Pyrene   206-44-0   Pyrene   206-44-0   Pyrene   206-44-0   Pyrene   206-44-0   Pyrene   206-44-0   Pyrene   206-44-0   Pyrene   206-44-0   Pyrene   206-44-0   Pyrene   206-44-0   Pyren	. I I sophorone	330.001	120-12-7	Anthiacono	
30.0 U   208-44   330.0 U   208-44   330.0 U   208-44   330.0 U   208-44   330.0 U   209-00-0   Pyrene   330.0 U   209-00-0   Butylbenzylphthalate   660.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0		330.00	84-74-2		770 0 11 1
330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0			206-44-0	•	770 0 11 1
-83-2   2,4-Dichlorophelot   330.0 U     91-94-1   3,31-Dichlorophelot   330.0 U	Benzoic Acid	330.001	129-00-0	numy benzylph thalate	330.001
-83-2   1,2,4-Trichlorobenzene   330.0 U   56-55-3   Benzo(a)Anthracene   330.0 U   23   Naphthalene   330.0 U   117-81-7   bis(2-Ethylhexyl)Phthalate   330.0 U   218-01-9   Chrysene   330.0 U   218-01-9   Di-n-Octyl Phthalate   330.0 U   330.0 U   217-84-0   Di-n-Octyl Phthalate   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330	bis(-2-Chloroethern)	770.011	85-68-7	gutytsein, in Butytseine	
2 3   Naphthalene   330.0 0     117-81-7   bis(2-Ethythos)   330.0 0	-83-2   2,4-Dichtorophenzene	770.011	91-94-1	Anthracene	1
2 3   4-Chloroaniline   330.0 U   218-01-9   Chrysene   330.0 U   68-3   Hexachlorobutadiene   330.0 U   117-84-0   Di-n-Octyl Phthalate   330.0 U   117-84-0   Benzo(b)Fluoranthene   330.0 U   205-99-2   Benzo(b)Fluoranthene   330.0 U   205-99-2   Benzo(b)Fluoranthene   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0 U   330.0	1.2,4-Trichtoros	330.00	1 20-77 7	' a cabulhexv()Phthalace	770 0 11 1
68-3   Hexachlorobutadiene   330.0 U   218-01-9   Cliny-Octyl Phthalate   330.0 U   117-84-0   Di-n-Octyl Phthalate   330.0 U   330.0 U   205-99-2   Benzo(b)Fluoranthene   330.0 U   205-99-2   Benzo(k)Fluoranthene   330.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U   370.0 U	l Naphthaleire		1 117-81-		330.001
68-3   4-Chloro-3-Methylphenol   330.0 U     117-54   Benzo(b)Fluoranthene   330.0 U		330.00	1 ( ) ( ) ( )	' hand phthalate	
5 7 1 The halene Translation Translation Translation Translation Translation	68-3   Hexachtorobutas	330.00	1 111,000	histogranthene	
2-Methylnapritides 330.0 1 207-08-9 Benzota	' ' Lehalene	1 770 0 11	1 203-77	- ' ALLE LUCTANT NENE	
770 0 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 6   2-Methylnaphiliatema	330.0 U	1 201 00	nanzo(a)Pyrene	330.0 U
4400 0 U 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	41 " raich i or oblicios	330.00	, 1 50-32	indeno(1,2,3-cd)Pyrene	
C'2   The prophenol   770 0 11   Pripanz (a, h) Anthracette   770 0 11	C' 2 1 2,4,6-Trichtorophenol	7500.0	1 1 193.3.	nibonz(a,h)Anthracene	330.0 0 1
.c 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 4 2,4,5-Trichio opinio		1 22-10	- h i)perviene	330.00
2-chloronaphthatens   1600.0 0   191-24-2   Benzo(9,11,17)	58-7 2-Chloronapiting			4-2   Berizotsiiii	
7/-/ 2-Nitroanitile 330.00	i a witcoaturii.				
1 Dimethyl Pitcher	pimethyl Philade		11 1	annated from diphenylam	iine
Acenaphthylene 1600.0 U (1) - Cannot be separated from diphenytamine	1 Acenabile 17	1600.0	(1) -	Cannot be separated	
3. 3-8   3. Nitroaniline (1) - Callet - (1) - Callet - (1) - Callet - (1) - Callet - (1) - Callet - (1) - Callet - (1) - Callet - (1) - Callet - (1) - Callet - (1) - Callet - (1) - Callet - (1) - Callet - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) - (1) -			1		

#### TABLE 2.5 30890-0092 ENGINEERING SCIENCE EPA TCL PESTICIDES/PCB'S

All results reported as ug/Kg.

### Sample Identification

bion Factor  Blank I.D.	1.00 1019 -BO2 Method	1.25 1019 -B02 SED-	Lower Limits of Detection with no Dilution
a BHC HC a BHC a BHC a BHC a BHC c hlor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d hor d	Blank UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	2	8.0 8.0 8.0 8.0 8.0 8.0 8.0 16 16 16 16 16 16 16 80 80 160 80 80 80 80 80 80 80 80 80 80 80 80 80

<sup>3 -</sup> See Appendix for definition.

### ORGANICS ANALYSIS DATA SHEET ( PAGE 4 )

SAMPLE NUMBER SED-2

LABORATORY NAME :NANCO LABS.INC.
CASE NO: ENGINEERING SCIENCE
LANCASTER REC.

#### Tentatively Identified Compounds

				RT or Scar	Estimated Concentration
	CAS				
	Number	Compound Name	Fraction	Number	(ug/l or ug/Kg)
				1	
I	1	NONE FOUND	VOA		
I	2	<u> </u>	1	1 40	
ļ	3 35	BENZENE, METHYL	BNA	12	8100.0 J
1	4	UNKNOWN ALKENE	BNA	64	7200.0 J
1	5	UNKNOWN	BNA	88	1300.0 J
	6 123422	2-PENTANONE, 4-HYDROXY, 4-METHYL	BNA	127	29000.0 J
1	7 123422	2-PENTANONE, 4-HYDROXY, 4-METHYL	BNA	132	15000.0 J
	8 691372	1-PENTENE,4-METHYL	BNA	156	1400.0 J
1	9	UNKNOWN ALKANE	BNA	165	1800.0 J
1	10		1		1
Ì	11		1		1
i	12		1		1
i	13				1
i	14	İ	Ì	İ	1
i	15	İ	i	i	1
i	16			i	i . i
ì	17	İ	i	i	i
1	18	' 	i	i	i
1	19	1	i	i	i
i	20	! 	- 1	i	i i
1	21	1 [	1	i	i
1	22	! 	1	i	i
1	23	! 	İ	1	, 
1	24	1	i		, '
1	25	[ 	1	i	, , , 
l l	26	1	1	1	
1	20	1	1	ı	1

#### INORGANIC ANALYSIS DATA SHEET FORM I

SMPL NO.: SED-2

Lab Name : NANCO LABORATORIES, INC.

Customer Name: Engineering Science

SOW NO. : N/A

ALUMINUM

INTIMONY

ARSENIC

BARIUM

BERYLLIUM

CADMIUM

CALCIUM

: CHROMIUM

COBALT

COPPER

CYANIDE

PHENOL

11. IRON

1: LEAD

9634.4 P

82.8 P

MR. U.I U

Cys

Lab Receipt Date: 09/10/87

MEDIUM \_\_\_\_

183.3 P

72.0

Lab Sample ID: 87-ES-2443

Date Reported: 10/07/87

Location ID: Lancaster Rec.

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION :	romx	MEDIUM	
MATRIX : WATER	SOILX	SLUDGEOTHER	
	UG/L OR MG/KG DRY WEIGHT	CIRCLE ONE )	
5028.1 P	13. MAC	SNESIUM 34162.8 P	
74.7 PN	14. MAI	NGANESE 282.2 P	
7.6 SF~★	(1:5) 15. ME	RCURY 0.1 U C.V. N	
55.6 PN	16. NI	CKEL 16.9 P	
[ 0.3 ]P N	17. PO	TASSIUM [ 1008.1 ]P	
9.4 P	18. SE	LENIUM 13.9 UF $\sim$	(1:10)
67846.1 P	19. SI	LVER 46.9 PW	
18.3 P	20. \$0	DOIUM [ 640.3 ]P	
15.8 P	21. TF	IALLIUM 1.4 UF N	
14.4 P	22. V	NADIUM 14.7 P	

23. ZINC

PERCENT SOLIDS (%)

FIGTHOTES: FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS: The single was for first textee of house a colorida.

The single was life for the I go of flume dyna procedure. As in algorid is it is

that I was also and Se ma analysis is also

LAB MANAGER



SAMPLE DATA

SED-3

#### ORGANICS ANALYSIS DATA SHEET

\_ ( PAGE 1 )

LANCASTER REC.

SAMPLE NUMBER

SED-3

latinatory Name: NANCO LABORATORY INC.

.ab File ID No:>B2482 la le Matrix: SOIL

Release Authorized By:

Case No: ENG. SCIENCE

QC Report No: N/A Contract No: N/A

Date Sample Received: 09/10/87

VOLATILE COMPOUNDS

Concentration:

Low

Medium

(Circle One)

Date Extracted/Prepared: 09/12/87

Date Analyzed:09/12/87

Conc/Dil Factor:

pH: 7.6

Percent Moisture: 24

	ug/l or ug/Kg	CAS	ug/l or ug/Kg
	( Circle One )	Number	( Circle One )
oromethane momethane vinyl Chloride C'ioroethane Minylene Chloride Acetone Carbon Disulfide -Dichloroethane Trans-1,2-Dichloroethane Coroform -Coroform -Coromethane 1,1-Trichloroethane 1,1-Trichloroethane Coronethane Coromethane Coroform -Coromethane Coroform -Coromethane Coroform -Coromethane Coroform -Coromethane Coroform -Coromethane Coromethane Coromethane Coromethane Coromethane Coromethane Coromethane Coromethane	10.0 U     10.0 U     10.0 U     10.0 U     10.0 U     1.6 J     50.0 B     5.0 U     5.0 U     5.0 U     5.0 U     5.0 U     5.0 U     5.0 U     5.0 U     5.0 U     5.0 U     5.0 U     5.0 U	79-34-5	5.0 U     5.0 U     5.0 U     5.0 U     35.0     5.0 U     5.0 U     42.0     5.0 U     10.0 U     10.0 U     10.0 U     5.0 U     5.0 U     5.0 U     5.0 U     5.0 U     5.0 U     5.0 U

#### Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

f 't the value.

t is a value greater than or equal to the detection. This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed

by GC/MS

mpound was analyzed for but not detected. Report

 $\pi$  detection limit for the sample with the U(e.g.10U necessary concentration dilution actions. (This is not This flag is used when the analyte is found in the blank as well Have the instrument detection limit.) The footnote should as a sample. It indicates possible/probable blank contamination

or bund was analyzed for but not detected. The number is and warns the data user to take appropriate action.

own attainable detection limit for the sample.

s in estimated value. This flag is used either when

α, a concentration for tentatively identified compounds—and such description attached to the data summary report. 1.1 response is assumed or when the mass spectral data

OTHER Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described

s he presence of a compound that meets the identification This flag denotes that the compound is a spike compound t the result is less than the specified detection limit and was added to the sample prior to analysis. ter than zero (e.g. 10J).

### ORGANIC ANALYSIS DATA SHEET ( PAGE 2 )

LABORATORY NAME: NANCO LABS. INC.
CASE NO: ENGINEERING SCIENCE
LANCASTER REC.

SAMPLE NO. SED-3

#### SEMIVOLATILE COMPOUNDS

	Concentration: ( Low/	Medium	(Circle One)	GPC Cleanup: Yes No_X		
Date Extracted/Prepared: 09/16		6/87		Separatory Funnel Extraction: Yes		
Date Analyzed: 10/01/87				Continuous Liquid - Liquid Extraction: Yes_		
	Conc/Dil Factor:	. 1 _	_			
	Percent Moisture:	24	)		/	
		ug/l or ug/Kg	CAS		ug/l or ug/Kg	
ær		( Circle One )	Number		( Circle One )	
			83-32-9	Acenaphthene	330.0 U	
, 3	i I Dhamai		51-28-5	2.4-Dinitrophenol	1600.0 U	
-\$ -2	Phenol	330.0 U	100-02-7	4-Nitrophenol	1600.0 U	
44-4	bis(-2-Chloroethyl)Ether	330.0 U	1 132-64-9	Dibenzofuran	330.0 U	
₩ 3	2-Chlorophenol	330.0 U	121-14-2	2.4-Dinitrotoluene	330.0 U	
·, ·1	1,3-Dichlorobenzene	330.0 U	1 606-20-2	2,6-Dinitrotoluene	330.0 U	
-46-7	1,4-Dichlorobenzene	'	84-66-2	Diethylphthalate	330.0 U	
51-6	Benzyl Alcohol	330.0 U	7005-72-3	4-Chlorophenyl-phenylether	330.0 U	
51 · ]	1,2-Dichlorobenzene	330.0 U	•	Fluorene	330.0 U	
il 7	2-Methylphenol	330.0 U	86-73-7	4-Nitroaniline	1 1600.0 U	
8-32-9	bis(2-chloroisopropyl)Ether	330.0 U	100-01-6	•	1600.0 U	
5	4-Methylphenol	330.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	330.0 U	
· · · 7	N-Nitroso-Di-n-Propylamine	330.0 U	86-30-6	N-Nitrosodiphenylamine (1)	330.0 U	
72-1	Hexachloroethane	330.0 U	101-55-3	4-Bromophenyl-phenylether	•	
9F 3	Nitrobenzene	330.0 U	118-74-1	Hexachtorobenzene	330.0 U	
51, 1	Isophorone	330.0 U	87-86-5	Pentachlorophenol	1600.0 U	
<b>プ</b> ラ・5	2-Nitrophenol	330.0 U	85-01-8	Phenanthrene	330.0 U	
-67-9	2,4-Dimethylphenol	330.0 U	120-12-7	Anthracene	330.0 U	
3 <b>0</b>	Benzoic Acid	1600.0 U	84-74-2	Di-n-Butylphthalate	330.0 U	
- 1	bis(-2-Chloroethoxy)Methane	330.0 U	206-44-0	Fluoranthene	330.0 U	
-83-2	2,4-Dichlorophenol	330.0 U	129-00-0	Pyrene	330.0 U	
.07.1	1,2,4-Trichlorobenzene	330.0 U	85-68-7	Butylbenzylphthalate	330.0 U	
2 3	Naphthalene	330.0 U	91-94-1	3,3'-Dichlorobenzidine	660.0 U	
-47-8	4-Chloroaniline	330.0 U	56-55-3	Benzo(a)Anthracene	330.0 U	
68-3	Hexachlorobutadiene	330.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	330.0 U	
5 7	4-Chloro-3-Methylphenol	330.0 U	218-01-9	Chrysene	330.0 U	
6 6	2-Methylnaphthalene	330.0 U	117-84-0	Di-n-Octyl Phthalate	330.0 U	
47-4	Hexachlorocyclopentadiene	330.0 U	205-99-2	Benzo(b)Fluoranthene	330.0 U	
01.2	2,4,6-Trichlorophenol	330.0 U	207-08-9	Benzo(k)Fluoranthene	330.0 U	
4	2,4,5-Trichlorophenol	1600.0 U	50-32-8	Benzo(a)Pyrene	330.0 U	
58-7	2-Chloronaphthalene	330.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	330.0 U	
74-4	2-Nitroaniline	1600.0 U	53-70-3	Dibenz(a,h)Anthracene	330.0 U	
1-3	Dimethyl Phthalate	330.0 U	191-24-2	Benzo(g,h,i)Perylene	330.0 U	
3 . 3-8	Acenaphthylene	330.0 U				
09-2	3-Nitroaniline	1 1600.0 U				

#### TABLE 2.5 30890-0092 ENGINEERING SCIENCE EPA TCL PESTICIDES/PCB'S

All results reported as ug/Kg.

### Sample Identification

tion Factor  O Blank I.D.	1.00 1019 -B02	1.47 1019 -B02	Lower Limits of
c nd	Method Blank	SED- 3	Detection with no Dilution
a BHC  BHC  BHC  BHC  BHC  BHC  Chlor  ACHO  Chlor  Chlor  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane  Chlordane	ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם	מטישטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט	8.0 8.0 8.0 8.0 8.0 8.0 8.0 16 16 16 16 16 16 80 80 80 80 80 80 80 160 160
CLOT - 1260	σ	Ū	.a. 🗸 🗸

<sup>: -</sup> See Appendix for definition.

SAMPLE NUMBER

SED-3

LABORATORY NAME :NANCO LABS.INC.
CASE NO: ENGINEERING SCIENCE
LANCASTER REC.

#### Tentatively Identified Compounds

		CAS			RT or Scan	/
		Number	Compound Name	Fraction	Number	(ug/l or ug/Kg)
1	1		UNKNOWN	VOA	229	61.0 J
i	2			[	1	
İ	3	33	BENZENE, METHYL	BNA	11	8500.0 J
i	4	10098	BUTANE	BNA	88	1200.0 J
ĺ	5	123422	2-PENTANONE, 4-HYDROXY-4-METHYL	BNA	131	40000.0 J
ĺ	6	691372	1-PENTENE,4-METHYL	BNA	155	1400.0 J
1	7		UNKNOWN	BNA	164	1900.0 J
1	8		1	1		1
	9			1	1 1	
į	10		İ	l		
	11			1	1 1	1
-	12			1		
	13		1	1	1	
-	14				1	
-	15			1		
1	16			•		· •
1	17		1	1	1	!
1	18			1	1	1
-	19			1		
-	20			1	!	!
1	21		1	1	1	!
1	22		1		Ţ	1
١	23			!	!	
1	24		1	!	1	
	25		1			
	26	1		I	ļ	1

### INORGANIC ANALYSIS DATA SHEET FORM I

SMPL NO.: SED-3

Lab Name : NANCO LABORATORIES, INC.

Customer Name: Engineering Science

SOW NO. : N/A

Lab Receipt Date: 09/10/87

Lab Sample ID: 87-ES-2444

Date Reported: 10/07/87

Location ID: Lancaster Rec.

#### ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION: LOW \_X \_\_\_ MEDIUM \_\_\_\_\_

MATRIX: WATER \_\_\_\_ SOIL \_X \_\_ SLUDGE \_\_\_OTHER \_\_\_\_\_

### UG/L OR MG/KG DRY WEIGHT ( CIRCLE ONE )

1.	ALUMINUM	7782.1 P		13. MAGNESIUM	23548.2 P	
2.	ANTIMONY	92.4 P~		14. MANGANESE	462.4 P	
3.	ARSENIC	15.3 F~★	(1:10)	15. MERCURY	0.1 U C.V. №	
4.	BARIUM	60.3 PM		16. NICKEL	33.2 P	
5.	BERYLLIUM	[ 0.5 ]P N		17. POTASSIUM	[ 1265.8 ]P	
6.	CADMIUM	4.2 P		18. SELENIUM	13.2 UF ~	(1:10)
7.	CALCIUM	69306.6 P		19. SILVER	33.4 P~	
8.	CHROMIUM	25.0 P		20. SODIUM	258.2 UP	
9.	COBALT	17.9 P		21. THALLIUM	1.3 UF N	
10.	COPPER	20.0 P		22. VANADIUM	22.6 P	
11.	IRON	16075.0 P		23. ZINC	69.5 P	
12.	LEAD	52.1 P		PERCENT SOLIDS (%)	76.0	
	CYANIDE	NR				
	PHENOL	NR				

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS: This sample we be fire tentile and grey in coloration.
The sample remained yes fite I of and former dyester

procedures. As, Se were andagged it

(1:10) black

LAB MANAGER

SAMPLE DATA

Sed-4 Lancaster Rec.

### ORGANICS ANALYSIS DATA SHEET

(PAGE 1)

SAMPLE NUMBER

Laboratory Name: NANCO LABORATORY INC.

Lab File ID No:>B2514

Sample Matrix: SOIL

Data Release Authorized By

Case No: ENGINEERING SCIENCE

SED-4

LANCASTER REC.

QC Report No: N/A Contract No: N/A

Date Sample Received: 09/11/87

VOLATILE COMPOUNDS

Concentration:

Medium

(Circle One)

Date Extracted/Prepared: 09/14/87

Date Analyzed:09/14/87

Conc/Dil Factor:

1

pH: 8.3

Percent Moisture: 30

ι <b>S</b>	ug/l or (ug/Kg)	CAS		ug/l or (ug/Kg)
a >r	( Circle One )	Number		( Circle One )
-87-3  Chloromethane	10.0 U	79-34-5   1,1,2,2-Tet	trachloroethane	5.0 U
3-9  Bromomethane	10.0 U	78-87-5   1,2-Dichlor	ropropane	5.0 U
5 1-4   Vinyl Chloride	10.0 U	10061-02-6  Trans-1,3-0	Dichloropropene	5.0 U
3-00-3  Chloroethane	10.0 U	79-01-6   Trichloroe	thene	5.0 U
5-09-2   Methylene Chloride	2.3 JB	124-48-1   Dibromochio	oromethane	5.0 U
7 3-1 Acetone	110.0 в	79-00-5   1,1,2-Trick	hloroethane	5.0 U
5-15-0  Carbon Disulfide	9.6	71-43-2   Benzene		5.0 U
5-35-4  1,1-Dichloroethene	i 5.0 U i	10061-01-5  cis-1,3-Die	chloropropene	5.0 U
5 4-3  1,1-Dichloroethane	i 5.0 U i	110-75-8   2-Chloroet	hylvinylether	10.0 U
5( 50-5 Trans-1,2-Dichloroethene	5.0 U	75-25-2   Bromoform		5.0 U
7-66-3  Chloroform	i 5.0 U i	591-78-6   2-Hexanone		10.0 U
0 06-2 1,2-Dichloroethane	1 5.0 U I	108-10-1   4-Methyl-2	-Pentanone	10.0 U
8 3-3  2-Butanone	i 10.0 U i	127-18-4   Tetrachlor	oethene	5.0 U
1-55-6  1,1,1-Trichloroethane	1 5.0 U I	108-88-3   Toluene		5.0 U
6-23-5  Carbon Tetrachloride	1 5.0 U	108-90-7   Chlorobenz	ene	5.0 U
0 05-4 Vinyl Acetate	10.0 U	100-41-4   Ethylbenze		5.0 U
5-27-4  Bromodichloromethane	5.0 U	100-42-5   Styrene		5.0 U
> 2. 1   1   0   10   10   10   10   10   1	11	Total Xyle	enes	5.0 U

#### Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

MUE

in :, report the value.

ndicates compound was analyzed for but not detected. Report ninimum detection limit for the sample with the U(e.g.10U ead U-Compound was analyzed for but not detected. The number is and warns the data user to take appropriate action. in linimum attainable detection limit for the sample.

idicates an estimated value. This flag is used either when s pating a concentration for tentatively identified compounds and such description attached to the data summary report. he e a 1 1 response is assumed or when the mass spectral data ndicates the presence of a compound that meets the identification ritaria but the result is less than the specified detection limit it ireater than zero (e.g. 10j).

the result is a value greater than or equal to the detection. This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

if I on necessary concentration dilution actions. (This is not This flag is used when the analyte is found in the blank as well ecessarily the instrument detection limit.) The footnote should as a sample. It indicates possible/probable blank contamination

OTHER

Other specific flags and footnotes may be required to properly edefine the results. If used, they must be fully described

### ORGANIC ANALYSIS DATA SHEET ( PAGE 2 )

LABORATORY NAME: NANCO LABS. INC. CASE NO: ENGINEERING SCIENCE

SAMPLE NO.

SED-4

LANCASTER REC.

#### SEMIVOLATILE COMPOUNDS

	Concentration: Low				
	Date Extracted/Prepared: 09/16	/87		Separatory Funnel Extraction:	
	Date Analyzed: 09/23/87			Continuous Liquid - Liquid Ex	traction: Yes
	Conc/Dil Factor:>	1			
	Percent Moisture: 30				
	u	ig/l or ug/Kg	CAS		ug/l or (ug/K
	(	Circle One )	Number		( Circle One-)
	1		83-32-9	Acenaphthene	330.0 U
	Phenol	330.0 U	51-28-5	2,4-Dinitrophenol	1600.0 U
	bis(-2-Chloroethyl)Ether	330.0 U	100-02-7	4-Nitrophenol	1600.0 U
	2-Chlorophenol	330.0 U	132-64-9	Dibenzofuran	330.0 U
	1,3-Dichlorobenzene	330.0 U	121-14-2	2,4-Dinitrotoluene	330.0 U
	1,4-Dichlorobenzene	330.0 U	606-20-2	2,6-Dinitrotoluene	330.0 U
,	Benzyl Alcohol	330.0 U	84-66-2	Diethylphthalate	330.0 U
	1,2-Dichlorobenzene	330.0 U	7005-72-3	4-Chlorophenyl-phenylether	330.0 U
	2-Methylphenol	330.0 U	86-73-7	Fluorene	330.0 U
-9	bis(2-chloroisopropyl)Ether	330.0 U	100-01-6	4-Nitroanilîne	1600.0 U
	4-Methylphenol	330.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	1600.0 U
	N-Nitroso-Di-n-Propylamine	330.0 U	86-30-6	N-Nitrosodiphenylamine (1)	330.0 U
	Hexachloroethane	330.0 U	101-55-3	4-Bromophenyl-phenylether	330.0 U
	Nitrobenzene	330.0 U	118-74-1	Hexachlorobenzene	330.0 U
	Isophorone	330.0 U	87-86-5	Pentachlorophenol	1600.0 U
	2-Nitrophenol	330.0 U	85-01-8	Phenanthrene	330.0 U
	2,4-Dimethylphenol	330.0 U	120-12-7	Anthracene	330.0 U
	Benzoic Acid	1600.0 U	84-74-2	Di-n-Butylphthalate	330.0 U
	bis(-2-Chloroethoxy)Methane	330.0 U	206-44-0	Fluoranthene	330.0 U
	2,4-Dichlorophenol	330.0 U	129-00-0	Pyrene	330.0 U
	1,2,4-Trichlorobenzene	330.0 U	85-68-7	Butylbenzylphthalate	330.0 U
	Naphthalene	330.0 U	91-94-1	3,3'-Dichlorobenzidine	660.0 U
;	4-Chloroaniline	330.0 U	56-55-3	Benzo(a)Anthracene	330.0 U
	Hexachlorobutadiene	330.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	250.0 J
	4-Chloro-3-Methylphenol	330.0 U	218-01-9	Chrysene	330.0 U
	2-Methylnaphthalene	330.0 U	117-84-0	Di-n-Octyl Phthalate	330.0 U
	Hexachtorocyclopentadiene	330.0 U	205-99-2	Benzo(b)Fluoranthene	330.0 U
	2,4,6-Trichlorophenol	330.0 U	1 207-08-9	Benzo(k)Fluoranthene	330.0 U
	2,4,5-Trichtorophenol	1600.0 U	50-32-8	Benzo(a)Pyrene	270.0 JB
	2-Chloronaphthalene	330.0 U	1 193-39-5	Indeno(1,2,3-cd)Pyrene	330.0 U
	2-Nitroaniline	1600.0 U	53-70-3	Dibenz(a,h)Anthracene	330.0 U
	'	330.0 U	1 191-24-2	Benzo(g,h,i)Perylene	330.0 U
,	Dimethyl Phthalate	•	1 171-64-6	1 000120(3)(1)(1)(0)(0)	1
3	Acenaphthylene     3-Nitroaniline	330.0 U   1600.0 U			

#### TABLE 2.6 30890-0092 KNGINKKRING SCIKNCK KPA TCL PESTICIDES/PCB'S

All results reported as ug/Kg.

### Sample Identification

lution Factor	$\begin{array}{c c} 1.00 & 1.75 \\ \hline 1019 & 1019 \end{array}$	·
t od Blank I.D.	_BO2 _B02	Lower Limits of
r jound	Method SED-Blank 4	Detection with no Dilution
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J - See Appendix for definition.

SAMPLE NUMBER

LABORATORY NAME : NANCO LABS.INC.

CASE NO: ENGINEERING SCIENCE

SED-4 LANCASTER REC.

#### Tentatively Identified Compounds

				Estimated
CAS			RT or (Scan	/ -
Number	Compound Name	Fraction	Number	(ug/l or (ug/Kg))
1 67641	2-PROPANONE	[VOA	100	13.0 J
2	1			!
3	1	1		1
4	1	1	! !	
5	1	1		
6 123422	2   2-PENTANONE, 4-HYDROXY-4-METHYL	BNA	80	66000.0 J
7	UNKNOWN ALKANE	BNA	93	2100.0 J
8 10544500	)   SULFUR, MOL. (S8)	BNA	1119	1400.0 J
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### INORGANIC ANALYSIS DATA SHEET FORM I

SMPL NO.: SED-4

Lab Name : NANCO LABORATORIES, INC.

Customer Name: Engineering Science

SOW NO. : N/A

Lab Receipt Date: 09/11/87

Lab Sample ID: 87-ES-2504

Date Reported:

Location ID: Lancaster Rec

#### ELEMENTS IDENTIFIED AND MEASURED

MEDIUM \_\_\_\_\_ CONCENTRATION : LOW \_\_\_X\_\_\_ SLUDGE \_\_\_\_OTHER \_\_\_\_ MATRIX: WATER \_\_\_\_\_ SOIL \_\_X\_\_ UG/L OR MG/KG DRY WEIGHT ( CIRCLE ONE ) 13. MAGNESIUM 52252.9 P 7346.9 P 1. ALUMINUM 14. MANGANESE 1139.3 P N 2. ANTIMONY 37.7 PN 15. MERCURY 0.1 U C.V. N 3. ARSENIC 8.6 UF N (1:10) 16. NICKEL 20.6 P N 4. BARIUM [ 52.6 ]P N 17. POTASSIUM 1814.6 P 5. BERYLLIUM [ 0.3 ]PIN 14.3 UF 🚫 (1:10)18. SELENIUM 4.6 PN 6. CADMIUM 63542.0 PAT MW 19. SILVER 42.6 P 7. CALCIUM 20. SODIUM 280.3 P 8. CHROMIUM 22.3 PN 21. THALLIUM 1.4 UFN 14.3 P N 9. COBALT 14.9 PNE 22. VANADIUM 13.1 PNIF 10. COPPER 92.0 PNE 23. ZINC 11. IRON 14417.7 P 14.2 FNX PERCENT SOLIDS (%) 70.0 12. LEAD 0.1 U N CYANIDE PHENOL

FOOTNOTES: FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS: The series was about the texture of the series were the series was the series when the series were the series with the series was the series with the series with the series with the series was the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the

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Site (uncasky Rec. NYSDEC Site No.		Date:)	0 130/87
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Samplers: Lil Dokson	of ES		
Jack Kuhn	of ES	kalitika ediliteridi.	
Initial Static Water Level	• • • • • • • • • • • • • • • • • • •	28.00'	
_vacuation:	Wel	l Volume Calculation:	
Using: Submersible Centrifugal		17 ft. of water x .16	= 1.2 gals.
Airlift Positive Displacement	3" Casing:	ft. of water x .36	gals.
BailedTimes	4" Casing:	ft. of water x .36 : ft. of water x .65 :	gals.
Depth to intake from top of protective well casing 35.4			
olume of Water removed Gals. (> 3 Well			
Sampling: Time //:20		•	
Sampling: Time $1/.20$	- 4 3 tm		
	Lip.m.	•	
Baller Type: Stainless Steel			
Teflon			
From Pos. Dis. Pump Discharge Tube			
Other	CHARLES AND ASSESSMENT OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE S	,	
	No. of Bottles		-
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Ground-water Sample		GW-3A.14	
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hysical Appearance and Odor brown, cloudy	no odor		
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Temperature (C°/°F)			•
pH 7,09			
Spec. Conduc (umhos/cm) 900			
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uation:		Well	Volume Calculation:
g: Submersible	Centrifugal	2" Casing: 437	1 ft. of water $\times$ .16 = $3.83$ gals.
Airlift _	Positive Displacement	3" Casing:	ft. of water $\times$ .36 =gals. ft. of water $\times$ .65 =gals.
Balled	Times	4" Casing:	ft. of water x .65 = gals.
	top of protective well casing <u>51.</u> ved Gais. (> 3 Wel		
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Site Lancaster Rec. NYSDEC Site No. Well Gu	à su R	Date: /	0 130181
Samplers: Liz Doluson			
Initial Static Water Level		,	
Evacuation: Using: Submersible Centrifugal Airlift Positive Displacement Bailed Times	2" Casing: 2	I Volume Calculation:  77 ft. of water x .16 =  ft. of water x .36 =  ft. of water x .65 =	<u>4///</u> gals. gals. gals.
Depth to intake from top of protective well casing 459 Volume of Water removed 13 Gals. (> 3 Well	Volumes)		
Sampling: Time /0:15	a.m.	•	
Bailer Type: Stainless Steel Teflon From Pos. Dis. Pump Discharge Tube Other		. ·	
	No. of Bottles	1.D. No.	Analyses
Trip Blank	<u>3</u> 	GW - 5B.14 GW - 4B.14	see belou
Physical Appearance and Odor	Is had so	diment	
Refrigerate: Date/6/30/87/ Time /030  Field Tests: Temperature (C°/°F) pH 6-70 Spec. Conduc (umhos/cm) 500			
Weather Overcat / Cloudy			an Andrew (Top And Only God Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Color of Co
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Lancaster Rec NYSDEC SITE No. Well C	. w - 5~ A	Date: / <u>U /30/ §</u> 7
		ssa upp-date Settle Activities
ers: Joey Kuhn Liz Dobson Gerry Covid	of	
Liz Vokson	of <u>ES</u>	
GERTY GOULD	1	7 0'
al Static Water Level	· · · · · · · · · · · · · · · · · · ·	7.0
m top of wall protective casing)	•	
:E. lon:		Volume Calculation:
: Submersible Centrifugal	2" Casing: $\frac{y_i o}{2}$	ft. of water x .16 = 1.28 gals.
Airlift Positive Displacement  Bailed Times	3" Casing:	_ ft. of water $\times$ .36 =gals.
3alledTimes	4" Casing:	_ ft. of water $\times$ .65 = gals.
to intake from top of protective well casing 35.0 Gals. (> 3 Well ling:	Volumes)	•
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Bailer Type: Stainless Steel	constructions comming that out constructs	
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## FIGURE 6.4 FIELD SURFACE SAMPLING RECORD

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SW-1 / SED-1 Time 1430 a.m	
Sample Type: Surface waker and sediment	· .
npling Method: glass beaker / stainless steel spoon	_
Depth of Sample: 0-0.5' from water surface / sediment ~ 0.5'	<u></u>
scription of Sampling Point:  Drainage Direction: NA (POND)	_
Upstream From:	-
Downstream From:	
Physical Appearance/Odor: water greenish appearance (pond)	onità
- fairly clear water	
Wildlife Observed: None	· 
Sampling Description: Suspended Matter: Algae in water.	
color/Stain: Clear 12 to 2' VIS 6124	رانسون الاستون
Odor: None	чания
Other:	grada
Texture: Sediment - Muddy texture.	озмога
Analyza for: HSL Volatiles Semi Volatiles, TOX, RB/BNA Metals	r ) aasano
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# FIGURE 6.4 FIELD SURFACE SAMPLING RECORD

Lancaster Reclamation NYSDEC SITE NO	Date: 9 109/87
Gerry Gould of Engineering-Scie	nce
S. PLING: $SW-2$ Time <u>1530 HRS</u> a.m. p.m.	
Sample Type: Surface Water, Sediment	
s pling Method: Glass Beaker, Stainless Steel Spoon	on the adjustments
Depth of Sample: 0-2.0" (inches)	
Coription of Sampling Point:  Drainage Direction: NA (Standing water)	
Upstream From: NA	
Downstream From: NA	
Physical Appearance/Odor: Clear water / Sediment is organic rich	1,5 hows moderacks
Wildlife Observed:	•
Sampling Description: Suspended Matter: 10010	
color/stain: Very clear-no stain	
Odor: NONE	
other: samples from a large fuddle about 8" deep -	from recentrain
Texture: sandy w small gravel - mud cracks visible on buttom	offuldle
Analyze for: 1156 volatiles, semivolatites, TOV, PCR/BNA metals	
frigerated: Date: 9/9/87 Time a.m. 530 p.m.	
eld Tests:  Temperature (C°/°F)  pH  Conductivity  31.1 Weather breezy + hazy  8.53  Conductivity  364 AS	
Comments: Photovac Oile ppm	netter til nette som som som half at handling som gregoring om bestyder til nette om half bland fill det til s
Basically this water is standing rain water- can see muderact	is, indicales

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## FIGURE 6.4 FIELD SURFACE SAMPLING RECORD

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Sample  Description and Od  Description (C°/°F)	or Brown		Filled	1.D. No.  . SEO 3.14 . (GED-DO2)	
e: Data  Conduc (umhos)	or Brown Time	SILT W/	Filled  I the sand	SEO 3.14 (GEO-002)	PEST/PCB
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Date  Conduc (umhos)	or Brown	SILT W/	Filled  I the sand	SEO 3.14 (GEO-002)	PEST/PCB
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Data  Conduc (umhos)	or Brown Time	35°-40	Filled  1  1: The sand	1.D. No.  SED 3.14  (GEO-DOZ)  AD AGAC:	PEST/PCB

## FIGURE 6.4 FIELD SURFACE SAMPLING RECORD

ancoster Reclamation NYSDEC SITE NO.	Date: 9 //0 / 81
es: Gerry Gold of Engineering Sciences of Liz Dobson of	enco 1
Time $\frac{9!00}{\text{Dom}}$ a.m.	
e Type: Surface water / Sediment	
of Sample: water - surface to 2', sed - L'to /	
tion of Sampling Point: Drainage Direction: Na - fond w/s feel banks	
pstream From: $\sqrt{a}$	na governmen
Physical Appearance/Odor: muddy hank no ador	
Wildlife Observed: frogs, cattoils, water plants	
Suspended Matter: 50me algae, Floating Plants  2010r/Stain: Water clear, visibility 3/ Faint  A yellow-brown Stain	
Odor: Nene	
Other:	
Analyza for: HSL volatiles, semi volatiles, PCB/BNA metals	<u>uuun analeeleen</u>
gerated: Date: // Time a.m. p.m.	
Tests: Temperature (C°/°F)  pH  Conductivity  Photover  2 Meather Sunny 65  19.5 C  Weather Sunny 65  13.4 fey  358.43	·
ments: Elevation of water surface here(SW-4)  Ler(2/0') than water surface elevation P, SW-	