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915128

NES

DOWNSTREAM INVESTIGATION REPORT

SLATE BOTTOM CREEK
DOWNSTREAM OF THE UNION ROAD SITE

CHEEKTOWAGA, ERIE COUNTY, NEW YORK
NYSDEC SITE REGISTRY NO. 915128

PREPARED FOR:
AMERICAN PREMIER UNDERWRITERS, INC.
ONE EAST FOURTH STREET
CINCINNATI, OHIO

PREPARED BY:
NES, INC.
44 SHELTER ROCK ROAD
DANBURY, CONNECTICUT

NOVEMBER, 95

NES DOCUMENT CONTROL NUMBER 82A8468 REV.1

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prepared for:

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One East Fourth Street
Cincinnati, Ohio

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November, 1995

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LIST OF FIGURES

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LIST OF ATTACHMENTS

1. INTRODUCTION

The Union Road Site is located approximately eight miles East of the City of Buffalo, NY in the Town of Cheektowaga, on property about one mile East of Union Road, between Losson and French Roads. The Site is presently owned by the Witben Realty Corporation whose parent company is the Universal Marion Corporation. The Site was formerly owned (and operated) by the New York Central Railroad (NYCRR) and its successor, the Penn Central Railroad. This Site was formerly a large railroad facility which comprised a classification yard, maintenance facilities, and a waste disposal area. This facility was operated for approximately 40 years from about 1915 to 1955.

NES investigated the area of Slate Bottom Creek located downstream of the Conrail culvert in conjunction with remedial activities at the Union Road Site. Slate Bottom Creek, a tributary of Cayuga Creek, runs adjacent to the Union Road Site and through a 1900 foot long culvert (referred to as the Conrail Culvert) and continues for another 1700 feet before it meets Cayuga Creek. Land lying North of Slate Bottom Creek in the area of the Union Road Site drains into Deer Lik Creek, a tributary of Slate Bottom Creek, through a waste lagoon (commonly referred to as the "Tar Pit") which contains large deposits of an oil or tar-like material.

In August 1983, the tar-like waste was observed along the banks of Slate Bottom Creek and Deer Lik Creek just downstream of where the outlet of the Tar Pit enters the creek. Samples collected by RCRA Research, Inc. in August, 1983 of the tar-like material in the tar pit showed that the tar-like material contained long-chain aliphatic hydrocarbons and high metals content including lead (up to 121,000 ppm), copper (9,780 ppm), mercury (10.4 ppm), antimony (150 ppm), and chromium (24 ppm). PCBs were reported (37 ppm) and a small volatile fraction was detected. The pH of the tar samples ranged up to 12.75.

Surface water modeling of the Union Road Site and Slate Bottom Creek has shown that the marsh, which the Tar Pit is part of, lies within the 10-year flood plain. During storm events greater than a 10-year return period, the marsh is flooded. As flood waters recede, there exists a potential of increased migration of the tar-like material. During the August 1983 RCRA investigation, there were indications of migration of tar-like material from the Tar Pit discharging to an outlet into Slate Bottom Creek. In addition to the floodplain location of the Tar Pit, the elevation and surface topography of the Tar Pit indicate that it is a discharge area for the majority of the Union Road Site.

Concerns regarding the contamination of Slate Bottom Creek were expressed by local residents at a Town meeting on July 13, 1994. Visual contamination in the form of black, tarry deposits was observed in and on the banks of Slate Bottom Creek downstream of the project area between the Conrail Culvert and the Union Road culvert. In a letter to NES, dated November 3, 1994, the NYSDEC indicated that it may be appropriate to manage these scattered waste materials as a part of the Remedial Action as opposed to addressing the matter as a part of Operation and Maintenance for the Site if and when these materials are exposed in the future.

NES conducted a visual inspection of the Slate Bottom Creek sediments downstream of the project area on November 17, 1994. This inspection showed that the waste material seemed to be limited to the channel edges in the soft sediment deposits that lie beneath the current water surface within 2 to 3 feet laterally of the creek banks. Waste material appeared to be concentrated in areas where channel velocity is reduced and also in the outside banks of channel bends. However, there were locations where waste material appeared to be beneath a gravel

layer. The waste material exhibited the same characteristics throughout the area: a thick black, tar-like material that had a strong petroleum odor.

In May 12, 1995, NES investigated and sampled the area of Slate Bottom Creek between the Union Road Culvert and the Conrail Culvert (Figure 1). The purpose of this investigation was to better define the extent of waste material present and to determine the best possible method for managing this material. Further investigative activities were conducted on July 12, 1995. The sampling locations associated with the July 12, 1995 session were limited to areas on the banks of Slate Bottom Creek. Sampling locations were selected based upon analytical results of the samples collected during the previous (May 12, 1995) sampling event. This report presents the data from these samples and discusses options available for the proper management of contaminated material.

2. DOWNSTREAM INVESTIGATION SAMPLING AND ANALYSIS

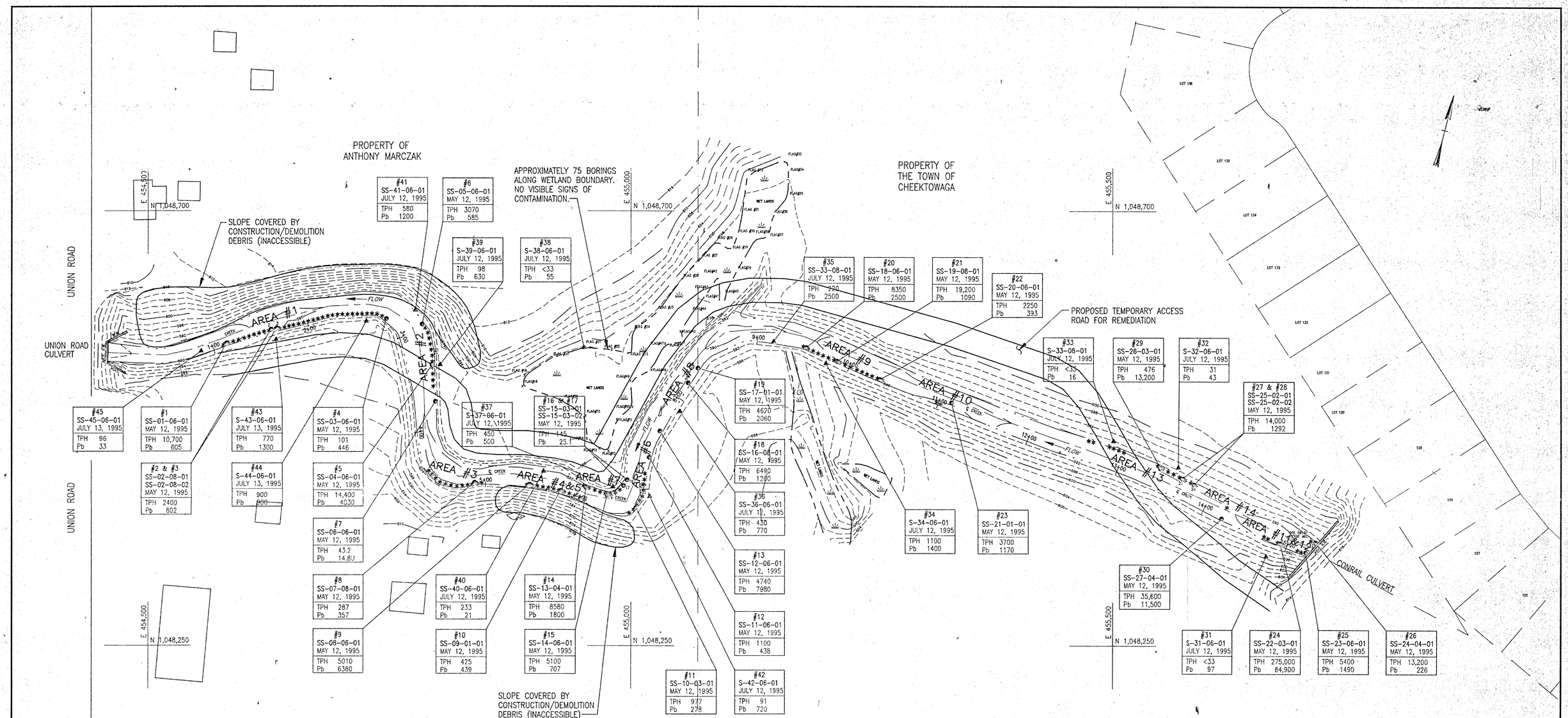
2.1 PHYSICAL CHARACTERISTICS OF STUDY AREA

2.1.1 Cross Section

The section of Slate Bottom Creek that flows between the Conrail Culvert to the Union Road Culvert (referred to as the Study Area) is characterized as a well-defined channel with alternating areas of flat floodplains and steep banks. The Slate Bottom Creek path is relatively straight with four distinct 90° turns arranged in a horseshoe shape (see Fig. 1). The water in the creek averages 15' to 20' wide and ranges between 6" to 5' deep. During both NES inspections (Nov. 8, 1994 and May 12, 1995) the Slate Bottom Creek depth was relatively consistent. A brief rainfall period during the May 12, 1995 inspection resulted in a slight increase in both river depth and flowrate, however, once rainfall stopped, the water level in the creek quickly returned to pre-storm levels.

The Slate Bottom Creek flows in a well-defined channel with banks approximately 1' to 6' in height from the water level. These banks are near vertical and appear to be formed by erosion and slope failures during storm events. In many areas, a well formed root system was observed growing out of the banks. It appears that the creek rarely overflows these banks except for severe floods (25-year storms or greater). In two areas, the North bank from Sta. 0+00 to 3+00 and the South bank from Sta. 4+50 to 7+00, the banks of the creek extended 15' to 25' above water level. The South bank from Sta. 9+50 to the downstream face of the Conrail Culvert (Sta. 15+50) has a man-made levee ranging from 6' to 12' in height.

Another notable characteristic of the channel cross section was the large floodplain on the North bank between Sta. 3+00 and 8+50. It can be observed that on low frequency storms (25-year storms or greater), storm water will overtop the banks and the water will flow in a direct line between the two culverts. The combination of the release of the tar-like material from the tar pit and the Slate Bottom Creek flow characteristics allow the increased potential for contaminant deposition on the banks and flood plains in the study area. The flood levels for the 10-, 25-, 50- and 100-year storms are as follows:



SURVEY NOTES

1.) ALL LOCATIONS ON THIS MAP ARE BASED ON THE NEW YORK STATE PLANE COORDINATE SYSTEM.

2.) ALL ELEVATIONS SHOWN ON THIS MAP ARE BASED ON THE 1929 ADJUSTMENT OF THE NATIONAL GEODETIC VERTICAL DATUM.

3.) ALL LOCATIONS SHOWN WERE INFERRED FROM SURFACE EVIDENCE ONLY. NO SUBSURFACE UTILITIES WERE DETECTED.

4.) ALL PROPERTY LINE AND RIGHT OF WAY WERE DETERMINED FROM ERIE COUNTY TAX MAPS.

5.) CONTOURS, WETLANDS AND STREAM LOCATION TAKEN FROM A MAP BY OM P. POPLI, PE, LS DATED 6/95

LEGEND:

**	AREA OF VISUALLY DELINEATED CONTAMINATION AND PROPOSED EXCAVATION
●	SAMPLE LOCATION NUMBER – MAY 12, 1995
▲	SAMPLE LOCATION NUMBER – JULY 12–13, 1995
—— ——	APPROXIMATE PROPERTY BOUNDARIES

SAMPLE NUMBER, DATE AND RESULTS (ppm)

#
SS-22-03-01
MAY 12, 1995
TPH 275,000
Pb 84,900

SYMBOL	DESCRIPTION	DATE	MADE BY	CHECK BY	APPROVED

REVISIONS

SCALE:	1" = 50'
DESIGNED BY:	MC
DRAWN BY:	AD
CHECKED BY:	
APPROVED BY:	
DATE:	8/31/95
CONTRACT NO.	
FILE NO.	2035300A

UNION ROAD SITE
TOWN OF CHEEKTOWAGA, NEW YORK
(SITE REGISTRY NO. 9-15-128)

SITE MAP

INTEGRATED ENVIRONMENTAL SERVICES
A DIVISION OF NES, INC.
44 SHELTER ROCK ROAD
DANBURY, CONNECTICUT 06810

SHEET NO. 1

Table 1: HEC-2 Computed Flood Elevation Levels

Storm Frequency	Sta. 0+00(1)	Sta. 15+50(2)	Avg.	Std. Dev.
10-year	598.75	599.45	599.1	0.35
25-year	601.28	602.1	601.69	0.41
50-year	602.97	604.13	603.55	0.58
100-year	607.03	608.02	607.53	0.50
(1) Upstream face of Union Road Culvert				
(2) Downstream face of Conrail Culvert				

Two minor tributaries flow into Slate Bottom Creek in the study area. The first tributary drains a wetlands area South of the creek. The flow from this tributary is minor (approximately 0.5 Cubic feet per second (cfs)). The tributary enters Slate Bottom Creek 550 feet downstream of the Conrail Culvert on the inside bank of the first 90° bend in the channel. The second tributary enters from the North at approximately the same area. This tributary drains a residential area and contributes approximately 1 cfs.

2.1.2 Flow Characteristics

Flow of water in the study area is relatively low, i.e. below 10 cfs (as of May 12, 1995) The creek bed in a majority of the study area has a cross section at least twice that of the culverts at the upstream and downstream ends of the study area. In addition, the slope in the creek in the study area is minimal (0.00129 ft/ft). Therefore, the water in the channel appears to be near stagnant throughout the study area. Based on the observed flowrate in and out of the study area at both culverts, there does not appear to be a significant amount of infiltration or exfiltration of groundwater into the channel.

With the exception of the area between Sta. 0+00 and 2+50, relatively low creek velocity has resulted in the heavy deposition of silts and clays in the creek bottom. The exact depth of the silts in the creek channel have not been determined. However, channel velocity increases in the areas before the Union Road culvert and after the Conrail Culvert. The creek bed in the area near the two culverts consist primarily of gravel and stone. The four 90° bends in the channel, 2 clockwise and 2 counter-clockwise, have formed soft sand and silt beds on the outside of these bends.

2.1.3 Geology and Soil Characteristics

As previously stated, the channel bottom in the study area contains a soft, deep silty bottom. Black organic material was observed within the silt deposits and consists of decomposing leaves and branches. The creek bottom primarily consists of brown and black silts and clays at least 18" in depth. The noncohesiveness of the sediments prevented any further vertical delineation. A layer of black organic material was observed at varying depths within the sediment. Slight degrees of stratification within soil types were observed in the sediments possibly as a result of the most recent storm events. In several locations, what appeared to be shale bedrock was observed.

2.1.4 Vegetation and Wildlife of Slate Bottom Creek

There was no vegetative growth observed in the creek with the exception of some water grass growing in the gravelly and silty banks near both culverts where the water is not stagnant. In the areas of near stagnant flow, there is no evidence of vegetation whatsoever. There was a significant population of several types of snakes, both in the water and on land. Ducks were observed both in the water and the area surrounding it. The only other wildlife seen was in the immediate vicinity of the Conrail Culvert outfall. This wildlife consisted of small minnows and crayfish. There were a number of deer trails leading to and from the creek banks. High on the banks of the creek, there was evidence of fallen trees which appeared to be a result of beavers. However, there were no other signs of beaver activity in the study area. Based on these observations, with the exception of snakes and ducks, there is little wildlife and natural vegetation that would be disturbed by remediation activities.

2.1.5 Topography and Vegetation Surrounding the Study Area

The area surrounding Slate Bottom Creek is heavily vegetated with both trees and brush. Marsh areas are found on the flat floodplain on the North bank and around the small tributary on the South bank at Sta. 9+50. As stated before, the topography of the area varies between steep sloped areas and flat floodplains. Swales, ridges, and gullies are located in random areas around the study area. Based on visual observation during the May 12, 1995 investigation, there is not a single pathway that provides access to all areas of the creek. In two locations along the creek banks, the slope is covered by construction/demolition debris. In these locations, the steep slope and the presence of debris have rendered any vehicle access and remediation activities impractical.

2.2 STUDY AREA INVESTIGATION

2.2.1 Mapping and Surveying

The study area was surveyed using a tape measure and stations were flagged every 10 feet at the water edge along both the North and South banks (as of May 9, 1995) with the upstream face of the Union Road Culvert defined as Sta. 0+00. Each bank of the creek was surveyed in this manner. For identification purposes, the North and South banks were denoted in station nomenclature (i.e. Sta. 3+40N and Sta. 4+80S). The creek study area measured approximately 1550 feet in length on both the North and South banks (see Figure 1). Flag points were later located during a topographic survey of the whole area.

2.2.2 Sampling Procedure

Previous investigations (August 1994, NYDEC and November 1994, NES) of the study area showed several areas of concern that had evidence of potential contamination. However, these investigations were performed only to determine the existence of downstream contamination in Slate Bottom Creek. The investigations performed on May 12, 1995 and July 12, 1995 were conducted to determine the exact location and extent of contamination. Samples were collected to confirm the existence of contamination, analytically fingerprint the nature of the tar-like substance, and delineate the limits of contamination within and around Slate Bottom Creek.

As the soil and creek sediments at each observation point were examined, it was found that 115 of the 354 observation points, or 33%, showed some sign of contamination. The signs of

contamination observed were as follows: a visual presence of black, tarry material, a sheen produced by disturbing the soil and/or a tarry, petroleum odor. In some of the positively identified observation points, only one or two of the signs of contamination were faintly present. However, a total of 14 areas within the creek boundaries were defined as containing obvious contamination in the form of free product.

As previously mentioned, a portion of the banks of the creek were covered by construction debris and large boulders. This made investigation of the underlying soil impossible to perform. In addition, areas of deep water, soft channel sediments, and areas covered by previous slope failures were rendered inaccessible. As the two investigation activities proceeded, it became evident that due to the investigation limitations, the nature of the contamination, and the random pattern of contamination deposition in the area, we were unable to delineate the extent of all the contamination in and around Slate Bottom Creek. However, based upon the analytical results of the 45 soil samples, the flood characteristics of the area, and the apparent pattern of contamination deposition, a basic understanding of the contamination location has been determined.

2.2.2.1 Area Delineation Phase

At each station (every 10 linear ft.), the Slate Bottom Creek bank was probed at a minimum of three places; at the water edge, 2' to 3' up the banks, and the sediments 2' to 3' into the creek channel. A spade was used to dig the soil approximately 6" below grade. Field notes were taken at each observation location regarding composition, soil color, grain texture, sheen presence (either in the water or on the soil), and any detectable odor. In areas that were too rocky or inaccessible, the nearest point of accessibility was used for that station. This phase of the investigation was used to determine the location of visual contamination and potential sampling locations. No samples were collected during this phase.

The presence of contamination was confirmed by either a visual presence of black, tarry material, a sheen produced by disturbing the soil and/or a tarry, petroleum odor. If no signs of contamination were observed, the next soil observation point was taken 10 feet upstream. If contamination was observed, observation points were established and samples were collected between previously observed contaminated and uncontaminated areas in order to determine the exact location of contamination along the creek banks. In the case of a positive identification of contamination, the soil observation points were taken more frequently laterally into the creek channel and up the banks to determine the lateral extent of contamination. When accessible, the soil sediments in the middle of the channel were observed using the hand auger.

2.2.2.2 Sampling Phase

Once a contaminated area was delineated along the Slate Bottom Creek banks via probing and observation, soil and creek sediment samples were collected and analyzed for TPH and lead concentration. These sample locations were based upon the results from the Area Delineation Phase. A majority of the samples collected showed obvious signs of visual contamination. However, a number of observation points that either released a slight oily sheen or a petroleum odor were not sampled. Samples were collected on the upstream and downstream edges of contaminated areas. In addition, 9 of the 14 areas were sampled and tested for Base Neutrals. These areas are denoted on Figure 1 and Table 2 through Table 16.

The spade was used to dig the soil to the required depth (typically 6" to 8"). A stainless steel spoon was used to sample soil into a 1 quart stainless steel bowl. Once the soil was thoroughly homogenized, the soil was placed in 4 oz. wide mouth glass jars. Sample equipment was washed

with clean water between sampling. No sample preservation methods were used. Samples were stored in a cooler until delivery to General Testing Corporation later that day on May 12, 1995. Samples collected on July 11 and 12, 1995, were stored in coolers, picked-up by a courier service and delivered to Upstate Laboratories the following day.

2.2.2.3 Analytical Methodology

Soil samples were analyzed for lead using NYSDEC 1991 ASP methodology. Total Petroleum Hydrocarbons (TPH) soil samples were analyzed using EPA Method 418.1. The Base Neutral fraction of the Target Compound List (TCL) of Semivolatiles were analyzed by NYSDEC ASP Method 91-2. Library Searches against the NBS/EPA library were conducted in all samples, reanalyses, and blanks.

2.2.3 Sample Descriptions

There were 14 distinct areas where contamination was observed for more than 10 feet along the creek banks. Areas where either contamination was observed for fewer than 10 feet or areas that did not exhibit strong signs of contamination were not sampled at this time. At each sample location, a black, tarry material was observed. Samples described as being collected at the current waterline are at that location as of May 12, 1995 (3" to 4" higher than May 9). A total of 30 TPH and Lead samples (#'s 1 to 30) were collected during the May 12, session and an additional 15 samples (#'s 31 to 45) on July 12, 1995. The descriptions of these areas are as follows;

2.2.3.1 Area #1: Sta. 0+90S to 2+80S (Sample Locations 1, 2, 3, 4, and 43, 44, 45)

This area is located 90 feet upstream of the Union Road Culvert on the South bank (See Figure 1). The flow in this area is shallow and the majority of the contamination was found on a gravel bar. Contamination was generally found 3" to 6" below grade and was present in a tar-like form. The contamination was located in fine soil beneath a gravel and sand layer. The exact depth of contamination was unable to be determined due to the large rocks and cobbles present in the Slate Bottom Creek bed. As a result of past slope failure covering previously deposited material, contamination may have extended laterally 6' to 8' into the bank. The topography around Sta. 1+80S showed signs of a recent slope failure that would have covered contamination deposited by storm events. Contamination appears to have been deposited here or settled out of receding floodwaters some time ago. Over time, subsequent floods have deposited both fine and coarse materials over the contamination.

A total of 4 samples were collected from this area on May 12, 1995. Sample 1, SS-01-06-01, was collected at the downstream end of the contamination at Sta. 1+10S, 6" below grade on the gravel bank. The sample consisted of sandy gravel with some pink clay. There were no significant amounts of organic material present and no odor was detected. This sample has 10,700 ppm TPH and 605 ppm lead. Sample 2, SS-02-08-01, was collected at the middle of Area 1 at Sta. 1+60S, 8" below grade. The sample consisted of a clayey sand. There were significant amounts of organic material present and a petroleum odor was detected. This sample has 2,920 ppm TPH and 784 ppm lead. Sample 3, SS-02-08-02, was a duplicate of Sample 2 and was collected at the middle of Area 1 at Sta. 1+60S, 8" below grade. The sample consisted of a clayey sand. There were significant amounts of organic material present and a petroleum odor was detected. This sample has 1,880 ppm TPH and 819 ppm lead. These samples averaged 2,400 ppm TPH and 801 ppm lead. Sample 4, SS-03-06-01, was collected at the upstream end of

the contamination at Sta. 2+80S, 6" below grade. The sample consisted of a brown silty clay. There was organic material present and no odor was detected. This sample has 446 ppm TPH and 101 ppm lead.

Three additional samples were collected in this area during the July 12 1995 sampling event. Sample 45, SS-45-06-01, was collected approximately at the downstream end of the contamination at Sta. 0+93S, 6" below grade. This sample has 96 ppm TPH and 33 ppm lead. Sample 44, SS-44-06-01, was collected at the upstream limit of Area 1 approximately 6' laterally from the water line on the South bank at Sta. 2+66S, 6" below grade. This sample has 900 ppm TPH and 800 ppm lead. Sample 43, SS-43-06-01, was collected at the middle of the contamination approximately 8' laterally from the bank at Sta. 1+60S, 6" below grade. This sample has 770 ppm TPH and 1,300 ppm lead. A summary of the results for the samples collected from Area #1 are as follows:

Table 2 : Area #1 Sample Summary

Sample No.	Sample ID	Station	Sampling Date	TPH (ppm)	Lead (ppm)	BN (ppm)	Location (relative to delineated area)
1	SS-01-06-01	1+10S	May 12, 1995	10,700	605	N/A	Downstream end
2	SS-02-08-01	1+60S	May 12, 1995	2,920	784	3.88	Middle of area
3	SS-02-08-01	1+60S	May 12, 1995	1,880	819	16.97	#2 Duplicate
4	SS-03-06-01	2+80S	May 12, 1995	101	406	3.07	Upstream limit
43	SS-43-06-01	1+60S	July 12 1995	770	1,300	N/A	8' up bank at upstream end
44	SS-44-06-01	2+66S	July 12 1995	900	900	N/A	6' up bank at middle of area
45	SS-45-06-01	0+93S	July 12 1995	96	33	N/A	downstream limit of area

2.2.3.2 Area #2: Sta. 3+30N to Sta. 4+10N (Sample Locations 5, 6, and 7)

Area 2 was located 330 feet upstream of the Union Road Culvert. The area lies on the outside edge of a 90° (bend) in the creek. Water depth was approximately 1' to 2' deep and the velocity was relatively slow. The creek banks are sharply cut from erosion and undercutting during storm events. Samples in this area were collected in the creek channel. Contamination in this area appeared to be limited to the channel sediments and most likely resulted from contaminated flood waters that slowed in velocity allowing the deposition of contaminated material.

A total of three samples were collected from this area. Sample 5, SS-04-06-01, was collected at the downstream end of the contamination at Sta. 3+80N, 6" below the channel bottom. The sample consisted of a black silty clay. There were significant amounts of organic material present and a petroleum odor was detected. Sample 5 contained 14,400 ppm TPH and 4,030 ppm lead. Sample 6, SS-05-06-01, was collected at the downstream end of the contamination at Sta. 3+30N, 6" below the channel bottom. The sample consisted of a black silty clay. There were significant amounts of organic material present and a petroleum odor was detected. Sample 6 contained 3,070 ppm TPH and 585 ppm lead. Sample 7, SS-06-06-01, was collected at the upstream end of the contamination, 2' from the channel edge in the creek at Sta. 4+10N, 6" below grade. The sample consisted of a sandy brown clay. There were slight amounts of organic material present and no odor was detected. Sample 7 contained 43.2 ppm TPH and 14.8 ppm lead.

Two additional samples were collected from this area on July 12 1995. Sample 41, SS-41-06-01, was collected at the outside corner of the creek bend at Sta. 3+90N, 6" below grade. Sample 41 contained 580 ppm TPH and 1,200 ppm lead. Sample 39, SS-39-06-01, was collected at the upstream end of the contamination atop the creek bank at Sta. 4+10N, 6" below grade. Sample 39 has 98 ppm TPH and 630 ppm lead. The presence of lead outside of the defined creek limits suggest that contamination maybe present in the floodplain area. The material may have been deposited in the floodplain area A summary of the results from samples collected from Area #2 is as follows:

Table 3: Area #2 Sample Summary

Sample No.	Sample ID	Station	Sampling Date	TPH (ppm)	Lead (ppm)	BN (ppm)	Location (relative to delineated area)
5	SS-04-06-01	3+80N	May 12, 1995	14,400	4,030	N/A	Middle of area at water level
6	SS-05-06-01	3+30N	May 12, 1995	3,070	585	N/A	Downstream area limit
7	SS-06-06-01	4+10N	May 12, 1995	43.2	14.8U	N/A	Upstream limit of area
39	SS-39-06-01	4+10N	July 12 1995	98	630	N/A	Middle of area up 5' up on bank
41	SS-41-06-01	3+90N	July 12 1995	580	1,200	N/A	Downstream area limit

U: Sample results were below method detection limits.

2.2.3.3 Area #3: Sta. 4+35S to Sta. 5+00S (Sample Location 8)

Area 3 was located 435 feet upstream of the Union Road Culvert. The channel cross section in this area increased in both depth and width resulting in a near stagnant flow. The contaminated area lies on the outside edge of a 90° turn. Investigation in this area was difficult due to the extremely soft sediments present on the channel bottom and banks. The channel base underlying the sediments was composed of a consolidated pink and tan clay. No obvious contamination was present, but a slight sheen was generated at the edge of the waterline when sediments were disturbed. A slight petroleum odor was detected in material 12" below the channel bottom using a hand auger. The outside bank in this area is steep and rises 4' above the current waterline.

Sample 8, SS-07-08-01, was collected at Sta. 4+90S, 8" below grade. The sample consisted of a brown clay with black organic matter. There were significant amounts of organic material present and no odor was detected. Sample 8 contained 287 ppm TPH and 357 ppm lead. A summary of the results for samples collected from Area #3 is as follows:

Table 4: Area #3 Sample Summary

Sample No.	Sample ID	Station	Sampling Date	TPH (ppm)	Lead (ppm)	BN (ppm)	Location (relative to delineated area)
8	SS-07-08-01	4+90S	May 12, 1995	287	357	N/A	Upstream limit of area

2.2.3.4 Area #4 and #5: Sta. 5+40S to 6+00S (Sample Locations 9 and 10)

This area lies in a straight section of the Slate Bottom Creek between two 90° turns in the channel. The channel cross section was well developed and the banks were very steep with a well defined root system. The water depth increased in this area to 4' to 5' and water flow was still near stagnant. The steep slope extends 15' to 20' horizontally from the Slate Bottom Creek bank on the South edge and is covered with construction and concrete sidewalk debris. Contamination was found in both the Slate Bottom Creek banks and the channel bottom. The soil at the waters edge at the bank was stained black and a sheen appeared to be seeping from the soil/water interface. The sheen was not generated by disturbing sediments in the area but rather appeared to be a light, non-aqueous phase liquid (LNAPL) that was on top of the water table.

An investigation of the land South of the Slate Bottom Creek showed large amounts of car and motorcycle parts and several small storage sheds. Some debris on the slope leading to the creek included piping and tubing similar to that used in oil storage tanks. Two areas were defined for this section due to the possibility of an additional source of contamination. While the contamination in the Slate Bottom Creek sediments is consistent with that throughout the study area, the stained contaminated soil at the current waterline is possibly from another source.

Two samples were collected from this area. Sample 9, SS-08-06-01, was collected to represent Area #4, 2' from the creek bank at Sta. 5+40S, 6" below grade. The sample consisted of a gravel soil underlain by coarse sand and clay. There were no significant amounts of organic material present and a petroleum odor and sheen was detected. Sample 9 contained 5,010 ppm TPH and 6,380 ppm lead. Sample 10, SS-09-01-1, was collected to represent the contamination seeping from the creek slope at Sta. 5+90S, 1" below grade. The sample consisted of black organic material with a heavy root system. There were significant amounts of organic material present and no odor was detected. Sample 10 contained 425 ppm TPH and 439 ppm lead. A summary of the results for samples collected from Area #4 is as follows:

Table 5: Area #4 and #5 Sample Summary

Sample No.	Sample ID	Station	Sampling Date	TPH (ppm)	Lead (ppm)	BN (ppm)	Location (relative to delineated area)
9	SS-08-06-01	5+40S	May 12, 1995	5,010	6,380	4.48	Downstream limit of area
10	SS-09-01-01	5+90S	May 12, 1995	425	439	N/A	Creek slope at upstream end of area

2.2.3.5 Area #6: Sta. 6+90S to 7+60S (Sample Locations 11, 12, 13, and 42)

This area was on the outside edge of a 90° bend in the channel. Channel velocity was still relatively stagnant with the outside edge accumulating sediment material, including large

amounts of organic material such as leaves and small branches. A slight sheen is associated with this organic material. Entrained air and a sheen were released when the sediments at the bottom of the channel bottom were disturbed. No odor was detected from either the soil sediments or the organic material.

Three samples were collected at this area. Sample 11, SS-10-03-03, was collected in the soft sediments on the outside of the channel bend at Sta. 6+95S, 3" below grade. The sample consisted of a dark gray clay with some sand. There was some organic material present and a slight petroleum odor was detected. Sample 11 contained 977 ppm TPH and 278 ppm lead. Sample 12, SS-11-06-01, was collected 18" off the bank in the channel bottom at Sta. 7+30S, 6" below grade. The sample consisted of a sandy clay. There were significant amounts of organic material present and an organic odor was detected. Sample 12 contained 1,100 ppm TPH and 438 ppm lead. Sample 13, SS-12-06-01, was collected at the upstream end of the contamination, 18" off the channel bank at Sta. 7+60S, 6" below the channel bottom. The sample consisted of a sandy clay. There were significant amounts of organic material present and a petroleum odor was detected. Sample 13 contained 4,740 ppm TPH and 7,980 ppm lead.

One additional sample was collected in this area on July 12 1995. Sample 42, SS-42-06-01, was collected at the middle of Area 6, 5' vertically on the creek banks at Sta. 6+95S, 6" below grade. Sample 42 contained 91 ppm TPH and 720 ppm lead. A summary of the results for samples collected from Area #6 is as follows:

Sample No.	Sample ID	Station	Sampling Date	TPH (ppm)	Lead (ppm)	BN (ppm)	Location (relative to delineated area)
11	SS-10-03-01	6+95S	May 12, 1995	977	278	10.79	Downstream limit of area
12	SS-11-06-01	7+30S	May 12, 1995	1,100	438	N/A	Middle of area
13	SS-12-06-01	7+60S	May 12, 1995	4,740	7,980	N/A	Upstream limit of area
42	SS-42-06-01	6+95S	July 12 1995	91	720	N/A	Middle of area, 5' up on bank

Table 6: Area #6 Sample Summary

2.2.3.6 Area #7: Sta. 6+00N to 6+60N (Sample Locations 14, 15, 16, 17, and 37, 38)

This area was immediately downstream of the inside of a 90° bend. The majority of the contamination was found 5' to 10' off the bank in the channel sediments. The channel is still deep in this area resulting in stagnant flow. The channel contains a stiff brown and gray clay that generates a slight sheen when disturbed and a petroleum odor was also detected during investigation. Further upstream, the channel velocity increases suggesting that the tar-like material settled out as velocity dropped in the area.

Four samples were collected from this area. Sample 14, SS-13-04-01, was collected at the downstream end of the contamination, 2' to 3' in the channel from the bank at Sta. 6+10N, 4" below grade. The sample consisted of a clayey sand. There was some organic debris present and a petroleum odor was detected. Sample 14 contained 8,580 ppm TPH and 1,800 ppm lead. Sample 15, SS-14-06-01, was collected at the middle of the contamination 2' off the bank in the channel at Sta. 6+30N, 6" below grade. The sample consisted of a clayey sand. There was some organic material present and a petroleum odor and sheen were detected. Sample 15 contained 5,100 ppm TPH and 707 ppm lead.. Sample 16, SS-15-03-01, was collected at the upstream end of Area 7, 2' to 3' from the bank in the channel at Sta. 6+60N, 3" below grade. The sample

consisted of a brown sandy clay. There were significant amounts of organic material present and a sulfur odor was detected. Sample 16 contained 84 ppm TPH and 30.6 ppm lead. Sample 17, SS-15-03-02, was a duplicate of Sample 16. Sample 17 contained 206 ppm TPH and 19.6 ppm lead. The two samples averaged 145 ppm TPH and 25.1 ppm lead.

Three additional samples were collected in this area on July 12 1995. Sample 37, SS-37-06-01, was collected 5' up on the bank at the inside corner of the 90 bend of Area 7 at Sta. 6+30N, 6" below grade. Sample 37 contained 450 ppm TPH and 500 ppm lead. Sample 38, SS-38-06-01, was collected at the outer edge of the wetland where flood waters would be in contact with the area. This sample was collected from the northern edge of the delineated wetlands on the floodplain between Sta. 9+00 and 3+00, approximately 147' from the creek banks. Sample 38 contained <33 ppm TPH and 55 ppm lead. Sample 40, SS-40-06-01, was collected approximately 75' downstream of the inside corner of the channel bend at Sta. 5+65N, 6" below grade. Sample 40 contained 233 ppm TPH and 21 ppm lead. A summary of the results for samples collected from this area is as follows:

Table 7: Area #7 Sample Summary

Sample No.	Sample ID	Station	Sampling Date	TPH (ppm)	Lead (ppm)	BN (ppm)	Location (relative to delineated area)
14	SS-13-04-01	6+10N	May 12, 1995	8,580	1,800	4.84	Downstream limit of area
15	SS-14-06-01	6+30N	May 12, 1995	5,100	707	N/A	Middle of area
16	SS-15-03-01	6+60N	May 12, 1995	84	30.6	1.48	Upstream limit of area
17	SS-15-03-02	6+60N	May 12, 1995	206	19.6	N/A	Duplicate of #16
37	SS-37-06-01	6+30N	July 12 1995	450	500	N/A	Middle of area, 5' up on banks.
38	SS-38-06-01	North bank wetlands	July 12 1995	<33	55	N/A	Northern edge of wetlands on floodplain
40	SS-40-06-01	5+65N	July 12 1995	233	21	N/A	75' downstream of delineated area, 5' up on bank

2.2.3.7 Area #8: Sta. 8+00S to 8+30S (Sample Locations 18, 19, and 36)

This area lies on the South bank of a straight section of the Slate Bottom Creek. A long, soft sand bar extends along the southern bank. Two trees in the Slate Bottom Creek immediately off the bank have allowed sediment and debris to accumulate around it. The trees have also generated a significant amount of leaves and branches that have fallen and deposited in the area. The sediments in the channel bottom contained a thick layer of black, decaying organic material. The black organic material generated a sheen when disturbed and had a slight detectable odor.

Two samples were collected from this contaminated area. Sample 18, SS-16-08-01, was collected between two trees in the sediments that have accumulated there at Sta. 8+00S, 8" below grade. The sample consisted of a brown, tar-like substance. There were significant amounts of organic material present and a strong petroleum odor was detected. Sample 18 contained 6,490 ppm TPH and 1,260 ppm lead. Sample 19, SS-17-12-01, was collected at the

upstream end of Area 8 at Sta. 8+30S, 12" below the channel bottom at the current waterline. The sample consisted of a sandy clay with a defined black layer. There was some organic material present and a slight odor was detected. Sample 19 contained 4,620 ppm TPH and 2,060 ppm lead.

One additional sample was collected from this area on July 12 1995. Sample 36, SS-36-06-01, was collected at the downstream end of Area 8 at Sta. 7+75S, 6" below grade. Sample 36 contained 430 ppm TPH and 770 ppm lead. A summary of the results for samples collected from this area is as follows:

Table 8: Area #8 Sample Summary

Sample No.	Sample ID	Station	Sampling Date	TPH (ppm)	Lead (ppm)	BN (ppm)	Location (relative to delineated area)
18	SS-16-08-01	8+00S	May 12, 1995	6,490	1,260	N/A	Middle of area
19	SS-17-12-01	8+30S	May 12, 1995	4,620	2,060	2.32	Upstream limit of area
36	SS-36-06-01	7+75S	July 12 1995	430	770	N/A	Downstream limit of area

2.2.3.8 Area #9: Sta. 9+60S to Sta. 10+50S (Sample Locations 20, 21, 22, and 34, 35)

This area was the most visually contaminated area observed in the study area. The area began on a straight section along the South bank of the channel and extended to the inside of a 90° bend. In the middle of the contaminated area was the outfall of a wetlands drainage tributary. Rip rap previously placed at the outlet of this tributary decreases the effective channel area which slightly increases the velocity of the creek. A large sheen was generated while moving around in the study area and free product in the form of black tar-like material was observed immediately off the banks 1" to 2" below grade. The majority of the contamination was present in the sediment material 1' to 5' off the creek banks. The Slate Bottom Creek banks showed no signs of contamination.

Three samples were collected within this area. Sample 20, SS-18-06-01, was collected at the downstream end of Area 9 at Sta. 9+60S, 6" below grade. The sample consisted of a sandy clay. There was some organic material present and a heavy petroleum odor and sheen were detected. Sample 20 contained 8,350 ppm TPH and 2,500 ppm lead. Sample 21, SS-19-08-01, was collected in the channel sediment material between the current waterline and sediment 5' from the bank at Sta. 10+00S, 8" below grade. The sample consisted of a silty black material. There was free product present and a heavy odor and sheen were detected. Sample 21 contained 19,200 ppm TPH and 1.090 ppm lead. Sample 22, SS-20-06-01, was collected at the upstream end of Area 9 at Sta. 10+45S, 6" below grade. The sample consisted of a dark gray clay and a black sandy clay. There were no significant amounts of organic material present and a slight petroleum odor was detected. Sample 22 contained 2,250 ppm TPH and 393 ppm lead.

Two additional samples were collected from this area on July 12 1995. Sample 35, SS-35-06-01, was collected at the downstream end of Area 9 at Sta. 9+10S, 6" below grade. Sample 35 contained 220 ppm TPH and 2,500 ppm lead. Sample 34, SS-34-06-01, was collected 4' vertically on the banks at Sta. 10+10S, 6" below grade. Sample 34 contained 1,100 ppm TPH and 1,400 ppm lead.

Table 9: Area #9 Sample Summary

Sample No.	Sample ID	Station	Sampling Date	TPH (ppm)	Lead (ppm)	BN (ppm)	Location (relative to delineated area)
20	SS-18-06-01	9+60S	May 12, 1995	8,350	2,500	N/A	Downstream limit of area
21	SS-19-08-01	10+00S	May 12, 1995	19,200	1,090	N/A	Middle of area
22	SS-20-06-01	10+45S	May 12, 1995	2,250	393	N/A	Upstream limit of area
34	SS-34-06-01	9+10S	July 12 1995	1,100	1,400	N/A	Middle of area, 4' vertically on bank
35	SS-35-08-01	10+10S	July 12 1995	220	2,500	N/A	Downstream limit of area

2.2.3.9 Area #10: Sta. 11+00S (Sample Location 23)

This small, isolated area lies in a straight section of the Slate Bottom Creek approximately 450' downstream of the Conrail Culvert outlet. A sheen was generated by the soft sediment from the Slate Bottom Creek bank up to 3' into the creek from the current waterline. There was no sign of contamination in the creek bank material. The straight section has a consistent cross section that resulted in a relatively stagnant flow.

One sample was collected at Sta. 11+00S. Sample 23, SS-21-10-01, was collected at the middle of Area 10 at Sta. 11+00S, 10" below grade. The sample consisted of a dark brown and black clayey sand. There was some organic material present and a petroleum odor was detected. Sample 23 contained 3,700 ppm TPH and 1,170 ppm lead. Sample 23, SS-21-10-01, was collected 10" below the channel bottom, 2' from the current waterline. This sample consisted of a dark brown and black clayey sand. Some organic material was present. Sample 23 contained 3,700 ppm TPH and 1,170 ppm lead. A summary of the results for samples collected from this area is as follows:

Table 10: Area #10 Sample Summary

Sample No.	Sample ID	Station	Sampling Date	TPH (ppm)	Lead (ppm)	BN (ppm)	Location (relative to delineated area)
23	SS-21-01-01	11+00S	May 12, 1995	3,700	1,170	N/A	Middle of area

2.2.3.10 Area #11: Sta. 15+50S (Sample Location 24 and 31)

The second small, isolated contaminated area lies 50' downstream of the Conrail Culvert outlet. At this location, the water depth has increased to approximately 4' to 5'. A small sand bar on the North bank 50' downstream of this area constricts flow and increases the velocity temporarily. Otherwise, between the Conrail Culvert and the gravel bar the velocity was still very slow. The Slate Bottom Creek banks were steep in this area and have been vertically cut due to erosion.

One sample was collected at Sta. 15+00S. Sample 24, SS-22-03-01, was at the middle of Area 11 at Sta. 15+00S, 03" below grade near the creek bank. The sample consisted of a black gravelly sand. There was free product present and heavy odor and sheen were detected. Sample 24

contained 275,000 ppm TPH and 84,900 ppm lead. These sample results were indicative of free product.

One additional sample was collected on July 12 1995. Sample 31, SS-31-06-01, was collected approximately 15' up the banks at Sta. 15+00S, 6" below grade. Sample 31 contained <33 ppm TPH and 97 ppm lead. A summary of the results for samples collected from this area is as follows:

Table 11: Area #11 Sample Summary

Sample No.	Sample ID	Station	Sampling Date	TPH (ppm)	Lead (ppm)	BN (ppm)	Location (relative to delineated area)
24	SS-22-03-01	15+00S	May 12, 1995	275,000	84,900	N/A	Middle of area
31	SS-31-06-01	15+00S	July 12 1995	<33	97	N/A	Middle of area, 15' up on bank

2.2.3.11 Area #12: Sta. 15+50N & S (Conrail Culvert Outfall) (Sample Location 25 and 26)

This area lies in the immediate vicinity of the Conrail Culvert outfall where turbulence and scour have undercut the channel bottom material. The water depth in this area is approximately 4' to 5'. Channel sediments were primarily sand and gravel due to the high velocity in the area.

Two samples were collected in this area. Sample 25, SS-23-06-01, was collected on the South bank just downstream of the concrete lip of the Conrail Culvert at Sta. 15+50S, 6" below grade. The sample consisted of a gravel deposit above a clay layer. There were no significant amounts of organic material present and a petroleum odor and a sheen was detected. Sample 25 contained 5,400 ppm TPH and 1,490 ppm lead. Sample 26, SS-24-04-01, was collected from the North bank in the same area as Sample 25 at Sta. 15+50N, 4" below grade. The sample consisted of a brown sandy gravel on top of a pink clay. There were no significant amounts of organic material present and no odor was detected. Sample 26 contained 13,700 ppm TPH and 226 ppm lead. A summary of the results for samples collected from this location are as follows:

Table 12: Area #12 Sample Summary

Sample No.	Sample ID	Station	Sampling Date	TPH (ppm)	Lead (ppm)	BN (ppm)	Location (relative to delineated area)
25	SS-23-06-01	15+50S	May 12, 1995	5,400	1,490	10.23	South edge of culvert outfall
26	SS-24-04-01	15+50N	July 12 1995	13,700	226	N/A	North edge of culvert outfall

2.2.3.12 Area #13: Sta. 13+70N to 13+85N (Sample Location 27, 28, 29 and 32)

This contaminated area lies immediately downstream of the gravel bar in the channel where the channel width widens sharply. The immediate increase in channel area results in a drop in velocity and sediments depositing out. Some contamination was visually detected in the soil 2" to 4" below the gravel layer that comprises the gravel bar.

consisted of a black gravel and clay. There was no organic material present and a slight odor and sheen were detected. Sample 27 contained 2,400 ppm TPH and 603 ppm lead. Sample 28, SS-25-02-02, was a duplicate of Sample 27. Sample 28 contained 5,600 ppm TPH and 1,980 ppm lead. Sample 27 and 28 averaged 4,000 ppm TPH and 1,292 ppm lead. Sample 29, SS-26-03-01, was collected at the downstream end of Area 13 in the sediments immediately downstream of the gravel bar at Sta. 13+70N, 3" below grade. The sample consisted of a black gravel and clay. There were no significant amounts of organic material present and a sheen and odor were detected. Sample 29 contained 478 ppm TPH and 13,200 ppm lead.

Two additional samples were collected on July 12 1995. Sample 32, SS-32-06-01, was collected approximately 6' up on the banks at Sta. 13+85N, 6" below grade. Sample 32 contained 31 ppm TPH and 43 ppm lead. Sample 33, SS-33-06-01, was collected 4' up on the banks at Sta. 13+15N, 6" below grade. Sample 33 contained <33 ppm TPH and 16 ppm lead. A summary of the results for samples collected from this area is as follows:

Table 13: Area #13 Sample Summary

Sample No.	Sample ID	Station	Sampling Date	TPH (ppm)	Lead (ppm)	BN (ppm)	Location (relative to delineated area)
27	SS-25-02-01	13+85N	May 12, 1995	2,400	603	37.51	Upstream limit of area
28	SS-25-02-01	13+85N	May 12, 1995	5,600	1,980	N/A	Sample 27 Duplicate
29	SS-26-03-01	13+70N	May 12, 1995	478	13,200	N/A	Downstream limit of area
32	SS-32-06-01	13+85N	July 12 1995	31	43	N/A	Middle of area, 6' up on bank
33	SS-33-08-01	13+15N	July 12 1995	<33	16	N/A	60' Downstream of area, 4' up on bank

2.2.3.13 Area #14: Sta. 14+30S (Sample Location 30)

This isolated contaminated area was located 120' downstream of the Conrail Culvert outfall. The area lies immediately before the restricted flow area caused by the gravel bar. One sample was collected at Sta. 14+30S. Sample 30, SS-27-04-01, was collected from the bank material at the current waterline at Sta. 14+30S, 4" below grade. The sample consisted of a clayey gravel. There were no significant amounts of organic material present and a petroleum odor and sheen were detected. Sample 30 contained 35,600 ppm TPH and 11,500 ppm lead. A summary of the results for samples collected from this area is as follows:

Table 14: Area #14 Sample Summary

Sample No.	Sample ID	Station	Sampling Date	TPH (ppm)	Lead (ppm)	BN (ppm)	Location (relative to delineated area)
30	SS-27-04-01	14+30S	May 12, 1995	35,600	11,500	N/A	Middle of area

2.2.3.14 Wetlands Area

During the course of the investigative activities in Slate Bottom Creek, the area surrounding the Slate Bottom Creek was delineated for wetlands. Soil borings used to classify wetlands soils were also examined for visual signs of contamination similar to that in Slate Bottom Slate Bottom Creek. Approximately 75 wetlands soil borings were collected using a hand auger. None of these samples showed any signs of contamination.

2.3 SUMMARY OF RESULTS

Based on the sample results and visual observation of contaminated areas, the study area contains high levels of TPH and lead in the channel sediments. A slight relationship exists between TPH and lead concentrations in the samples collected (See Table 15). In some locations, free product in the form of a black, tar-like material is present within the sediments of Slate Bottom Slate Bottom Creek. The contamination is not uniformly distributed within the study area but is contained in isolated locations where recent stream sedimentation has occurred. Based upon the physical description and analytical results of the material found in the tar pit, the nature of contamination in Slate Bottom Slate Bottom Creek is consistent with the tar pit as the source.

Of the 45 samples collected and analyzed for TPH and lead, 43 of the 45 TPH samples had positive values of TPH and 44 of the 45 lead samples were positive. Sample results for TPH and lead are summarized in Table 15, and the analytical results of the Base Neutral samples are in Table 16. The lead and TPH concentration ranges are summarized in Table 17. Copies of the laboratory result data sheets are enclosed as Attachment A.

Prepared By: M
Date: 9/14/95
Reviewed By: [illegible]
Date: 9/21/95

Table 15: TPH and Lead Data Summary

Sample No.	NES ID	Lab ID	Study Area Location Area #	Sta.	TPH (ppm)	TPH (avg.)	Pb (ppm)	Pb (avg.)
1	S1-06-01	16062	1	1+10S	10700		605	
2	S2-08-01	16064	1	1+60S	2920		784	
3	S2-08-02	16065	1	1+60S	1880	2400	819	801.5
4	S3-06-01	16066	1	2+80S	101		446	
43	SS-43-06-01	19595074	1	1+60S	770		1300	
44	SS-44-06-01	19595075	1	2+66S	900		900	
45	SS-45-06-01	19595076	1	0+93S	96		33	
5	S4-06-01	16068	2	3+80N	14400		4030	
6	S5-06-01	16069	2	3+30N	3070		585	
7	S6-06-01	16070	2	4+10N	43.2		14.8 U	
39	SS-39-06-01	19495047	2	4+10N	98		630	
41	SS-41-06-01	19495049	2	3+90N	580		1200	
8	S7-08-01	16071	3	4+90S	287		357	
9	S8-06-01	16076	4	5+40S	5010		6380	
10	S9-01-01	16077	5	5+90S	425		439	
11	S10-03-01	16078	6	6+95S	977		278	
12	S11-06-01	16079	6	7+30S	1100		438	
13	S12-06-01	16080	6	7+60S	4740		7980	
42	SS-42-06-01	19495050	6	6+95S	91		720	
14	S13-04-01	16081	7	6+10N	8580		1800	
15	S14-06-01	16082	7	6+30N	5100		707	
16	S15-03-01	16083	7	6+60N	84		30.6	
17	S15-03-02	16088	7	6+60N	206	145	19.6	25.1
37	SS-37-06-01	19495045	7	6+30N	450		500	
38	SS-38-06-01	19495046	7	N/A	<33		55	
40	SS-40-06-01	19495048	7	5+65N	<33		21	
18	S16-08-01	16084	8	8+00S	6490		1260	
19	S17-01-02	16089	8	8+30S	4620		2060	
36	SS-36-06-01	19495044	8	7+75N	430		770	
20	S18-06-01	16090	9	9+60S	8350		2500	
21	S19-08-01	16085	9	10+00S	19200		1090	
22	S20-06-01	16091	9	10+45S	2250		393	
34	SS-34-06-01	19495042	9	9+10S	1100		1400	
35	SS-35-08-01	19495043	9	10+10S	220		2500	
23	S21-01-01	16092	10	11+00S	3700		1170	
24	S22-03-01	16094	11	15+50S	275000		84900	
31	SS-31-06-01	19495039	11	15+50S	<33		97	
25	S23-06-01	16095	12	15+50S	5400		1490	
26	S24-04-01	16096	12	15+50N	13700		226	
27	S25-02-01	16086	13	13+85N	2400		603	
28	S25-02-02	16097	13	13+85N	5600	4000	1980	1291.5
29	S26-03-01	16098	13	13+70N	478		13200	
32	SS-32-06-01	19495040	13	13+85N	31		43	
33	SS-33-08-01	19495041	13	13+15N	<33		18	
30	S27-04-01	16087	14	14+30S	35600		11500	

N/A = Not Applicable

Prepared By: MV
Date: 9/19/95
Reviewed By: [illegible]
Date: 9/20/95

Table 16: Base Neutral Sample Summary

Sample No.	Sample ID		Action Level	1,4-Dichlorobenzene	4-Methylphenol	Naphthalene	2-Methylnaphthalene	Acenaphthylene	Dibenzofuran	Fluorene	4,6-Dinitro-2-methylphenol	N-Nitrosodiphentlamine	Phenanthrene	Anthracene	Carbazole	Di-n-Butylphthalate
				8.5	50*	13	36.4	41	6.2	50	50*	-	50	50	50*	50*
2	SS-02-08-01			ND	ND	ND	ND	ND	56 J	85 J	ND	ND	420 J	130 J	54 J	1500 B
2	SS-02-08-02	dup		ND	ND	960	310 J	430 J	300 J	480 J	ND	ND	2400	680	290 J	2600 B
2	SS-02-08-02	dup		ND	ND	960	310 J	420 J	330 J	480 J	ND	ND	2400	680	290 J	2500 B
5	SS-04-06-01			ND	87 J	98 J	120 J	ND	82 J	ND	ND	ND	ND	ND	ND	170 JB
5	SS-04-06-01	dup		ND	96 J	94 J	72 J	ND	83 J	ND	ND	250 J	ND	ND	ND	560 B
9	SS-09-01-01			ND	ND	ND	ND	ND	ND	ND	ND	ND	220 J	ND	ND	2200 B
11	SS-11-06-01			ND	480	ND	ND	ND	ND	64 J	ND	ND	760	130 J	100 J	1800 B
14	SS-14-06-01			ND	ND	ND	ND	ND	ND	ND	130 J	ND	430 J	ND	ND	1400 B
16	SS-16-08-01			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	270 JB
16	SS-16-08-01	dup		ND	ND	ND	ND	ND	ND	ND	ND	ND	180 J	ND	ND	220 JB
19	SS-19-08-01			ND	ND	ND	ND	ND	ND	ND	130 J	ND	ND	ND	ND	330 JB
19	SS-19-08-01	dup		ND	ND	ND	ND	ND	ND	ND	130 J	ND	ND	ND	ND	330 JB
25	SS-25-02-02			ND	ND	ND	ND	65 J	58 J	120 J	ND	ND	1100	190 J	100 J	240 JB
27	SS-27-04-01			120 J	ND	570 J	570 J	3400	1600	790	ND	260 J	3200	3200	ND	ND
27	SS-27-04-01	dup		130 J	ND	600 J	570 J	580 J	1400	1700	ND	ND	3400	4300	ND	ND

Sample No.	Sample ID		Action Level	Fluoranthene	Pyrene	Butyl benzyl phthalate	Benzo(a)Anthracene	Chrysene	bis(2-Ethylhexyl) Phthalate	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene	TOTAL BN	
				50	50	50	0.22	0.4	50	1.1	1.1	0.06	3.2	0.01	50	ppb	ppm
2	SS-02-08-01			320 J	300 J	ND	160 J	200 J	160 J	180 J	58 J	120 J	83 J	ND	58 J	2,384	2.38
2	SS-02-08-02	dup		1300	2000	ND	900	1000	210 J	850	290 J	880	520	170 J	400 J	14,370	14.37
2	SS-02-08-02	dup		1400	1900	ND	1200	1100	250 J	1000	280 J	880	640	350 J	510	15,380	15.38
5	SS-04-06-01			ND	ND	ND	550	310 J	520	260 J	ND	240 J	280 J	ND	350 J	2,897	2.90
5	SS-04-06-01	dup		ND	ND	ND	1000	320 J	840	270 J	120 J	200 J	400 J	ND	420 J	4,165	4.17
9	SS-09-01-01			380 J	360 J	ND	150 J	230 J	160 J	280 J	94 J	180 J	120 J	ND	110 J	2,284	2.28
11	SS-11-06-01			1300	1200	89 J	460 J	760	1100	880	330 J	560	350 J	92 J	330 J	8,985	8.99
14	SS-14-06-01			450 J	510 J	ND	230 J	340 J	310 J	330 J	130 J	230 J	180 J	ND	170 J	3,440	3.44
16	SS-16-08-01			120 J	210 J	ND	180 J	190 J	ND	110 J	51 J	140 J	100 J	ND	110 J	1,211	1.21
16	SS-16-08-01	dup		140 J	210 J	ND	94 J	270 J	ND	110 J	ND	85 J	76 J	ND	71 J	1,236	1.24
19	SS-19-08-01			ND	440 J	ND	280 J	440 J	73 J	200 J	80 J	110 J	97 J	66 J	77 J	1,993	1.99
19	SS-19-08-01	dup		240 J	560	ND	300 J	540	110 J	200 J	53 J	150 J	100 J	76 J	91 J	2,550	2.55
25	SS-25-02-02			1300	1600	ND	540	900	560	1300	330 J	740	510	140 J	440 J	9,993	9.99
27	SS-27-04-01			ND	ND	ND	3300	2200	ND	3100	1500	3000	4500	1800	4400	37,510	37.51
27	SS-27-04-01	dup		ND	ND	ND	3400	2800	ND	2800	2200	1400	6000	1300	6200	38,780	38.78

QUALIFIERS

J Indicated an estimated response. The flag is used either when estimating a concentration for tentatively identified compounds 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 sample quantification limit but greater than zero.

ND Compound not detected.

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

NOTES

All concentrations are in ppm unless otherwise noted.
Action Levels were obtained from,
"Cleanup Criteria for Contaminated Soil and Groundwater," ASTM Data Series: DS 64

Table 17: TPH and Lead Analysis Summary

Concentration (ppm)	TPH (EPA Method 418.1)	Lead (ASP Method 91-2)
(ND)	2	1
<250	10	9
250 - 499	6	6
500 - 999	4	11
1,000 - 9,999	7	15
>10,000	6	3
TOTAL	45	45

3. REMEDIATION ALTERNATIVE EVALUATION

NES has analyzed the possible use of three alternatives for remediating the contamination in Slate Bottom Slate Bottom Creek. The alternatives are excavation, containment, and no action. These alternatives were selected based upon Site accessibility, the level of contamination, human and wildlife exposure, the construction schedule, cost, and future contamination migration potential.

3.1 EXCAVATION

In this option, the contaminated material will be excavated and disposed in the landfill cap currently being constructed on the Union Road Remediation Site.

3.1.1 Site Preparation

Excavation of the contaminated material in Slate Bottom Creek would require significant Site preparation before excavation could begin due to the moderately forested and hilly land surrounding the Site. In addition, approximately 0.5 acres (not including the Slate Bottom Creek proper) has been delineated as wetlands. As the contamination is randomly distributed throughout the study area, multiple access locations will need to be created to provide access for excavators and dump trucks. These access roads will be located to minimize disruption to vegetation and topography. Based on contamination location, a minimum of three staging areas will need to be created in the study area.

3.1.2 Slate Bottom Slate Bottom Creek Preparation

The section of Slate Bottom Creek that comprises the study area has a relatively low flow rate. However, Slate Bottom Creek depth varies greatly throughout the study area. This results in a significant amount of stagnant water in random locations throughout the study area. Due to the loosely compacted sediments on the Slate Bottom Creek bottom, the creek must be temporarily diverted and the stagnant water drained before any excavation and/or further delineation can take place within the creek bottom. Temporary coffer dams will be constructed at the upstream and downstream boundaries of the section to be excavated or water dams will be used to section off half the creek, routing water to one half of the creek while excavating the other.

It is estimated that the creek excavation activities will take place in three steps:

1) The downstream face of the Conrail Culvert (Sta. 15+50) to Sta. 9+00,
2) Sta. 9+00 to Sta. 4+00, and
3) Sta. 4+00 to the upstream face of the Union Road Culvert (Sta. 0+00).

Excavation activities will proceed in a upstream to downstream direction to minimize contamination of remediated sections.

3.1.3 Construction Staging Location

A majority of the construction and excavation activities will occur along the North bank of Slate Bottom Creek. This location was chosen based upon Site accessibility, Site topography, and ease of transportation of waste material. The creek bottom is stable in limited areas that will allow access to most of the creek from this bank when the creek is diverted. However, the constructed

access road and staging activities will occur on the edge of a 0.35 acre wetland. This wetland will be restored following excavation activities.

To gain access to the contaminated material, temporary roads are required. The temporary access road will be approximately 30 feet wide along the creek banks as shown in Figure 11. The road is positioned such that its construction will minimize disturbance to the area and provide the most stable road.

3.1.4 Remediation

Contaminated material will be removed from the creek by an excavator. It is estimated that the top 18" of soil and sediments is contaminated and will be removed. Due to the quantity and nature of the contaminated material, hand excavation is not feasible. The excavator will either immediately load the material into a dump truck or transport the material to a prepared staging area to be loaded into dump trucks.

3.1.5 Confirmation Sampling

Excavation limits will be confirmed by testing with TPH and Lead analysis. Soil samples will be collected on a 50 foot grid system to ensure removal of contaminated material within the excavated area according to the following Site soil cleanup criteria:

Total Petroleum Hydrocarbons (TPH) < 100 mg/kg

Lead < 110 mg/kg.

For samples above the preceding criteria, an area half the distance to the next sample and six inches in depth will be excavated, resampled and reanalyzed.

3.1.6 Waste Transportation and Disposal

As a worst case scenario, the entire section of the Slate Bottom Creek channel bottom between the Conrail and Union Road Culverts will be excavated. Using an average width of 25 ft and an approximate depth of 18", 2,150 yd^3 will be excavated. This volume is an estimate due to the unknown vertical extent of contamination in the study area. The excavated material is to be transported back to the main Union Road Site and placed under the constructed landfill cap. Transportation of the material will occur along the South bank of the creek to the Union Road Main Site to eliminate hazardous waste transport on Town of Cheektowaga and State roads. An access road with all necessary clearing, grubbing and grading performed will be constructed for this purpose.

3.1.7 Excavation Alternative Cost

Based upon an estimated quantity of 2,150 cubic yards, the cost for removing the contaminated material and placing it within the capping limits located at the Union Road Remediation Site is approximately $750,000 depending on weather during the remediation activities. This estimate is subject to change based on field conditions and if more contaminated material is discovered.

3.2 CONTAINMENT

In this option, the contaminated material will be contained *in-situ* by a Reno mattress or the Armorform® erosion control device. The Reno mattress system consists of wire baskets 6" thick that are filled with various sizes of stone and rip rap. The Reno Mattresses are highly effective in controlling erosion but remain moderately porous. The Armorform® system consists of a woven polypropylene slit film yarn form that is filled with a pumpable fine aggregate concrete (structural grout) that forms an erosion control mat. The form ranges from 2.2" to 8" thick and is highly effective in controlling erosion and seepage of contamination through the material.

3.2.1 Site Preparation

Since the banks of Slate Bottom Creek are near vertical in many places, they must be graded to a minimum of a 1:1 (H:V) slope before placement of the erosion control material can occur. This preliminary grading can be done with a small excavator that has the capacity to reach across the Slate Bottom Creek. If the Armorform® erosion control system is used, an access road will need to be constructed for a small excavator. If Reno Mattresses are used, the access road must be wide enough for a larger excavator and dump trucks carrying rip rap and other construction materials.

3.2.2 Slate Bottom Creek Preparation

While the erosion control devices will contain the contamination, some minor grading of the Slate Bottom Creek channel will be required. Large boulders and stumps will need to be removed and sharp depressions will be filled in. Diversion of Slate Bottom Creek flow and drainage of the stagnant water will most likely be required for both containment option.

3.2.3 Construction Staging Location

Using the Armorform® erosion control system, two staging locations are required for the entire Site. The concrete truck can be located a maximum of 300' from the creek while the concrete is pumped to the Slate Bottom Creek. If Reno mattresses are used, the entire proposed access road will be used for placement of the rip rap. A 0.35 acre wetland is located on the North bank of the creek that will be disturbed during construction activities. This wetland will be reconstructed following remediation activities.

3.2.4 Remediation

The Armorform® forms are constructed in custom prepared widths and lengths. It is estimated that 10 forms will be required to cover the entire area between the two culverts. These forms are spread by manual labor over the prepared and graded creek bottom and banks. A concrete truck pumps the grout into the forms through a 2" diameter grout injection pipe. While construction can occur under water, the Slate Bottom Creek will most likely be drained for grading purposes.

The Reno Mattresses are installed by laying out the wire mesh on the drained Slate Bottom Creek bottom and banks and filling them with rip rap. Once filled, the wire mesh is then connected with wire.

3.2.5 Waste Transportation and Disposal

The goal of this remediation alternative is to eliminate the need for transportation and disposal of waste material. Therefore, no waste material will be generated and transported during remediation activities.

3.2.6 Containment Alternative Cost

Based upon an estimated width of 40 ft (including banks) and a 1,550 ft length, 62,000 square feet will be covered in the study area. Based on an estimate from a sales representative, the Armorform® erosion control system costs approximately $2.00/square feet for an approximate cost of $124,000. This estimate includes raw materials and installation of the system. The cost of installing the Reno Mattresses is approximately $1.85/ SF. for a cost of $115,000. To include for the clearing and grubbing activities, pre-installation grading, and access road construction, the total cost will increase to a total of approximately $585,000 depending on the weather during the remediation activities.

3.3 NO ACTION

Under this alternative, the contaminated material would be left in place and remain undisturbed.

3.3.1 Site Preparation

No Site preparation is required.

3.3.2 Slate Bottom Creek Preparation

No preparation of Slate Bottom Creek is required.

3.3.3 Construction Staging Location

No staging locations will be required.

3.3.4 Waste Transportation and Disposal

No waste would be generated thereby eliminating the need for transportation and disposal.

3.3.5 No Action Alternative Cost

There is no cost associated with this remediation alternative.

4. CONCLUSION AND RECOMMENDATIONS

Due to the level of contamination in the study area, it has been determined that the No Action alternative is not feasible as a remediation solution. The two remaining alternatives, excavation, and containment with Armorform® or Reno mattresses, will be compared.

4.1 SITE ACCESSIBILITY

Based on staging and access road requirements of each of the remediation alternatives, containment using the Armorform® erosion control system would require the least amount of Site access for construction. Two separate staging locations will be required for concrete truck access as a majority of the construction activities will be completed by hand. Both the Reno mattress and excavation activities will require dump truck and excavator traffic during construction. The access roads that will be constructed will require both clearing and grubbing of trees and brush and moderate topographic grading. Regardless of the remediation option chosen, the 0.35 acre wetland on the North bank of the creek will most likely be disturbed during construction. The wetland will be replaced following completion of construction activities.

4.2 CONTAMINANT FATE

Of the samples collected from the sediments in Slate Bottom Creek, 13 TPH samples were determined to contain concentrations above the site cleanup level of 1000 ppm, and 35 lead samples were determined to contain concentrations above the site cleanup level of 250 ppm. In a few select locations, free product was detected. In time, natural attenuation might eventually reduce the TPH levels to an acceptable level; however, the lead will not degrade or decompose. The most feasible option with respect to the level of contamination in the sediments is to completely excavate the sediments and dispose of them in the landfill on the main Union Road Site. While containment with the Armorform® erosion control system may adequately prevent the contamination from migrating further downstream, there will still exist a potential for human and wildlife exposure. The contaminated material, once placed within the capping limits will be securely protected from human and wildlife exposure. The material will be placed under a double liner cap and maintained and monitored for a minimum for 30 years.

4.3 CONSTRUCTION SCHEDULE

While each of the remediation options will take roughly the same amount of time, the excavation option is under a time constraint due to the scheduled installation of the landfill cap on the main Union Road Site. The construction of the impervious liners for the landfill cap is scheduled for the beginning of the construction season in 1996, therefore, all contaminated material must be placed within the capping limits prior to the winter season. This leaves a few months to obtain the necessary permits, prepare the Site, and complete all construction activities. Given the relative accessibility of the Site and the degree of Site preparation required, the schedule for excavating the material would have little margin for error or uncertainties. Since the exact amount of contamination is unknown, the containment option seems more feasible in terms of scheduling because the Reno mattresses or the Armorform® erosion control system would allow the construction activities to occur without time constraints.

4.4 COST

Excavation and placement on cap	$635,000 to $755,000
Reno Mattress	$525,000 to $570,000
Armorform®	$535,000 to $585,000

5. RECOMMENDATION

Based on the criteria previously mentioned, the excavation option is the preferred alternative for remediating the contamination of the sediments in Slate Bottom Creek. The high levels of lead contamination almost necessitate the complete removal of the contaminated material from the creek banks. Although the containment with the Armorform® system will require less disruption to the area and will be slightly lower in cost, the contaminated material will still exist on Site. In the event of a major storm or future stream improvements, the waste material may become disturbed and migrate further downstream. Also by opting to remove the material, operations and maintenance of the area would be eliminated.

6. SLATE BOTTOM CREEK EXCAVATION WORK PLAN

The following work plan is a description of anticipated procedures required for excavation of contaminated material in Slate Bottom Creek. These procedures are based upon Site characteristics, accessibility, and construction schedule.

6.1 PERMITTING

Because the work will disturb wetlands in the area, an Army Corps of Engineers permit will be required. Since excavation will enlarge the Slate Bottom Creek cross section profile, a HEC-2 water surface profile study will not be required for the Federal Emergency Management Association (FEMA). The Town of Cheektowaga has a tree removal permit which is required prior to the removal of any trees.

6.2 SITE PREPARATION

Extensive Site preparation must be done before any excavation activities can occur in or along the banks of Slate Bottom Creek, because waste material should not be transported on public Cheektowaga roads. An access road which connects the downstream Site to the main Union Road Site must be constructed. This access road will approach the downstream area from the South of the Conrail Culvert outlet (see Figure 1). The proposed access road will be located in areas where previous access roads were constructed by the Town of Cheektowaga during channel maintenance. The road will proceed along the South bank for 100-150 ft and then cross the Slate Bottom Creek to the North bank over the gravel bed that lies in the channel. Minimal clearing and grubbing will be required in this area. The North bank of the Slate Bottom Creek is composed of a 30 feet 3:1 (H:V) slope. This slope will be graded to allow excavator access. Past the 30 foot slope, the grade flattens to form an access trail. The road will follow the trail on the North bank until the first 90° bend in the channel where the tributary from the residential area intersects the Slate Bottom Creek. The access road will cross this creek to the open area created by the horseshoe shape of the creek channel. The residential tributary will continue to flow under the access road through a reinforced concrete pipe (RCP) or other similar drainage pipe.

A 0.35 acre wetland lies on the land immediately west of this channel bend. Vegetation in this area is moderately dense and will require some clearing. The access road will follow the channel banks where the first 30 feet of the bank will be cleared and graded for equipment access. A 200 foot length of the Eastern boundary of the wetlands has been delineated at approximately 15 to 40 feet from the Slate Bottom Creek banks. Some of the access road will encroach on the wetlands' edge. Portions of the wetland that are otherwise disturbed will be fully restored following remediation activities.

The access road will follow the horseshoe bend in the channel until Sta. 3+00 where creek flow becomes shallow and the soft sediment bottom is replaced by gravel and rocks. At this location, the access road will continue from the North bank into the Slate Bottom Creek channel. Contamination located further downstream is located only along the South bank of the creek in a 150 foot plume. Due to the construction debris on the North bank, construction equipment traffic will proceed along the South bank to the Union Road culvert.

During Site preparation and remediation activities, the flow of water between the two culverts will be diverted and/or pumped from the Conrail culvert to the Union Road culvert. Earthen cofferdams or waterdams will be constructed. Sections of the Slate Bottom Creek will be blocked and the water will be routed through pipes or tubes and half the creek will be excavated at a time.

Erosion control measures and all other applicable provisions (technical specifications and work plan) which were prepared for the Union Road Remediation Project will be implemented during this project. In addition, all erosion control measures and restoration of disturbed areas will be in accordance with the Army Corps Permit submitted September 8, 1995 and approved November 1, 1995 (approval letter is included as Attachment B). ⚠

6.3 EXCAVATION

Excavation activities will be performed using a tracked excavator with an arm of sufficient length to reach across the creek channel (approx. 25 ft.). It is anticipated that approximately 2,150 yd3 will be excavated (assuming a depth of 18"). Excavation will continue until visual signs of contamination are not present. Confirmation samples will be collected for analysis. A 50 foot grid coordinate system will be used for the location of verification samples.

Excavated material will either be loaded directly into dump trucks for transportation or carried to a loading area. In areas where there is insufficient room for both excavator and dump truck, a loading area will be prepared. The loading area will consist of 3-ply 40 mil polyethylene (PE) liner material with the ends of the material burned together. The liner will be of sufficient size to contain 10 cu. yd. of material. The edges of the liner will be bermed to prevent any contaminated liquid from migrating. New PE layers will be added as needed. Dump trucks will then be loaded from this area.

6.4 SITE CLOSURE

Once all samples have been verified as clean, the slope vegetation will be restored. Following slope restoration, the cofferdams will be removed and the Slate Bottom Creek channel will be allowed to fill. In addition, any sections of the wetlands that have been disturbed will also be restored.

NES will accompany NYSDEC during a visual investigation of Slate Bottom Creek, downstream of the Union Road Culvert, during the remediation of the area between the Conrail and Union Road Culverts. ⚠

6.5 SCHEDULE

As previously stated, the construction of the impervious liners for the landfill cap is scheduled for the beginning of the construction season in 1996. All contaminated material must be placed within the capping limits prior to the winter season of 1995. An application to the Army Corps. has been submitted in the first week of September, 1995. The tree removal permit from the Town of

Cheektowaga will be obtained within the month of September, 1995. The goal is to commence activities by clearing the required trees and installing the access roads by the first week of October, 1995. After the access roads are installed and the Army Corps has granted permission, excavation/remediation activities will commence. The entire remediation efforts are estimated to take no more than two months to complete. The goal is to complete all activities prior to the winter season of 1995.

Attachment A
Laboratory Result Data Sheets

General Testing Corporation

Reported: 06/15/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S161

Date Sampled : 05/12/95 **GTC Order # :** 16062 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000212

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
TOTAL PETROLEUM HYDROCARBONS	33.0	10700	UG/G	05/17/95	8.0
PERCENT SOLIDS	1.0	81.3	%	05/22/95	1.0

00080

General Testing Corporation

Reported: 06/15/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S281

Date Sampled : 05/12/95 **GTC Order # :** 16064 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000212

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
OTAL PETROLEUM HYDROCARBONS	33.0	2920	UG/G	05/17/95	2.0
PERCENT SOLIDS	1.0	67.6	%	05/22/95	1.0

00081

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S282

Date Sampled : 05/12/95 **GTC Order # :** 16065 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000212

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
TOTAL PETROLEUM HYDROCARBONS	33.0	1880	UG/G	05/17/95	1.0
PERCENT SOLIDS	1.0	67.6	%	05/22/95	1.0

00082

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S361

Date Sampled : 05/12/95 **GTC Order # :** 16066 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000212

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
TOTAL PETROLEUM HYDROCARBONS	33.0	101	UG/G	05/17/95	1.0
PERCENT SOLIDS	1.0	68.3	%	05/22/95	1.0

00083

General Testing Corporation

Reported: 06/15/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S461

Date Sampled : 05/12/95 **GTC Order # :** 16068 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000212

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
TOTAL PETROLEUM HYDROCARBONS	33.0	14400	UG/G	05/17/95	8.0
PERCENT SOLIDS	1.0	67.5	%	05/22/95	1.0

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S561

Date Sampled : 05/12/95 **GTC Order # :** 16069 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000212

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
OTAL PETROLEUM HYDROCARBONS	33.0	3070	UG/G	05/18/95	2.0
ERCENT SOLIDS	1.0	69.8	%	05/22/95	1.0

00085

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S661

Date Sampled : 05/12/95 **GTC Order # :** 16070 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000212

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
OTAL PETROLEUM HYDROCARBONS	33.0	43.2 U	UG/G	05/18/95	1.0
ERCENT SOLIDS	1.0	76.4	%	05/22/95	1.0

00086

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S781

Date Sampled : 05/12/95 **GTC Order # :** 16071 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000212

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
TOTAL PETROLEUM HYDROCARBONS	33.0	287	UG/G	05/18/95	1.0
PERCENT SOLIDS	1.0	70.5	%	05/22/95	1.0

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S861

Date Sampled : 05/12/95 **GTC Order # :** 16076 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000212

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
TOTAL PETROLEUM HYDROCARBONS	33.0	5010	UG/G	05/18/95	4.0
PERCENT SOLIDS	1.0	84.7	%	05/22/95	1.0

00088

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S911

Date Sampled : 05/12/95 **GTC Order # :** 16077 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000212

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
TOTAL PETROLEUM HYDROCARBONS	33.0	425	UG/G	05/18/95	1.0
PERCENT SOLIDS	1.0	58.8	%	05/22/95	1.0

00089

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S1031

Date Sampled : 05/12/95 **GTC Order # :** 16078 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000212

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
TOTAL PETROLEUM HYDROCARBONS	33.0	977	UG/G	05/18/95	1.0
PERCENT SOLIDS	1.0	66.6	%	05/22/95	1.0

00090

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S1161

Date Sampled : 05/12/95 **GTC Order # :** 16079 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000212

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
TOTAL PETROLEUM HYDROCARBONS	33.0	1100	UG/G	05/18/95	1.0
PERCENT SOLIDS	1.0	60.0	%	05/22/95	1.0

00091

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S1261

Date Sampled : 05/12/95 **GTC Order # :** 16080 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000212

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
TOTAL PETROLEUM HYDROCARBONS	33.0	4740	UG/G	05/19/95	2.0
PERCENT SOLIDS	1.0	56.8	%	05/22/95	1.0

00092

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S1341

Date Sampled : 05/12/95 **GTC Order # :** 16081 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000212

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
OTAL PETROLEUM HYDROCARBONS	33.0	8580	UG/G	05/19/95	4.0
ERCENT SOLIDS	1.0	61.1	%	05/22/95	1.0

00093

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S1461

Date Sampled : 05/12/95 **GTC Order # :** 16082 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000212

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
TOTAL PETROLEUM HYDROCARBONS	33.0	5100	UG/G	05/19/95	2.0
ERCENT SOLIDS	1.0	49.4	%	05/22/95	1.0

00094

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S1531

Date Sampled : 05/12/95 **GTC Order # :** 16083 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000212

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
TOTAL PETROLEUM HYDROCARBONS	33.0	84.0	UG/G	05/19/95	1.0
PERCENT SOLIDS	1.0	61.7	%	05/22/95	1.0

00095

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S1532

Date Sampled : 05/12/95 **GTC Order # :** 16088 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000213

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
OTAL PETROLEUM HYDROCARBONS	33.0	206 *	UG/G	06/02/95	1.0
ERCENT SOLIDS	1.0	57.4	%	05/22/95	1.0

00019

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S1681

Date Sampled : 05/12/95 **GTC Order # :** 16084 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000212

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
TOTAL PETROLEUM HYDROCARBONS	33.0	6490	UG/G	05/19/95	4.0
PERCENT SOLIDS	1.0	72.6	%	05/22/95	1.0

00096

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S1712

Date Sampled : 05/12/95 **GTC Order # :** 16089 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000213

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
OTAL PETROLEUM HYDROCARBONS	33.0	4620 *	UG/G	05/24/95	4.0
ERCENT SOLIDS	1.0	65.3	%	05/22/95	1.0

00020

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S1861

Date Sampled : 05/12/95 **GTC Order # :** 16090 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000213

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
TOTAL PETROLEUM HYDROCARBONS	33.0	8350 *	UG/G	05/24/95	4.0
PERCENT SOLIDS	1.0	52.1	%	05/22/95	1.0

00021

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S1981

Date Sampled : 05/12/95 **GTC Order # :** 16085 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000212

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
OTAL PETROLEUM HYDROCARBONS	33.0	19200	UG/G	05/19/95	16.0
ERCENT SOLIDS	1.0	62.5	%	05/22/95	1.0

00097

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S2061

Date Sampled : 05/12/95 **GTC Order # :** 16091 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000213

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
TOTAL PETROLEUM HYDROCARBONS	33.0	2250 *	UG/G	05/24/95	3.0
PERCENT SOLIDS	1.0	73.4	%	05/22/95	1.0

00022

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S2110

Date Sampled : 05/12/95 **GTC Order # :** 16092 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000213

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
TOTAL PETROLEUM HYDROCARBONS	33.0	3700 *	UG/G	05/24/95	3.0
ERCENT SOLIDS	1.0	65.7	%	05/22/95	1.0

00023

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S2231

Date Sampled : 05/12/95 **GTC Order # :** 16094 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000213

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
TOTAL PETROLEUM HYDROCARBONS	33.0	275000 *	UG/G	05/24/95	200.0
PERCENT SOLIDS	1.0	69.2	%	05/22/95	1.0

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S2361

Date Sampled : 05/12/95 **GTC Order # :** 16095 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000213

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
TOTAL PETROLEUM HYDROCARBONS	33.0	5400 *	UG/G	05/24/95	10.0
PERCENT SOLIDS	1.0	80.3	%	05/22/95	1.0

00025

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S2441

Date Sampled : 05/12/95 **GTC Order # :** 16096 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000213

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
OTAL PETROLEUM HYDROCARBONS	33.0	13700 *	UG/G	05/24/95	10.0
ERCENT SOLIDS	1.0	56.3	%	05/22/95	1.0

00026

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S2521

Date Sampled : 05/12/95 **GTC Order # :** 16086 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000212

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
TOTAL PETROLEUM HYDROCARBONS	33.0	2400	UG/G	05/24/95	2.0
PERCENT SOLIDS	1.0	67.1	%	05/22/95	1.0

00098

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S2522

Date Sampled : 05/12/95 **GTC Order # :** 16097 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000213

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
TOTAL PETROLEUM HYDROCARBONS	33.0	5600 *	UG/G	05/24/95	4.0
PERCENT SOLIDS	1.0	68.6	%	05/22/95	1.0

00027

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S2631

Date Sampled : 05/12/95 **GTC Order # :** 16098 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000213

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
TOTAL PETROLEUM HYDROCARBONS	33.0	478 *	UG/G	05/24/95	1.0
PERCENT SOLIDS	1.0	64.9	%	05/22/95	1.0

00028

General Testing Corporation

Reported: 06/08/95

NES, Inc.
Project Reference: UNION ROAD LANDFILL-CHEEKTOWAGA
Client Sample ID : S2741

Date Sampled : 05/12/95 **GTC Order # :** 16087 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 05/12/95 **Submission #:** 9505000212

ANALYTE	PQL	RESULT	DRY WT. UNITS	DATE ANALYZED	ANALYTICAL DILUTION
OTAL PETROLEUM HYDROCARBONS	33.0	35600	UG/G	05/24/95	24.0
ERCENT SOLIDS	1.0	54.8	%	05/22/95	1.0

00099

ATE: 07/19/95

Upstate Laboratories, Inc.
Analysis Results
eport Number: 19495039
lient I.D.: NES, INC.

APPROVAL:
QC:
Lab I.D.: 10170
Sampled by: Client

D:19495039 Mat:Soil 2035-300 DOWNSTREAM INVESTIGATION IS-31-06-01 0930H 07/12/95 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
	Percent Solids	79%	07/13/95		WA9200
Total	Lead	97mg/kg dw	07/14/95		MA4116
	Petroleum, TPH by EPA Method 418.1	<33mg/kg dw	07/13/95		PA1935

D:19495040 Mat:Soil 2035-300 DOWNSTREAM INVESTIGATION IS-32-06-01 0950H 07/12/95 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
	Percent Solids	83%	07/13/95		WA9200
Total	Lead	43mg/kg dw	07/14/95		MA4116
	Petroleum, TPH by EPA Method 418.1	31mg/kg dw	07/13/95		PA1935

D:19495041 Mat:Soil 2035-300 DOWNSTREAM INVESTIGATION IS-33-06-01 1015H 07/12/95 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
	Percent Solids	83%	07/13/95		WA9200
Total	Lead	18mg/kg dw	07/14/95		MA4116
	Petroleum, TPH by EPA Method 418.1	<33mg/kg dw	07/13/95		PA1935

D:19495042 Mat:Soil 2035-300 DOWNSTREAM INVESTIGATION IS-34-06-01 1030H 07/12/95 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
	Percent Solids	85%	07/13/95		WA9200
Total	Lead	1400mg/kg dw	07/14/95		MA4116
	Petroleum, TPH by EPA Method 418.1	1100mg/kg dw	07/13/95		PA1935

ID:19495043 Mat:Soil 2035-300 DOWNSTREAM INVESTIGATION SS-35-06-01 1045H 07/12/95 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
	Percent Solids	70%	07/13/95		WA9200
Total	Lead	1100mg/kg dw	07/14/95		MA4116
	Petroleum, TPH by EPA Method 418.1	220mg/kg dw	07/13/95		PA1935

dw = Dry weight

DATE: 07/19/95

RECEIVED

pstate Laboratories, Inc.
Analysis Results
Report Number: 19495039
lient I.D.: NES, INC.

APPROVAL:
QC:
Lab I.D.: 10170
Sampled by: Client

ID:19495044 Mat:Soil 2035-300 DOWNSTREAM INVESTIGATION IS-36-06-01 1100H 07/12/95 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
	Percent Solids	82%	07/13/95		WA9200
Total	Lead	770mg/kg dw	07/14/95		MA4116
	Petroleum, TPH by EPA Method 418.1	430mg/kg dw	07/13/95		PA1935

ID:19495045 Mat:Soil 2035-300 DOWNSTREAM INVESTIGATION IS-37-06-01 1115H 07/12/95 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
	Percent Solids	90%	07/13/95		WA9200
Total	Lead	500mg/kg dw	07/14/95		MA4116
	Petroleum, TPH by EPA Method 418.1	450mg/kg dw	07/13/95		PA1935

D:19495046 Mat:Soil 2035-300 DOWNSTREAM INVESTIGATION IS-38-06-01 1130H 07/12/95 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
	Percent Solids	68%	07/13/95		WA9200
Total	Lead	55mg/kg dw	07/14/95		MA4116
	Petroleum, TPH by EPA Method 418.1	<33mg/kg dw	07/13/95		PA1935

:19495047 Mat:Soil 2035-300 DOWNSTREAM INVESTIGATION IS-39-06-01 1145H 07/12/95 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
	Percent Solids	78%	07/13/95		WA9200
Total	Lead	630mg/kg dw	07/14/95		MA4116
	Petroleum, TPH by EPA Method 418.1	98mg/kg dw	07/13/95		PA1935

:19495048 Mat:Soil 2035-300 DOWNSTREAM INVESTIGATION IS-40-06-01 1200H 07/12/95 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
	Percent Solids	81%	07/13/95		WA9200
Total	Lead	21mg/kg dw	07/14/95		MA4116
	Petroleum, TPH by EPA Method 418.1	<33mg/kg dw	07/13/95		PA1935

dw = Dry weight

DATE: 07/19/95

Spectrum Laboratories, Inc.
Analysis Results
Report Number: 19495039
Client I.D.: NES, INC.

RECEIVED

APPROVAL:
QC:
Lab I.D.: 10170
Sampled by: Client

ID:19495049 Mat:Soil 2035-300 DOWNSTREAM INVESTIGATION SS-41-06-01 1215H 07/12/95 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
	Percent Solids	59%	07/13/95		WA9200
Total	Lead	1200mg/kg dw	07/14/95		MA4116
	Petroleum, TPH by EPA Method 418.1	580mg/kg dw	07/13/95		PA1935

ID:19495050 Mat:Soil 2035-300 DOWNSTREAM INVESTIGATION IS-42-06-01 1230H 07/12/95 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
	Percent Solids	75%	07/13/95		WA9200
Total	Lead	720mg/kg dw	07/14/95		MA4116
	Petroleum, TPH by EPA Method 418.1	91mg/kg dw	07/13/95		PA1935

dw = Dry weight

DATE: 07/21/95

[redacted]pstate Laboratories, Inc.
Analysis Results
Report Number: 19595072
[redacted]lient I.D.: NES, INC.

RECEIVED
07/13/95

APPROVAL: [redacted]
QC: [redacted]
Lab I.D.: 10170
Sampled by: Client

ID:19595072 Mat:Soil 2035 UNION ROAD 95-16 0842H 07/13/95 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
	Percent Solids	81%	07/14/95		WA9222
Total	Lead	470mg/kg dw	07/15/95		MA4120
	Petroleum, TPH by EPA Method 418.1	270mg/kg dw	07/14/95		PA1938

ID:19595073 Mat:Soil 2035 UNION ROAD 95-17 0852H 07/13/95 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
	Percent Solids	71%	07/14/95		WA9222
Total	Lead	95mg/kg dw	07/15/95		MA4120
	Petroleum, TPH by EPA Method 418.1	<33mg/kg dw	07/14/95		PA1938

[redacted]D:19595074 Mat:Soil 2035 UNION ROAD 1S-43-06-01 0950H 07/13/95 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
	Percent Solids	90%	07/14/95		WA9222
Total	Lead	1300mg/kg dw	07/15/95		MA4120
	Petroleum, TPH by EPA Method 418.1	770mg/kg dw	07/14/95		PA1938

[redacted]D:19595075 Mat:Soil 2035 UNION ROAD 1S-44-06-01 1021H 07/13/95 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
	Percent Solids	93%	07/14/95		WA9222
Total	Lead	900mg/kg dw	07/15/95		MA4120
	Petroleum, TPH by EPA Method 418.1	900mg/kg dw	07/14/95		PA1938

[redacted]:19595076 Mat:Soil 2035 UNION ROAD SS-45-06-01 1044H 07/13/95 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
	Percent Solids	80%	07/14/95		WA9222
Total	Lead	33mg/kg dw	07/15/95		MA4120
	Petroleum, TPH by EPA Method 418.1	96mg/kg dw	07/14/95		PA1938

dw = Dry weight

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S161

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc.

Lab Code: 10145 Case No.: SAS No.: SDG No.: S161

Matrix (soil/water): SOIL Lab Sample ID: 16062

Level (low/med): LOW Date Received: 05/12/95

% Solids: 81.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	605		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

00005

FORM I - IN

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S281__

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc.

Lab Code: 10145 Case No.: SAS No.: SDG No.: S161

Matrix (soil/water): SOIL Lab Sample ID: 16064

Level (low/med): LOW Date Received: 05/12/95

% Solids: 67.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	784		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S282__

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc.

Lab Code: 10145 Case No.: SAS No.: SDG No.: S161

Matrix (soil/water): SOIL Lab Sample ID: 16065

Level (low/med): LOW Date Received: 05/12/95

% Solids: 67.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	819		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

00072

FORM I - IN

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S361__

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc.

Lab Code: 10145 Case No.: SAS No.: SDG No.: S161

Matrix (soil/water): SOIL Lab Sample ID: 16066

Level (low/med): LOW Date Received: 05/12/95

% Solids: 68.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum		-		-
7440-36-0	Antimony		-		-
7440-38-2	Arsenic		-		-
7440-39-3	Barium		-		-
7440-41-7	Beryllium		-		-
7440-43-9	Cadmium		-		-
7440-70-2	Calcium		-		-
7440-47-3	Chromium		-		-
7440-48-4	Cobalt		-		-
7440-50-8	Copper		-		-
7439-89-6	Iron		-		-
7439-92-1	Lead	446	-	*	P
7439-95-4	Magnesium		-		-
7439-96-5	Manganese		-		-
7439-97-6	Mercury		-		-
7440-02-0	Nickel		-		-
7440-09-7	Potassium		-		-
7782-49-2	Selenium		-		-
7440-22-4	Silver		-		-
7440-23-5	Sodium		-		-
7440-28-0	Thallium		-		-
7440-62-2	Vanadium		-		-
7440-66-6	Zinc		-		-
	Cyanide		-		-

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S461__

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc.

Lab Code: 10145 Case No.: SAS No.: SDG No.: S161

Matrix (soil/water): SOIL Lab Sample ID: 16068

Level (low/med): LOW Date Received: 05/12/95

% Solids: 67.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	4030		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

SAMPLE NO.

S561__

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc.

Lab Code: 10145 Case No.: SAS No.: SDG No.: S161

Matrix (soil/water): SOIL Lab Sample ID: 16069

Level (low/med): LOW Date Received: 05/12/95

% Solids: 69.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	585		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

00075

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S661__

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc.

Lab Code: 10145 Case No.: SAS No.: SDG No.: S161

Matrix (soil/water): SOIL Lab Sample ID: 16070

Level (low/med): LOW Date Received: 05/12/95

% Solids: 76.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	14.8		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

00076

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S781__

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc.

Lab Code: 10145 Case No.: SAS No.: SDG No.: S161

Matrix (soil/water): SOIL Lab Sample ID: 16071

Level (low/med): LOW Date Received: 05/12/95

% Solids: 70.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	357		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

00077

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S861__

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc.

Lab Code: 10145 Case No.: SAS No.: SDG No.: S161

Matrix (soil/water): SOIL Lab Sample ID: 16076

Level (low/med): LOW Date Received: 05/12/95

% Solids: 84.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	6380		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

00078

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S911__

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc.

Lab Code: 10145 Case No.: SAS No.: SDG No.: S161

Matrix (soil/water): SOIL Lab Sample ID: 16077

Level (low/med): LOW Date Received: 05/12/95

% Solids: 58.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	439		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

00079

FORM I - IN

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S1031_

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc.

Lab Code: 10145 Case No.: SAS No.: SDG No.: S161

Matrix (soil/water): SOIL Lab Sample ID: 16078

Level (low/med): LOW Date Received: 05/12/95

% Solids: 66.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum		-		-
7440-36-0	Antimony		-		-
7440-38-2	Arsenic		-		-
7440-39-3	Barium		-		-
7440-41-7	Beryllium		-		-
7440-43-9	Cadmium		-		-
7440-70-2	Calcium		-		-
7440-47-3	Chromium		-		-
7440-48-4	Cobalt		-		-
7440-50-8	Copper		-		-
7439-89-6	Iron		-		-
7439-92-1	Lead	278	-	*	P
7439-95-4	Magnesium		-		-
7439-96-5	Manganese		-		-
7439-97-6	Mercury		-		-
7440-02-0	Nickel		-		-
7440-09-7	Potassium		-		-
7782-49-2	Selenium		-		-
7440-22-4	Silver		-		-
7440-23-5	Sodium		-		-
7440-28-0	Thallium		-		-
7440-62-2	Vanadium		-		-
7440-66-6	Zinc		-		-
	Cyanide		-		-

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

00060

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S1161_

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc.

Lab Code: 10145 Case No.: SAS No.: SDG No.: S161

Matrix (soil/water): SOIL Lab Sample ID: 16079

Level (low/med): LOW Date Received: 05/12/95

% Solids: 60.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	438		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S1261_

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc.

Lab Code: 10145 Case No.: SAS No.: SDG No.: S161

Matrix (soil/water): SOIL Lab Sample ID: 16080

Level (low/med): LOW Date Received: 05/12/95

% Solids: 56.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	7980		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

00062

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S1341_

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc.

Lab Code: 10145 Case No.: SAS No.: SDG No.: S161

Matrix (soil/water): SOIL Lab Sample ID: 16081

Level (low/med): LOW Date Received: 05/12/95

% Solids: 61.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	1800		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

00063

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S1461_

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc.

Lab Code: 10145 Case No.: SAS No.: SDG No.: S161

Matrix (soil/water): SOIL Lab Sample ID: 16082

Level (low/med): LOW Date Received: 05/12/95

% Solids: 49.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	707		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

00064

ENVIROFORMS/INORGANIC CLP

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

S1531_

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc.

Lab Code: 10145 Case No.: SAS No.: SDG No.: S161

Matrix (soil/water): SOIL Lab Sample ID: 16083

Level (low/med): LOW Date Received: 05/12/95

% Solids: 61.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	30.6		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S1532_

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc

Lab Code: 10145 Case No.: SAS No.: SDG No.: S1532

Matrix (soil/water): SOIL Lab Sample ID: 16088

Level (low/med): LOW Date Received: 05/12/95

% Solids: 57.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	19.6		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S1681_

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc.

Lab Code: 10145 Case No.: SAS No.: SDG No.: S161

Matrix (soil/water): SOIL Lab Sample ID: 16084

Level (low/med): LOW Date Received: 05/12/95

% Solids: 72.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	1260		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

0007

FORM I - IN

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S1712_

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc

Lab Code: 10145 Case No.: SAS No.: SDG No.: S1532

Matrix (soil/water): SOIL Lab Sample ID: 16089

Level (low/med): LOW Date Received: 05/12/95

% Solids: 65.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2060		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

00010

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S1861_

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc

Lab Code: 10145 Case No.: SAS No.: SDG No.: S1532

Matrix (soil/water): SOIL Lab Sample ID: 16090

Level (low/med): LOW Date Received: 05/12/95

% Solids: 52.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2500		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

00011

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S1981_

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc.

Lab Code: 10145 Case No.: SAS No.: SDG No.: S161

Matrix (soil/water): SOIL Lab Sample ID: 16085

Level (low/med): LOW Date Received: 05/12/95

% Solids: 62.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	1090		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S2061_

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc

Lab Code: 10145 Case No.: SAS No.: SDG No.: S1532

Matrix (soil/water): SOIL Lab Sample ID: 16091

Level (low/med): LOW Date Received: 05/12/95

% Solids: 73.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	393		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

00012

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S2110_

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc

Lab Code: 10145 Case No.: SAS No.: SDG No.: S1532

Matrix (soil/water): SOIL Lab Sample ID: 16092

Level (low/med): LOW Date Received: 05/12/95

% Solids: 65.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	1170		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S2231_

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc

Lab Code: 10145 Case No.: SAS No.: SDG No.: S1532

Matrix (soil/water): SOIL Lab Sample ID: 16094

Level (low/med): LOW Date Received: 05/12/95

% Solids: 69.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	84900		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: DK.YELLOW Clarity After: CLEAR Artifacts:

Comments:

00014

ENVIROFORMS/INORGANIC CLP

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

S2361_

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc

Lab Code: 10145 Case No.: SAS No.: SDG No.: S1532

Matrix (soil/water): SOIL Lab Sample ID: 16095

Level (low/med): LOW Date Received: 05/12/95

% Solids: 80.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	1490		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

00015

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S2441_

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc

Lab Code: 10145 Case No.: SAS No.: SDG No.: S1532

Matrix (soil/water): SOIL Lab Sample ID: 16096

Level (low/med): LOW Date Received: 05/12/95

% Solids: 56.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	226		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

00016

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S2521_

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc.

Lab Code: 10145 Case No.: SAS No.: SDG No.: S161

Matrix (soil/water): SOIL Lab Sample ID: 16086

Level (low/med): LOW Date Received: 05/12/95

% Solids: 67.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	603		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

00069

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S2522_

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc

Lab Code: 10145 Case No.: SAS No.: SDG No.: S1532

Matrix (soil/water): SOIL Lab Sample ID: 16097

Level (low/med): LOW Date Received: 05/12/95

% Solids: 68.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	1980		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

00017

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S2631_

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc

Lab Code: 10145 Case No.: SAS No.: SDG No.: S1532

Matrix (soil/water): SOIL Lab Sample ID: 16098

Level (low/med): LOW Date Received: 05/12/95

% Solids: 64.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	13200		*	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S2741_

Lab Name: GENERAL TESTING CORP. Contract: NES, Inc.

Lab Code: 10145 Case No.: SAS No.: SDG No.: S161

Matrix (soil/water): SOIL Lab Sample ID: 16087

Level (low/med): LOW Date Received: 05/12/95

% Solids: 54.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum		-		-
7440-36-0	Antimony		-		-
7440-38-2	Arsenic		-		-
7440-39-3	Barium		-		-
7440-41-7	Beryllium		-		-
7440-43-9	Cadmium		-		-
7440-70-2	Calcium		-		-
7440-47-3	Chromium		-		-
7440-48-4	Cobalt		-		-
7440-50-8	Copper		-		-
7439-89-6	Iron		-		-
7439-92-1	Lead	11500	-	*	P
7439-95-4	Magnesium		-		-
7439-96-5	Manganese		-		-
7439-97-6	Mercury		-		-
7440-02-0	Nickel		-		-
7440-09-7	Potassium		-		-
7782-49-2	Selenium		-		-
7440-22-4	Silver		-		-
7440-23-5	Sodium		-		-
7440-28-0	Thallium		-		-
7440-62-2	Vanadium		-		-
7440-66-6	Zinc		-		-
	Cyanide		-		-

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: DK.YELLOW Clarity After: CLEAR Artifacts:

Comments:

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S281

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16064

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF449

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 32 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	490.	U
111-44-4	bis(-2-Chloroethyl)Ether	490.	U
95-57-8	2-Chlorophenol	490.	U
541-73-1	1,3-Dichlorobenzene	490.	U
106-46-7	1,4-Dichlorobenzene	490.	U
95-50-1	1,2-Dichlorobenzene	490.	U
95-48-7	2-Methylphenol	490.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	490.	U
106-44-5	4-Methylphenol	490.	U
621-64-7	N-Nitroso-Di-n-propylamine	490.	U
67-72-1	Hexachloroethane	490.	U
98-95-3	Nitrobenzene	490.	U
78-59-1	Isophorone	490.	U
88-75-5	2-Nitrophenol	490.	U
105-67-9	2,4-Dimethylphenol	490.	U
111-91-1	bis(-2-Chloroethoxy)methane	490.	U
120-83-2	2,4-Dichlorophenol	490.	U
120-82-1	1,2,4-Trichlorobenzene	490.	U
91-20-3	Naphthalene	490.	U
106-47-8	4-Chloroaniline	490.	U
87-68-3	Hexachlorobutadiene	490.	U
59-50-7	4-Chloro-3-methylphenol	490.	U
91-57-6	2-Methylnaphthalene	490.	U
77-47-4	Hexachlorocyclopentadiene	490.	U
88-06-2	2,4,6-Trichlorophenol	490.	U
95-95-4	2,4,5-Trichlorophenol	1200.	U
91-58-7	2-Chloronaphthalene	490.	U
88-74-4	2-Nitroaniline	1200.	U
131-11-3	Dimethyl Phthalate	490.	U
208-96-8	Acenaphthylene	490.	U
606-20-2	2,6-Dinitrotoluene	490.	U
99-09-2	3-Nitroaniline	1200.	U
83-32-9	Acenaphthene	490.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S281

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16064

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF449

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 32 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200.	U
100-02-7	4-Nitrophenol	1200.	U
132-64-9	Dibenzofuran	56.	J
121-14-2	2,4-Dinitrotoluene	490.	U
84-66-2	Diethylphthalate	490.	U
7005-72-3	4-Chlorophenyl-phenylether	490.	U
86-73-7	Fluorene	85.	J
100-01-6	4-Nitroaniline	1200.	U
534-52-1	4,6-Dinitro-2-methylphenol	1200.	U
86-30-6	N-Nitrosodiphenylamine	490.	U
101-55-3	4-Bromophenyl-phenylether	490.	U
118-74-1	Hexachlorobenzene	490.	U
87-86-5	Pentachlorophenol	1200.	U
85-01-8	Phenanthrene	420.	J
120-12-7	Anthracene	130.	J
86-74-8	Carbazole	54.	J
84-74-2	Di-n-Butylphthalate	1500.	B
206-44-0	Fluoranthene	320.	J
129-00-0	Pyrene	300.	J
85-68-7	Butyl benzyl phthalate	490.	U
91-94-1	3,3'-Dichlorobenzidine	490.	U
56-55-3	Benzo(a)Anthracene	160.	J
218-01-9	Chrysene	200.	J
117-81-7	bis(2-Ethylhexyl)Phthalate	160.	J
117-84-0	Di-n-octyl phthalate	490.	U
205-99-2	Benzo(b)fluoranthene	180.	J
207-08-9	Benzo(k)Fluoranthene	58.	J
50-32-8	Benzo(a)Pyrene	120.	J
193-39-5	Indeno(1,2,3-cd)Pyrene	83.	J
53-70-3	Dibenz(a,h)anthracene	490.	U
191-24-2	Benzo(g,h,i)Perylene	58.	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S281

ab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16064

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF449

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 32 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

Number TICs Found: 26 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	3.64	340.	JB
2.		Unknown	4.10	140.	JB
3.		Aldol Condensation Product	4.39	620.	JAB
4.		Aldol Condensation Product	4.61	360.	JAB
5.		Aldol Condensation Product	4.68	3200.	JAB
6.		Aldol Condensation Product	4.81	380.	JAB
7.		Unknown	5.10	600.	J
8.		Unknown	5.31	176.	J
9.		Unknown Alkane	5.56	192.	J
10.		Unknown Alkane	5.74	340.	J
11.		Unknown Alkane	5.80	400.	J
12.		Unknown	5.92	360.	J
13.		Unknown	6.04	240.	JB
14.		Unknown Alkane	6.30	114.	J
15.		Unknown	6.62	132.	J
16.	112-34-5	Ethanol, 2-(2-butoxyethoxy)-	6.90	460.	JNB
17.		Unknown	7.39	120.	J
18.		Unknown Alkane	7.92	120.	J
19.		Unknown Alkane	8.89	154.	J
20.		Unknown Alkane	9.46	130.	J
21.		Unknown Alkane	9.85	174.	J
22.		Unknown	10.64	136.	J
23.		Unknown	10.77	660.	J
24.		Unknown	11.77	780.	J
25.		Unknown	11.87	360.	J
26.					
27.					
28.					
29.					
30.					

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S282

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16065

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF452

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 32 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	490.	U
111-44-4	bis(-2-Chloroethyl)Ether	490.	U
95-57-8	2-Chlorophenol	490.	U
541-73-1	1,3-Dichlorobenzene	490.	U
106-46-7	1,4-Dichlorobenzene	490.	U
95-50-1	1,2-Dichlorobenzene	490.	U
95-48-7	2-Methylphenol	490.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	490.	U
106-44-5	4-Methylphenol	490.	U
621-64-7	N-Nitroso-Di-n-propylamine	490.	U
67-72-1	Hexachloroethane	490.	U
98-95-3	Nitrobenzene	490.	U
78-59-1	Isophorone	490.	U
88-75-5	2-Nitrophenol	490.	U
105-67-9	2,4-Dimethylphenol	490.	U
111-91-1	bis(-2-Chloroethoxy)methane	490.	U
120-83-2	2,4-Dichlorophenol	490.	U
120-82-1	1,2,4-Trichlorobenzene	490.	U
91-20-3	Naphthalene	960.	
106-47-8	4-Chloroaniline	490.	U
87-68-3	Hexachlorobutadiene	490.	U
59-50-7	4-Chloro-3-methylphenol	490.	U
91-57-6	2-Methylnaphthalene	310.	J
77-47-4	Hexachlorocyclopentadiene	490.	U
88-06-2	2,4,6-Trichlorophenol	490.	U
95-95-4	2,4,5-Trichlorophenol	1200.	U
91-58-7	2-Chloronaphthalene	490.	U
88-74-4	2-Nitroaniline	1200.	U
131-11-3	Dimethyl Phthalate	490.	U
208-96-8	Acenaphthylene	490.	U
606-20-2	2,6-Dinitrotoluene	490.	U
99-09-2	3-Nitroaniline	1200.	U
83-32-9	Acenaphthene	430.	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S282

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16065

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF452

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 32 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200.	U
100-02-7	4-Nitrophenol	1200.	U
132-64-9	Dibenzofuran	300.	J
121-14-2	2,4-Dinitrotoluene	490.	U
84-66-2	Diethylphthalate	490.	U
7005-72-3	4-Chlorophenyl-phenylether	490.	U
86-73-7	Fluorene	480.	J
100-01-6	4-Nitroaniline	1200.	U
534-52-1	4,6-Dinitro-2-methylphenol	1200.	U
86-30-6	N-Nitrosodiphenylamine	490.	U
101-55-3	4-Bromophenyl-phenylether	490.	U
118-74-1	Hexachlorobenzene	490.	U
87-86-5	Pentachlorophenol	1200.	U
85-01-8	Phenanthrene	2400.	
120-12-7	Anthracene	680.	
86-74-8	Carbazole	290.	J
84-74-2	Di-n-Butylphthalate	2600.	B
206-44-0	Fluoranthene	1300.	
129-00-0	Pyrene	2000.	
85-68-7	Butyl benzyl phthalate	490.	U
91-94-1	3,3'-Dichlorobenzidine	490.	U
56-55-3	Benzo(a)Anthracene	900.	
218-01-9	Chrysene	1000.	
117-81-7	bis(2-Ethylhexyl)Phthalate	210.	J
117-84-0	Di-n-octyl phthalate	490.	U
205-99-2	Benzo(b)fluoranthene	850.	
207-08-9	Benzo(k)Fluoranthene	290.	J
50-32-8	Benzo(a)Pyrene	880.	
193-39-5	Indeno(1,2,3-cd)Pyrene	520.	
53-70-3	Dibenz(a,h)anthracene	170.	J
191-24-2	Benzo(g,h,i)Perylene	400.	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S282

ab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16065

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF452

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 32 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

Number TICs Found: 26 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	3.60	200.	JB
2.		Unknown	3.66	300.	JB
3.		Unknown	4.11	198.	JB
4.		Unknown	4.41	800.	JB
5.		Aldol Condensation Product	4.62	280.	JAB
6.		Aldol Condensation Product	4.70	720.	JAB
7.		Aldol Condensation Product	4.82	380.	JAB
8.		Unknown	5.12	740.	J
9.		Unknown Alkane	5.57	520.	J
10.		Unknown Alkane	5.75	400.	J
11.		Unknown Alkane	5.82	520.	J
12.		Unknown	5.93	320.	J
13.		Unknown Alkane	6.31	158.	J
14.		Unknown aromatic Hydroca	6.58	126.	J
15.		Unknown Alkane	6.68	200.	JB
16.		Unknown Alkane	6.72	160.	J
17.		Unknown	6.94	220.	J
18.		Unknown Alkane	7.94	144.	J
19.	2471-83-2	1H-Indene, 1-ethylidene-	8.37	136.	JN
20.		Unknown Alkane	8.90	164.	J
21.		Unknown Alkane	9.48	260.	J
22.		Unknown	9.86	260.	J
23.		Unknown	10.78	740.	J
24.		Unknown Alkane	11.79	860.	J
25.		Unknown	11.90	560.	
26.					
27.					
28.					
29.					
30.					

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S282RE

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16065RE

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF463

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 32 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/02/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	490.	U
111-44-4	bis(-2-Chloroethyl)Ether	490.	U
95-57-8	2-Chlorophenol	490.	U
541-73-1	1,3-Dichlorobenzene	490.	U
106-46-7	1,4-Dichlorobenzene	490.	U
95-50-1	1,2-Dichlorobenzene	490.	U
95-48-7	2-Methylphenol	490.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	490.	U
106-44-5	4-Methylphenol	490.	U
621-64-7	N-Nitroso-Di-n-propylamine	490.	U
67-72-1	Hexachloroethane	490.	U
98-95-3	Nitrobenzene	490.	U
78-59-1	Isophorone	490.	U
88-75-5	2-Nitrophenol	490.	U
105-67-9	2,4-Dimethylphenol	490.	U
111-91-1	bis(-2-Chloroethoxy)methane	490.	U
120-83-2	2,4-Dichlorophenol	490.	U
120-82-1	1,2,4-Trichlorobenzene	490.	U
91-20-3	Naphthalene	960.	
106-47-8	4-Chloroaniline	490.	U
87-68-3	Hexachlorobutadiene	490.	U
59-50-7	4-Chloro-3-methylphenol	490.	U
91-57-6	2-Methylnaphthalene	310.	J
77-47-4	Hexachlorocyclopentadiene	490.	U
88-06-2	2,4,6-Trichlorophenol	490.	U
95-95-4	2,4,5-Trichlorophenol	1200.	U
91-58-7	2-Chloronaphthalene	490.	U
88-74-4	2-Nitroaniline	1200.	U
131-11-3	Dimethyl Phthalate	490.	U
208-96-8	Acenaphthylene	490.	U
606-20-2	2,6-Dinitrotoluene	490.	U
99-09-2	3-Nitroaniline	1200.	U
83-32-9	Acenaphthene	420.	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S282RE

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16065RE

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF463

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 32 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/02/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200.	U
100-02-7	4-Nitrophenol	1200.	U
132-64-9	Dibenzofuran	330.	J
121-14-2	2,4-Dinitrotoluene	490.	U
84-66-2	Diethylphthalate	490.	U
7005-72-3	4-Chlorophenyl-phenylether	490.	U
86-73-7	Fluorene	480.	J
100-01-6	4-Nitroaniline	1200.	U
534-52-1	4,6-Dinitro-2-methylphenol	1200.	U
86-30-6	N-Nitrosodiphenylamine	490.	U
101-55-3	4-Bromophenyl-phenylether	490.	U
118-74-1	Hexachlorobenzene	490.	U
87-86-5	Pentachlorophenol	1200.	U
85-01-8	Phenanthrene	2400.	
120-12-7	Anthracene	680.	
86-74-8	Carbazole	290.	J
84-74-2	Di-n-Butylphthalate	2500.	B
206-44-0	Fluoranthene	1400.	
129-00-0	Pyrene	1900.	
85-68-7	Butyl benzyl phthalate	490.	U
91-94-1	3,3'-Dichlorobenzidine	490.	U
56-55-3	Benzo(a)Anthracene	1200.	
218-01-9	Chrysene	1100.	
117-81-7	bis(2-Ethylhexyl)Phthalate	250.	J
117-84-0	Di-n-octyl phthalate	490.	U
205-99-2	Benzo(b)fluoranthene	1000.	
207-08-9	Benzo(k)Fluoranthene	280.	J
50-32-8	Benzo(a)Pyrene	880.	
193-39-5	Indeno(1,2,3-cd)Pyrene	640.	
53-70-3	Dibenz(a,h)anthracene	350.	J
191-24-2	Benzo(g,h,i)Perylene	510.	

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S282RE

ab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16065RE

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF463

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 32 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/02/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

Number TICs Found: 26 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	3.60	170.	JB
2.		Unknown	3.67	660.	JB
3.		Aldol Condensation Product	4.41	980.	JAB
4.		Aldol Condensation Product	4.62	168.	JAB
5.		Aldol Condensation Product	4.71	660.	JAB
6.		Aldol Condensation Product	4.83	440.	JAB
7.		Unknown	5.14	720.	J
8.		Unknown	5.34	300.	J
9.		Unknown Alkane	5.58	380.	J
10.		Unknown Alkane	5.75	420.	J
11.		Unknown Alkane	5.82	480.	JB
12.		Unknown Alkane	5.94	360.	J
13.		Unknown Alkane	6.32	190.	J
14.		Unknown Alkane	6.68	240.	J
15.		Unknown	6.73	164.	J
16.		Unknown	6.79	176.	J
17.		Unknown	6.98	440.	J
18.		Unknown Alkane	7.95	200.	J
19.	90-12-0	Naphthalene, 1-methyl-	8.38	188.	JN
20.		Unknown Alkane	8.90	172.	J
21.		Unknown	9.49	260.	J
22.		Unknown Alkane	9.88	300.	J
23.		Unknown	10.79	740.	JB
24.		Unknown	11.65	540.	JB
25.		Unknown Hydrocarbon	11.79	1500.	J
26.					
27.					
28.					
29.					
30.					

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S461

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16068

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF453

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 33 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	500.	U
111-44-4	bis(-2-Chloroethyl)Ether	500.	U
95-57-8	2-Chlorophenol	500.	U
541-73-1	1,3-Dichlorobenzene	500.	U
106-46-7	1,4-Dichlorobenzene	500.	U
95-50-1	1,2-Dichlorobenzene	500.	U
95-48-7	2-Methylphenol	500.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	500.	U
106-44-5	4-Methylphenol	87.	J
621-64-7	N-Nitroso-Di-n-propylamine	500.	U
67-72-1	Hexachloroethane	500.	U
98-95-3	Nitrobenzene	500.	U
78-59-1	Isophorone	500.	U
88-75-5	2-Nitrophenol	500.	U
105-67-9	2,4-Dimethylphenol	500.	U
111-91-1	bis(-2-Chloroethoxy)methane	500.	U
120-83-2	2,4-Dichlorophenol	500.	U
120-82-1	1,2,4-Trichlorobenzene	500.	U
91-20-3	Naphthalene	98.	J
106-47-8	4-Chloroaniline	500.	U
87-68-3	Hexachlorobutadiene	500.	U
59-50-7	4-Chloro-3-methylphenol	500.	U
91-57-6	2-Methylnaphthalene	120.	J
77-47-4	Hexachlorocyclopentadiene	500.	U
88-06-2	2,4,6-Trichlorophenol	500.	U
95-95-4	2,4,5-Trichlorophenol	1200.	U
91-58-7	2-Chloronaphthalene	500.	U
88-74-4	2-Nitroaniline	1200.	U
131-11-3	Dimethyl Phthalate	500.	U
208-96-8	Acenaphthylene	500.	U
606-20-2	2,6-Dinitrotoluene	500.	U
99-09-2	3-Nitroaniline	1200.	U
83-32-9	Acenaphthene	500.	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S461

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16068

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF453

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 33 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200.	U
100-02-7	4-Nitrophenol	1200.	U
132-64-9	Dibenzofuran	82.	J
121-14-2	2,4-Dinitrotoluene	500.	U
84-66-2	Diethylphthalate	500.	U
7005-72-3	4-Chlorophenyl-phenylether	500.	U
86-73-7	Fluorene	500.	U
100-01-6	4-Nitroaniline	1200.	U
534-52-1	4,6-Dinitro-2-methylphenol	1200.	U
86-30-6	N-Nitrosodiphenylamine	500.	U
101-55-3	4-Bromophenyl-phenylether	500.	U
118-74-1	Hexachlorobenzene	500.	U
87-86-5	Pentachlorophenol	1200.	U
85-01-8	Phenanthrene	500.	U
120-12-7	Anthracene	500.	U
86-74-8	Carbazole	500.	U
84-74-2	Di-n-Butylphthalate	170.	JB
206-44-0	Fluoranthene	500.	U
129-00-0	Pyrene	500.	U
85-68-7	Butyl benzyl phthalate	500.	U
91-94-1	3,3'-Dichlorobenzidine	500.	U
56-55-3	Benzo(a)Anthracene	550.	
218-01-9	Chrysene	310.	J
117-81-7	bis(2-Ethylhexyl)Phthalate	520.	
117-84-0	Di-n-octyl phthalate	500.	U
205-99-2	Benzo(b)fluoranthene	260.	J
207-08-9	Benzo(k)Fluoranthene	500.	U
50-32-8	Benzo(a)Pyrene	240.	J
193-39-5	Indeno(1,2,3-cd)Pyrene	280.	J
53-70-3	Dibenz(a,h)anthracene	500.	U
191-24-2	Benzo(g,h,i)Perylene	350.	J

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S461

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16068

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF453

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 33 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

Number TICs Found: 26 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	3.57	200.	JB
2.		Unknown	3.63	880.	JB
3.		Unknown	4.10	240.	JB
4.		Aldol Condensation Product	4.39	940.	JAB
5.		Aldol Condensation Product	4.61	380.	JAB
6.		Aldol Condensation Product	4.70	1020.	JAB
7.		Aldol Condensation Product	4.81	440.	JAB
8.		Unknown	5.12	560.	J
9.		Unknown	5.76	360.	J
10.		Unknown	6.06	220.	JB
11.		Unknown	6.54	108.	J
12.		Unknown	6.77	152.	J
13.	112-34-5	Ethanol, 2-(2-butoxyethoxy)-	6.94	540.	JN
14.		Unknown Alkane	7.38	260.	J
15.		Unknown	7.50	200.	J
16.		Unknown Alkane	7.74	142.	J
17.		Unknown Hydrocarbon	7.86	172.	J
18.		Unknown Hydrocarbon	7.90	150.	J
19.		Unknown Hydrocarbon	8.03	220.	J
20.		Unknown	8.08	260.	J
21.		Unknown Hydrocarbon	8.67	380.	J
22.		Unknown Hydrocarbon	9.49	1500.	J
23.		Unknown Hydrocarbon	9.78	1000.	J
24.		Unknown Hydrocarbon	9.86	1000.	J
25.		Unknown	11.95	1680.	
26.					
27.					
28.					
29.					
30.					

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S461RE

Lab Name: General Testing Corp Contract: NES

Lab Code: 10145 Case No.: SAS No.: SDG No.: S161

Matrix: (soil/water) SOIL Lab Sample ID: 16068RE

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF464

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 33 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/02/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	500.	U
111-44-4	bis(-2-Chloroethyl)Ether	500.	U
95-57-8	2-Chlorophenol	500.	U
541-73-1	1,3-Dichlorobenzene	500.	U
106-46-7	1,4-Dichlorobenzene	500.	U
95-50-1	1,2-Dichlorobenzene	500.	U
95-48-7	2-Methylphenol	500.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	500.	U
106-44-5	4-Methylphenol	96.	J
621-64-7	N-Nitroso-Di-n-propylamine	500.	U
67-72-1	Hexachloroethane	500.	U
98-95-3	Nitrobenzene	500.	U
78-59-1	Isophorone	500.	U
88-75-5	2-Nitrophenol	500.	U
105-67-9	2,4-Dimethylphenol	500.	U
111-91-1	bis(-2-Chloroethoxy)methane	500.	U
120-83-2	2,4-Dichlorophenol	500.	U
120-82-1	1,2,4-Trichlorobenzene	500.	U
91-20-3	Naphthalene	94.	J
106-47-8	4-Chloroaniline	500.	U
87-68-3	Hexachlorobutadiene	500.	U
59-50-7	4-Chloro-3-methylphenol	500.	U
91-57-6	2-Methylnaphthalene	72.	J
77-47-4	Hexachlorocyclopentadiene	500.	U
88-06-2	2,4,6-Trichlorophenol	500.	U
95-95-4	2,4,5-Trichlorophenol	1200.	U
91-58-7	2-Chloronaphthalene	500.	U
88-74-4	2-Nitroaniline	1200.	U
131-11-3	Dimethyl Phthalate	500.	U
208-96-8	Acenaphthylene	500.	U
606-20-2	2,6-Dinitrotoluene	500.	U
99-09-2	3-Nitroaniline	1200.	U
83-32-9	Acenaphthene	500.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S461RE

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16068RE

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF464

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 33 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/02/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200.	U
100-02-7	4-Nitrophenol	1200.	U
132-64-9	Dibenzofuran	83.	J
121-14-2	2,4-Dinitrotoluene	500.	U
84-66-2	Diethylphthalate	500.	U
7005-72-3	4-Chlorophenyl-phenylether	500.	U
86-73-7	Fluorene	500.	U
100-01-6	4-Nitroaniline	1200.	U
534-52-1	4,6-Dinitro-2-methylphenol	1200.	U
86-30-6	N-Nitrosodiphenylamine	250.	J
101-55-3	4-Bromophenyl-phenylether	500.	U
118-74-1	Hexachlorobenzene	500.	U
87-86-5	Pentachlorophenol	1200.	U
85-01-8	Phenanthrene	500.	U
120-12-7	Anthracene	500.	U
86-74-8	Carbazole	500.	U
84-74-2	Di-n-Butylphthalate	560.	B
206-44-0	Fluoranthene	500.	U
129-00-0	Pyrene	500.	U
85-68-7	Butyl benzyl phthalate	500.	U
91-94-1	3,3'-Dichlorobenzidine	500.	U
56-55-3	Benzo(a)Anthracene	1000.	
218-01-9	Chrysene	320.	J
117-81-7	bis(2-Ethylhexyl)Phthalate	840.	
117-84-0	Di-n-octyl phthalate	500.	U
205-99-2	Benzo(b)fluoranthene	270.	J
207-08-9	Benzo(k)Fluoranthene	120.	J
50-32-8	Benzo(a)Pyrene	200.	J
193-39-5	Indeno(1,2,3-cd)Pyrene	400.	J
53-70-3	Dibenz(a,h)anthracene	500.	U
191-24-2	Benzo(g,h,i)Perylene	420.	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S461RE

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16068RE

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF464

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 33 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/02/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

Number TICs Found: 25 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	3.65	1060.	JB
2.		Unknown	4.14	220.	JB
3.		Aldol Condensation Product	4.41	960.	JAB
4.		Aldol Condensation Product	4.62	320.	JAB
5.		Aldol Condensation Product	4.70	920.	JAB
6.		Aldol Condensation Product	4.83	560.	JAB
7.		Unknown	5.13	780.	J
8.		Aldol Condensation Product	5.33	172.	JAB
9.		Unknown	5.86	120.	JB
10.		Unknown Alkane	6.87	100.	J
11.		Unknown	6.96	460.	J
12.		Unknown Hydrocarbon	7.39	240.	J
13.		Unknown	7.51	200.	J
14.		Unknown Alkane	7.67	200.	J
15.		Unknown Hydrocarbon	7.75	122.	J
16.		Unknown Hydrocarbon	7.87	168.	J
17.		Unknown Hydrocarbon	7.91	128.	J
18.		Unknown Hydrocarbon	8.09	182.	J
19.		Unknown	8.22	240.	J
20.		Unknown Hydrocarbon	8.68	460.	J
21.		Unknown Aromatic Hydrocarbon	9.51	1220.	J
22.		Unknown Aromatic Hydrocarbon	9.79	980.	J
23.		Unknown Hydrocarbon	9.88	1000.	J
24.					
25.					
26.					
27.					
28.					
29.					
30.					

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S911

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16077

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF454

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 41 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	560.	U
111-44-4	bis(-2-Chloroethyl)Ether	560.	U
95-57-8	2-Chlorophenol	560.	U
541-73-1	1,3-Dichlorobenzene	560.	U
106-46-7	1,4-Dichlorobenzene	560.	U
95-50-1	1,2-Dichlorobenzene	560.	U
95-48-7	2-Methylphenol	560.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	560.	U
106-44-5	4-Methylphenol	560.	U
621-64-7	N-Nitroso-Di-n-propylamine	560.	U
67-72-1	Hexachloroethane	560.	U
98-95-3	Nitrobenzene	560.	U
78-59-1	Isophorone	560.	U
88-75-5	2-Nitrophenol	560.	U
105-67-9	2,4-Dimethylphenol	560.	U
111-91-1	bis(-2-Chloroethoxy)methane	560.	U
120-83-2	2,4-Dichlorophenol	560.	U
120-82-1	1,2,4-Trichlorobenzene	560.	U
91-20-3	Naphthalene	560.	U
106-47-8	4-Chloroaniline	560.	U
87-68-3	Hexachlorobutadiene	560.	U
59-50-7	4-Chloro-3-methylphenol	560.	U
91-57-6	2-Methylnaphthalene	560.	U
77-47-4	Hexachlorocyclopentadiene	560.	U
88-06-2	2,4,6-Trichlorophenol	560.	U
95-95-4	2,4,5-Trichlorophenol	1400.	U
91-58-7	2-Chloronaphthalene	560.	U
88-74-4	2-Nitroaniline	1400.	U
131-11-3	Dimethyl Phthalate	560.	U
208-96-8	Acenaphthylene	560.	U
606-20-2	2,6-Dinitrotoluene	560.	U
99-09-2	3-Nitroaniline	1400.	U
83-32-9	Acenaphthene	560.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S911

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16077

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF454

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 41 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1400.	U
100-02-7	4-Nitrophenol	1400.	U
132-64-9	Dibenzofuran	560.	U
121-14-2	2,4-Dinitrotoluene	560.	U
84-66-2	Diethylphthalate	560.	U
7005-72-3	4-Chlorophenyl-phenylether	560.	U
86-73-7	Fluorene	560.	U
100-01-6	4-Nitroaniline	1400.	U
534-52-1	4,6-Dinitro-2-methylphenol	1400.	U
86-30-6	N-Nitrosodiphenylamine	560.	U
101-55-3	4-Bromophenyl-phenylether	560.	U
118-74-1	Hexachlorobenzene	560.	U
87-86-5	Pentachlorophenol	1400.	U
85-01-8	Phenanthrene	220.	J
120-12-7	Anthracene	560.	U
86-74-8	Carbazole	560.	U
84-74-2	Di-n-Butylphthalate	2200.	B
206-44-0	Fluoranthene	380.	J
129-00-0	Pyrene	360.	J
85-68-7	Butyl benzyl phthalate	560.	U
91-94-1	3,3'-Dichlorobenzidine	560.	U
56-55-3	Benzo(a)Anthracene	150.	J
218-01-9	Chrysene	230.	J
117-81-7	bis(2-Ethylhexyl)Phthalate	160.	J
117-84-0	Di-n-octyl phthalate	560.	U
205-99-2	Benzo(b)fluoranthene	280.	J
207-08-9	Benzo(k)Fluoranthene	94.	J
50-32-8	Benzo(a)Pyrene	180.	J
193-39-5	Indeno(1,2,3-cd)Pyrene	120.	J
53-70-3	Dibenz(a,h)anthracene	560.	U
191-24-2	Benzo(g,h,i)Perylene	110.	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S911

Lab Name: General Testing Corp Contract: NES

Lab Code: 10145 Case No.: SAS No.: SDG No.: S161

Matrix: (soil/water) SOIL Lab Sample ID: 16077

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF454

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 41 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

Number TICs Found: 22 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	3.60	260.	JB
2.		Unknown	3.67	980.	JB
3.		Unknown	4.14	240.	JB
4.		Aldol Condensation Product	4.41	1080.	JAB
5.		Aldol Condensation Product	4.62	300.	JAB
6.		Aldol Condensation Product	4.68	260.	JAB
7.		Aldol Condensation Product	4.83	1740.	JAB
8.		Aldol Condensation Product	5.11	152.	JA
9.		Unknown	5.26	138.	J
10.		Unknown	5.70	126.	J
11.		Unknown	5.88	760.	JB
12.		Unknown	5.98	240.	J
13.	112-34-5	Ethanol, 2-(2-butoxyethoxy)-	6.94	280.	JN
14.		Unknown	7.42	124.	J
15.		Unknown	7.62	136.	J
16.		Unknown Alkane	9.48	150.	J
17.		Unknown Alkane	9.87	144.	J
18.		Unknown	10.64	134.	J
19.		Unknown	10.78	640.	J
20.		Unknown	11.61	150.	J
21.		Unknown Alkane	11.76	300.	J
22.		Unknown	14.03	620.	J
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S1161

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16079

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF455

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 40 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	560.	U
111-44-4	bis(-2-Chloroethyl)Ether	560.	U
95-57-8	2-Chlorophenol	560.	U
541-73-1	1,3-Dichlorobenzene	560.	U
106-46-7	1,4-Dichlorobenzene	560.	U
95-50-1	1,2-Dichlorobenzene	560.	U
95-48-7	2-Methylphenol	560.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	560.	U
106-44-5	4-Methylphenol	480.	J
621-64-7	N-Nitroso-Di-n-propylamine	560.	U
67-72-1	Hexachloroethane	560.	U
98-95-3	Nitrobenzene	560.	U
78-59-1	Isophorone	560.	U
88-75-5	2-Nitrophenol	560.	U
105-67-9	2,4-Dimethylphenol	560.	U
111-91-1	bis(-2-Chloroethoxy)methane	560.	U
120-83-2	2,4-Dichlorophenol	560.	U
120-82-1	1,2,4-Trichlorobenzene	560.	U
91-20-3	Naphthalene	560.	U
106-47-8	4-Chloroaniline	560.	U
87-68-3	Hexachlorobutadiene	560.	U
59-50-7	4-Chloro-3-methylphenol	560.	U
91-57-6	2-Methylnaphthalene	560.	U
77-47-4	Hexachlorocyclopentadiene	560.	U
88-06-2	2,4,6-Trichlorophenol	560.	U
95-95-4	2,4,5-Trichlorophenol	1400.	U
91-58-7	2-Chloronaphthalene	560.	U
88-74-4	2-Nitroaniline	1400.	U
131-11-3	Dimethyl Phthalate	560.	U
208-96-8	Acenaphthylene	560.	U
606-20-2	2,6-Dinitrotoluene	560.	U
99-09-2	3-Nitroaniline	1400.	U
83-32-9	Acenaphthene	560.	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S1161

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16079

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF455

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 40 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1400.	U
100-02-7	4-Nitrophenol	1400.	U
132-64-9	Dibenzofuran	560.	U
121-14-2	2,4-Dinitrotoluene	560.	U
84-66-2	Diethylphthalate	560.	U
7005-72-3	4-Chlorophenyl-phenylether	560.	U
86-73-7	Fluorene	64.	J
100-01-6	4-Nitroaniline	1400.	U
534-52-1	4,6-Dinitro-2-methylphenol	1400.	U
86-30-6	N-Nitrosodiphenylamine	560.	U
101-55-3	4-Bromophenyl-phenylether	560.	U
118-74-1	Hexachlorobenzene	560.	U
87-86-5	Pentachlorophenol	1400.	U
85-01-8	Phenanthrene	760.	
120-12-7	Anthracene	130.	J
86-74-8	Carbazole	100.	J
84-74-2	Di-n-Butylphthalate	1800.	B
206-44-0	Fluoranthene	1300.	
129-00-0	Pyrene	1200.	
85-68-7	Butyl benzyl phthalate	89.	J
91-94-1	3,3'-Dichlorobenzidine	560.	U
56-55-3	Benzo(a)Anthracene	460.	J
218-01-9	Chrysene	760.	
117-81-7	bis(2-Ethylhexyl)Phthalate	1100.	
117-84-0	Di-n-octyl phthalate	560.	U
205-99-2	Benzo(b)fluoranthene	880.	
207-08-9	Benzo(k)Fluoranthene	330.	J
50-32-8	Benzo(a)Pyrene	560.	
193-39-5	Indeno(1,2,3-cd)Pyrene	350.	J
53-70-3	Dibenz(a,h)anthracene	92.	J
191-24-2	Benzo(g,h,i)Perylene	330.	J

(1) - Cannot be separated from Diphenylamine

00016

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S1161

ab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16079

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF455

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 40 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

Number TICs Found: 26 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	3.61	240.	JB
2.		Unknown	3.67	800.	JB
3.		Aldol Condensation Product	4.13	240.	JAB
4.		Aldol Condensation Product	4.42	1000.	JAB
5.		Aldol Condensation Product	4.63	340.	JAB
6.		Unknown	4.70	600.	JB
7.		Aldol Condensation Product	4.83	540.	JAB
8.		Unknown	5.13	1020.	J
9.		Unknown Alkane	5.57	520.	J
10.		Unknown Alkane	5.75	600.	J
11.		Unknown Alkane	5.81	480.	JB
12.	112-34-5	Ethanol, 2-(2-butoxyethoxy)-	6.95	380.	JN
13.		Unknown Alkane	9.86	220.	J
14.		Unknown	10.78	420.	JB
15.		Unknown Alkane	11.79	860.	J
16.		Unknown	11.98	440.	J
17.		Unknown	12.28	380.	J
18.		Unknown Alkane	12.72	420.	J
19.		Unknown	13.88	820.	J
20.		Unknown	14.02	540.	J
21.		Unknown	15.48	1380.	J
22.		Unknown	15.64	1020.	J
23.		Unknown Alkane	19.32	760.	J
24.		Unknown Alkane	20.52	1120.	J
25.		Unknown	21.90	1020.	J
26.					
27.					
28.					
29.					
30.					

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S1461

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16082

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF456

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 51 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	680.	U
111-44-4	bis(-2-Chloroethyl)Ether	680.	U
95-57-8	2-Chlorophenol	680.	U
541-73-1	1,3-Dichlorobenzene	680.	U
106-46-7	1,4-Dichlorobenzene	680.	U
95-50-1	1,2-Dichlorobenzene	680.	U
95-48-7	2-Methylphenol	680.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	680.	U
106-44-5	4-Methylphenol	680.	U
621-64-7	N-Nitroso-Di-n-propylamine	680.	U
67-72-1	Hexachloroethane	680.	U
98-95-3	Nitrobenzene	680.	U
78-59-1	Isophorone	680.	U
88-75-5	2-Nitrophenol	680.	U
105-67-9	2,4-Dimethylphenol	680.	U
111-91-1	bis(-2-Chloroethoxy)methane	680.	U
120-83-2	2,4-Dichlorophenol	680.	U
120-82-1	1,2,4-Trichlorobenzene	680.	U
91-20-3	Naphthalene	680.	U
106-47-8	4-Chloroaniline	680.	U
87-68-3	Hexachlorobutadiene	680.	U
59-50-7	4-Chloro-3-methylphenol	680.	U
91-57-6	2-Methylnaphthalene	680.	U
77-47-4	Hexachlorocyclopentadiene	680.	U
88-06-2	2,4,6-Trichlorophenol	680.	U
95-95-4	2,4,5-Trichlorophenol	1700.	U
91-58-7	2-Chloronaphthalene	680.	U
88-74-4	2-Nitroaniline	1700.	U
131-11-3	Dimethyl Phthalate	680.	U
208-96-8	Acenaphthylene	680.	U
606-20-2	2,6-Dinitrotoluene	680.	U
99-09-2	3-Nitroaniline	1700.	U
83-32-9	Acenaphthene	680.	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S1461

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16082

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF456

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 51 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

CAS NO.	COMPOUND	CONCENTPATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700.	U
100-02-7	4-Nitrophenol	1700.	U
132-64-9	Dibenzofuran	680.	U
121-14-2	2,4-Dinitrotoluene	680.	U
84-66-2	Diethylphthalate	680.	U
7005-72-3	4-Chlorophenyl-phenylether	680.	U
86-73-7	Fluorene	680.	U
100-01-6	4-Nitroaniline	1700.	U
534-52-1	4,6-Dinitro-2-methylphenol	130.	J
86-30-6	N-Nitrosodiphenylamine	680.	U
101-55-3	4-Bromophenyl-phenylether	680.	U
118-74-1	Hexachlorobenzene	680.	U
87-86-5	Pentachlorophenol	1700.	U
85-01-8	Phenanthrene	430.	J
120-12-7	Anthracene	680.	U
86-74-8	Carbazole	680.	U
84-74-2	Di-n-Butylphthalate	1400.	B
206-44-0	Fluoranthene	450.	J
129-00-0	Pyrene	510.	J
85-68-7	Butyl benzyl phthalate	680.	U
91-94-1	3,3'-Dichlorobenzidine	680.	U
56-55-3	Benzo(a)Anthracene	230.	J
218-01-9	Chrysene	340.	J
117-81-7	bis(2-Ethylhexyl)Phthalate	310.	J
117-84-0	Di-n-octyl phthalate	680.	U
205-99-2	Benzo(b)fluoranthene	330.	J
207-08-9	Benzo(k)Fluoranthene	130.	J
50-32-8	Benzo(a)Pyrene	230.	J
193-39-5	Indeno(1,2,3-cd)Pyrene	180.	J
53-70-3	Dibenz(a,h)anthracene	680.	U
191-24-2	Benzo(g,h,i)Perylene	170.	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S1461

ab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16082

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF456

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 51 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

Number TICs Found: 26

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	3.66	1080.	J
2.		Unknown	4.12	260.	JB
3.		Aldol Condensation Product	4.42	1000.	JAB
4.		Aldol Condensation Product	4.62	360.	JAB
5.		Aldol Condensation Product	4.70	600.	JAB
6.		Aldol Condensation Product	4.82	400.	JAB
7.		Unknown	5.12	740.	J
8.		Aldol Condensation Product	5.33	240.	JAB
9.		Unknown Alkane	5.57	260.	J
10.		Unknown	5.76	300.	J
11.		Unknown	5.84	760.	J
12.		Unknown	5.94	260.	J
13.		Unknown	6.78	180.	J
14.		Unknown	6.94	520.	J
15.		Unknown Alkane	7.66	220.	J
16.		Unknown Alkane	7.95	196.	J
17.		Unknown Alkane	8.66	200.	J
18.		Unknown Alkane	8.90	260.	J
19.		Unknown Alkane	9.48	520.	J
20.		Unknown Alkane	9.86	280.	J
21.		Unknown	10.78	1000.	JB
22.		Unknown Alkane	11.26	480.	J
23.		Unknown	11.72	1060.	J
24.		Unknown Alkane	11.79	2800.	J
25.		Unknown	12.73	1560.	J
26.					
27.					
28.					
29.					
30.					

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S1681

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16084

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF457

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 27 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	460.	U
111-44-4	bis(-2-Chloroethyl)Ether	460.	U
95-57-8	2-Chlorophenol	460.	U
541-73-1	1,3-Dichlorobenzene	460.	U
106-46-7	1,4-Dichlorobenzene	460.	U
95-50-1	1,2-Dichlorobenzene	460.	U
95-48-7	2-Methylphenol	460.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460.	U
106-44-5	4-Methylphenol	460.	U
621-64-7	N-Nitroso-Di-n-propylamine	460.	U
67-72-1	Hexachloroethane	460.	U
98-95-3	Nitrobenzene	460.	U
78-59-1	Isophorone	460.	U
88-75-5	2-Nitrophenol	460.	U
105-67-9	2,4-Dimethylphenol	460.	U
111-91-1	bis(-2-Chloroethoxy)methane	460.	U
120-83-2	2,4-Dichlorophenol	460.	U
120-82-1	1,2,4-Trichlorobenzene	460.	U
91-20-3	Naphthalene	460.	U
106-47-8	4-Chloroaniline	460.	U
87-68-3	Hexachlorobutadiene	460.	U
59-50-7	4-Chloro-3-methylphenol	460.	U
91-57-6	2-Methylnaphthalene	460.	U
77-47-4	Hexachlorocyclopentadiene	460.	U
88-06-2	2,4,6-Trichlorophenol	460.	U
95-95-4	2,4,5-Trichlorophenol	1100.	U
91-58-7	2-Chloronaphthalene	460.	U
88-74-4	2-Nitroaniline	1100.	U
131-11-3	Dimethyl Phthalate	460.	U
208-96-8	Acenaphthylene	460.	U
606-20-2	2,6-Dinitrotoluene	460.	U
99-09-2	3-Nitroaniline	1100.	U
83-32-9	Acenaphthene	460.	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S1681

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16084

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF457

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 27 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CAS NO.	COMPOUND	CONCENTPATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100.	U
100-02-7	4-Nitrophenol	1100.	U
132-64-9	Dibenzofuran	460.	U
121-14-2	2,4-Dinitrotoluene	460.	U
84-66-2	Diethylphthalate	460.	U
7005-72-3	4-Chlorophenyl-phenylether	460.	U
86-73-7	Fluorene	460.	U
100-01-6	4-Nitroaniline	1100.	U
534-52-1	4,6-Dinitro-2-methylphenol	1100.	U
86-30-6	N-Nitrosodiphenylamine	460.	U
101-55-3	4-Bromophenyl-phenylether	460.	U
118-74-1	Hexachlorobenzene	460.	U
87-86-5	Pentachlorophenol	1100.	U
85-01-8	Phenanthrene	460.	U
120-12-7	Anthracene	460.	U
86-74-8	Carbazole	460.	U
84-74-2	Di-n-Butylphthalate	270.	JB
206-44-0	Fluoranthene	120.	J
129-00-0	Pyrene	210.	J
85-68-7	Butyl benzyl phthalate	460.	U
91-94-1	3,3'-Dichlorobenzidine	460.	U
56-55-3	Benzo(a)Anthracene	180.	J
218-01-9	Chrysene	190.	J
117-81-7	bis(2-Ethylhexyl)Phthalate	460.	U
117-84-0	Di-n-octyl phthalate	460.	U
205-99-2	Benzo(b)fluoranthene	110.	J
207-08-9	Benzo(k)Fluoranthene	51.	J
50-32-8	Benzo(a)Pyrene	140.	J
193-39-5	Indeno(1,2,3-cd)Pyrene	100.	J
53-70-3	Dibenz(a,h)anthracene	460.	U
191-24-2	Benzo(g,h,i)Perylene	110.	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S1681

ab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16084

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF457

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 27 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

Number TICs Found: 24 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	3.66	720.	JB
2.		Unknown	4.12	188.	JB
3.		Aldol Condensation Product	4.41	780.	JAB
4.		Aldol Condensation Product	4.51	102.	JAB
5.		Aldol Condensation Product	4.62	196.	JAB
6.		Unknown	4.70	640.	J
7.		Aldol Condensation Product	4.83	380.	JAB
8.		Unknown	5.12	920.	J
9.		Unknown	5.28	94.	J
10.		Unknown	5.33	166.	J
11.		Unknown	5.75	114.	J
12.		Unknown	5.83	420.	J
13.		Unknown Alkane	5.97	168.	J
14.		Unknown	6.78	134.	J
15.	112-34-5	Ethanol, 2-(2-butoxyethoxy)-	6.94	220.	JN
16.		Unknown Alkane	7.94	154.	J
17.		Unknown Hydrocarbon	8.67	180.	J
18.		Unknown Alkane	8.90	420.	J
19.		Unknown Alkane	9.49	340.	J
20.		Unknown Hydrocarbon	9.60	124.	J
21.		Unknown	9.78	280.	J
22.		Unknown Hydrocarbon	9.86	460.	J
23.		Unknown Hydrocarbon	10.81	1100.	J
24.		Unknown Hydrocarbon	11.80	3000.	J
25.					
26.					
27.					
28.					
29.					
30.					

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S1681RE

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16084RE

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF465

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 27 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/02/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	460.	U
111-44-4	bis(-2-Chloroethyl)Ether	460.	U
95-57-8	2-Chlorophenol	460.	U
541-73-1	1,3-Dichlorobenzene	460.	U
106-46-7	1,4-Dichlorobenzene	460.	U
95-50-1	1,2-Dichlorobenzene	460.	U
95-48-7	2-Methylphenol	460.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460.	U
106-44-5	4-Methylphenol	460.	U
621-64-7	N-Nitroso-Di-n-propylamine	460.	U
67-72-1	Hexachloroethane	460.	U
98-95-3	Nitrobenzene	460.	U
78-59-1	Isophorone	460.	U
88-75-5	2-Nitrophenol	460.	U
105-67-9	2,4-Dimethylphenol	460.	U
111-91-1	bis(-2-Chloroethoxy)methane	460.	U
120-83-2	2,4-Dichlorophenol	460.	U
120-82-1	1,2,4-Trichlorobenzene	460.	U
91-20-3	Naphthalene	460.	U
106-47-8	4-Chloroaniline	460.	U
87-68-3	Hexachlorobutadiene	460.	U
59-50-7	4-Chloro-3-methylphenol	460.	U
91-57-6	2-Methylnaphthalene	460.	U
77-47-4	Hexachlorocyclopentadiene	460.	U
88-06-2	2,4,6-Trichlorophenol	460.	U
95-95-4	2,4,5-Trichlorophenol	1100.	U
91-58-7	2-Chloronaphthalene	460.	U
88-74-4	2-Nitroaniline	1100.	U
131-11-3	Dimethyl Phthalate	460.	U
208-96-8	Acenaphthylene	460.	U
606-20-2	2,6-Dinitrotoluene	460.	U
99-09-2	3-Nitroaniline	1100.	U
83-32-9	Acenaphthene	460.	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S1681RE

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16084RE

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF465

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 27 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/02/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100.	U
100-02-7	4-Nitrophenol	1100.	U
132-64-9	Dibenzofuran	460.	U
121-14-2	2,4-Dinitrotoluene	460.	U
84-66-2	Diethylphthalate	460.	U
7005-72-3	4-Chlorophenyl-phenylether	460.	U
86-73-7	Fluorene	460.	U
100-01-6	4-Nitroaniline	1100.	U
534-52-1	4,6-Dinitro-2-methylphenol	1100.	U
86-30-6	N-Nitrosodiphenylamine	460.	U
101-55-3	4-Bromophenyl-phenylether	460.	U
118-74-1	Hexachlorobenzene	460.	U
87-86-5	Pentachlorophenol	1100.	U
85-01-8	Phenanthrene	180.	J
120-12-7	Anthracene	460.	U
86-74-8	Carbazole	460.	U
84-74-2	Di-n-Butylphthalate	220.	JB
206-44-0	Fluoranthene	140.	J
129-00-0	Pyrene	210.	J
85-68-7	Butyl benzyl phthalate	460.	U
91-94-1	3,3'-Dichlorobenzidine	460.	U
56-55-3	Benzo(a)Anthracene	94.	J
218-01-9	Chrysene	270.	J
117-81-7	bis(2-Ethylhexyl)Phthalate	460.	U
117-84-0	Di-n-octyl phthalate	460.	U
205-99-2	Benzo(b)fluoranthene	110.	J
207-08-9	Benzo(k)Fluoranthene	460.	U
50-32-8	Benzo(a)Pyrene	85.	J
193-39-5	Indeno(1,2,3-cd)Pyrene	76.	J
53-70-3	Dibenz(a,h)anthracene	460.	U
191-24-2	Benzo(g,h,i)Perylene	71.	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S1681RE

ab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16084RE

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF465

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 27 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/02/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

Number TICs Found: 26

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	3.60	146.	JB
2.		Unknown	3.67	480.	J
3.		Unknown	4.15	280.	J
4.		Unknown	4.36	114.	J
5.		Aldol Condensation Product	4.42	880.	JAB
6.		Aldol Condensation Product	4.63	194.	JAB
7.		Aldol Condensation Product	4.71	740.	JAB
8.		Aldol Condensation Product	4.83	480.	JAB
9.		Unknown	5.14	880.	J
10.		Unknown	5.28	174.	J
11.		Unknown	5.33	184.	J
12.		Unknown	5.87	420.	JB
13.		Unknown	6.04	260.	J
14.		Unknown	6.79	146.	J
15.		Unknown	6.98	320.	J
16.		Unknown Hydrocarbon	7.68	92.	J
17.		Unknown Hydrocarbon	7.95	166.	J
18.		Unknown	8.68	168.	J
19.		Unknown Hydrocarbon	8.92	240.	J
20.		Unknown	9.51	320.	J
21.		Unknown Aromatic Hydrocarbon	9.61	124.	J
22.		Unknown Hydrocarbon	9.79	240.	J
23.		Unknown	9.89	420.	J
24.		Unknown	10.82	1120.	J
25.		Unknown	11.83	3200.	J
26.					
27.					
28.					
29.					
30.					

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S1981

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16085

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF458

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 38 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	540.	U
111-44-4	bis(-2-Chloroethyl)Ether	540.	U
95-57-8	2-Chlorophenol	540.	U
541-73-1	1,3-Dichlorobenzene	540.	U
106-46-7	1,4-Dichlorobenzene	540.	U
95-50-1	1,2-Dichlorobenzene	540.	U
95-48-7	2-Methylphenol	540.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	540.	U
106-44-5	4-Methylphenol	540.	U
621-64-7	N-Nitroso-Di-n-propylamine	540.	U
67-72-1	Hexachloroethane	540.	U
98-95-3	Nitrobenzene	540.	U
78-59-1	Isophorone	540.	U
88-75-5	2-Nitrophenol	540.	U
105-67-9	2,4-Dimethylphenol	540.	U
111-91-1	bis(-2-Chloroethoxy)methane	540.	U
120-83-2	2,4-Dichlorophenol	540.	U
120-82-1	1,2,4-Trichlorobenzene	540.	U
91-20-3	Naphthalene	540.	U
106-47-8	4-Chloroaniline	540.	U
87-68-3	Hexachlorobutadiene	540.	U
59-50-7	4-Chloro-3-methylphenol	540.	U
91-57-6	2-Methylnaphthalene	540.	U
77-47-4	Hexachlorocyclopentadiene	540.	U
88-06-2	2,4,6-Trichlorophenol	540.	U
95-95-4	2,4,5-Trichlorophenol	1300.	U
91-58-7	2-Chloronaphthalene	540.	U
88-74-4	2-Nitroaniline	1300.	U
131-11-3	Dimethyl Phthalate	540.	U
208-96-8	Acenaphthylene	540.	U
606-20-2	2,6-Dinitrotoluene	540.	U
99-09-2	3-Nitroaniline	1300.	U
83-32-9	Acenaphthene	540.	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S1981

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16085

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF458

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 38 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1300.	U
100-02-7	4-Nitrophenol	1300.	U
132-64-9	Dibenzofuran	540.	U
121-14-2	2,4-Dinitrotoluene	540.	U
84-66-2	Diethylphthalate	540.	U
7005-72-3	4-Chlorophenyl-phenylether	540.	U
86-73-7	Fluorene	540.	U
100-01-6	4-Nitroaniline	1300.	U
534-52-1	4,6-Dinitro-2-methylphenol	130.	J
86-30-6	N-Nitrosodiphenylamine	540.	U
101-55-3	4-Bromophenyl-phenylether	540.	U
118-74-1	Hexachlorobenzene	540.	U
87-86-5	Pentachlorophenol	1300.	U
85-01-8	Phenanthrene	540.	U
120-12-7	Anthracene	540.	U
86-74-8	Carbazole	540.	U
84-74-2	Di-n-Butylphthalate	330.	JB
206-44-0	Fluoranthene	540.	U
129-00-0	Pyrene	440.	J
85-68-7	Butyl benzyl phthalate	540.	U
91-94-1	3,3'-Dichlorobenzidine	540.	U
56-55-3	Benzo(a)Anthracene	280.	J
218-01-9	Chrysene	440.	J
117-81-7	bis(2-Ethylhexyl)Phthalate	73.	J
117-84-0	Di-n-octyl phthalate	540.	U
205-99-2	Benzo(b)fluoranthene	200.	J
207-08-9	Benzo(k)Fluoranthene	80.	J
50-32-8	Benzo(a)Pyrene	110.	J
193-39-5	Indeno(1,2,3-cd)Pyrene	97.	J
53-70-3	Dibenz(a,h)anthracene	66.	J
191-24-2	Benzo(g,h,i)Perylene	77.	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S1981

ab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16085

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF458

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 38 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

Number TICs Found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	3.64	480.	JB
2.		Unknown	4.11	196.	JB
3.		Aldol Condensation Product	4.40	640.	JAB
4.		Unknown Hydrocarbon	4.53	120.	J
5.		Aldol Condensation Product	4.62	240.	JAB
6.		Aldol Condensation Product	4.69	320.	JAB
7.		Aldol Condensation Product	4.82	320.	JAB
8.		Unknown	5.11	540.	J
9.		Unknown Hydrocarbon	5.83	580.	J
10.		Unknown	5.97	260.	J
11.	112-34-5	Ethanol, 2-(2-butoxyethoxy)-	6.96	280.	JN
12.		Unknown	7.39	128.	J
13.		Unknown Alkane	7.67	182.	J
14.		Unknown Hydrocarbon	7.90	160.	J
15.		Unknown Alkane	8.67	320.	J
16.		Unknown Alkane	8.93	1120.	J
17.		Unknown Hydrocarbon	9.49	1580.	J
18.		Unknown Hydrocarbon	9.78	840.	J
19.		Unknown Hydrocarbon	9.87	960.	J
20.		Unknown	10.81	1420.	J
21.					
22.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S1981RE

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16085RE

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF466

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 38 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/02/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	540.	U
111-44-4	bis(-2-Chloroethyl)Ether	540.	U
95-57-8	2-Chlorophenol	540.	U
541-73-1	1,3-Dichlorobenzene	540.	U
106-46-7	1,4-Dichlorobenzene	540.	U
95-50-1	1,2-Dichlorobenzene	540.	U
95-48-7	2-Methylphenol	540.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	540.	U
106-44-5	4-Methylphenol	540.	U
621-64-7	N-Nitroso-Di-n-propylamine	540.	U
67-72-1	Hexachloroethane	540.	U
98-95-3	Nitrobenzene	540.	U
78-59-1	Isophorone	540.	U
88-75-5	2-Nitrophenol	540.	U
105-67-9	2,4-Dimethylphenol	540.	U
111-91-1	bis(-2-Chloroethoxy)methane	540.	U
120-83-2	2,4-Dichlorophenol	540.	U
120-82-1	1,2,4-Trichlorobenzene	540.	U
91-20-3	Naphthalene	540.	U
106-47-8	4-Chloroaniline	540.	U
87-68-3	Hexachlorobutadiene	540.	U
59-50-7	4-Chloro-3-methylphenol	540.	U
91-57-6	2-Methylnaphthalene	540.	U
77-47-4	Hexachlorocyclopentadiene	540.	U
88-06-2	2,4,6-Trichlorophenol	540.	U
95-95-4	2,4,5-Trichlorophenol	1300.	U
91-58-7	2-Chloronaphthalene	540.	U
88-74-4	2-Nitroaniline	1300.	U
131-11-3	Dimethyl Phthalate	540.	U
208-96-8	Acenaphthylene	540.	U
606-20-2	2,6-Dinitrotoluene	540.	U
99-09-2	3-Nitroaniline	1300.	U
83-32-9	Acenaphthene	540.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S1981RE

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

atrix: (soil/water) SOIL Lab Sample ID:16085RE

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF466

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 38 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/02/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1300.	U
100-02-7	4-Nitrophenol	1300.	U
132-64-9	Dibenzofuran	540.	U
121-14-2	2,4-Dinitrotoluene	540.	U
84-66-2	Diethylphthalate	540.	U
7005-72-3	4-Chlorophenyl-phenylether	540.	U
86-73-7	Fluorene	540.	U
100-01-6	4-Nitroaniline	1300.	U
534-52-1	4,6-Dinitro-2-methylphenol	130.	J
86-30-6	N-Nitrosodiphenylamine	540.	U
101-55-3	4-Bromophenyl-phenylether	540.	U
118-74-1	Hexachlorobenzene	540.	U
87-86-5	Pentachlorophenol	1300.	U
85-01-8	Phenanthrene	540.	U
120-12-7	Anthracene	540.	U
86-74-8	Carbazole	540.	U
84-74-2	Di-n-Butylphthalate	330.	JB
206-44-0	Fluoranthene	240.	J
129-00-0	Pyrene	560.	
85-68-7	Butyl benzyl phthalate	540.	U
91-94-1	3,3'-Dichlorobenzidine	540.	U
56-55-3	Benzo(a)Anthracene	300.	J
218-01-9	Chrysene	540.	
117-81-7	bis(2-Ethylhexyl)Phthalate	110.	J
117-84-0	Di-n-octyl phthalate	540.	U
205-99-2	Benzo(b)fluoranthene	200.	J
207-08-9	Benzo(k)Fluoranthene	53.	J
50-32-8	Benzo(a)Pyrene	150.	J
193-39-5	Indeno(1,2,3-cd)Pyrene	100.	J
53-70-3	Dibenz(a,h)anthracene	76.	J
191-24-2	Benzo(g,h,i)Perylene	91.	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S1981RE

ab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16085RE

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF466

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 38 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/02/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

Number TICs Found: 20 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	3.67	440.	JB
2.		Unknown	4.15	260.	JB
3.		Unknown	4.42	720.	JB
4.		Unknown Aromatic Hydrocarbon	4.53	130.	J
5.		Aldol Condensation Product	4.62	260.	JAB
6.		Aldol Condensation Product	4.71	280.	JAB
7.		Aldol Condensation Product	4.83	420.	JAB
8.		Unknown	5.13	480.	J
9.		Unknown	5.34	108.	J
10.		Unknown	5.71	126.	J
11.		Unknown	5.86	580.	J
12.		Unknown	6.04	160.	J
13.	112-34-5	Ethanol, 2-(2-butoxyethoxy)-	6.97	340.	JN
14.		Unknown	7.40	120.	J
15.		Unknown Hydrocarbon	7.91	148.	J
16.		Unknown	8.30	166.	J
17.		Unknown Alkane	8.64	138.	J
18.		Unknown Alkane	8.68	380.	J
19.		Unknown	8.95	1420.	J
20.		Unknown Hydrocarbon	9.50	1860.	J
21.		Unknown	9.80	1000.	J
22.		Unknown	9.88	1080.	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S2521

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16086

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF459

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 33 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	500.	U
111-44-4	bis(-2-Chloroethyl)Ether	500.	U
95-57-8	2-Chlorophenol	500.	U
541-73-1	1,3-Dichlorobenzene	500.	U
106-46-7	1,4-Dichlorobenzene	500.	U
95-50-1	1,2-Dichlorobenzene	500.	U
95-48-7	2-Methylphenol	500.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	500.	U
106-44-5	4-Methylphenol	500.	U
621-64-7	N-Nitroso-Di-n-propylamine	500.	U
67-72-1	Hexachloroethane	500.	U
98-95-3	Nitrobenzene	500.	U
78-59-1	Isophorone	500.	U
88-75-5	2-Nitrophenol	500.	U
105-67-9	2,4-Dimethylphenol	500.	U
111-91-1	bis(-2-Chloroethoxy)methane	500.	U
120-83-2	2,4-Dichlorophenol	500.	U
120-82-1	1,2,4-Trichlorobenzene	500.	U
91-20-3	Naphthalene	500.	U
106-47-8	4-Chloroaniline	500.	U
87-68-3	Hexachlorobutadiene	500.	U
59-50-7	4-Chloro-3-methylphenol	500.	U
91-57-6	2-Methylnaphthalene	500.	U
77-47-4	Hexachlorocyclopentadiene	500.	U
88-06-2	2,4,6-Trichlorophenol	500.	U
95-95-4	2,4,5-Trichlorophenol	1200.	U
91-58-7	2-Chloronaphthalene	500.	U
88-74-4	2-Nitroaniline	1200.	U
131-11-3	Dimethyl Phthalate	500.	U
208-96-8	Acenaphthylene	500.	U
606-20-2	2,6-Dinitrotoluene	500.	U
99-09-2	3-Nitroaniline	1200.	U
83-32-9	Acenaphthene	65.	J

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S2521

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16086

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF459

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 33 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200.	U
100-02-7	4-Nitrophenol	1200.	U
132-64-9	Dibenzofuran	58.	J
121-14-2	2,4-Dinitrotoluene	500.	U
84-66-2	Diethylphthalate	500.	U
7005-72-3	4-Chlorophenyl-phenylether	500.	U
86-73-7	Fluorene	120.	J
100-01-6	4-Nitroaniline	1200.	U
534-52-1	4,6-Dinitro-2-methylphenol	1200.	U
86-30-6	N-Nitrosodiphenylamine	500.	U
101-55-3	4-Bromophenyl-phenylether	500.	U
118-74-1	Hexachlorobenzene	500.	U
87-86-5	Pentachlorophenol	1200.	U
85-01-8	Phenanthrene	1100.	
120-12-7	Anthracene	190.	J
86-74-8	Carbazole	100.	J
84-74-2	Di-n-Butylphthalate	240.	JB
206-44-0	Fluoranthene	1300.	
129-00-0	Pyrene	1600.	
85-68-7	Butyl benzyl phthalate	500.	U
91-94-1	3,3'-Dichlorobenzidine	500.	U
56-55-3	Benzo(a)Anthracene	540.	
218-01-9	Chrysene	900.	
117-81-7	bis(2-Ethylhexyl)Phthalate	560.	
117-84-0	Di-n-octyl phthalate	500.	U
205-99-2	Benzo(b)fluoranthene	1300.	
207-08-9	Benzo(k)Fluoranthene	330.	J
50-32-8	Benzo(a)Pyrene	740.	
193-39-5	Indeno(1,2,3-cd)Pyrene	510.	
53-70-3	Dibenz(a,h)anthracene	140.	J
191-24-2	Benzo(g,h,i)Perylene	440.	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S2521

ab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16086

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF459

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 33 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs Found: 26

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	3.67	1000.	JB
2.		Unknown	4.13	174.	JB
3.		Unknown	4.41	920.	JB
4.		Unknown	4.62	280.	JB
5.		Aldol Condensation Product	4.71	1460.	JAB
6.		Aldol Condensation Product	4.83	640.	JAB
7.		Unknown	5.12	920.	J
8.		Unknown	5.33	220.	JB
9.		Unknown	5.86	340.	J
10.	98-86-2	Acetophenone	5.93	192.	JN
11.	65-85-0	Benzoic Acid	6.65	150.	JN
12.		Unknown	6.78	200.	J
13.		Unknown	6.98	540.	J
14.		Unknown Alkane	7.67	186.	J
15.		Unknown Alkane	7.94	260.	J
16.	30364-38-6	Naphthalene, 1,2-dihydro-1,1	8.72	150.	JN
17.		Unknown Alkane	8.90	320.	J
18.		Unknown	9.23	148.	J
19.		Unknown Alkane	9.48	500.	J
20.		Unknown Alkane	9.87	440.	J
21.		Unknown Alkane	10.49	260.	J
22.		Unknown	10.79	780.	J
23.		Unknown Alkane	11.27	740.	J
24.		Unknown Alkane	11.80	2000.	J
25.		Unknown	12.74	1040.	J
26.					
27.					
28.					
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S2741

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16087

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF460

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 45 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	610.	U
111-44-4	bis(-2-Chloroethyl)Ether	610.	U
95-57-8	2-Chlorophenol	610.	U
541-73-1	1,3-Dichlorobenzene	610.	U
106-46-7	1,4-Dichlorobenzene	120.	J
95-50-1	1,2-Dichlorobenzene	610.	U
95-48-7	2-Methylphenol	610.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	610.	U
106-44-5	4-Methylphenol	610.	U
621-64-7	N-Nitroso-Di-n-propylamine	610.	U
67-72-1	Hexachloroethane	610.	U
98-95-3	Nitrobenzene	610.	U
78-59-1	Isophorone	610.	U
88-75-5	2-Nitrophenol	610.	U
105-67-9	2,4-Dimethylphenol	610.	U
111-91-1	bis(-2-Chloroethoxy)methane	610.	U
120-83-2	2,4-Dichlorophenol	610.	U
120-82-1	1,2,4-Trichlorobenzene	610.	U
91-20-3	Naphthalene	570.	J
106-47-8	4-Chloroaniline	610.	U
87-68-3	Hexachlorobutadiene	610.	U
59-50-7	4-Chloro-3-methylphenol	610.	U
91-57-6	2-Methylnaphthalene	570.	J
77-47-4	Hexachlorocyclopentadiene	610.	U
88-06-2	2,4,6-Trichlorophenol	610.	U
95-95-4	2,4,5-Trichlorophenol	1500.	U
91-58-7	2-Chloronaphthalene	610.	U
88-74-4	2-Nitroaniline	1500.	U
131-11-3	Dimethyl Phthalate	610.	U
208-96-8	Acenaphthylene	610.	U
606-20-2	2,6-Dinitrotoluene	610.	U
99-09-2	3-Nitroaniline	1500.	U
83-32-9	Acenaphthene	3400.	

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S2741

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16087

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF460

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 45 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1500.	U
100-02-7	4-Nitrophenol	1500.	U
132-64-9	Dibenzofuran	1600.	
121-14-2	2,4-Dinitrotoluene	610.	U
84-66-2	Diethylphthalate	610.	U
7005-72-3	4-Chlorophenyl-phenylether	610.	U
86-73-7	Fluorene	790.	
100-01-6	4-Nitroaniline	1500.	U
534-52-1	4,6-Dinitro-2-methylphenol	1500.	U
86-30-6	N-Nitrosodiphenylamine	260.	J
101-55-3	4-Bromophenyl-phenylether	610.	U
118-74-1	Hexachlorobenzene	610.	U
87-86-5	Pentachlorophenol	1500.	U
85-01-8	Phenanthrene	3200.	
120-12-7	Anthracene	3200.	
86-74-8	Carbazole	610.	U
84-74-2	Di-n-Butylphthalate	610.	U
206-44-0	Fluoranthene	610.	U
129-00-0	Pyrene	610.	U
85-68-7	Butyl benzyl phthalate	610.	U
91-94-1	3,3'-Dichlorobenzidine	610.	U
56-55-3	Benzo(a)Anthracene	3300.	
218-01-9	Chrysene	2200.	
117-81-7	bis(2-Ethylhexyl)Phthalate	610.	U
117-84-0	Di-n-octyl phthalate	610.	U
205-99-2	Benzo(b)fluoranthene	3100.	
207-08-9	Benzo(k)Fluoranthene	1500.	
50-32-8	Benzo(a)Pyrene	3000.	
193-39-5	Indeno(1,2,3-cd)Pyrene	4500.	
53-70-3	Dibenz(a,h)anthracene	1800.	
191-24-2	Benzo(g,h,i)Perylene	4400.	

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S2741

ab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16087

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF460

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 45 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/01/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

Number TICs Found: 18

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	3.63	780.	JB
2.		Unknown	4.11	240.	JB
3.		Aldol Condensation Product	4.40	840.	JAB
4.		Aldol Condensation Product	4.61	300.	JAB
5.		Aldol Condensation Product	4.69	960.	JAB
6.		Aldol Condensation Product	4.82	880.	JAB
7.		Unknown	5.12	720.	J
8.		Aldol Condensation Product	5.32	146.	JA
9.		Unknown	5.84	340.	J
10.	98-86-2	Acetophenone	5.93	174.	JN
11.		Unknown	6.07	156.	JB
12.		Unknown	6.96	380.	J
13.		Unknown Hydrocarbon	7.39	148.	J
14.		Unknown	7.51	560.	J
15.		Unknown Alkane	7.67	360.	J
16.		Unknown Hydrocarbon	7.92	620.	J
17.	91-57-6	Naphthalene, 2-methyl-	8.38	720.	JN
18.		Unknown	9.06	5600.	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S2741RE

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16087RE

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF470

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 45 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/05/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	610.	U
111-44-4	bis(-2-Chloroethyl)Ether	610.	U
95-57-8	2-Chlorophenol	610.	U
541-73-1	1,3-Dichlorobenzene	610.	U
106-46-7	1,4-Dichlorobenzene	130.	J
95-50-1	1,2-Dichlorobenzene	610.	U
95-48-7	2-Methylphenol	610.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	610.	U
106-44-5	4-Methylphenol	610.	U
621-64-7	N-Nitroso-Di-n-propylamine	610.	U
67-72-1	Hexachloroethane	610.	U
98-95-3	Nitrobenzene	610.	U
78-59-1	Isophorone	610.	U
88-75-5	2-Nitrophenol	610.	U
105-67-9	2,4-Dimethylphenol	610.	U
111-91-1	bis(-2-Chloroethoxy)methane	610.	U
120-83-2	2,4-Dichlorophenol	610.	U
120-82-1	1,2,4-Trichlorobenzene	610.	U
91-20-3	Naphthalene	600.	J
106-47-8	4-Chloroaniline	610.	U
87-68-3	Hexachlorobutadiene	610.	U
59-50-7	4-Chloro-3-methylphenol	610.	U
91-57-6	2-Methylnaphthalene	570.	J
77-47-4	Hexachlorocyclopentadiene	610.	U
88-06-2	2,4,6-Trichlorophenol	610.	U
95-95-4	2,4,5-Trichlorophenol	1500.	U
91-58-7	2-Chloronaphthalene	610.	U
88-74-4	2-Nitroaniline	1500.	U
131-11-3	Dimethyl Phthalate	610.	U
208-96-8	Acenaphthylene	610.	U
606-20-2	2,6-Dinitrotoluene	610.	U
99-09-2	3-Nitroaniline	1500.	U
83-32-9	Acenaphthene	580.	J

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S2741RE

Lab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16087RE

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF470

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 45 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/05/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1500.	U
100-02-7	4-Nitrophenol	1500.	U
132-64-9	Dibenzofuran	1400.	
121-14-2	2,4-Dinitrotoluene	610.	U
84-66-2	Diethylphthalate	610.	U
7005-72-3	4-Chlorophenyl-phenylether	610.	U
86-73-7	Fluorene	1700.	
100-01-6	4-Nitroaniline	1500.	U
534-52-1	4,6-Dinitro-2-methylphenol	1500.	U
86-30-6	N-Nitrosodiphenylamine	610.	U
101-55-3	4-Bromophenyl-phenylether	610.	U
118-74-1	Hexachlorobenzene	610.	U
87-86-5	Pentachlorophenol	1500.	U
85-01-8	Phenanthrene	3400.	
120-12-7	Anthracene	4300.	
86-74-8	Carbazole	610.	U
84-74-2	Di-n-Butylphthalate	610.	U
206-44-0	Fluoranthene	610.	U
129-00-0	Pyrene	610.	U
85-68-7	Butyl benzyl phthalate	610.	U
91-94-1	3,3'-Dichlorobenzidine	610.	U
56-55-3	Benzo(a)Anthracene	3400.	
218-01-9	Chrysene	2800.	
117-81-7	bis(2-Ethylhexyl)Phthalate	610.	U
117-84-0	Di-n-octyl phthalate	610.	U
205-99-2	Benzo(b)fluoranthene	2800.	
207-08-9	Benzo(k)Fluoranthene	2200.	
50-32-8	Benzo(a)Pyrene	1400.	
193-39-5	Indeno(1,2,3-cd)Pyrene	6000.	
53-70-3	Dibenz(a,h)anthracene	1300.	
191-24-2	Benzo(g,h,i)Perylene	6200.	

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S2741RE

ab Name:General Testing Corp Contract:NES

Lab Code:10145 Case No.: SAS No.: SDG No.:S161

Matrix: (soil/water) SOIL Lab Sample ID:16087RE

Sample wt/vol: 30.0 (g/ml) G Lab File ID: BF470

Level: (low/med) LOW Date Received: 5/12/95

% Moisture: 45 decanted: (Y/N) N Date Extracted: 5/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 6/05/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

Number TICs Found: 17

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	3.66	640.	JB
2.		Aldol Condensation Product	4.21	200.	JA
3.		Aldol Condensation Product	4.43	940.	JAB
4.		Aldol Condensation Product	4.62	220.	JAB
5.		Aldol Condensation Product	4.71	380.	JAB
6.		Aldol Condensation Product	4.83	1680.	JAB
7.		Aldol Condensation Product	5.34	240.	JA
8.		Unknown	5.73	280.	J
9.		Aldol Condensation Product	5.86	200.	JAB
10.		Unknown	5.94	220.	J
11.		Unknown	7.00	440.	J
12.		Unknown Alkane	7.51	540.	J
13.		Unknown Alkane	7.71	440.	J
14.		Unknown Alkane	7.92	500.	J
15.		Unknown	8.10	340.	J
16.		Unknown	8.33	480.	J
17.		Unknown	9.06	4200.	J
18.					
19.					
20.					
21.					
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29.					
30.					

Attachment B

Army Corps Permit Approval Letter

DEPARTMENT OF THE ARMY
BUFFALO DISTRICT, CORPS OF ENGINEERS
1776 NIAGARA STREET
BUFFALO, NEW YORK 14207-3199

November 1, 1995

REPLY TO ATTENTION OF
Regulatory Branch

SUBJECT: Application No. 96-976-11, Nationwide Permit 33 CFR 330, Appendix A, Section B, No. (38)

Mr. Michael Cioffi
Vice President
American Financial Group
One East Fourth Street
Cincinnati, Ohio 45202

Dear Mr. Cioffi:

This pertains to your proposed removal of hazardous waste from Slate Bottom Creek, located on Union Road, in the Town of Cheektowaga, Erie County, New York.

I have reviewed your application, and have determined that the construction of temporary fill cofferdams in Slate Bottom Creek, and the discharge of fill into a small portion of a 0.35 acre Federal wetland to construct a temporary access road along the creek bank are authorized by the enclosed Nationwide Permit provided that the attached conditions are satisfied. The actual clean up of the creek entails dredging about 2,150 cubic yards of material from the waterway. The dredged materials will be disposed of within the capping limits of the facility as directed by the New York State Department of Environmental Conservation. Please note that our verification of the applicability of this Nationwide Permit is valid for two years from the date of this letter unless the Nationwide is modified, suspended, or revoked. This verification will remain valid if during this two year period the Nationwide Permit is reissued without modification. Please note that if you commence or are under contract to commence this activity in reliance of your Permit prior to the date this Permit expires, is suspended or revoked, or is modified such that your activity no longer complies with the terms and conditions, you have 12 months from the date of Permit modification, expiration, or revocation to complete the activity under the present terms and conditions of the Permit, unless this Permit has been subject to the provisions of discretionary authority.

It is your responsibility to remain informed of changes to the Nationwide Permit program. A public notice announcing any changes will be issued when they occur. Finally, note that if

Regulatory Branch
SUBJECT: Application No. 96-976-11, Nationwide Permit 33 CFR 330, Appendix A, Section B, No. (38)

your activity is not undertaken within the two year period or the project specifications have changed, you must immediately notify this office to determine the need for further approval or reverification.

In addition to the general conditions attached to the Nationwide Permit, you must also comply with the following Special Conditions:

1. That you are responsible for ensuring that the contractor and/or workers executing the activity(s) authorized by this permit have knowledge of the terms and conditions of the authorization and that a copy of the permit document is at the project site throughout the period the work is underway.

2. That the fill used to construct the temporary cofferdams in the creek, and the access road through a portion of the 0.35 acre Federal wetland shall be clean non-erodible material originating from an upland source

3. That the fill created by the discharge shall be properly maintained to prevent erosion and other non-point sources of pollution.

4. That upon completion of the clean up work the stone/fill used to construct the temporary cofferdams in the creek, and access road through the Federal wetland shall be removed from the waterway and wetland. The materials will be disposed of at the Union Road site within the area to be capped.

5. That the area of wetland that was impacted by the construction of the temporary access road shall be restored as soon as practical following completion of the remediation work.

You are encouraged to contact the appropriate state and local governmental officials to insure that your project complies with their requirements.

Lastly, I would like to point out that our verification of the Federal wetland boundary, as shown on the attached drawings, is valid for a period of five (5) years from the date of this

Regulatory Branch
SUBJECT: Application No. 96-976-11, Nationwide Permit 33 CFR 330, Appendix A, Section B, No. (38)

correspondence. At the end of this period, a new wetland delineation will be required if the above described work is not completed.

Your initiation of work as authorized by the enclosed Nationwide Permit acknowledges your acceptance of the general and special conditions contained therein.

Questions pertaining to this matter should be directed to Mr. Gary McDannell, who may be contacted by calling 716-879-4322, or by writing to the above address.

Sincerely,

for Walter C. Neitzke
Colonel, U.S. Army
Commanding

Enclosures