REPORT ON INSTALLATION OF TEST PITS AND VAPOR SURVEY

SMALL LANDFILL

NAVAL AIR STATION
SOUTH WEYMOUTH, MASSACHUSETTS
CONTRACT NO. N62472-05-D-1403

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HRP# NAV2002.SW

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1.0 INTRODUCTION

This investigation was completed by HRP Associates, Inc. (HRP) on behalf of the Department of the Navy, Engineering Field Activity Northeast (EFANE), under Contract Number N62472-05-D-1403, as part of a Corrective Action Alternatives Analysis (CAAA) for the Small Landfill (SL) at the Naval Air Station in South Weymouth, Massachusetts (Figure 1). This investigation consisted of installation of test pits, collection and analysis of vapor samples, and a topographic survey. The purpose of this investigation was to collect information on the degree and extent of solid waste and to evaluate the potential for landfill gases to provide data for the CAAA evaluation.

The South Weymouth Naval Air Station property is located primarily in the town of Weymouth, Massachusetts, with portions extending into the adjacent towns of Abington and Rockland (Figure 1). The SL is located entirely within the town of Rockland on the northeastern portion of the Naval Air Station property. The SL consists of an open field with an uneven, hummocky surface, overgrown with tall grasses and shrubs and surrounded by wooded land (Figure 2). The surface of the SL slopes downward slightly to the northwest. Previous investigations characterized the SL as approximately 0.8 acres in size, with a maximum depth of nine feet, and an estimated volume of 12,000 cubic yards.

During the 1980s, the SL was used by the Navy to dispose debris, primarily concrete rubble and tree stumps. Additional materials identified in two test pits installed during previous investigations included asphalt, railroad ties, plastic, steel, aluminum, rubber tubing, bottles and cans, electrical wires, and wood debris.

The following major reports discuss the Small Landfill, along with other areas on the South Weymouth Naval Base:

Preliminary Assessment - 1988

In 1988, Argonne National laboratory performed a Preliminary Assessment (PA) of the South Weymouth Naval Air Station under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). The PA included records review, interviews, and a site walkover to evaluate the potential for contamination relating to past waste practices. As a result, the SL was identified as one of five locations that were recommended for further study.

Site Inspection – 1991

Baker Environmental, Inc. performed a CERCLA Site Inspection (SI) of eight locations within the Naval Air Station in 1991. The SI included geophysical surveys, installation of monitoring wells, and collection of soil, sediment, and surface water samples. The SI was conducted as a screening investigation to provide data for Hazard Ranking System Scoring and development of a comprehensive work plan for further study. The SL was included among the six locations recommended for additional investigation.

Phase I Remedial Investigation - 1998

In 1998, Brown & Root Environmental conducted a CERCLA Phase I Remedial Investigation (RI) at the Naval Air Station. In addition to the collection of soil, ground water, sediment, and surface water samples, the RI included soil-vapor and geophysical surveys, immunoassay testing, ecological assessment, and test pit excavation. Low levels of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, one polychlorinated biphenyl (PCB), and metals were detected. At the conclusion of the RI, the report recommended the SL for additional investigation.

Phase II Remedial Investigation - 2000

Tetra Tech conducted a CERCLA Phase II Remedial Investigation (RI) at the Naval Air Station in 2000 to fill in data gaps from the Phase I and previous studies. The Phase II RI included additional ecological assessment, surface soil sampling, and water level gauging. As during the Phase I investigation, low levels of soil, and ground water contaminants were detected. The completed Remedial Investigation (including both the Phase I and Phase II) concluded that the constituents detected at the SL were found at levels very close to their analytical detection limits or within the range of background concentrations and that cleanup was not warranted to protect human health or the environment.

Based on the information about the SL and the surrounding area obtained from these previous reports, the ground water underlying the SL would be classified GW-2 and GW-3 under the Massachusetts Contingency Plan (MCP- 310 CMR 40.0000). The SL area would also be classified RCS-1 in terms of determining Notification Requirements (310 CMR 40.0361).

2.0 SUBSURFACE INVESTIGATION

2.1 Preliminary Activities

Prior to the initiation of the subsurface investigations HRP personnel marked selected test pit locations in the field using wooden stakes with white flagging prior to contacting the Massachusetts Dig Safe service to request a utility mark out. Following confirmation of the absence of public or private subsurface utilities, the proposed subsurface investigations were completed as planned without utility conflicts.

In order to access the edges of the SL with the excavator and minimize disturbance to existing mature trees, site personnel enlisted a subcontractor to cut down tall grasses and brush at seven pre-marked locations. This vegetation removal allowed the excavator to reach into the wooded areas from the landfill proper to define the edges of buried debris, and also provided travel pathways for the machine across the landfill that could more easily be examined for small animals (see below).

2.2 Test Pit Installation and Soil Sampling

Test Pit Installation

The subsurface investigation consisted of the installation of 25 test pits (TP-1 through TP-25) within the SL area. The test pits in the center of the landfill were installed to examine and identify the types of materials and debris buried beneath the surface, and to determine the lower boundary of the landfill. Test pits were also installed in all directions away from the central area to determine the horizontal extent of the landfill. The locations of the test pits are shown on Figure 2. The test pits were installed by Geosearch, Inc. under HRP supervision using a track-mounted excavator with the capability of excavating to a depth of at least 20 feet below grade. Test pits TP-1 through TP-9 were installed on July 11, 2005, and test pits TP-10 through TP-25 were installed on the following day, July 12, 2005. Test pit logs, including descriptions of materials and documentation of any visual, physical, or olfactory evidence of contamination, are attached in Appendix A.

Prior to commencement of work each day, ENSR International (ENSR) wildlife biologists examined the ground surface for spotted turtles (*Clemmys guttata*) and eastern box turtles (*Terrapene carolina)* at each test pit location, and along the excavator's path to each test pit. Both animals are listed as species of "Special Concern" in Massachusetts – native species documented by inventory studies or biological research to have suffered a decline, or species in such small numbers that they easily could become threatened and/or endangered. Both turtles have been previously found at various locations on the Naval Air Station property and selected animals have been tagged with radio transmitters. Although one spotted turtle was found at the southeastern edge of the SL during the week prior to site activities when brush was cleared, no turtles were found during the two-day test pit investigation.

At each test pit location, surface materials and any visible debris were examined and then excavation began by carefully removing the upper one or two feet of soil cover. Excavated material was cast immediately adjacent to each test pit so that it could be examined and logged. In this manner, excavation continued downward until the native sandy soil, which was free of debris, was encountered. Test pit depths ranged from 3 to 10 feet below grade. No ground water was encountered in any of the test pits. Each test pit was filled in with the excavated material before proceeding to the next test pit location.

Subsurface materials observed in the test pits generally consisted of a thin uppermost layer of dark brown, gravelly loam above a brown, fine to coarse sand and gravel with varying amounts of silt and cobbles. The uppermost topsoil layer varied in thickness between 0 and 2.5 feet. The two uppermost horizons combined were generally between 1.5 and 7 feet in thickness. In 15 of the 25 test pits, debris was present in one or both of these two shallow soil layers. A native material consisting of light brown, fine to medium sand with varying amounts of iron-stained silt and fine gravel was identified beneath these upper two strata. No debris was identified in this lower soil layer that was encountered as shallow as 1.5 and as deep as 7.0 feet below the ground surface.

The soil in test pit TP-19 that was found from 0.5 to 8.0 feet beneath the surface was a black, fine to coarse sand and gravel with an organic or petroleum odor. Gray silt and clay was found in TP-19 from 8.0 to 10.0 feet below grade that had noticeably less odor.

Table 1 presents a description and locations of various debris identified in the test pits. The landfill materials identified included tree stumps, wire, rebar, metal, plastic, rubber, asphalt, and a variety of other materials (Table 1). The types of materials were consistent with those previously identified in the landfill area. The materials were present in varying amounts and thicknesses throughout the area, but were not present in a continuous layer(s). No debris was present in some of the test pits. There were no materials identified that would suggest that any significant amounts of oil or hazardous materials are present in the SL.

The exposed subsurface materials in each test pit were screened for the presence of landfill gases using a portable LandTec GEM2000 landfill gas meter. Measurements for methane (%), carbon dioxide (%), and hydrogen sulfide (parts per million - ppm) were collected. The results of the test pit landfill gas screening are recorded on the test pit logs attached as Appendix A. No methane, carbon dioxide, or hydrogen sulfide were detected in the ambient air within any of the test pits. A soil sample from each of the test pits was collected into clean sealable plastic bags for screening for VOCs using a photoionization detector (PID). The results of the PID screening are provided in Table 2 and on test pit logs (Appendix A).

The PID readings were all below 2.0 ppm with the exception of the sample collected from the dark soil in test pit TP-19 that had an organic or petroleum odor and a PID screening result of 7.3 ppm.

Sample Collection and Analysis

The majority of the debris identified in the SL consisted of bulky waste that did not appear to pose a threat to the soil or ground water quality at the site. However, two suspect materials were found: (1) a blue-white crystalline substance in TP-18, and (2) a black sandy soil with an organic or petroleum odor in TP-19. Samples of crystalline material from TP-18 and the dark soil from TP-19 were collected in appropriate containers and submitted under chain of custody to a State-certified laboratory for the following analyses for characterization:

RCRA Hazardous Waste Characteristics

- 8 RCRA Metals by Toxicity Characteristic Leaching Procedure – TCLP (EPA Methods 1311/6010/7470)
- Reactive Cyanide and Sulfide (SW846 CH.7.3.3.2 and CH 7.3.4.2)
- Ignitability - Flash Point (EPA Method 1010)
- pH (EPA Method 9045)

Potential Contaminants

- 13 Priority Pollutant Metals by Mass Analysis (EPA Methods 3050/6010/7471)
- VOCs (EPA Method 8260)
- SVOCs (EPA Method 8270)
- PCBs (EPA Method 8082)
- Total Petroleum Hydrocarbons – TPH (EPA Method 418.1)

Physical Parameters

- Conductivity (Method 2510B)

2.3 Landfill Gas Monitoring and Sampling

On July 12, 2005, HRP conducted a survey of landfill gases at the SL and collected gas samples for laboratory analysis from selected locations. The gas monitoring was performed at 22 locations (SG-1 through SG-22, Figure 2) throughout the SL and beyond the perimeter of the landfill. At each location HRP personnel used a slam bar to drive small (approximately ¾-inch) holes into the existing soil cover to a depth of approximately 30 inches. A glass tube was then inserted into each hole and the edges around the tube were tamped down to form a seal and prevent short-circuiting with the ambient air. Clean plastic tubing was attached to the top of the glass tube, and then a small personal air pump was attached to the tubing to extract an air sample. At each location, the air pump was allowed to run for approximately two minutes to purge the glass tube and plastic tubing of ambient air. When the purging was completed, the tubing was connected to a LandTec GEM2000 landfill gas meter and measurements were recorded for percent methane (CH_4), percent hydrogen sulfide

(H_2S), percent carbon dioxide (CO_2), and percent oxygen (O_2). The tubing was then removed from the landfill gas monitor and connected to a PID and total VOCs (in parts per million) were measured at each location.

HRP also collected air samples from four selected locations for laboratory analysis. Two samples were collected from the open area of the landfill (SG-5 and SG-10), one sample was collected at the upgradient edge of the landfill (SG-11), and one sample was collected in the wooded area down gradient of the landfill (SG-12). At each of the four locations, a glass tube was inserted into the soil cover as before, and tubing was connected between the glass tube and a 6-liter evacuated SUMMA canister. The valve on the top of the canister was then opened and the vacuum within the unit drew the sample inside. The valve was closed following collection of each sample and the canister was labeled.

The four SUMMA canisters were submitted to the laboratory for the following analyses:

- Volatile Organic Compounds (EPA Method TO-15)
- Methane and carbon dioxide (EPA Method 3C - modified)
- Sulfur compounds (EPA Method 16 – modified)

Due to a failure of a valve on one of the canisters at the laboratory, sample SG-10 was re-collected on July 19, 2005.

2.4 Topographic Survey

On July 19, 2005, HRP conducted a topographic survey of the SL, the test pit and landfill gas monitoring locations, and the existing monitoring wells. The survey data were used to produce Figures 2 and 3. The surface of the SL slopes downward from east to west a total of approximately 18 feet in elevation. The survey data, along with the test pit logs, were also used to determine the approximate extent of the landfill and estimate the volume of debris present.

3.0 INVESTIGATION RESULTS

3.1 Extent of Landfill

Figure 3 illustrates the approximate horizontal extent of the debris detected at the SL as established by information from the test pits. Based upon the results of the test pit investigation, the surface area of the SL was determined to be approximately 1.51 acres or 65,775 square feet. Test pits TP-2, 3, 4, 5, 8, 10, 11, 12, 13, and 22, which contained no debris from the surface down to the native silty soil layer, were used to define the area of the landfill.

Based upon test pit observations, the average thickness of the debris was calculated to be 3.16 feet. This resulted in a total estimated volume of debris of approximately 207,850 cubic feet, or 7,700 cubic yards. This volume would also include some subsurface soils covering the debris since the debris was not found in an isolated or distinct layer.

3.2 Soil/Waste Analytical Results

The laboratory results from the test pit waste (TP-18) and soil (TP-19) samples submitted for analysis are summarized in Table 3. A copy of the complete laboratory report is attached in Appendix B.

Neither sample produced reactive cyanide or sulfide, and both had neutral pH levels. Neither sample exhibited the hazardous waste characteristic of ignitability since their flash points were well above the Resource Conservation and Recovery Act (RCRA) criteria of 140° F. Five metals (barium, cadmium, chromium, lead, and mercury) were detected using the Toxicity Characteristic Leaching Procedure (TCLP). All of the concentrations were well below the RCRA hazardous waste thresholds. Based on the laboratory results, neither material would be classified as a RCRA hazardous waste.

No VOCs or PCBs were detected in either of the two test pit samples. Eight of the 13 US EPA Priority Pollutant Metals were detected by mass analysis: beryllium, cadmium, chromium, copper, lead, mercury, nickel, and zinc. For comparison purposes, the levels of metals were compared to the Massachusetts Contingency Plan (MCP) Reportable Concentrations for S-1 soil areas. None of the metal detections exceeded the RCS-1 standards.

Three Polynuclear Aromatic Hydrocarbons (PAH) compounds were detected in the TP-18 sample containing the blue-white crystalline material, and 13 PAH compounds were detected in the TP-19 sample containing the soil with the organic or petroleum odor. Although three of these compounds in sample TP-19 slightly exceeded their MCP RCS-1 values, none exceeded the concentrations in "natural" soil listed by the Massachusetts Department of Environmental Protection (MA DEP) in their "Technical Update: Background Levels of Polycyclic Aromatic Hydrocarbons and Metals in Soils." These compounds included: benzo(a)anthracine (0.98 ppm), benzo(a)pyrene (1.03 ppm), and benzo(b)fluoranthene (1.81 ppm).; whereas natural background levels for each of the above listed compounds are 2.0 mg/kg respectively. Similar PAHs were

previously detected in soil samples from test pits and from test borings in the SL area during prior investigations.

Total petroleum hydrocarbons were detected in both test pit samples at 231 ppm (TP-18) and 172 ppm (TP-19). The concentration of TPH in TP-18 exceeds the MCP RCS-1 of 200 mg/kg (ppm). However, based on the MA DEP's letter to the Navy dated March 21, 2005, the Small Landfill meets the MCP's definition of an "Adequately Regulated Site" (310 CMR 40.0110) because it is a solid waste management facility that is in the process of being closed under 310 CMR 19.000. As noted in 310 CMR 40.0114 (1) (c), there would be no 120-day reporting requirement for this finding for an adequately regulated site. Therefore, this finding does not trigger a 120-day notification to the MA DEP.

3.3 Landfill Gas Monitoring and Sampling Results

On-site Landfill Gas Monitoring Results

Table 4 presents the landfill gas monitoring data collected at the site on July 12, 2005.

Methane was detected at low concentrations of 0.1% in 12 (SG-5, SG-6, and SG-8 through SG-17) of the 22 gas samples. Methane was not detected in the other samples. The same 12 samples also contained low levels of hydrogen sulfide. In eleven of the samples, the hydrogen sulfide was measured at 1%, and in SG-11 the reading was 3% H_2S.

The majority of the carbon dioxide readings were below 4.0 percent. Higher levels were detected in samples SG-2 (4.3%), SG-5 (5.2%), SG-4 (5.9%), and SG-1 (10.9%). Oxygen levels were predominantly greater than 18%. Only samples SG-5 (15.0%), SG-2 (13.2%), SG-4 (10.8%), SG-1 (9.2%), and SG-7 (2.0%) had lower oxygen levels. There appears to be an inverse relationship between the oxygen and carbon dioxide concentrations. With the exception of sample SG-7, the samples exhibiting the highest CO_2 levels also had the lowest O_2 percentages. Samples SG-1, SG-2, and SG-4 are located near the center of the landfill between test pit TP-1, where some of the thickest debris was found, and near TP-19, where a dark soil with an organic or petroleum odor was identified.

VOCs were also measured at each of the soil gas points using a PID. At 15 locations no VOCs were detected. Low concentrations of total VOCs (between 1.4 and 5.7 ppm) were found in four samples. However, at three locations (SG-13, SG-18, and SG-20), VOC concentrations exceeding 30 ppm (79.4, 76.8, and 32.4 ppm, respectively) were detected. All three of these locations were beyond the boundaries of the SL. SG-13 was collected adjacent to the gravel road to the east and upgradient of the SL. SG-18 and SG-20 were both collected in the wooded area to the west and down gradient of the SL. Test pits installed to the east and west of the landfill did not contain any visible debris or contamination.

Landfill Gas Sample Analytical Results

The laboratory results from the landfill gas samples submitted for analysis are summarized in Table 5. Copies of the complete laboratory reports (LIMS-90178 and LIMS-90374) are attached in Appendix B.

No methane or sulfur compounds were detected in any of the landfill gas samples submitted for laboratory analysis. Carbon dioxide was detected in SG-5 at 2%, SG-10 at 0.59%, and in SG-12 at 0.29%. No carbon dioxide was detected in the SG-11 sample. Carbon dioxide is produced in the soil by microbial and root respiration, following the uptake of carbon and oxygen by the microbes and plants.

Low concentrations of VOC compounds were detected in samples SG-10 and SG-11 (Table 5). Four VOC compounds were detected in the SG-12 sample and no VOCs were detected in SG-5. None of the VOCs detected in the landfill gas samples were detected in ground water samples previously collected at the SL in 1996.

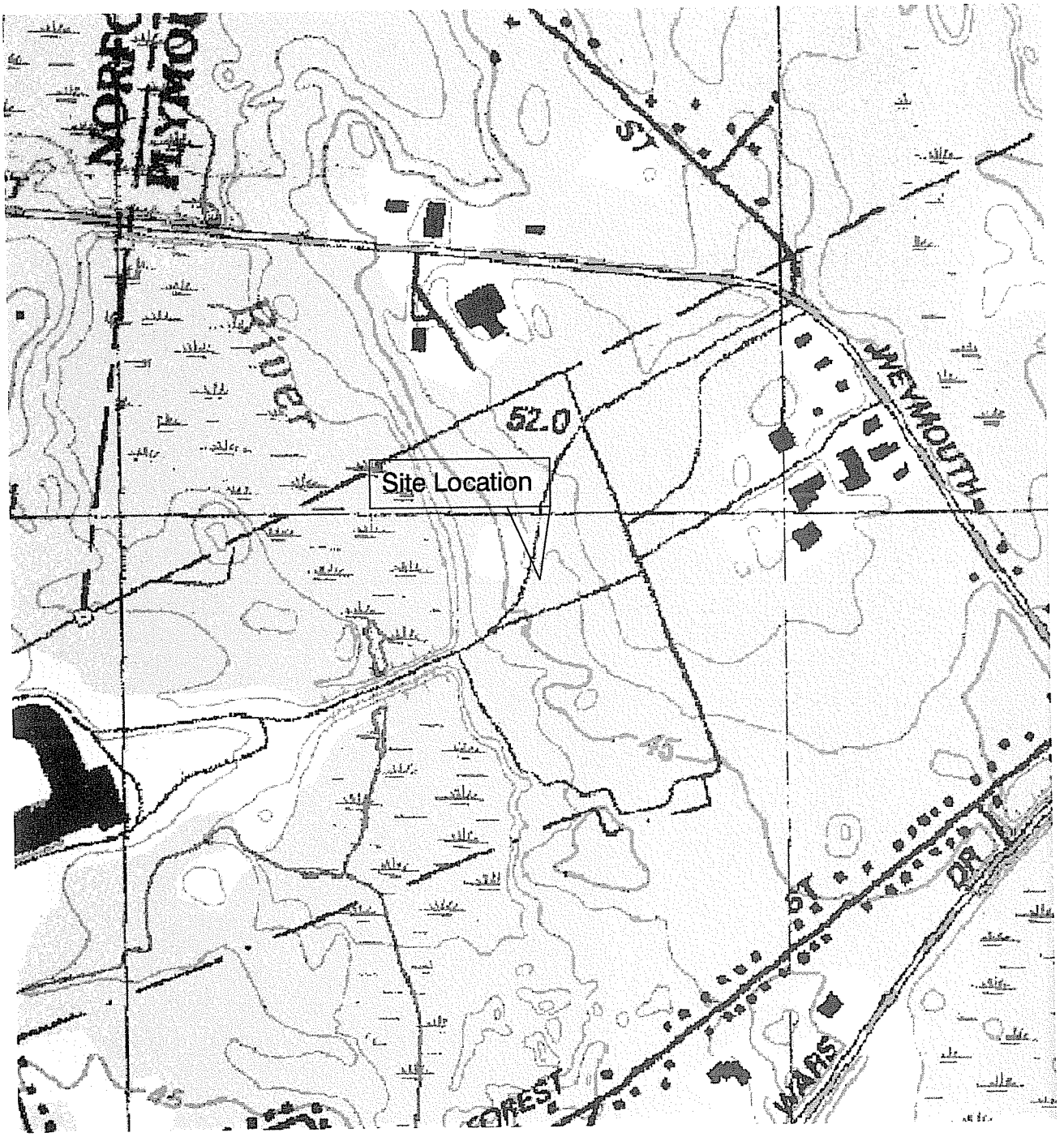
4.0 CONCLUSIONS

The approximate extent of the South Weymouth Naval Air Station Small Landfill was determined by a series of 25 test pits that were excavated down to undisturbed native soil during this investigation. The area of landfill debris was determined to be approximately 1.51 acres, with an average thickness of 3.16 feet. The thickness varied from 0 to about 7 ft. in the test pits. This results in a total volume of 7,700 cubic yards of landfill debris and intermixed soil.

The majority of the debris identified was bulky waste, including metal, glass, rubber, nylon, and plastic materials. No visual evidence of soil contamination was found, with the exception of two suspect materials: a blue-white crystalline substance in test pit TP-18 and an area of dark soil with an organic or petroleum odor in test pit TP-19. Samples of these materials were submitted for laboratory analysis. Low levels of metals, PAHs, and petroleum hydrocarbons were detected. The lab results indicated that neither the blue-white substance nor the dark soil exhibited any hazardous waste characteristics. The testing results for these materials were generally consistent with testing results from soils from previous investigations (i.e. PAHs, metals, etc.).

Landfill gas sampling detected low methane concentrations of 0.10 percent and hydrogen sulfide of up to 3 percent in some locations within the SL area using field instrumentation. Three PID readings above 30 ppm were detected during the field screening survey; all three detections were at the edge or outside of the SL debris area and no visual evidence of contamination was found on the surface at those locations. It is possible that the PID readings were affected by soil moisture. Landfill gas samples submitted for laboratory analysis contained low concentrations of VOCs, none of which were detected in historical ground water samples collected from monitoring wells in the SL area. No methane or sulfur compounds were detected in the landfill gas samples submitted for laboratory analysis.

FIGURES



SCALE 1 : 24000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

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FIGURE 1
SITE LOCATION
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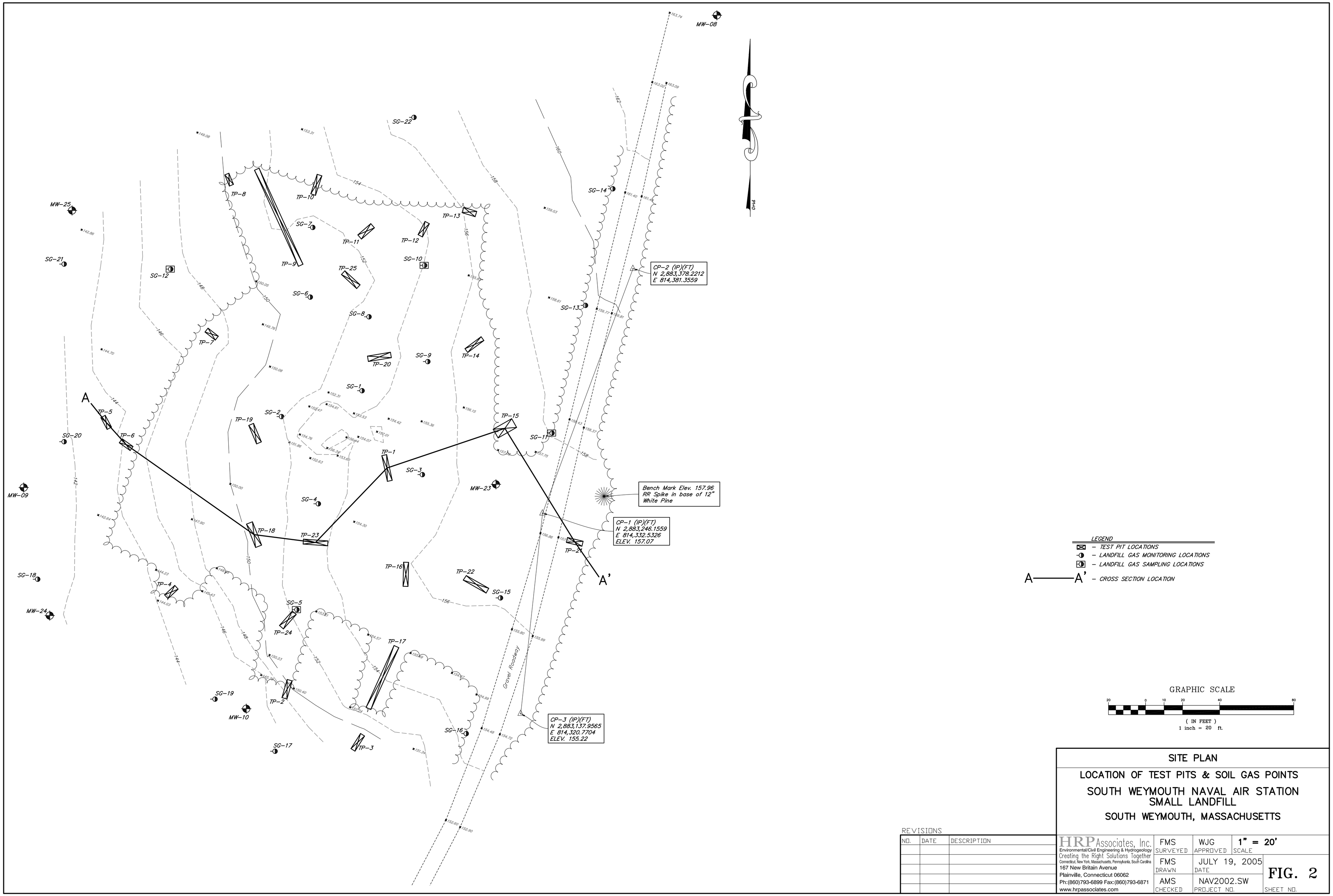
NAVAL AIR STATION
SOUTH WEYMOUTH, MA
HRP# NAV2002.SW



LEGEND

- TEST PIT LOCATIONS
- LANDFILL GAS MONITORING LOCATIONS
- LANDFILL GAS SAMPLING LOCATIONS
- A——A' CROSS SECTION LOCATION

REVISIONS

NO.	DATE	DESCRIPTION

SITE PLAN

LOCATION OF TEST PITS & SOIL GAS POINTS

SOUTH WEYMOUTH NAVAL AIR STATION
SMALL LANDFILL

SOUTH WEYMOUTH, MASSACHUSETTS

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FMS SURVEYED	WJG APPROVED	1" = 20' SCALE	
FMS DRAWN	JULY 19, 2005 DATE		FIG. 2
AMS CHECKED	NAV2002.SW PROJECT NO.		SHEET NO.

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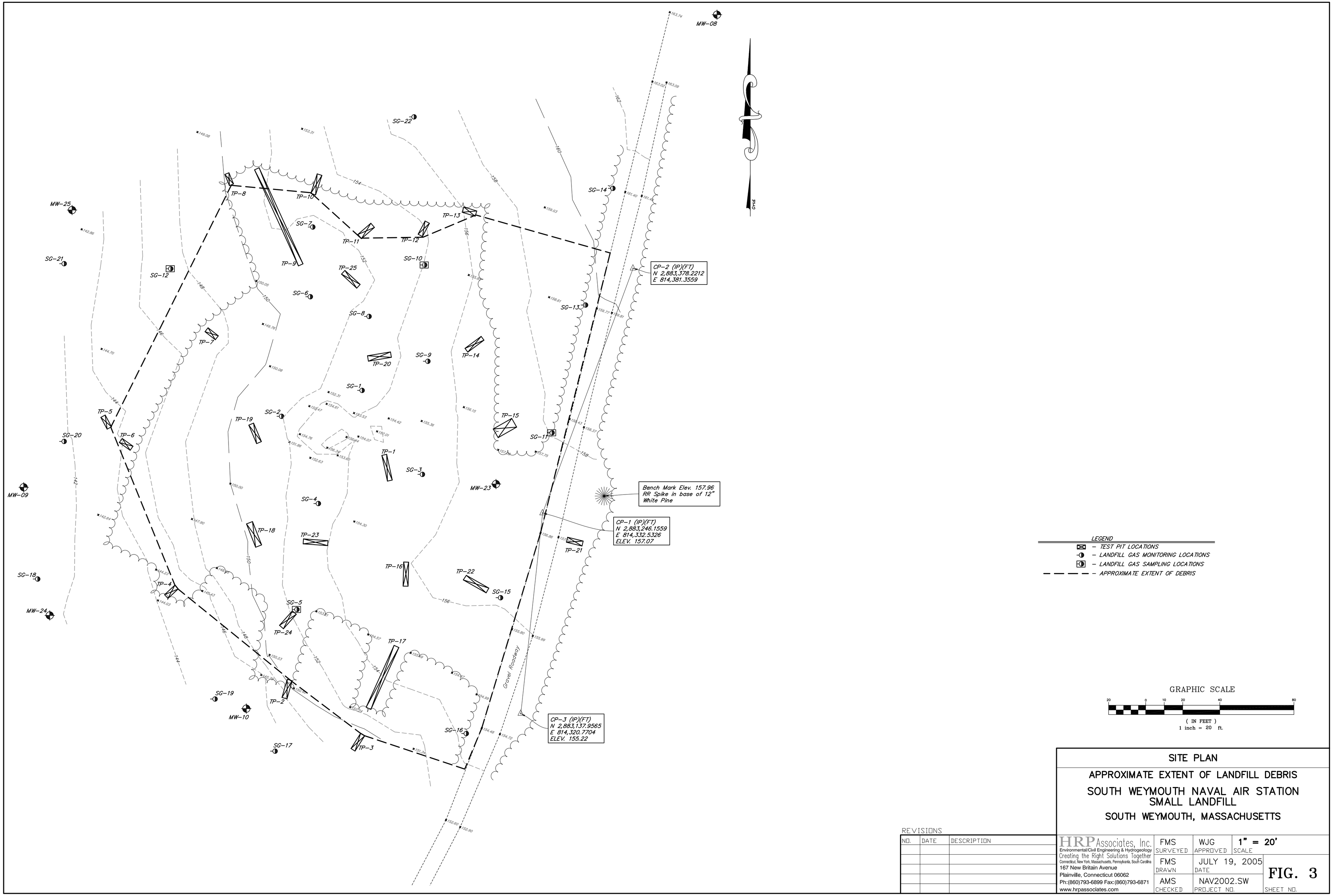

LEGEND

- TEST PIT LOCATIONS
- LANDFILL GAS MONITORING LOCATIONS
- LANDFILL GAS SAMPLING LOCATIONS
- APPROXIMATE EXTENT OF DEBRIS

REVISIONS

NO.	DATE	DESCRIPTION

SITE PLAN

APPROXIMATE EXTENT OF LANDFILL DEBRIS

SOUTH WEYMOUTH NAVAL AIR STATION
SMALL LANDFILL

SOUTH WEYMOUTH, MASSACHUSETTS

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FMS SURVEYED	WJG APPROVED	1" = 20' SCALE	
FMS DRAWN	JULY 19, 2005 DATE		FIG. 3
AMS CHECKED	NAV2002.SW PROJECT NO.		SHEET NO.

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TABLES

Table 1. Description of Landfill Materials	
Debris Type	**Test Pits**
Tree stumps, lumber, creosoted timbers and poles	1, 6, 14, 15, 16, 17, 18, 19, 23, 24
Insulated electrical wire, barbed wire, rebar	1, 6, 14, 15, 19, 23, 25
Concrete with rebar and wire	1, 15, 16, 17, 23, 25
Black plastic trash bags filled with yard waste	1, 6, 9, 14, 17, 24
Black rubber hose, vehicle tires, plastic pipe	1, 14, 18, 21
Clear plastic sheeting, cloth, canvas	6, 15, 18, 20
Plastic bottles, vinyl siding	6, 14, 25
Steel strapping, angle iron	6, 18
Metal pipes, electrical conduit	6, 18
Aluminum beverage cans, aluminum deck chair	1, 14
Nylon banding material, nylon rope, hemp rope	18, 24
Asphalt	14, 23
Clay tile pipe	1
Glass bottles	14
Styrofoam	18
Blue-white crystalline material	18
Empty 5-gallon bucket	25
Top of a compressed gas cylinder	1
No debris was identified in test pits TP-2, 3, 4, 5, 8, 10, 11, 12, 13, or 22	

TABLE 2. Test Pit PID Screening Results				
Test Pit I.D.	**ppm**		**Test Pit I.D.**	**ppm**
TP-1	0.9		TP-14	1.6
TP-2	0.0		TP-15	1.9
TP-3	0.0		TP-16	0.0
TP-4	0.0		TP-17	0.0
TP-5	0.0		TP-18	0.6
TP-6	0.4		TP-19	7.3
TP-7	0.3		TP-20	0.0
TP-8	0.0		TP-21	0.2
TP-9	0.0		TP-22	0.1
TP-10	0.2		TP-23	0.0
TP-11	0.1		TP-24	0.0
TP-12	0.0		TP-25	0.1
TP-13	0.4			

TABLE 3

Test Pit Soil Sample Analytical Results

July 12, 2005

CONSTITUENTS	Units	Sample I.D. and Results		Standards	
		TP-18	TP-19	RCRA	MCP RCS-1
Priority Pollutant Metals					
beryllium	mg/Kg	0.2	0.21		0.7
cadmium	mg/Kg	4.13	0.13		30
chromium	mg/Kg	32.6	3.5		1,000
copper	mg/Kg	666	9.98		1,000
lead	mg/Kg	60.5	27.5		300
mercury	mg/Kg	0.028	0.037		20
nickel	mg/Kg	2.91	2.5		300
zinc	mg/Kg	746	25.4		2,500
TCLP Metals					
barium	mg/L	2.23	1.65	100	
cadmium	mg/L	0.066	0.003	1	
chromium	mg/L	0.16	*	5	
lead	mg/L	0.31	0.09	5	
mercury	mg/L	0.00005	*	0.2	
PAHs					
acenaphthene	mg/Kg	*	0.6		20
anthracene	mg/Kg	*	0.6		1,000
benzo(a)anthracene	mg/Kg	*	**0.98**		0.7
benzo(a)pyrene	mg/Kg	*	**1.03**		0.7
benzo(b)fluoranthene	mg/Kg	*	**1.81**		0.7
benzo(g,h,I)perylene	mg/Kg	*	0.35		1,000
benzo(k)fluoranthene	mg/Kg	*	0.76		7
bis(2-ethylhexyl)phthalate	mg/Kg	1.01	*		NS
chrysene	mg/Kg	*	2.16		7
fluoranthene	mg/Kg	*	3.64		1,000
fluorene	mg/Kg	*	0.48		400
indeno(1,2,3-cd)pyrene	mg/Kg	*	0.47		0.7
2-methylnaphthalene	mg/Kg	1.04	*		4
naphthalene	mg/Kg	0.41	*		4
phenanthrene	mg/Kg	*	1.45		100
pyrene	mg/Kg	*	3.33		700
Total Petroleum Hydrocarbons	mg/Kg	**231**	172		200
Conductivity	umhos/cm	10.8	5.6	NS	
pH	pH Units	7.11	6.8	2 to 12.5	
flash point	deg. F	>212	>212	<140	
Reactive Cyanide	mg/Kg	*	*	250	
Reactive Sulfide	mg/Kg	*	*	500	

PAHs = Polynuclear Aromatic Hydrocarbons NS = No standard

* = Below laboratory reporting limit

RCRA = Resource Conservation and Recovery Act - hazardous waste determination standards

MCP RCS-1 = Massachusetts Contingency Plan (310 CMR 40.0000) Reportable Concentrations for S-1 soil areas

TABLE 4. Landfill Gas Field Monitoring Data July 12, 2005					
Soil Gas Point	% Methane	% Carbon Dioxide	% Hydrogen Sulfide	% Oxygen	PID (ppm)
SG-1	0.00	10.9	0	9.2	0.0
SG-2	0.00	4.3	0	13.2	0.0
SG-3	0.00	0.9	0	20.0	0.0
SG-4	0.00	5.9	0	10.8	0.0
SG-5	0.10	5.2	1	15.0	0.0
SG-6	0.10	2.0	1	18.7	0.0
SG-7	0.00	0.1	0	2.0	0.0
SG-8	0.10	2.4	1	18.0	1.4
SG-9	0.10	0.6	1	20.2	0.0
SG-10	0.10	1.3	1	20.1	5.7
SG-11	0.10	0.1	3	20.9	0.0
SG-12	0.10	0.6	1	20.5	0.0
SG-13	0.10	0.0	1	21.5	79.4
SG-14	0.10	0.1	1	21.3	2.4
SG-15	0.10	0.1	1	21.0	3.0
SG-16	0.10	0.2	1	21.0	0.0
SG-17	0.10	0.3	1	20.9	0.0
SG-18	0.00	0.4	0	20.9	76.8
SG-19	0.00	0.2	0	21.3	0.0
SG-20	0.00	0.7	0	21.0	32.4
SG-21	0.00	0.6	0	21.0	0.0
SG-22	0.00	0.0	0	21.7	0.0

TABLE 5

Landfill Gas Laboratory Results

July 12, 2005

CONSTITUENTS		Sample I.D. and Results			
	Units	SG-5	SG-10	SG-11	SG-12
VOCs by EPA TO-15					
acetone	ppbv	*	12.5	19.4	10.5
benzene	ppbv	*	1.1	1.3	*
2-butanone	ppbv	*	4.8	5.2	*
carbon disulfide	ppbv	*	*	7.8	*
ethanol	ppbv	*	*	4.3	*
4-ethyl toluene	ppbv	*	*	*	2
n-heptane	ppbv	*	0.7	*	*
hexane	ppbv	*	3.5	2.9	1.6
isopropanol	ppbv	*	*	1.8	*
methylene chloride	ppbv	*	*	3	*
propene	ppbv	*	*	11.6	*
styrene	ppbv	*	0.7	*	*
tetrahydrofuran	ppbv	*	1.1	*	*
toluene	ppbv	*	2.9	1.4	1.1
1,2,4-trichlorobenzene	ppbv	*	0.8	*	*
m/p xylenes	ppbv	*	0.9	*	*
Method EPA 3C					
methane	%	*	*	*	*
carbon dioxide	%	2	0.59	*	0.29
Method EPA 16					
sulfur compounds	ppbv	*	*	*	*

VOCs = volatile organic compounds
* = Below laboratory reporting limit
NS = No Standard

TABLE 5

Landfill Gas Labortory Results

July 12, 2005

CONSTITUENTS	Units	Sample I.D. and Results			
		SG-5	SG-10	SG-11	SG-12
VOCs by EPA TO-15					
acetone	ppbv	*	12.5	19.4	10.5
benzene	ppbv	*	1.1	1.3	*
2-butanone	ppbv	*	4.8	5.2	*
carbon disulfide	ppbv	*	*	7.8	*
ethanol	ppbv	*	*	4.3	*
4-ethyl toluene	ppbv	*	*	*	2
n-heptane	ppbv	*	0.7	*	*
hexane	ppbv	*	3.5	2.9	1.6
isopropanol	ppbv	*	*	1.8	*
methylene chloride	ppbv	*	*	3	*
propene	ppbv	*	*	11.6	*
styrene	ppbv	*	0.7	*	*
tetrahydrofuran	ppbv	*	1.1	*	*
toluene	ppbv	*	2.9	1.4	1.1
1,2,4-trichlorobenzene	ppbv	*	0.8	*	*
m/p xylenes	ppbv	*	0.9	*	*
Method EPA 3C					
methane	%	*	*	*	*
carbon dioxide	%	2	0.59	*	0.29
Method EPA 16					
sulfur compounds	ppbv	*	*	*	*

VOCs = volatile organic compounds
* = Below laboratory reporting limit
NS = No Standard

APPENDIX A

TEST PIT LOGS

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/11/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
Inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-1
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Tall Grass.
	0'	1.5'				Dark brown loam and cobbles.
	1.5'	2.0'				Brown fine to coarse sand and gravel.
	2.0'	3.0'				Same soil as above with pieces of tree stump.
	3.0'	3.5'				Same soil with piece of black rubber hose, concrete with wire, clay tile pipe piece.
	3.5'	4.5				Same soil with length of barbed wire, concrete and black plastic.
	4.5	5.5'				Same soil with beer can and ½ inch diameter rebar, top of compressed gas cylinder, concrete pieces.
	5.5'	6.0'				Light brown fine to medium sand, some silt.
						No debris below 6 ft. Bottom of test pit at 8.0 ft. Backfilled test pit, wooden stake placed at northern end.
						Width: 3.0 ft.
						Length: 13.0 ft.
						Direction: 346^0 magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 0.9 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/11/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
Inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-2
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Leaf litter, roots, pine needles.
	0'	2.5'				Brown loam and gravel.
	2.5'	4.0'				Light brown fine to medium sand, some silt.
						No debris. Bottom of test pit at 4 ft. Backfilled test pit, wooden stake placed at southern end.
						Width: 3.0 ft.
						Length: 9.0 ft.
						Direction: 16^0 magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 0.0 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/11/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
Inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-3
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Leaf litter, roots.
	0'	4.5'				Brown loam, medium sand, and gravel.
	4.5'	6.0'				Light brown fine to medium sand, some silt.
						No debris. Bottom of test pit at 6 ft. Backfilled test pit, wooden stake placed at north end.
						Width: 3.0 ft.
						Length: 9.0 ft.
						Direction: 212^0 magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 0.0 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/11/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
Inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-4
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Leaf litter, roots.
	0'	2.5'				Brown loam and gravel.
	2.5'	4.0'				Light brown fine to medium sand, some silt, little fine gravel.
						No debris. Bottom of test pit at 4 ft. Backfilled test pit, wooden stake placed at north end.
						Width: 3.0 ft.
						Length: 8.0 ft.
						Direction: 50^0 magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 0.0 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/11/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
Inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-5
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Pine needles and leaf litter.
	0'	2.5'				Brown loam, fine to coarse sand and gravel, little silt.
	2.5'	4.0'				Light brown fine to medium sand and silt, iron staining.
						No debris. Bottom of test pit at 4 ft. Backfilled test pit, wooden stake placed at south end.
						Width: 3.0 ft.
						Length: 8.0 ft.
						Direction: 336^0 magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 0.0 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/11/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
Inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-6
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Leaf litter and pine needles.
	0'	0.5'				Brown loam and fine to coarse sand and gravel.
	0.5'	1.0'				Same soil and steel strap, trash bag, metal wire, black insulated wire.
	1.0'	2.5'				Metal pipe, plastic trash bag, plastic bottle cap.
	2.5'	4.0'				Light brown fine to medium sand and silt, iron staining. No debris below 2.5 ft.
						Bottom of test pit at 4 ft. Backfilled test pit, wooden stake placed at north end.
						Width: 3.0 ft.
						Length: 8.0 ft.
						Direction: 302^0 magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 0.4 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/11/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
Inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-7
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Leaf litter and tall grass.
	0'	2.0'				Brown fine to coarse sand, white vinyl siding, plastic soda bottle, silt fencing material, broken lumber,
						White trash bag, black trash bags.
	2.0'	4.0'				Light brown fine to medium sand, some silt.
						No debris. Bottom of test pit at 4 ft. Backfilled test pit, wooden stake placed at north end.
						Width: 3.0 ft.
						Length: 8.0 ft.
						Direction: 310^0 magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 0.3 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/11/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
Inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-8
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Pine needles and leaf litter.
	0'	3.5'				Brown loam, fine to coarse sand and gravel.
	3.5'	5.0'				Light brown fine to medium sand, some silt.
						No debris. Bottom of test pit at 5 ft. Backfilled test pit, wooden stake placed at south end.
						Width: 3.0 ft.
						Length: 7.0 ft.
						Direction: 334^0 magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 0.0 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/11/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
Inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-9
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Leaf litter and tall grass.
	0'	2.5'				Brown loam, fine to medium sand, cobbles, fine gravel, and one black trash bag.
	2.5'	5.0'				Light brown fine to medium sand and silt, some fine gravel.
						No debris below 2.5 ft. Extended test pit 55 ft. south – no other debris.
						Bottom of test pit at 5 ft. Backfilled test pit, wooden stake placed at south end.
						Width: 3.0 ft.
						Length: 55.0 ft.
						Direction: 334^0 magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 0.0 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/12/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
Inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-10
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Leaf litter and short grass.
	0'	3.0'				Brown fine to coarse sand and fine gravel, some cobbles, tree roots.
	3.0'	5.0'				Light brown fine to medium sand, some silt.
						No debris. Bottom of test pit at 5 ft. Backfilled test pit, wooden stake placed at south end.
						Width: 3.0 ft.
						Length: 9.0 ft.
						Direction: 20^0 magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 0.2 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/12/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
Inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-11
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Leaf litter and short grass.
	0'	2.0'				Brown fine to coarse sand and fine gravel, some cobbles.
	2.0'	4.0'				Light brown fine to medium sand, some silt, little fine gravel.
						No debris. Bottom of test pit at 4 ft. Backfilled test pit, wooden stake placed at south end.
						Width: 3.0 ft.
						Length: 9.0 ft.
						Direction: 52^0 magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 0.1 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/12/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
Inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-12
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Short grass and leaf litter.
	0'	1.5				Brown fine to coarse sand and gravel.
	1.5'	4.0'				Light brown fine to medium sand, some silt, iron staining.
						No debris. Bottom of test pit at 4 ft. Backfilled test pit, wooden stake placed at south end.
						Width: 3.0 ft.
						Length: 7.0 ft.
						Direction: 29^0 magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 0.0 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/12/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
Inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-13
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Short grass and leaf litter.
	0'	1.5				Brown fine to coarse sand and fine gravel.
	1.5'	4.0'				Light brown fine to medium sand, some silt with iron staining, tree roots.
						No debris. Bottom of test pit at 4 ft. Backfilled test pit, wooden stake placed at west end.
						Width: 3.0 ft.
						Length: 7.0 ft.
						Direction: 287^0 magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 0.4 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/12/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
Inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-14
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Tall grass, leaf litter and shrubs.
	0'	1.5'				Brown fine to coarse sand, little silt, some fine gravel.
	1.5'	2.0'				Light brown fine to medium sand and silt, some fine gravel, one 2 ft. length of insulated wire.
	2.0'	5.0'				Asphalt chunks, black plastic bag with leaf litter, lumber, soda bottle, black plastic drain pipe, aluminum deck chair,
						and tree stumps.
	5.0'	7.0'				Light brown fine to medium sand and silt.
						Bottom of test pit at 7 ft. Backfilled test pit, wooden stake placed at north end
						Width: 3.0 ft.
						Length: 10.0 ft.
						Direction: 56^0 magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 1.6 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/12/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
Inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-15
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Tall grass, shrubs, and concrete pieces.
	0'	1.5'				Brown fine to coarse sand and fine gravel, trace silt, clear plastic sheeting.
	1.5'	2.5'				Large slab of concrete.
	2.5'	5.0'				Piece of cloth, creosoted 5 ft. piece of telephone pole.
	5.0'	7.0'				Light brown fine to medium sand and silt.
						Bottom of test pit at 7 ft. Backfilled test pit, wooden stake placed at north end.
						Width: 5.0 ft.
						Length: 11.0 ft.
						Direction: 60^0 magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 1.9 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/12/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
Inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-16
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Tall grasses, cobbles.
	0'	1.0'				Brown fine to coarse sand and fine gravel.
	1.0'	5.0'				Piece of lumber, length of insulated wire, piece of concrete.
	5.0'	7.0'				Light brown fine to medium sand, some silt, trace fine gravel.
						No debris below 5 ft. Bottom of test pit at 7 ft. Backfilled test pit, wooden stake placed at north end.
						Width: 3.0 ft.
						Length: 12.0 ft.
						Direction: 358^0 magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 0.0 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/12/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
Inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-17
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Short grasses, leaf litter.
	0'	1.0'				Brown fine to coarse sand, some silt, little fine gravel.
	1.0'	2.0'				Black trash bag, piece of concrete.
	2.0'	4.0'				White plastic, pieces of lumber, small pieces of black plastic trash bag in north end of trench. Most of debris
						in south 6 ft. of trench. Bottom of test pit at 5 ft. Backfilled test pit, wooden stake placed at south end.
	4.0	5.0				Lt. Brown, fine to coarse sand, some silt, some fine gravel.
						Width: 3.0 ft.
						Length: 35.0 ft.
						Direction: 26^0 magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 0.0 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/12/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
Inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-18
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Tall grass and shrubs.
	0'	0.5'				Brown fine to coarse sand, some silt, some fine gravel.
	0.5'	3.0'				Same soil with approximately 1 cubic foot of blue-white crystalline material, canvas top to 55-gallon drum, metal
						conduit, nylon rope, length of steel channel, clear plastic, pieces of lumber, nylon banding material with rusty buckle.
	3.0'	5.0'				Blue plastic, Styrofoam pieces, plywood, vehicle tire.
	5.0'	8.0'				Light brown fine to medium sand, some silt, trace fine gravel.
						No debris below 5 ft. Bottom of test pit at 8 ft. Backfilled test pit, wooden stake placed at south end.
						Collected two 8-ounce jars full of blue crystalline material.
						Width: 4.0 ft.
						Length: 12.0 ft.
						Direction: 338^0 magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 0.6 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/12/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
Inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-19
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Tall grass and shrubs, tree roots.
	0'	0.5'				Brown fine to coarse sand and gravel, small pieces of lumber, piece of copper, insulated wire.
	0.5'	4.0'				Black fine to coarse sand and gravel with organic or petroleum odor. Collected two 8-ounce jars of the dark soil.
	4.0'	8.0'				Same soil with large concrete form with electric conduit in center (base of light pole?)
	8.0'	10.0'				Gray silt and clay – cast iron pipe piece.
						Bottom of test pit at 10 ft. Backfilled test pit, wooden stake placed at north end.
						Width: 3.0 ft.
						Length: 10.0 ft.
						Direction: 336^0 magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 7.3 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/12/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-20
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Tall grass and shrubs.
	0'	5.5'				Brown fine to coarse sand and gravel. Piece of red cloth, clear plastic, cobbles, flecks of bright orange paint.
	5.5'	7.0'				Light brown fine to medium sand and silt, trace gravel.
						Bottom of test pit at 7 ft. Backfilled test pit, wooden stake placed at north end.
						Width: 3.0 ft.
						Length: 12.0 ft.
						Direction: 78^0 magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 0.0 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/12/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
Inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-21
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Tall grass.
	0'	2.0'				Brown fine to coarse sand and gravel. One small piece of rubber.
	2.0'	3.0'				Light brown fine to medium sand, some silt.
						Bottom of test pit at 3 ft. Backfilled test pit, wooden stake placed at south end.
						Width: 3.0 ft.
						Length: 8.0 ft.
						Direction: 280^0 magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 0.2 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/12/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
Inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-22
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Tall grass.
	0'	3.0'				Brown fine to coarse sand and silt, some gravel, some boulders.
	3.0"	3.5'				Light brown to reddish-brown fine to medium sand, some silt.
	3.5'	5.0'				Charred roots.
	5.0'	7.0'				Light brown fine to medium sand and silt.
						No debris. Bottom of test pit at 7 ft. Backfilled test pit, wooden stake placed at north end.
						Width: 3.0 ft.
						Length: 13.0 ft.
						Direction: 296° magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 0.1 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/12/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
Inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-23
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Pile of gravel, pieces of asphalt and concrete.
	0'	7.0'				Brown fine to coarse sand and gravel and cobbles. Pieces of lumber, length of cable, piece of wire.
	7.0'	8.5'				Light brown fine to medium sand and silt.
						No debris below 7 ft. Bottom of test pit at 8.5 ft. Backfilled test pit, wooden stake placed at west end.
						Width: 3.0 ft.
						Length: 13.0 ft.
						Direction: 274^0 magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 0.0 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/12/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
Inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-24
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Mowed grass.
	0'	4.0'				Brown fine to coarse sand and fine gravel. Plastic toy, trash bags of leaf litter and lawn waste, hemp rope,
						aluminum soda cans, railroad timber, plastic peat moss bag.
	4.0'	6.5'				Brown fine to coarse gravel. No debris below 4 ft.
	6.5'	8.0'				Light brown fine to medium sand, some silt, trace fine gravel.
						Bottom of test pit at 8 ft. Backfilled test pit, wooden stake placed at south end.
						Width: 3.0 ft.
						Length: 12.0 ft.
						Direction: 42^0 magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 0.0 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

TEST PIT LOG

HRP Associates, Inc.

167 NEW BRITAIN AVENUE

PLAINVILLE, CONNECTICUT 06062

Project/Client: So. Weymouth NAS
Location: So. Weymouth, MA.
Job No. NAV2002.SW
Date: 7/12/05

Excavator Type:
Contractor: GeoSearch
Operator: Jeremiah
Inspector: Tom Chapman
Monitoring Instrument: LanTec LFG
Geologist/Technician:

TEST PIT LOCATION SKETCH MAP

Test Pit Location Description: TP-25
See Map

Sample Number	Depth From Surface		Sample Location Within Test Pit	Sample Type	Moisture	Remarks (color, structure, grain size, staining, odor, PID)
	From	To				
						Surface = Tall grass and shrubs.
	0'	2.0'				Brown fine to coarse sand and gravel. Concrete slab, vinyl siding, rebar, light blue 5-gallon bucket.
	2.0'	4.0'				Brown fine to coarse sand and gravel. No debris below 2 ft.
	4.0'	7.0'				Light brown fine to medium sand and silt, trace fine gravel.
						Bottom of test pit at 7 ft. Backfilled test pit, wooden stake placed at south end.
						Width: 3.0 ft.
						Length: 10.0 ft.
						Direction: 314^0 magnetic
						Methane = 0%; CO2 = 0%; H2S = 0 ppm; PID = 0.1 ppm

SAMPLE TYPE

G = Grab
HA = Hand Auger
Comp = Composite Sample
GW = Ground Water

MOISTURE

D = Dry
VM = Very Moist
SM = Slightly Moist
W = Wet (saturated)

PROPORTIONS USED

0 – 10% Trace
10 – 20% Little
20 – 35% Some
35 – 50% And

APPENDIX B

LABORATORY REPORTS

con-test®
ANALYTICAL LABORATORY

39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 7/20/2005

HRP ASSOCIATES, INC. (PRIVATE)
167 NEW BRITAIN AVENUE
PLAINVILLE, CT 06002
ATTN: TOM CHAPMAN

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: S-CT-00270

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-90205
JOB NUMBER: NAV 2002.SW

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report

PROJECT LOCATION: S WEYMOUTH NAS SM LAND FILL

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
TP-18	05B28161	SOLID	TEST PIT (3-4 FT.)	8082 drywt
TP-18	05B28161	SOLID	TEST PIT (3-4 FT.)	8260 dry weight
TP-18	05B28161	SOLID	TEST PIT (3-4 FT.)	8270 dry weight
TP-18	05B28161	SOLID	TEST PIT (3-4 FT.)	conductivity
TP-18	05B28161	SOLID	TEST PIT (3-4 FT.)	flashpoint
TP-18	05B28161	SOLID	TEST PIT (3-4 FT.)	metals(13pp)sicp
TP-18	05B28161	SOLID	TEST PIT (3-4 FT.)	ph solids
TP-18	05B28161	SOLID	TEST PIT (3-4 FT.)	reactivity
TP-18	05B28161	SOLID	TEST PIT (3-4 FT.)	solids (percent)
TP-18	05B28161	SOLID	TEST PIT (3-4 FT.)	tph (mg/kg dry)
TP-18	05B28163	SOLID	TEST PIT (3-4 FT.)	tclp - metals
TP-19	05B28162	SOLID	TEST PIT (2-4 FT.)	8082 drywt
TP-19	05B28162	SOLID	TEST PIT (2-4 FT.)	8260 dry weight
TP-19	05B28162	SOLID	TEST PIT (2-4 FT.)	8270 dry weight
TP-19	05B28162	SOLID	TEST PIT (2-4 FT.)	conductivity
TP-19	05B28162	SOLID	TEST PIT (2-4 FT.)	flashpoint
TP-19	05B28162	SOLID	TEST PIT (2-4 FT.)	metals(13pp)sicp
TP-19	05B28162	SOLID	TEST PIT (2-4 FT.)	ph solids
TP-19	05B28162	SOLID	TEST PIT (2-4 FT.)	reactivity
TP-19	05B28162	SOLID	TEST PIT (2-4 FT.)	solids (percent)
TP-19	05B28162	SOLID	TEST PIT (2-4 FT.)	tph (mg/kg dry)
TP-19	05B28164	SOLID	TEST PIT (2-4 FT.)	tclp - metals

con-test®
ANALYTICAL LABORATORY

39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 7/20/2005

HRP ASSOCIATES, INC. (PRIVATE)
167 NEW BRITAIN AVENUE
PLAINVILLE, CT 06002
ATTN: TOM CHAPMAN

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: S-CT-00270

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-90205
JOB NUMBER: NAV 2002.SW

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations :

AIHA 100033	AIHA ELLAP (LEAD) 100033	
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	ARIZONA AZ0648
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	ARIZONA AZ0654 (AIR)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod Kopyscinski 7/20/05

SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Sondra S. Kocot
Quality Control Coordinator

Edward Denson
Technical Director

con-test®
ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

TOM CHAPMAN
HRP ASSOCIATES, INC. (PRIVATE)
167 NEW BRITAIN AVENUE
PLAINVILLE, CT 06002

7/20/2005

Purchase Order No.: S-CT-00270

Project Location: S WEYMOUTH NAS SM LAND FILL
Date Received: 7/13/2005
Field Sample # : **TP-18**

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

Sample ID : **05B28161** Sampled : 7/12/2005
TEST PIT (3-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	Hi	P/ F
PCB 1016	mg/kg dry wt	ND	07/19/05	JB	0.178			
PCB-1221	mg/kg dry wt	ND	07/19/05	JB	0.178			
PCB-1232	mg/kg dry wt	ND	07/19/05	JB	0.178			
PCB-1242	mg/kg dry wt	ND	07/19/05	JB	0.178			
PCB-1248	mg/kg dry wt	ND	07/19/05	JB	0.178			
PCB-1254	mg/kg dry wt	ND	07/19/05	JB	0.178			
PCB-1260	mg/kg dry wt	ND	07/19/05	JB	0.178			
PCB 1262	mg/kg dry wt	ND	07/19/05	JB	0.178			
PCB 1268	mg/kg dry wt	ND	07/19/05	JB	0.178			

Field Sample # : **TP-19**

Sample ID : **05B28162** Sampled : 7/12/2005
TEST PIT (2-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	Hi	P/ F
PCB 1016	mg/kg dry wt	ND	07/19/05	JB	0.112			
PCB-1221	mg/kg dry wt	ND	07/19/05	JB	0.112			
PCB-1232	mg/kg dry wt	ND	07/19/05	JB	0.112			
PCB-1242	mg/kg dry wt	ND	07/19/05	JB	0.112			
PCB-1248	mg/kg dry wt	ND	07/19/05	JB	0.112			
PCB-1254	mg/kg dry wt	ND	07/19/05	JB	0.112			
PCB-1260	mg/kg dry wt	ND	07/19/05	JB	0.112			
PCB 1262	mg/kg dry wt	ND	07/19/05	JB	0.112			
PCB 1268	mg/kg dry wt	ND	07/19/05	JB	0.112			

Analytical Method:
SW846 8082
SAMPLES ARE EXTRACTED BY PRESSURIZED FLUID EXTRACTION OR SONICATION, IF ALLOWED, CONCENTRATED, AND ANALYZED BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION.

RL = Reporting Limit
ND = Not Detected
NM = Not Measured
* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

TOM CHAPMAN
HRP ASSOCIATES, INC. (PRIVATE)
167 NEW BRITAIN AVENUE
PLAINVILLE, CT 06002

Purchase Order No.: S-CT-00270

Project Location: S WEYMOUTH NAS SM LAND FILL
Date Received: 7/13/2005
Field Sample # : **TP-18**
Sample ID : **05B28161**

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

Sampled : 7/12/2005
TEST PIT (3-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	mg/kg dry wt	ND	07/18/05	MFF	0.182			
Acrolein	mg/kg dry wt	ND	07/18/05	MFF	0.073			
Acrylonitrile	mg/kg dry wt	ND	07/18/05	MFF	0.019			
tert-Amylmethyl Ether	mg/kg dry wt	ND	07/18/05	MFF	0.002			
Benzene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
Bromobenzene	mg/kg dry wt	ND	07/18/05	MFF	0.004			
Bromochloromethane	mg/kg dry wt	ND	07/18/05	MFF	0.004			
Bromodichloromethane	mg/kg dry wt	ND	07/18/05	MFF	0.004			
Bromoform	mg/kg dry wt	ND	07/18/05	MFF	0.005			
Bromomethane	mg/kg dry wt	ND	07/18/05	MFF	0.005			
2-Butanone (MEK)	mg/kg dry wt	ND	07/18/05	MFF	0.044			
tert-Butyl Alcohol	mg/kg dry wt	ND	07/18/05	MFF	0.073			
n-Butylbenzene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
sec-Butylbenzene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
tert-Butylbenzene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
tert-Butylethyl Ether	mg/kg dry wt	ND	07/18/05	MFF	0.002			
Carbon Disulfide	mg/kg dry wt	ND	07/18/05	MFF	0.011			
Carbon Tetrachloride	mg/kg dry wt	ND	07/18/05	MFF	0.004			
Chlorobenzene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
Chlorodibromomethane	mg/kg dry wt	ND	07/18/05	MFF	0.004			
Chloroethane	mg/kg dry wt	ND	07/18/05	MFF	0.003			
2-Chloroethylvinylether	mg/kg dry wt	ND	07/18/05	MFF	0.035			
Chloroform	mg/kg dry wt	ND	07/18/05	MFF	0.008			
Chloromethane	mg/kg dry wt	ND	07/18/05	MFF	0.055			
2-Chlorotoluene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
4-Chlorotoluene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
1,2-Dibromo-3-Chloropropane	mg/kg dry wt	ND	07/18/05	MFF	0.006			
1,2-Dibromoethane	mg/kg dry wt	ND	07/18/05	MFF	0.003			
Dibromomethane	mg/kg dry wt	ND	07/18/05	MFF	0.004			
1,2-Dichlorobenzene	mg/kg dry wt	ND	07/18/05	MFF	0.003			

RL = Reporting Limit
ND = Not Detected
NM = Not Measured
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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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TOM CHAPMAN
HRP ASSOCIATES, INC. (PRIVATE)
167 NEW BRITAIN AVENUE
PLAINVILLE, CT 06002

7/20/2005

Purchase Order No.: S-CT-00270

Project Location: S WEYMOUTH NAS SM LAND FILL
Date Received: 7/13/2005
Field Sample # : **TP-18**
Sample ID : **05B28161**

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

Sampled : 7/12/2005
TEST PIT (3-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
1,3-Dichlorobenzene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
1,4-Dichlorobenzene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
cis-1,4-Dichloro-2-Butene	mg/kg dry wt	ND	07/18/05	MFF	0.009			
trans-1,4-Dichloro-2-Butene	mg/kg dry wt	ND	07/18/05	MFF	0.008			
Dichlorodifluoromethane	mg/kg dry wt	ND	07/18/05	MFF	0.004			
1,1-Dichloroethane	mg/kg dry wt	ND	07/18/05	MFF	0.003			
1,2-Dichloroethane	mg/kg dry wt	ND	07/18/05	MFF	0.004			
1,1-Dichloroethylene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
cis-1,2-Dichloroethylene	mg/kg dry wt	ND	07/18/05	MFF	0.004			
trans-1,2-Dichloroethylene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
1,2-Dichloropropane	mg/kg dry wt	ND	07/18/05	MFF	0.003			
1,3-Dichloropropane	mg/kg dry wt	ND	07/18/05	MFF	0.004			
2,2-Dichloropropane	mg/kg dry wt	ND	07/18/05	MFF	0.004			
1,1-Dichloropropene	mg/kg dry wt	ND	07/18/05	MFF	0.006			
cis-1,3-Dichloropropene	mg/kg dry wt	ND	07/18/05	MFF	0.004			
trans-1,3-Dichloropropene	mg/kg dry wt	ND	07/18/05	MFF	0.002			
Diethyl Ether	mg/kg dry wt	ND	07/18/05	MFF	0.008			
Diisopropyl Ether	mg/kg dry wt	ND	07/18/05	MFF	0.002			
1,4-Dioxane	mg/kg dry wt	ND	07/18/05	MFF	0.182			
Ethyl Benzene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
Ethyl Methacrylate	mg/kg dry wt	ND	07/18/05	MFF	0.003			
Hexachlorobutadiene	mg/kg dry wt	ND	07/18/05	MFF	0.005			
2-Hexanone	mg/kg dry wt	ND	07/18/05	MFF	0.036			
Iodomethane	mg/kg dry wt	ND	07/18/05	MFF	0.003			
Isopropylbenzene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
p-Isopropyltoluene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
MTBE	mg/kg dry wt	ND	07/18/05	MFF	0.003			
Methylene Chloride	mg/kg dry wt	ND	07/18/05	MFF	0.055			
MIBK	mg/kg dry wt	ND	07/18/05	MFF	0.032			
Naphthalene	mg/kg dry wt	ND	07/18/05	MFF	0.004			

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7/20/2005

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Project Location: S WEYMOUTH NAS SM LAND FILL
Date Received: 7/13/2005
Field Sample # : **TP-18**
Sample ID : **05B28161**

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

Sampled : 7/12/2005
TEST PIT (3-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
n-Propylbenzene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
Styrene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
1,1,1,2-Tetrachloroethane	mg/kg dry wt	ND	07/18/05	MFF	0.004			
1,1,2,2-Tetrachloroethane	mg/kg dry wt	ND	07/18/05	MFF	0.006			
Tetrachloroethylene	mg/kg dry wt	ND	07/18/05	MFF	0.004			
Tetrahydrofuran	mg/kg dry wt	ND	07/18/05	MFF	0.019			
Toluene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
1,2,3-Trichlorobenzene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
1,2,4-Trichlorobenzene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
1,1,1-Trichloroethane	mg/kg dry wt	ND	07/18/05	MFF	0.004			
1,1,2-Trichloroethane	mg/kg dry wt	ND	07/18/05	MFF	0.003			
Trichloroethylene	mg/kg dry wt	ND	07/18/05	MFF	0.004			
Trichlorofluoromethane	mg/kg dry wt	ND	07/18/05	MFF	0.003			
1,2,3-Trichloropropane	mg/kg dry wt	ND	07/18/05	MFF	0.005			
1,2,4-Trimethylbenzene	mg/kg dry wt	ND	07/18/05	MFF	0.004			
1,3,5-Trimethylbenzene	mg/kg dry wt	ND	07/18/05	MFF	0.004			
Vinyl Acetate	mg/kg dry wt	ND	07/18/05	MFF	0.060			
Vinyl Chloride	mg/kg dry wt	ND	07/18/05	MFF	0.004			
m + p Xylene	mg/kg dry wt	ND	07/18/05	MFF	0.005			
o-Xylene	mg/kg dry wt	ND	07/18/05	MFF	0.004			

Analytical Method:
SW846 8260
SAMPLES ARE CONCENTRATED BY PURGE & TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

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7/20/2005

Purchase Order No.: S-CT-00270

Project Location: S WEYMOUTH NAS SM LAND FILL
Date Received: 7/13/2005
Field Sample # : **TP-19**
Sample ID : **05B28162**

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

Sampled : 7/12/2005
TEST PIT (2-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	mg/kg dry wt	ND	07/18/05	MFF	0.110			
Acrolein	mg/kg dry wt	ND	07/18/05	MFF	0.044			
Acrylonitrile	mg/kg dry wt	ND	07/18/05	MFF	0.011			
tert-Amylmethyl Ether	mg/kg dry wt	ND	07/18/05	MFF	0.002			
Benzene	mg/kg dry wt	ND	07/18/05	MFF	0.002			
Bromobenzene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
Bromochloromethane	mg/kg dry wt	ND	07/18/05	MFF	0.003			
Bromodichloromethane	mg/kg dry wt	ND	07/18/05	MFF	0.003			
Bromoform	mg/kg dry wt	ND	07/18/05	MFF	0.003			
Bromomethane	mg/kg dry wt	ND	07/18/05	MFF	0.003			
2-Butanone (MEK)	mg/kg dry wt	ND	07/18/05	MFF	0.027			
tert-Butyl Alcohol	mg/kg dry wt	ND	07/18/05	MFF	0.044			
n-Butylbenzene	mg/kg dry wt	ND	07/18/05	MFF	0.002			
sec-Butylbenzene	mg/kg dry wt	ND	07/18/05	MFF	0.002			
tert-Butylbenzene	mg/kg dry wt	ND	07/18/05	MFF	0.002			
tert-Butylethyl Ether	mg/kg dry wt	ND	07/18/05	MFF	0.002			
Carbon Disulfide	mg/kg dry wt	ND	07/18/05	MFF	0.007			
Carbon Tetrachloride	mg/kg dry wt	ND	07/18/05	MFF	0.003			
Chlorobenzene	mg/kg dry wt	ND	07/18/05	MFF	0.002			
Chlorodibromomethane	mg/kg dry wt	ND	07/18/05	MFF	0.003			
Chloroethane	mg/kg dry wt	ND	07/18/05	MFF	0.002			
2-Chloroethylvinylether	mg/kg dry wt	ND	07/18/05	MFF	0.021			
Chloroform	mg/kg dry wt	ND	07/18/05	MFF	0.005			
Chloromethane	mg/kg dry wt	ND	07/18/05	MFF	0.033			
2-Chlorotoluene	mg/kg dry wt	ND	07/18/05	MFF	0.002			
4-Chlorotoluene	mg/kg dry wt	ND	07/18/05	MFF	0.002			
1,2-Dibromo-3-Chloropropane	mg/kg dry wt	ND	07/18/05	MFF	0.004			
1,2-Dibromoethane	mg/kg dry wt	ND	07/18/05	MFF	0.002			
Dibromomethane	mg/kg dry wt	ND	07/18/05	MFF	0.003			
1,2-Dichlorobenzene	mg/kg dry wt	ND	07/18/05	MFF	0.002			

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Sampled : 7/12/2005
TEST PIT (2-4 FT.)
Sample Matrix: SOLID

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	Hi	P/ F
1,3-Dichlorobenzene	mg/kg dry wt	ND	07/18/05	MFF	0.002			
1,4-Dichlorobenzene	mg/kg dry wt	ND	07/18/05	MFF	0.002			
cis-1,4-Dichloro-2-Butene	mg/kg dry wt	ND	07/18/05	MFF	0.006			
trans-1,4-Dichloro-2-Butene	mg/kg dry wt	ND	07/18/05	MFF	0.005			
Dichlorodifluoromethane	mg/kg dry wt	ND	07/18/05	MFF	0.003			
1,1-Dichloroethane	mg/kg dry wt	ND	07/18/05	MFF	0.002			
1,2-Dichloroethane	mg/kg dry wt	ND	07/18/05	MFF	0.002			
1,1-Dichloroethylene	mg/kg dry wt	ND	07/18/05	MFF	0.002			
cis-1,2-Dichloroethylene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
trans-1,2-Dichloroethylene	mg/kg dry wt	ND	07/18/05	MFF	0.002			
1,2-Dichloropropane	mg/kg dry wt	ND	07/18/05	MFF	0.002			
1,3-Dichloropropane	mg/kg dry wt	ND	07/18/05	MFF	0.003			
2,2-Dichloropropane	mg/kg dry wt	ND	07/18/05	MFF	0.002			
1,1-Dichloropropene	mg/kg dry wt	ND	07/18/05	MFF	0.004			
cis-1,3-Dichloropropene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
trans-1,3-Dichloropropene	mg/kg dry wt	ND	07/18/05	MFF	0.002			
Diethyl Ether	mg/kg dry wt	ND	07/18/05	MFF	0.005			
Diisopropyl Ether	mg/kg dry wt	ND	07/18/05	MFF	0.002			
1,4-Dioxane	mg/kg dry wt	ND	07/18/05	MFF	0.110			
Ethyl Benzene	mg/kg dry wt	ND	07/18/05	MFF	0.002			
Ethyl Methacrylate	mg/kg dry wt	ND	07/18/05	MFF	0.002			
Hexachlorobutadiene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
2-Hexanone	mg/kg dry wt	ND	07/18/05	MFF	0.022			
Iodomethane	mg/kg dry wt	ND	07/18/05	MFF	0.002			
Isopropylbenzene	mg/kg dry wt	ND	07/18/05	MFF	0.002			
p-Isopropyltoluene	mg/kg dry wt	ND	07/18/05	MFF	0.002			
MTBE	mg/kg dry wt	ND	07/18/05	MFF	0.002			
Methylene Chloride	mg/kg dry wt	ND	07/18/05	MFF	0.033			
MIBK	mg/kg dry wt	ND	07/18/05	MFF	0.020			
Naphthalene	mg/kg dry wt	ND	07/18/05	MFF	0.003			

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Sample ID : **05B28162**

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Sampled : 7/12/2005
TEST PIT (2-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
n-Propylbenzene	mg/kg dry wt	ND	07/18/05	MFF	0.002			
Styrene	mg/kg dry wt	ND	07/18/05	MFF	0.002			
1,1,1,2-Tetrachloroethane	mg/kg dry wt	ND	07/18/05	MFF	0.003			
1,1,2,2-Tetrachloroethane	mg/kg dry wt	ND	07/18/05	MFF	0.004			
Tetrachloroethylene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
Tetrahydrofuran	mg/kg dry wt	ND	07/18/05	MFF	0.011			
Toluene	mg/kg dry wt	ND	07/18/05	MFF	0.002			
1,2,3-Trichlorobenzene	mg/kg dry wt	ND	07/18/05	MFF	0.002			
1,2,4-Trichlorobenzene	mg/kg dry wt	ND	07/18/05	MFF	0.002			
1,1,1-Trichloroethane	mg/kg dry wt	ND	07/18/05	MFF	0.002			
1,1,2-Trichloroethane	mg/kg dry wt	ND	07/18/05	MFF	0.002			
Trichloroethylene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
Trichlorofluoromethane	mg/kg dry wt	ND	07/18/05	MFF	0.002			
1,2,3-Trichloropropane	mg/kg dry wt	ND	07/18/05	MFF	0.003			
1,2,4-Trimethylbenzene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
1,3,5-Trimethylbenzene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
Vinyl Acetate	mg/kg dry wt	ND	07/18/05	MFF	0.036			
Vinyl Chloride	mg/kg dry wt	ND	07/18/05	MFF	0.003			
m + p Xylene	mg/kg dry wt	ND	07/18/05	MFF	0.003			
o-Xylene	mg/kg dry wt	ND	07/18/05	MFF	0.003			

Analytical Method:
SW846 8260
SAMPLES ARE CONCENTRATED BY PURGE & TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

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Project Location: S WEYMOUTH NAS SM LAND FILL
Date Received: 7/13/2005
Field Sample # : TP-18
Sample ID : 05B28161

Sampled : 7/12/2005
TEST PIT (3-4 FT.)

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acenaphthene	mg/kg dry wt	ND	07/19/05	BGL	0.30			
Acenaphthylene	mg/kg dry wt	ND	07/19/05	BGL	0.30			
Acetophenone	mg/kg dry wt	ND	07/19/05	BGL	0.60			
Aniline	mg/kg dry wt	ND	07/19/05	BGL	0.60			
Anthracene	mg/kg dry wt	ND	07/19/05	BGL	0.30			
Benzidine	mg/kg dry wt	ND	07/19/05	BGL	4.15			
Benzoic Acid	mg/kg dry wt	ND	07/19/05	BGL	1.78			
Benzo(a)anthracene	mg/kg dry wt	ND	07/19/05	BGL	0.30			
Benzo(a)pyrene	mg/kg dry wt	ND	07/19/05	BGL	0.30			
Benzo(b)fluoranthene	mg/kg dry wt	ND	07/19/05	BGL	0.30			
Benzo(g,h,i)perylene	mg/kg dry wt	ND	07/19/05	BGL	0.30			
Benzo(k)fluoranthene	mg/kg dry wt	ND	07/19/05	BGL	0.30			
Benzyl Alcohol	mg/kg dry wt	ND	07/19/05	BGL	1.19			
1,1-Biphenyl	mg/kg dry wt	ND	07/19/05	BGL	0.60			
Bis(2-chloroethoxy)methane	mg/kg dry wt	ND	07/19/05	BGL	0.60			
Bis(2-chloroethyl)ether	mg/kg dry wt	ND	07/19/05	BGL	0.60			
Bis(2-chloroisopropyl)ether	mg/kg dry wt	ND	07/19/05	BGL	0.60			
Bis(2-ethylhexyl)phthalate	mg/kg dry wt	1.01	07/19/05	BGL	0.59			
4-Bromophenyl phenyl ether	mg/kg dry wt	ND	07/19/05	BGL	0.60			
Butylbenzylphthalate	mg/kg dry wt	ND	07/19/05	BGL	1.19			
4-Chloroaniline	mg/kg dry wt	ND	07/19/05	BGL	1.19			
4-Chloro-3-methylphenol	mg/kg dry wt	ND	07/19/05	BGL	1.19			
2-Chloronaphthalene	mg/kg dry wt	ND	07/19/05	BGL	0.60			
2-Chlorophenol	mg/kg dry wt	ND	07/19/05	BGL	0.60			
4-Chlorophenylphenyl ether	mg/kg dry wt	ND	07/19/05	BGL	0.60			
Chrysene	mg/kg dry wt	ND	07/19/05	BGL	0.30			
Dibenzofuran	mg/kg dry wt	ND	07/19/05	BGL	0.60			
Dibenz(a,h)anthracene	mg/kg dry wt	ND	07/19/05	BGL	0.30			
1,2-Dichlorobenzene	mg/kg dry wt	ND	07/19/05	BGL	0.60			
1,3-Dichlorobenzene	mg/kg dry wt	ND	07/19/05	BGL	0.60			

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Project Location: S WEYMOUTH NAS SM LAND FILL
Date Received: 7/13/2005
Field Sample # : TP-18
Sample ID : 05B28161

Sampled : 7/12/2005
TEST PIT (3-4 FT.)

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
1,4-Dichlorobenzene	mg/kg dry wt	ND	07/19/05	BGL	0.60			
3,3'-Dichlorobenzidine	mg/kg dry wt	ND	07/19/05	BGL	0.30			
2,4-Dichlorophenol	mg/kg dry wt	ND	07/19/05	BGL	0.60			
Diethylphthalate	mg/kg dry wt	ND	07/19/05	BGL	0.60			
2,4-Dimethylphenol	mg/kg dry wt	ND	07/19/05	BGL	0.60			
Dimethylphthalate	mg/kg dry wt	ND	07/19/05	BGL	1.19			
Di-n-butylphthalate	mg/kg dry wt	ND	07/19/05	BGL	0.60			
Di-n-octylphthalate	mg/kg dry wt	ND	07/19/05	BGL	1.19			
1,2-Dinitrobenzene	mg/kg dry wt	ND	07/19/05	BGL	0.60			
1,3-Dinitrobenzene	mg/kg dry wt	ND	07/19/05	BGL	0.60			
1,4-Dinitrobenzene	mg/kg dry wt	ND	07/19/05	BGL	0.60			
4,6-Dinitro-2-methylphenol	mg/kg dry wt	ND	07/19/05	BGL	0.60			
2,4-Dinitrophenol	mg/kg dry wt	ND	07/19/05	BGL	1.19			
2,4-Dinitrotoluene	mg/kg dry wt	ND	07/19/05	BGL	0.60			
2,6-Dinitrotoluene	mg/kg dry wt	ND	07/19/05	BGL	0.60			
1,2-Diphenylhydrazine (as Azobenzene)	mg/kg dry wt	ND	07/19/05	BGL	0.60			
Fluoranthene	mg/kg dry wt	ND	07/19/05	BGL	0.30			
Fluorene	mg/kg dry wt	ND	07/19/05	BGL	0.30			
Hexachlorobenzene	mg/kg dry wt	ND	07/19/05	BGL	0.60			
Hexachlorobutadiene	mg/kg dry wt	ND	07/19/05	BGL	0.60			
Hexachlorocyclopentadiene	mg/kg dry wt	ND	07/19/05	BGL	1.19			
Hexachloroethane	mg/kg dry wt	ND	07/19/05	BGL	0.60			
Indeno(1,2,3-cd)pyrene	mg/kg dry wt	ND	07/19/05	BGL	0.30			
Isophorone	mg/kg dry wt	ND	07/19/05	BGL	0.60			
o-cresol	mg/kg dry wt	ND	07/19/05	BGL	0.60			
m & p-cresol(s)	mg/kg dry wt	ND	07/19/05	BGL	0.60			
2-Methylnaphthalene	mg/kg dry wt	1.04	07/19/05	BGL	0.30			
Naphthalene	mg/kg dry wt	0.41	07/19/05	BGL	0.30			
2-Nitroaniline	mg/kg dry wt	ND	07/19/05	BGL	0.60			

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TOM CHAPMAN
HRP ASSOCIATES, INC. (PRIVATE)
167 NEW BRITAIN AVENUE
PLAINVILLE, CT 06002

Purchase Order No.: S-CT-00270

Project Location: S WEYMOUTH NAS SM LAND FILL
Date Received: 7/13/2005
Field Sample # : TP-18

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

Sample ID : 05B28161

Sampled : 7/12/2005
TEST PIT (3-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	Hi	P/ F
3-Nitroaniline	mg/kg dry wt	ND	07/19/05	BGL	0.60			
4-Nitroaniline	mg/kg dry wt	ND	07/19/05	BGL	0.60			
Nitrobenzene	mg/kg dry wt	ND	07/19/05	BGL	0.60			
2-Nitrophenol	mg/kg dry wt	ND	07/19/05	BGL	0.60			
4-Nitrophenol	mg/kg dry wt	ND	07/19/05	BGL	1.19			
N-Nitrosodimethylamine	mg/kg dry wt	ND	07/19/05	BGL	0.60			
N-Nitrosodiphenylamine	mg/kg dry wt	ND	07/19/05	BGL	0.60			
N-Nitroso-di-n-propylamine	mg/kg dry wt	ND	07/19/05	BGL	0.60			
Pentachlorophenol	mg/kg dry wt	ND	07/19/05	BGL	0.60			
Phenanthrene	mg/kg dry wt	ND	07/19/05	BGL	0.30			
Phenol	mg/kg dry wt	ND	07/19/05	BGL	0.60			
Pyrene	mg/kg dry wt	ND	07/19/05	BGL	0.30			
Pyridine	mg/kg dry wt	ND	07/19/05	BGL	0.60			
1,2,4-Trichlorobenzene	mg/kg dry wt	ND	07/19/05	BGL	0.60			
2,4,5-Trichlorophenol	mg/kg dry wt	ND	07/19/05	BGL	0.60			
2,4,6-Trichlorophenol	mg/kg dry wt	ND	07/19/05	BGL	0.60			

Analytical Method:
SW846 8270
SAMPLES ARE EXTRACTED IN METHYLENE CHLORIDE/ACETONE AND FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

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7/20/2005

Purchase Order No.: S-CT-00270

Project Location: S WEYMOUTH NAS SM LAND FILL
Date Received: 7/13/2005
Field Sample # : TP-19

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

Sample ID : 05B28162

Sampled : 7/12/2005
TEST PIT (2-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acenaphthene	mg/kg dry wt	0.60	07/19/05	BGL	0.19			
Acenaphthylene	mg/kg dry wt	ND	07/19/05	BGL	0.19			
Acetophenone	mg/kg dry wt	ND	07/19/05	BGL	0.38			
Aniline	mg/kg dry wt	ND	07/19/05	BGL	0.38			
Anthracene	mg/kg dry wt	0.60	07/19/05	BGL	0.19			
Benzidine	mg/kg dry wt	ND	07/19/05	BGL	2.60			
Benzoic Acid	mg/kg dry wt	ND	07/19/05	BGL	1.12			
Benzo(a)anthracene	mg/kg dry wt	0.98	07/19/05	BGL	0.19			
Benzo(a)pyrene	mg/kg dry wt	1.03	07/19/05	BGL	0.19			
Benzo(b)fluoranthene	mg/kg dry wt	1.81	07/19/05	BGL	0.19			
Benzo(g,h,i)perylene	mg/kg dry wt	0.35	07/19/05	BGL	0.19			
Benzo(k)fluoranthene	mg/kg dry wt	0.76	07/19/05	BGL	0.19			
Benzyl Alcohol	mg/kg dry wt	ND	07/19/05	BGL	0.75			
1,1-Biphenyl	mg/kg dry wt	ND	07/19/05	BGL	0.38			
Bis(2-chloroethoxy)methane	mg/kg dry wt	ND	07/19/05	BGL	0.38			
Bis(2-chloroethyl)ether	mg/kg dry wt	ND	07/19/05	BGL	0.38			
Bis(2-chloroisopropyl)ether	mg/kg dry wt	ND	07/19/05	BGL	0.38			
Bis(2-ethylhexyl)phthalate	mg/kg dry wt	ND	07/19/05	BGL	0.38			
4-Bromophenyl phenyl ether	mg/kg dry wt	ND	07/19/05	BGL	0.38			
Butylbenzylphthalate	mg/kg dry wt	ND	07/19/05	BGL	0.75			
4-Chloroaniline	mg/kg dry wt	ND	07/19/05	BGL	0.75			
4-Chloro-3-methylphenol	mg/kg dry wt	ND	07/19/05	BGL	0.75			
2-Chloronaphthalene	mg/kg dry wt	ND	07/19/05	BGL	0.38			
2-Chlorophenol	mg/kg dry wt	ND	07/19/05	BGL	0.38			
4-Chlorophenylphenyl ether	mg/kg dry wt	ND	07/19/05	BGL	0.38			
Chrysene	mg/kg dry wt	2.16	07/19/05	BGL	0.19			
Dibenzofuran	mg/kg dry wt	ND	07/19/05	BGL	0.38			
Dibenz(a,h)anthracene	mg/kg dry wt	ND	07/19/05	BGL	0.19			
1,2-Dichlorobenzene	mg/kg dry wt	ND	07/19/05	BGL	0.38			
1,3-Dichlorobenzene	mg/kg dry wt	ND	07/19/05	BGL	0.38			

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Purchase Order No.: S-CT-00270

Project Location: S WEYMOUTH NAS SM LAND FILL
Date Received: 7/13/2005
Field Sample # : **TP-19**
Sample ID : **05B28162**

Sampled : 7/12/2005
TEST PIT (2-4 FT.)

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
1,4-Dichlorobenzene	mg/kg dry wt	ND	07/19/05	BGL	0.38			
3,3'-Dichlorobenzidine	mg/kg dry wt	ND	07/19/05	BGL	0.19			
2,4-Dichlorophenol	mg/kg dry wt	ND	07/19/05	BGL	0.38			
Diethylphthalate	mg/kg dry wt	ND	07/19/05	BGL	0.38			
2,4-Dimethylphenol	mg/kg dry wt	ND	07/19/05	BGL	0.38			
Dimethylphthalate	mg/kg dry wt	ND	07/19/05	BGL	0.75			
Di-n-butylphthalate	mg/kg dry wt	ND	07/19/05	BGL	0.38			
Di-n-octylphthalate	mg/kg dry wt	ND	07/19/05	BGL	0.75			
1,2-Dinitrobenzene	mg/kg dry wt	ND	07/19/05	BGL	0.38			
1,3-Dinitrobenzene	mg/kg dry wt	ND	07/19/05	BGL	0.38			
1,4-Dinitrobenzene	mg/kg dry wt	ND	07/19/05	BGL	0.38			
4,6-Dinitro-2-methylphenol	mg/kg dry wt	ND	07/19/05	BGL	0.38			
2,4-Dinitrophenol	mg/kg dry wt	ND	07/19/05	BGL	0.75			
2,4-Dinitrotoluene	mg/kg dry wt	ND	07/19/05	BGL	0.38			
2,6-Dinitrotoluene	mg/kg dry wt	ND	07/19/05	BGL	0.38			
1,2-Diphenylhydrazine (as Azobenzene)	mg/kg dry wt	ND	07/19/05	BGL	0.38			
Fluoranthene	mg/kg dry wt	3.64	07/19/05	BGL	0.19			
Fluorene	mg/kg dry wt	0.48	07/19/05	BGL	0.19			
Hexachlorobenzene	mg/kg dry wt	ND	07/19/05	BGL	0.38			
Hexachlorobutadiene	mg/kg dry wt	ND	07/19/05	BGL	0.38			
Hexachlorocyclopentadiene	mg/kg dry wt	ND	07/19/05	BGL	0.75			
Hexachloroethane	mg/kg dry wt	ND	07/19/05	BGL	0.38			
Indeno(1,2,3-cd)pyrene	mg/kg dry wt	0.47	07/19/05	BGL	0.19			
Isophorone	mg/kg dry wt	ND	07/19/05	BGL	0.38			
o-cresol	mg/kg dry wt	ND	07/19/05	BGL	0.38			
m & p-cresol(s)	mg/kg dry wt	ND	07/19/05	BGL	0.38			
2-Methylnaphthalene	mg/kg dry wt	ND	07/19/05	BGL	0.19			
Naphthalene	mg/kg dry wt	ND	07/19/05	BGL	0.19			
2-Nitroaniline	mg/kg dry wt	ND	07/19/05	BGL	0.38			

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7/20/2005

Purchase Order No.: S-CT-00270

Project Location: S WEYMOUTH NAS SM LAND FILL
Date Received: 7/13/2005
Field Sample # : TP-19
Sample ID : 05B28162

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

Sampled : 7/12/2005
TEST PIT (2-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
3-Nitroaniline	mg/kg dry wt	ND	07/19/05	BGL	0.38			
4-Nitroaniline	mg/kg dry wt	ND	07/19/05	BGL	0.38			
Nitrobenzene	mg/kg dry wt	ND	07/19/05	BGL	0.38			
2-Nitrophenol	mg/kg dry wt	ND	07/19/05	BGL	0.38			
4-Nitrophenol	mg/kg dry wt	ND	07/19/05	BGL	0.75			
N-Nitrosodimethylamine	mg/kg dry wt	ND	07/19/05	BGL	0.38			
N-Nitrosodiphenylamine	mg/kg dry wt	ND	07/19/05	BGL	0.38			
N-Nitroso-di-n-propylamine	mg/kg dry wt	ND	07/19/05	BGL	0.38			
Pentachlorophenol	mg/kg dry wt	ND	07/19/05	BGL	0.38			
Phenanthrene	mg/kg dry wt	1.45	07/19/05	BGL	0.19			
Phenol	mg/kg dry wt	ND	07/19/05	BGL	0.38			
Pyrene	mg/kg dry wt	3.33	07/19/05	BGL	0.19			
Pyridine	mg/kg dry wt	ND	07/19/05	BGL	0.38			
1,2,4-Trichlorobenzene	mg/kg dry wt	ND	07/19/05	BGL	0.38			
2,4,5-Trichlorophenol	mg/kg dry wt	ND	07/19/05	BGL	0.38			
2,4,6-Trichlorophenol	mg/kg dry wt	ND	07/19/05	BGL	0.38			

Analytical Method:
SW846 8270
SAMPLES ARE EXTRACTED IN METHYLENE CHLORIDE/ACETONE AND FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

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Project Location: S WEYMOUTH NAS SM LAND FILL
Date Received: 7/13/2005

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

Field Sample # : TP-18

Sample ID : *05B28161

Sampled : 7/12/2005
TEST PIT (3-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Conductivity	umhos/cm	10.8	07/18/05	MAB				

Field Sample # : TP-19

Sample ID : *05B28162

Sampled : 7/12/2005
TEST PIT (2-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Conductivity	umhos/cm	5.6	07/18/05	MAB				

Analytical Method:
SM 2510B
MEASUREMENT WITH WHEATSTONE BRIDGE TYPE CONDUCTIVITY METER

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7/20/2005

Purchase Order No.: S-CT-00270

Project Location: S WEYMOUTH NAS SM LAND FILL
Date Received: 7/13/2005

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

Field Sample # : TP-18

Sample ID : 05B28161 Sampled : 7/12/2005
TEST PIT (3-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	Hi	P/ F
Flashpoint	deg. F	>212	07/19/05	VAK		140		P

Field Sample # : TP-19

Sample ID : 05B28162 Sampled : 7/12/2005
TEST PIT (2-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	Hi	P/ F
Flashpoint	deg. F	>212	07/19/05	VAK		140		P

Analytical Method:
SW846 1010
PENSKY-MARTENS CLOSED CUP PROCEDURE

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Purchase Order No.: S-CT-00270

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Date Received: 7/13/2005
Field Sample # : **TP-18**
Sample ID : **05B28161**

Sampled : 7/12/2005
TEST PIT (3-4 FT.)

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Antimony	mg/kg dry wt	ND	07/16/05	TEV	4.44			
Arsenic	mg/kg dry wt	ND	07/16/05	TEV	8.88			
Beryllium	mg/kg dry wt	0.20	07/16/05	TEV	0.18			
Cadmium	mg/kg dry wt	4.13	07/16/05	TEV	0.09			
Chromium	mg/kg dry wt	32.6	07/16/05	TEV	0.62			
Copper	mg/kg dry wt	666.	07/16/05	TEV	0.89			
Lead	mg/kg dry wt	60.5	07/16/05	TEV	4.44			
Mercury	mg/kg dry wt	0.028	07/15/05	JTB	0.013			
Nickel	mg/kg dry wt	2.91	07/16/05	TEV	0.44			
Selenium	mg/kg dry wt	ND	07/16/05	TEV	8.88			
Silver	mg/kg dry wt	ND	07/16/05	TEV	0.89			
Thallium	mg/kg dry wt	ND	07/16/05	TEV	4.44			
Zinc	mg/kg dry wt	746.	07/16/05	TEV	0.89			

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7/20/2005

Purchase Order No.: S-CT-00270

Project Location: S WEYMOUTH NAS SM LAND FILL
Date Received: 7/13/2005
Field Sample # : **TP-19**
Sample ID : **05B28162**

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

Sampled : 7/12/2005
TEST PIT (2-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Antimony	mg/kg dry wt	ND	07/16/05	TEV	2.79			
Arsenic	mg/kg dry wt	ND	07/16/05	TEV	5.57			
Beryllium	mg/kg dry wt	0.21	07/16/05	TEV	0.11			
Cadmium	mg/kg dry wt	0.13	07/16/05	TEV	0.06			
Chromium	mg/kg dry wt	3.50	07/16/05	TEV	0.39			
Copper	mg/kg dry wt	9.98	07/16/05	TEV	0.56			
Lead	mg/kg dry wt	27.5	07/16/05	TEV	2.78			
Mercury	mg/kg dry wt	0.037	07/15/05	JTB	0.006			
Nickel	mg/kg dry wt	2.50	07/16/05	TEV	0.28			
Selenium	mg/kg dry wt	ND	07/16/05	TEV	5.57			
Silver	mg/kg dry wt	ND	07/16/05	TEV	0.56			
Thallium	mg/kg dry wt	ND	07/16/05	TEV	2.79			
Zinc	mg/kg dry wt	25.4	07/16/05	TEV	0.56			

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Purchase Order No.: S-CT-00270

Project Location: S WEYMOUTH NAS SM LAND FILL
Date Received: 7/13/2005

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

Analytical Method: Antimony
SW846 3050/6010
SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Arsenic
SW846 3050/6010
SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Beryllium
SW846 3050/6010
SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Cadmium
SW846 3050/6010
SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Chromium
SW846 3050/6010
SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Copper
SW846 3050/6010
SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Lead
SW846 3050/6010
SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Mercury
SW846 3050/7471
SAMPLES ARE DIGESTED WITH ACIDS AND THEN ANALYZED BY COLD VAPOR (FLAMELESS) ATOMIC ABSORPTION SPECTROPHOTOMETRY

Analytical Method: Nickel
SW846 3050/6010
SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Selenium
SW846 3050/6010
SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

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TOM CHAPMAN
HRP ASSOCIATES, INC. (PRIVATE)
167 NEW BRITAIN AVENUE
PLAINVILLE, CT 06002

Purchase Order No.: S-CT-00270

7/20/2005

Project Location: S WEYMOUTH NAS SM LAND FILL
Date Received: 7/13/2005

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

Analytical Method: Silver
SW846 3050/6010
SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Thallium
SW846 3050/6010
SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Zinc
SW846 3050/6010
SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

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7/20/2005

Purchase Order No.: S-CT-00270

Project Location: S WEYMOUTH NAS SM LAND FILL
Date Received: 7/13/2005

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

Field Sample # : TP-18

Sample ID : 05B28161 Sampled : 7/12/2005
TEST PIT (3-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
pH	units	7.11	07/19/05	SBP				

Field Sample # : TP-19

Sample ID : 05B28162 Sampled : 7/12/2005
TEST PIT (2-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
pH	units	6.80	07/19/05	SBP				

Analytical Method:
SW846 9045
ELECTRODE DETERMINATION.

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Purchase Order No.: S-CT-00270

Project Location: S WEYMOUTH NAS SM LAND FILL
Date Received: 7/13/2005

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

Field Sample # : TP-18

Sample ID : 05B28161 Sampled : 7/12/2005
TEST PIT (3-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Cyanide, reactive	mg/kg	ND	07/18/05	MAB	4.6		250	P
Reactive Sulfide	mg/kg	ND	07/18/05	MAB	21.		500	P

Field Sample # : TP-19

Sample ID : 05B28162 Sampled : 7/12/2005
TEST PIT (2-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Cyanide, reactive	mg/kg	ND	07/18/05	MAB	4.5		250	P
Reactive Sulfide	mg/kg	ND	07/18/05	MAB	20.		500	P

Analytical Method:
SW846 CH.7.3.3.2/7.3.4.2
REACTIVE CYANIDE SW846 CHPT. 7.3.3.2

QUANTITATIVE ANALYSIS OF HYDROGEN CYANIDE GAS GENERATED WHEN THE SAMPLE IS TREATED WITH ACID.

REACTIVE SULFIDE SW846 CHPT. 7.3.4.2

QUANTITATIVE ANALYSIS OF HYDROGEN SULFIDE GAS GENERATED WHEN THE SAMPLE IS TREATED WITH ACID.

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Purchase Order No.: S-CT-00270

Project Location: S WEYMOUTH NAS SM LAND FILL
Date Received: 7/13/2005

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

Field Sample # : TP-18

Sample ID : 05B28161 Sampled : 7/12/2005
TEST PIT (3-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Solids, total	%	56.3	07/16/05	AMP				

Field Sample # : TP-19

Sample ID : 05B28162 Sampled : 7/12/2005
TEST PIT (2-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Solids, total	%	89.9	07/16/05	AMP				

Analytical Method:
SM 2540G
PERCENT OF SAMPLE REMAINING AFTER DRYING OVERNIGHT AT 103-105 DEGREES CENTIGRADE.

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Project Location: S WEYMOUTH NAS SM LAND FILL
Date Received: 7/13/2005

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

Field Sample # : TP-18

Sample ID : 05B28163 Sampled : 7/12/2005
TEST PIT (3-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Arsenic	mg/l leachate	ND	07/19/05	TEV	0.05		5	P
Barium	mg/l leachate	2.23	07/19/05	TEV	0.02		100	P
Cadmium	mg/l leachate	0.066	07/19/05	TEV	0.002		1	P
Chromium	mg/l leachate	0.16	07/19/05	TEV	0.02		5	P
Lead	mg/l leachate	0.31	07/19/05	TEV	0.01		5	P
Mercury	mg/l leachate	0.00005	07/18/05	JTB	0.00004		0.2	P
Selenium	mg/l leachate	ND	07/19/05	TEV	0.05		1	P
Silver	mg/l leachate	ND	07/19/05	TEV	0.03		5	P

Field Sample # : TP-19

Sample ID : 05B28164 Sampled : 7/12/2005
TEST PIT (2-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Arsenic	mg/l leachate	ND	07/19/05	TEV	0.05		5	P
Barium	mg/l leachate	1.65	07/19/05	TEV	0.02		100	P
Cadmium	mg/l leachate	0.003	07/19/05	TEV	0.002		1	P
Chromium	mg/l leachate	ND	07/19/05	TEV	0.03		5	P
Lead	mg/l leachate	0.09	07/19/05	TEV	0.01		5	P
Mercury	mg/l leachate	ND	07/18/05	JTB	0.00004		0.2	P
Selenium	mg/l leachate	ND	07/19/05	TEV	0.05		1	P
Silver	mg/l leachate	ND	07/19/05	TEV	0.03		5	P

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7/20/2005

Purchase Order No.: S-CT-00270

Project Location: S WEYMOUTH NAS SM LAND FILL
Date Received: 7/13/2005

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

Analytical Method:

SW846 1311/6010 1311/7470

SW846 1311 TCLP EXTRACTION. SAMPLES ARE EXTRACTED FOR 18-24 HOURS INTO A pH 5.0 BUFFER SOLUTION TO PRODUCE A LEACHATE. WATER SAMPLES ARE FILTERED, NOT EXTRACTED.

SW846 6010 ARSENIC, BARIUM, CADMIUM, CHROMIUM, LEAD, SELENIUM AND SILVER LEACHATES ARE ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY.

SW846 7470 MERCURY LEACHATE IS ANALYZED BY COLD VAPOR (FLAMELESS) ATOMIC ABSORPTION SPECTROPHOTOMETRY.

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Project Location: S WEYMOUTH NAS SM LAND FILL
Date Received: 7/13/2005

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

Field Sample # : TP-18

Sample ID : 05B28161 Sampled : 7/12/2005
TEST PIT (3-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Total Petroleum Hydrocarbons	mg/kg dry wt	231.	07/18/05	LL	37.2			

Field Sample # : TP-19

Sample ID : 05B28162 Sampled : 7/12/2005
TEST PIT (2-4 FT.)

Sample Matrix: SOLID

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Total Petroleum Hydrocarbons	mg/kg dry wt	172.	07/18/05	LL	22.2			

Analytical Method:
MODIFIED EPA 418.1
INFRA-RED DETERMINATION FOLLOWING EXTRACTION OF HYDROCARBONS INTO 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)

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Purchase Order No.: S-CT-00270

Project Location: S WEYMOUTH NAS SM LAND FILL
Date Received: 7/13/2005

LIMS-BAT #: LIMS-90205
Job Number: NAV 2002.SW

The following notes were attached to the reported analysis :

Sample ID: * 05B28161
Analysis: Conductivity

SOIL PREPARATION
1.0 GRAM OF SOIL COMBINED WITH 100 MILLILITERS DEIONIZED WATER.

Sample ID: * 05B28162
Analysis: Conductivity

SOIL PREPARATION
1.0 GRAM OF SOIL COMBINED WITH 100 MILLILITERS DEIONIZED WATER.

** END OF REPORT **

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 7/20/2005 Lims Bat # : LIMS-90205

QC Batch Number: FLASHPONT-1828

Sample Id	Analysis	QC Analysis	Values	Units	Limits
STDADD-29453					
	Flashpoint	Standard Measured	81.0	deg. F	
		Standard Amt Added	81.0	deg. F	
		Standard % Recovery	100.0	%	90.6-107
STDADD-29454					
	Flashpoint	Standard Measured	79.5	deg. F	
		Standard Amt Added	81.0	deg. F	
		Standard % Recovery	98.1	%	90.6-107

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 7/20/2005 Lims Bat # : LIMS-90205

QC Batch Number: GC/ECD-7516

Sample Id	Analysis	QC Analysis	Values	Units	Limits
05B28161					
	Decachlorobiphenyl	Surrogate Recovery	69.0	%	30-150
	Tetrachloro-m-Xylene	Surrogate Recovery	86.0	%	30-150
05B28162					
	Decachlorobiphenyl	Surrogate Recovery	75.0	%	30-150
	Tetrachloro-m-Xylene	Surrogate Recovery	81.0	%	30-150
BLANK-76137					
	PCB-1232	Blank	<0.020	mg/kg dry wt	
	PCB-1242	Blank	<0.020	mg/kg dry wt	
	PCB-1254	Blank	<0.020	mg/kg dry wt	
	PCB-1260	Blank	<0.020	mg/kg dry wt	
	PCB-1248	Blank	<0.020	mg/kg dry wt	
	PCB-1221	Blank	<0.020	mg/kg dry wt	
	PCB 1016	Blank	<0.020	mg/kg dry wt	
	PCB 1262	Blank	<0.020	mg/kg dry wt	
	PCB 1268	Blank	<0.020	mg/kg dry wt	
LFBLANK-43182					
	PCB-1260	Lab Fort Blank Amt.	0.050	mg/kg dry wt	
		Lab Fort Blk. Found	0.054	mg/kg dry wt	
		Lab Fort Blk. % Rec.	108.000	%	40-140
		Dup Lab Fort Bl Amt.	0.050	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	0.059	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	118.000	%	
		Lab Fort Blank Range	10.000	units	
		Lab Fort Bl. Av. Rec	113.000	%	
		LFB Duplicate RPD	8.850	%	
	PCB 1016	Lab Fort Blank Amt.	0.050	mg/kg dry wt	
		Lab Fort Blk. Found	0.056	mg/kg dry wt	
		Lab Fort Blk. % Rec.	112.000	%	40-140
		Dup Lab Fort Bl Amt.	0.050	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	0.059	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	118.000	%	
		Lab Fort Blank Range	6.000	units	
		Lab Fort Bl. Av. Rec	115.000	%	
		LFB Duplicate RPD	5.217	%	

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QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 7/20/2005 Lims Bat # : LIMS-90205

QC Batch Number: GCMS/SEMI-7068

Sample Id	Analysis	QC Analysis	Values	Units	Limits
05B28161					
	Phenol-d6	Surrogate Recovery	110.7	%	30-130
	Nitrobenzene-d5	Surrogate Recovery	78.6	%	30-130
	2-Fluorobiphenyl	Surrogate Recovery	66.7	%	30-130
	2,4,6-Tribromophenol	Surrogate Recovery	73.0	%	30-130
	Terphenyl-d14	Surrogate Recovery	75.9	%	30-130
	2-Fluorophenol	Surrogate Recovery	82.8	%	30-130
05B28162					
	Phenol-d6	Surrogate Recovery	124.9	%	30-130
	Nitrobenzene-d5	Surrogate Recovery	90.4	%	30-130
	2-Fluorobiphenyl	Surrogate Recovery	75.6	%	30-130
	2,4,6-Tribromophenol	Surrogate Recovery	84.1	%	30-130
	Terphenyl-d14	Surrogate Recovery	78.6	%	30-130
	2-Fluorophenol	Surrogate Recovery	93.9	%	30-130
BLANK-76227					
	Naphthalene	Blank	<0.17	mg/kg dry wt	
	1,2-Dichlorobenzene	Blank	<0.34	mg/kg dry wt	
	Acenaphthene	Blank	<0.17	mg/kg dry wt	
	Acenaphthylene	Blank	<0.17	mg/kg dry wt	
	Aniline	Blank	<0.34	mg/kg dry wt	
	Anthracene	Blank	<0.17	mg/kg dry wt	
	Benzidine	Blank	<2.34	mg/kg dry wt	
	Benzo(a)anthracene	Blank	<0.17	mg/kg dry wt	
	Benzo(a)pyrene	Blank	<0.17	mg/kg dry wt	
	Benzo(b)fluoranthene	Blank	<0.17	mg/kg dry wt	
	Benzo(g,h,i)perylene	Blank	<0.17	mg/kg dry wt	
	Benzoic Acid	Blank	<1.00	mg/kg dry wt	
	Benzyl Alcohol	Blank	<0.67	mg/kg dry wt	
	Bis(2-chloroethyl)ether	Blank	<0.34	mg/kg dry wt	
	Bis(2-chloroethoxy)methane	Blank	<0.34	mg/kg dry wt	
	Bis(2-chloroisopropyl)ether	Blank	<0.34	mg/kg dry wt	
	Bis(2-ethylhexyl)phthalate	Blank	<0.34	mg/kg dry wt	
	4-Bromophenyl phenyl ether	Blank	<0.34	mg/kg dry wt	
	Butylbenzylphthalate	Blank	<0.67	mg/kg dry wt	
	4-Chloroaniline	Blank	<0.67	mg/kg dry wt	
	2-Chloronaphthalene	Blank	<0.34	mg/kg dry wt	
	4-Chlorophenylphenyl ether	Blank	<0.34	mg/kg dry wt	
	Chrysene	Blank	<0.17	mg/kg dry wt	
	Dibenz(a,h)anthracene	Blank	<0.17	mg/kg dry wt	
	Dibenzofuran	Blank	<0.34	mg/kg dry wt	
	3,3'-Dichlorobenzidine	Blank	<0.17	mg/kg dry wt	
	Diethylphthalate	Blank	<0.34	mg/kg dry wt	
	Dimethylphthalate	Blank	<0.67	mg/kg dry wt	
	Di-n-butylphthalate	Blank	<0.34	mg/kg dry wt	

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Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 7/20/2005 Lims Bat # : LIMS-90205

QC Batch Number: GCMS/SEMI-7068

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-76227					
	2,4-Dinitrotoluene	Blank	<0.34	mg/kg dry wt	
	2,6-Dinitrotoluene	Blank	<0.34	mg/kg dry wt	
	1,2-Diphenylhydrazine (as Azobenzene)	Blank	<0.34	mg/kg dry wt	
	Di-n-octylphthalate	Blank	<0.67	mg/kg dry wt	
	Fluoranthene	Blank	<0.17	mg/kg dry wt	
	Fluorene	Blank	<0.17	mg/kg dry wt	
	Hexachlorobenzene	Blank	<0.34	mg/kg dry wt	
	Hexachlorobutadiene	Blank	<0.34	mg/kg dry wt	
	Hexachlorocyclopentadiene	Blank	<0.67	mg/kg dry wt	
	Hexachloroethane	Blank	<0.34	mg/kg dry wt	
	Indeno(1,2,3-cd)pyrene	Blank	<0.17	mg/kg dry wt	
	Isophorone	Blank	<0.34	mg/kg dry wt	
	2-Methylnaphthalene	Blank	<0.17	mg/kg dry wt	
	2-Nitroaniline	Blank	<0.34	mg/kg dry wt	
	3-Nitroaniline	Blank	<0.34	mg/kg dry wt	
	Nitrobenzene	Blank	<0.34	mg/kg dry wt	
	N-Nitrosodimethylamine	Blank	<0.34	mg/kg dry wt	
	N-Nitroso-di-n-propylamine	Blank	<0.34	mg/kg dry wt	
	N-Nitrosodiphenylamine	Blank	<0.34	mg/kg dry wt	
	Phenanthrene	Blank	<0.17	mg/kg dry wt	
	Pyrene	Blank	<0.17	mg/kg dry wt	
	1,2,4-Trichlorobenzene	Blank	<0.34	mg/kg dry wt	
	4-Chloro-3-methylphenol	Blank	<0.67	mg/kg dry wt	
	2-Chlorophenol	Blank	<0.34	mg/kg dry wt	
	2,4-Dichlorophenol	Blank	<0.34	mg/kg dry wt	
	2,4-Dimethylphenol	Blank	<0.34	mg/kg dry wt	
	4,6-Dinitro-2-methylphenol	Blank	<0.34	mg/kg dry wt	
	2,4-Dinitrophenol	Blank	<0.67	mg/kg dry wt	
	o-cresol	Blank	<0.34	mg/kg dry wt	
	m & p-cresol(s)	Blank	<0.34	mg/kg dry wt	
	2-Nitrophenol	Blank	<0.34	mg/kg dry wt	
	4-Nitrophenol	Blank	<0.67	mg/kg dry wt	
	Phenol	Blank	<0.34	mg/kg dry wt	
	2,4,5-Trichlorophenol	Blank	<0.34	mg/kg dry wt	
	2,4,6-Trichlorophenol	Blank	<0.34	mg/kg dry wt	
	Pentachlorophenol	Blank	<0.34	mg/kg dry wt	
	Pyridine	Blank	<0.34	mg/kg dry wt	
	Benzo(k)fluoranthene	Blank	<0.17	mg/kg dry wt	
	1,1-Biphenyl	Blank	<0.34	mg/kg dry wt	
	Acetophenone	Blank	<0.34	mg/kg dry wt	
	1,2-Dinitrobenzene	Blank	<0.34	mg/kg dry wt	
	1,3-Dinitrobenzene	Blank	<0.34	mg/kg dry wt	
	1,4-Dinitrobenzene	Blank	<0.34	mg/kg dry wt	

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Standard Reference Materials and Duplicates
Method Blanks

Report Date: 7/20/2005 Lims Bat # : LIMS-90205

QC Batch Number: GCMS/SEMI-7068

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-43234					
	Naphthalene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.23	mg/kg dry wt	
		Lab Fort Blk. % Rec.	73.86	%	40-140
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.19	mg/kg dry wt	
		Lab Fort Blk. % Rec.	71.50	%	40-140
	Acenaphthene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.32	mg/kg dry wt	
		Lab Fort Blk. % Rec.	79.22	%	40-140
	Acenaphthylene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.51	mg/kg dry wt	
		Lab Fort Blk. % Rec.	90.36	%	40-140
	Aniline	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.01	mg/kg dry wt	
		Lab Fort Blk. % Rec.	60.40	%	
	Anthracene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.39	mg/kg dry wt	
		Lab Fort Blk. % Rec.	83.46	%	40-140
	Benzidine	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	4.83	mg/kg dry wt	
		Lab Fort Blk. % Rec.	289.72	%	
	Benzo(a)anthracene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.33	mg/kg dry wt	
		Lab Fort Blk. % Rec.	80.06	%	40-140
	Benzo(a)pyrene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.45	mg/kg dry wt	
		Lab Fort Blk. % Rec.	86.86	%	40-140
	Benzo(b)fluoranthene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.36	mg/kg dry wt	
		Lab Fort Blk. % Rec.	81.46	%	40-140
	Benzo(g,h,i)perylene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.39	mg/kg dry wt	
		Lab Fort Blk. % Rec.	83.22	%	40-140
	Benzyl Alcohol	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.44	mg/kg dry wt	
		Lab Fort Blk. % Rec.	86.18	%	
	Bis(2-chloroethyl)ether	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.14	mg/kg dry wt	
		Lab Fort Blk. % Rec.	68.62	%	40-140
	Bis(2-chloroethoxy)methane	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.27	mg/kg dry wt	
		Lab Fort Blk. % Rec.	76.10	%	
	Bis(2-chloroisopropyl)ether	Lab Fort Blank Amt.	1.67	mg/kg dry wt	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 7/20/2005 Lims Bat # : LIMS-90205

QC Batch Number: GCMS/SEMI-7068

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-43234					
	Bis(2-chloroisopropyl)ether	Lab Fort Blk. Found	1.22	mg/kg dry wt	
		Lab Fort Blk. % Rec.	73.20	%	40-140
	Bis(2-ethylhexyl)phthalate	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.40	mg/kg dry wt	
		Lab Fort Blk. % Rec.	83.70	%	40-140
	4-Bromophenyl phenyl ether	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.32	mg/kg dry wt	
		Lab Fort Blk. % Rec.	79.26	%	
	Butylbenzylphthalate	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.43	mg/kg dry wt	
		Lab Fort Blk. % Rec.	85.64	%	
	4-Chloroaniline	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	0.81	mg/kg dry wt	
		Lab Fort Blk. % Rec.	48.70	%	20-130
	2-Chloronaphthalene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.44	mg/kg dry wt	
		Lab Fort Blk. % Rec.	86.34	%	
	4-Chlorophenylphenyl ether	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.24	mg/kg dry wt	
		Lab Fort Blk. % Rec.	74.50	%	
	Chrysene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.40	mg/kg dry wt	
		Lab Fort Blk. % Rec.	83.94	%	40-140
	Dibenz(a,h)anthracene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.49	mg/kg dry wt	
		Lab Fort Blk. % Rec.	89.26	%	40-140
	Dibenzofuran	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.54	mg/kg dry wt	
		Lab Fort Blk. % Rec.	92.28	%	40-140
	3,3'-Dichlorobenzidine	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	0.96	mg/kg dry wt	
		Lab Fort Blk. % Rec.	57.40	%	40-140
	Diethylphthalate	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.29	mg/kg dry wt	
		Lab Fort Blk. % Rec.	77.50	%	40-140
	Dimethylphthalate	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.32	mg/kg dry wt	
		Lab Fort Blk. % Rec.	79.36	%	40-140
	Di-n-butylphthalate	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.41	mg/kg dry wt	
		Lab Fort Blk. % Rec.	84.42	%	
	2,4-Dinitrotoluene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.30	mg/kg dry wt	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-43234					
	2,4-Dinitrotoluene	Lab Fort Blk. % Rec.	78.02	%	40-140
	2,6-Dinitrotoluene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.37	mg/kg dry wt	
		Lab Fort Blk. % Rec.	82.32	%	40-140
	1,2-Diphenylhydrazine (as Azobenzene)	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.56	mg/kg dry wt	
		Lab Fort Blk. % Rec.	93.42	%	
	Di-n-octylphthalate	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.41	mg/kg dry wt	
		Lab Fort Blk. % Rec.	84.68	%	
	Fluoranthene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.37	mg/kg dry wt	
		Lab Fort Blk. % Rec.	82.18	%	40-140
	Fluorene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.22	mg/kg dry wt	
		Lab Fort Blk. % Rec.	73.08	%	40-140
	Hexachlorobenzene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.32	mg/kg dry wt	
		Lab Fort Blk. % Rec.	79.06	%	40-140
	Hexachlorobutadiene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.15	mg/kg dry wt	
		Lab Fort Blk. % Rec.	68.80	%	40-140
	Hexachlorocyclopentadiene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.14	mg/kg dry wt	
		Lab Fort Blk. % Rec.	68.56	%	
	Hexachloroethane	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.18	mg/kg dry wt	
		Lab Fort Blk. % Rec.	70.58	%	40-140
	Indeno(1,2,3-cd)pyrene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.33	mg/kg dry wt	
		Lab Fort Blk. % Rec.	80.02	%	40-140
	Isophorone	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.15	mg/kg dry wt	
		Lab Fort Blk. % Rec.	69.26	%	40-140
	2-Methylnaphthalene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.25	mg/kg dry wt	
		Lab Fort Blk. % Rec.	75.10	%	40-140
	2-Nitroaniline	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.39	mg/kg dry wt	
		Lab Fort Blk. % Rec.	83.20	%	
	3-Nitroaniline	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	0.97	mg/kg dry wt	
		Lab Fort Blk. % Rec.	58.24	%	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-43234					
	Nitrobenzene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	0.99	mg/kg dry wt	
		Lab Fort Blk. % Rec.	59.52	%	40-140
	N-Nitrosodimethylamine	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.26	mg/kg dry wt	
		Lab Fort Blk. % Rec.	75.30	%	
	N-Nitroso-di-n-propylamine	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.20	mg/kg dry wt	
		Lab Fort Blk. % Rec.	72.06	%	
	N-Nitrosodiphenylamine	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.82	mg/kg dry wt	
		Lab Fort Blk. % Rec.	109.22	%	
	Phenanthrene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.31	mg/kg dry wt	
		Lab Fort Blk. % Rec.	78.60	%	40-140
	Pyrene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.39	mg/kg dry wt	
		Lab Fort Blk. % Rec.	83.14	%	40-140
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.17	mg/kg dry wt	
		Lab Fort Blk. % Rec.	70.10	%	40-140
	4-Chloro-3-methylphenol	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.38	mg/kg dry wt	
		Lab Fort Blk. % Rec.	82.86	%	
	2-Chlorophenol	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.04	mg/kg dry wt	
		Lab Fort Blk. % Rec.	62.34	%	30-130
	2,4-Dichlorophenol	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.25	mg/kg dry wt	
		Lab Fort Blk. % Rec.	75.20	%	30-130
	2,4-Dimethylphenol	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.34	mg/kg dry wt	
		Lab Fort Blk. % Rec.	80.34	%	30-130
	4,6-Dinitro-2-methylphenol	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	0.94	mg/kg dry wt	
		Lab Fort Blk. % Rec.	56.46	%	
	2,4-Dinitrophenol	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	0.51	mg/kg dry wt	
		Lab Fort Blk. % Rec.	30.86	%	10-130
	o-cresol	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.30	mg/kg dry wt	
		Lab Fort Blk. % Rec.	78.26	%	30-130
	m & p-cresol(s)	Lab Fort Blank Amt.	1.67	mg/kg dry wt	

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QC Batch Number: GCMS/SEMI-7068

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-43234					
	m & p-cresol(s)	Lab Fort Blk. Found	1.18	mg/kg dry wt	
		Lab Fort Blk. % Rec.	71.06	%	30-130
	2-Nitrophenol	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.26	mg/kg dry wt	
		Lab Fort Blk. % Rec.	75.88	%	30-130
	4-Nitrophenol	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.13	mg/kg dry wt	
		Lab Fort Blk. % Rec.	67.94	%	
	Phenol	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.36	mg/kg dry wt	
		Lab Fort Blk. % Rec.	81.32	%	30-130
	2,4,5-Trichlorophenol	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.27	mg/kg dry wt	
		Lab Fort Blk. % Rec.	76.00	%	30-130
	2,4,6-Trichlorophenol	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.36	mg/kg dry wt	
		Lab Fort Blk. % Rec.	81.66	%	30-130
	Pentachlorophenol	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	0.65	mg/kg dry wt	
		Lab Fort Blk. % Rec.	39.16	%	30-130
	Pyridine	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	0.76	mg/kg dry wt	
		Lab Fort Blk. % Rec.	45.58	%	
	Benzo(k)fluoranthene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.42	mg/kg dry wt	
		Lab Fort Blk. % Rec.	85.40	%	40-140
	Acetophenone	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.37	mg/kg dry wt	
		Lab Fort Blk. % Rec.	82.36	%	
	1,2-Dinitrobenzene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	1.12	mg/kg dry wt	
		Lab Fort Blk. % Rec.	67.26	%	
	1,3-Dinitrobenzene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	0.89	mg/kg dry wt	
		Lab Fort Blk. % Rec.	53.18	%	
	1,4-Dinitrobenzene	Lab Fort Blank Amt.	1.67	mg/kg dry wt	
		Lab Fort Blk. Found	0.59	mg/kg dry wt	
		Lab Fort Blk. % Rec.	35.30	%	

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Report Date: 7/20/2005 Lims Bat # : LIMS-90205

QC Batch Number: GCMS/VOL-12659

Sample Id	Analysis	QC Analysis	Values	Units	Limits
05B28161					
	1,2-Dichloroethane-d4	Surrogate Recovery	105.400	%	70-130
	Toluene-d8	Surrogate Recovery	94.720	%	70-130
	Bromofluorobenzene	Surrogate Recovery	88.400	%	70-130
05B28162					
	1,2-Dichloroethane-d4	Surrogate Recovery	107.480	%	70-130
	Toluene-d8	Surrogate Recovery	93.560	%	70-130
	Bromofluorobenzene	Surrogate Recovery	83.600	%	70-130
BLANK-76180					
	Acetone	Blank	<0.100	mg/kg dry wt	
	Benzene	Blank	<0.002	mg/kg dry wt	
	Carbon Tetrachloride	Blank	<0.002	mg/kg dry wt	
	Chloroform	Blank	<0.004	mg/kg dry wt	
	1,2-Dichloroethane	Blank	<0.002	mg/kg dry wt	
	1,4-Dichlorobenzene	Blank	<0.002	mg/kg dry wt	
	Ethyl Benzene	Blank	<0.002	mg/kg dry wt	
	2-Butanone (MEK)	Blank	<0.024	mg/kg dry wt	
	MIBK	Blank	<0.018	mg/kg dry wt	
	Naphthalene	Blank	<0.002	mg/kg dry wt	
	Styrene	Blank	<0.002	mg/kg dry wt	
	Tetrachloroethylene	Blank	<0.002	mg/kg dry wt	
	Toluene	Blank	<0.002	mg/kg dry wt	
	1,1,1-Trichloroethane	Blank	<0.002	mg/kg dry wt	
	Trichloroethylene	Blank	<0.002	mg/kg dry wt	
	Trichlorofluoromethane	Blank	<0.002	mg/kg dry wt	
	o-Xylene	Blank	<0.002	mg/kg dry wt	
	m + p Xylene	Blank	<0.003	mg/kg dry wt	
	1,2-Dichlorobenzene	Blank	<0.002	mg/kg dry wt	
	1,3-Dichlorobenzene	Blank	<0.002	mg/kg dry wt	
	1,1-Dichloroethane	Blank	<0.002	mg/kg dry wt	
	1,1-Dichloroethylene	Blank	<0.002	mg/kg dry wt	
	1,4-Dioxane	Blank	<0.100	mg/kg dry wt	
	MTBE	Blank	<0.002	mg/kg dry wt	
	trans-1,2-Dichloroethylene	Blank	<0.002	mg/kg dry wt	
	Vinyl Chloride	Blank	<0.002	mg/kg dry wt	
	Methylene Chloride	Blank	<0.030	mg/kg dry wt	
	Chlorobenzene	Blank	<0.002	mg/kg dry wt	
	Chloromethane	Blank	<0.030	mg/kg dry wt	
	Bromomethane	Blank	<0.003	mg/kg dry wt	
	Chloroethane	Blank	<0.002	mg/kg dry wt	
	cis-1,3-Dichloropropene	Blank	<0.002	mg/kg dry wt	
	trans-1,3-Dichloropropene	Blank	<0.001	mg/kg dry wt	
	Chlorodibromomethane	Blank	<0.002	mg/kg dry wt	
	1,1,2-Trichloroethane	Blank	<0.002	mg/kg dry wt	

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BLANK-76180					
	2-Chloroethylvinylether	Blank	<0.020	mg/kg dry wt	
	Bromoform	Blank	<0.003	mg/kg dry wt	
	1,1,2,2-Tetrachloroethane	Blank	<0.003	mg/kg dry wt	
	2-Chlorotoluene	Blank	<0.002	mg/kg dry wt	
	Hexachlorobutadiene	Blank	<0.003	mg/kg dry wt	
	Isopropylbenzene	Blank	<0.002	mg/kg dry wt	
	p-Isopropyltoluene	Blank	<0.002	mg/kg dry wt	
	n-Propylbenzene	Blank	<0.002	mg/kg dry wt	
	sec-Butylbenzene	Blank	<0.002	mg/kg dry wt	
	tert-Butylbenzene	Blank	<0.002	mg/kg dry wt	
	1,2,3-Trichlorobenzene	Blank	<0.002	mg/kg dry wt	
	1,2,4-Trichlorobenzene	Blank	<0.002	mg/kg dry wt	
	1,2,4-Trimethylbenzene	Blank	<0.002	mg/kg dry wt	
	1,3,5-Trimethylbenzene	Blank	<0.002	mg/kg dry wt	
	4-Chlorotoluene	Blank	<0.002	mg/kg dry wt	
	Dibromomethane	Blank	<0.003	mg/kg dry wt	
	cis-1,2-Dichloroethylene	Blank	<0.002	mg/kg dry wt	
	1,1-Dichloropropene	Blank	<0.003	mg/kg dry wt	
	1,2-Dichloropropane	Blank	<0.002	mg/kg dry wt	
	1,3-Dichloropropane	Blank	<0.002	mg/kg dry wt	
	2,2-Dichloropropane	Blank	<0.002	mg/kg dry wt	
	1,1,1,2-Tetrachloroethane	Blank	<0.002	mg/kg dry wt	
	1,2,3-Trichloropropane	Blank	<0.003	mg/kg dry wt	
	n-Butylbenzene	Blank	<0.002	mg/kg dry wt	
	Dichlorodifluoromethane	Blank	<0.002	mg/kg dry wt	
	Bromochloromethane	Blank	<0.002	mg/kg dry wt	
	Bromobenzene	Blank	<0.002	mg/kg dry wt	
	Iodomethane	Blank	<0.002	mg/kg dry wt	
	Acrolein	Blank	<0.040	mg/kg dry wt	
	Acrylonitrile	Blank	<0.010	mg/kg dry wt	
	Carbon Disulfide	Blank	<0.006	mg/kg dry wt	
	Vinyl Acetate	Blank	<0.033	mg/kg dry wt	
	2-Hexanone	Blank	<0.020	mg/kg dry wt	
	trans-1,4-Dichloro-2-Butene	Blank	<0.005	mg/kg dry wt	
	Ethyl Methacrylate	Blank	<0.002	mg/kg dry wt	
	cis-1,4-Dichloro-2-Butene	Blank	<0.005	mg/kg dry wt	
	Diethyl Ether	Blank	<0.004	mg/kg dry wt	
	Bromodichloromethane	Blank	<0.002	mg/kg dry wt	
	1,2-Dibromo-3-Chloropropane	Blank	<0.004	mg/kg dry wt	
	1,2-Dibromoethane	Blank	<0.002	mg/kg dry wt	
	Tetrahydrofuran	Blank	<0.010	mg/kg dry wt	
	tert-Butyl Alcohol	Blank	<0.040	mg/kg dry wt	
	Diisopropyl Ether	Blank	<0.001	mg/kg dry wt	

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Standard Reference Materials and Duplicates
Method Blanks

Report Date: 7/20/2005 Lims Bat # : LIMS-90205

QC Batch Number: GCMS/VOL-12659

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-76180					
	tert-Butylethyl Ether	Blank	<0.001	mg/kg dry wt	
	tert-Amylmethyl Ether	Blank	<0.001	mg/kg dry wt	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 7/20/2005 Lims Bat # : LIMS-90205

QC Batch Number: HG-5557

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-76042					
	Mercury	Blank	<0.010	mg/kg dry wt	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 7/20/2005 Lims Bat # : LIMS-90205

QC Batch Number: HG/TCLP-2026

Sample Id	Analysis	QC Analysis	Values	Units	Limits
05B28164					
	Mercury	Sample Amount	<0.00004	mg/l leachate	
		Matrix Spk Amt Added	0.00200	mg/l leachate	
		MS Amt Measured	0.00171	mg/l leachate	
		Matrix Spike % Rec.	85.50000	%	75-125
BLANK-76095					
	Mercury	Blank	0.00005	mg/l leachate	
LFBLANK-43148					
	Mercury	Lab Fort Blank Amt.	0.00200	mg/l leachate	
		Lab Fort Blk. Found	0.00187	mg/l leachate	
		Lab Fort Blk. % Rec.	93.50000	%	80-120

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 7/20/2005 Lims Bat # : LIMS-90205

QC Batch Number: ICP-12220

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-76194					
	Silver	Blank	<0.50	mg/kg dry wt	
	Arsenic	Blank	<5.00	mg/kg dry wt	
	Beryllium	Blank	<0.10	mg/kg dry wt	
	Cadmium	Blank	<0.05	mg/kg dry wt	
	Chromium	Blank	<0.35	mg/kg dry wt	
	Copper	Blank	<0.50	mg/kg dry wt	
	Nickel	Blank	<0.25	mg/kg dry wt	
	Lead	Blank	<2.50	mg/kg dry wt	
	Antimony	Blank	<2.50	mg/kg dry wt	
	Selenium	Blank	<5.00	mg/kg dry wt	
	Thallium	Blank	<2.50	mg/kg dry wt	
	Zinc	Blank	<0.50	mg/kg dry wt	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 7/20/2005 Lims Bat # : LIMS-90205

QC Batch Number: ICP/TCLP-2480

Sample Id	Analysis	QC Analysis	Values	Units	Limits
05B28164					
	Silver	Sample Amount	<0.03	mg/l leachate	
		Matrix Spk Amt Added	2.00	mg/l leachate	
		MS Amt Measured	1.78	mg/l leachate	
		Matrix Spike % Rec.	89.24	%	
	Arsenic	Sample Amount	<0.05	mg/l leachate	
		Matrix Spk Amt Added	2.00	mg/l leachate	
		MS Amt Measured	2.39	mg/l leachate	
		Matrix Spike % Rec.	119.36	%	70-130
	Barium	Sample Amount	1.65	mg/l leachate	
		Matrix Spk Amt Added	2.00	mg/l leachate	
		MS Amt Measured	4.03	mg/l leachate	
		Matrix Spike % Rec.	119.00	%	70-130
	Cadmium	Sample Amount	0.003	mg/l leachate	
		Matrix Spk Amt Added	2.000	mg/l leachate	
		MS Amt Measured	2.101	mg/l leachate	
		Matrix Spike % Rec.	104.910	%	70-130
	Chromium	Sample Amount	<0.03	mg/l leachate	
		Matrix Spk Amt Added	2.00	mg/l leachate	
		MS Amt Measured	2.11	mg/l leachate	
		Matrix Spike % Rec.	105.62	%	70-130
	Lead	Sample Amount	0.09	mg/l leachate	
		Matrix Spk Amt Added	2.00	mg/l leachate	
		MS Amt Measured	2.17	mg/l leachate	
		Matrix Spike % Rec.	104.22	%	70-130
	Selenium	Sample Amount	<0.05	mg/l leachate	
		Matrix Spk Amt Added	2.00	mg/l leachate	
		MS Amt Measured	2.25	mg/l leachate	
		Matrix Spike % Rec.	112.60	%	70-130
BLANK-76192					
	Silver	Blank	<0.03	mg/l leachate	
	Arsenic	Blank	<0.05	mg/l leachate	
	Barium	Blank	0.38	mg/l leachate	
	Cadmium	Blank	<0.003	mg/l leachate	
	Chromium	Blank	<0.03	mg/l leachate	
	Lead	Blank	<0.01	mg/l leachate	
	Selenium	Blank	<0.05	mg/l leachate	
LFBLANK-43208					
	Silver	Lab Fort Blank Amt.	2.00	mg/l leachate	
		Lab Fort Blk. Found	2.14	mg/l leachate	
		Lab Fort Blk. % Rec.	106.98	%	80-120
	Arsenic	Lab Fort Blank Amt.	2.00	mg/l leachate	
		Lab Fort Blk. Found	2.33	mg/l leachate	
		Lab Fort Blk. % Rec.	116.65	%	80-120

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 7/20/2005 Lims Bat # : LIMS-90205

QC Batch Number: ICP/TCLP-2480

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-43208					
	Barium	Lab Fort Blank Amt.	2.00	mg/l leachate	
		Lab Fort Blk. Found	2.51	mg/l leachate	
		Lab Fort Blk. % Rec.	125.32	%	80-120
	Cadmium	Lab Fort Blank Amt.	2.000	mg/l leachate	
		Lab Fort Blk. Found	2.074	mg/l leachate	
		Lab Fort Blk. % Rec.	103.680	%	80-120
	Chromium	Lab Fort Blank Amt.	2.00	mg/l leachate	
		Lab Fort Blk. Found	2.09	mg/l leachate	
		Lab Fort Blk. % Rec.	104.64	%	80-120
	Lead	Lab Fort Blank Amt.	2.00	mg/l leachate	
		Lab Fort Blk. Found	2.06	mg/l leachate	
		Lab Fort Blk. % Rec.	102.78	%	80-120
	Selenium	Lab Fort Blank Amt.	2.00	mg/l leachate	
		Lab Fort Blk. Found	2.23	mg/l leachate	
		Lab Fort Blk. % Rec.	111.66	%	80-120

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 7/20/2005 Lims Bat # : LIMS-90205

QC Batch Number: TPH-2603

Sample Id	Analysis	QC Analysis	Values	Units	Limits
05B28162					
	Total Petroleum Hydrocarbons	Sample Amount	171.81	mg/kg dry wt	
		Duplicate Value	163.47	mg/kg dry wt	
		Duplicate RPD	4.98	%	
		Sample Amount	171.81	mg/kg dry wt	
		Matrix Spk Amt Added	2289.00	mg/kg dry wt	
		MS Amt Measured	2143.34	mg/kg dry wt	
		Matrix Spike % Rec.	86.13	%	
LFBLANK-43135					
	Total Petroleum Hydrocarbons	Lab Fort Blank Amt.	1955.00	mg/kg dry wt	
		Lab Fort Blk. Found	1528.97	mg/kg dry wt	
		Lab Fort Blk. % Rec.	78.21	%	
STDADD-29430					
	Total Petroleum Hydrocarbons	Standard Measured	2010.14	mg/kg dry wt	
		Standard Amt Added	2033.00	mg/kg dry wt	
		Standard % Recovery	98.88	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 7/20/2005 Lims Bat # : LIMS-90205

QC Batch Number: WETCHEM-10101

Sample Id	Analysis	QC Analysis	Values	Units	Limits
STDADD-29437					
	Conductivity	Standard Measured	135.1	umhos/cm	
		Standard Amt Added	147.0	umhos/cm	
		Standard % Recovery	91.9	%	87-107
STDADD-29438					
	Conductivity	Standard Measured	1344.0	umhos/cm	
		Standard Amt Added	1413.0	umhos/cm	
		Standard % Recovery	95.1	%	87-107

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

NOTES:

QC Batch No. : ICP/TCLP-2480
Sample ID : LFBLANK-43208
Analysis : Barium

SUSPECTED CONTRIBUTION FROM LABORATORY BACKGROUND CONTAMINATION LEVEL.
SEE BLANK.

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken though all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
STDADD	Standard Added (a laboratory control sample)
Matrix Spk Amt Added	Amount of analyte spiked into a sample
MS Amt Measured	Amount of analyte found including amount that was spiked
Matrix Spike % Rec.	% Recovery of spiked amount in sample.
Duplicate Value	The result from the Duplicate analysis of the sample.
Duplicate RPD	The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD)	Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID)	Surrogate Recovery on the Photoionization Detector.
Standard Measured	Amount measured for a laboratory control sample
Standard Amt Added	Known value for a laboratory control sample
Standard % Recovery	% recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt	Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found	Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec	Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt	Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd	Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec	Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range	Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt	Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added	Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured	Matrix Spike Duplicate Amount Measured
MSD % Recovery	Matrix Spike Duplicate % Recovery
MSD Range	Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries

CLIENT NAME: HRP DATE RECEIVED: 7/13 RECEIVED BY: Meg

Was chain of custody relinquished and signed?	yes	no			
Does chain agree with samples?	yes	no			
All containers in good condition?	yes	no			
Are samples received within holding times?	yes	no			
Are samples received in compliance with temperature 0-6 degrees C?	yes	no			
Are there any "on hold" samples?	yes	no			
Comments:					
Location stored: ID					
Chain copied and put in folder:	yes	no			
Person Notified in Wet chem: MAB Time: 5:45 Initials: MEK					
CONTAINERS SENT IN TO CON-TEST	# of containers				
1 liter amber					
500 ml amber					
250 ml amber (8 oz amber)					
1 liter plastic					
500 ml plastic					
250 ml plastic					
40 ml vial					
colisure bottle					
Flashpoint bottle					
8 oz clear jar					
4 oz clear jar					
2 oz clear jar					
plastic baggie					
Encore					
Brass Sleeves					
Tubes					
Summa cans					
Other	4 250ish clear jars				

SAMPLE RECEIPT CHECKLIST

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Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

Log# 90205

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

Company Name: HRP
Address: 167 New Britain Avenue
Plainville, CT 06062
Attention: Tom Chapman
Project Location: S. Weymouth N.A.S. Small Land Fill
Sampled By: Tom Chapman
Disposal Provided? (For Billing purposes)
☐ yes _____ proposal date

Telephone: (860) 793-6899
Project # NAV 2002. SW
Client PO # S-CT-00270

DATA DELIVERY (check one):
☐ FAX ☒ EMAIL ☐ WEBSITE CLIENT
Fax # : _____ .com
Email: tom.chapman@hrpassociates.
Format: ☐ EXCEL ☒ PDF ☐ GIS KEY

ANALYSIS REQUESTED

Field ID	Sample Description	Lab # 058	Date Sampled Start Date/Time	Date Sampled Stop Date/Time	Composite	Grab	*Matrix Code	TCLP 8-RCRA Metals	Reactivity CN/Sulfide	pH	Ignitability (Flash pt)	8260B	TPH 418.1	13 Priority Pollutant Metals	SVOC by EPA 8270 C	PCBs	Conductivity
TP-18	Test Pit 3-4 ft.	28160, 162163	7/12/05	7/12/05		X	S/O	X	X	X	X	X	X	X	X	X	X
TP-19	Test Pit 2-4 ft.	28164, 163164	7/12/05	7/12/05		X	S	X	X	X	X	X	X	X	X	X	X

Relinquished by: (signature)	Date/Time:
Thomas C. Chapman	7/13/05
Received by: (signature)	Date/Time:
[signature]	7/13/05
Relinquished by: (signature)	Date/Time:
[signature]	7/13/05 5:45
Received by: (signature)	Date/Time:
[signature] 4.5°C	7/13 5:45

Turnaround
☐ 24 Hour*
☐ 48 Hour*
☐ 72 Hour*
☒ Std.
☐ Other**
_____ Date needed**
*Require lab approval.

Detection Limit Requirements
Regulations? RCRA
Data Enhancement Project? ☐ Y ☐ N
(MA MCP sites only)
Special Requirements or DL's: _____

***Matrix Code:**
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other CRYSTAL

****Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
O = Other
X = Na hydroxide
T = Na thiosulfate

~Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

Comments:

Con-Test Laboratory is the ONLY independent laboratory in all of New England with both prestigious AIHA and NELAC Certifications!

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REPORT DATE 8/2/2005

HRP ASSOCIATES, INC. (PRIVATE)
167 NEW BRITAIN AVENUE
PLAINVILLE, CT 06002
ATTN: TOM CHAPMAN

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-90374
JOB NUMBER: NAV.2002.SW

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: NAS-S. WEYMOUTH, MA

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
*SG-10	05B29105	AIR	NOT SPECIFIED	air special test
*SG-10	05B29105	AIR	NOT SPECIFIED	to-15 ppbv
*SG-10	05B29105	AIR	NOT SPECIFIED	to-15 ug/m3

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations :

AIHA 100033	AIHA ELLAP (LEAD) 100033	
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	ARIZONA AZ0648
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	ARIZONA AZ0654 (AIR)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Sondra S. Kocot 08/03/05

SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Sondra S. Kocot
Quality Control Coordinator

Edward Denson
Technical Director

* See end of data tabulation for notes and comments pertaining to this sample

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TOM CHAPMAN
HRP ASSOCIATES, INC. (PRIVATE)
167 NEW BRITAIN AVENUE
PLAINVILLE, CT 06002

8/2/2005

Purchase Order No.:

Project Location: NAS-S. WEYMOUTH, MA
Date Received: 7/20/2005
Field Sample # : SG-10

LIMS-BAT #: LIMS-90374
Job Number: NAV.2002.SW

Sample ID : *05B29105

Sampled : 7/19/2005
NOT SPECIFIED

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			07/21/05	TPH				
SEE ATTACHED REPORT								

RL = Reporting Limit

ND = Not Detected

NM = Not Measured

* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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TOM CHAPMAN
HRP ASSOCIATES, INC. (PRIVATE)
167 NEW BRITAIN AVENUE
PLAINVILLE, CT 06002

8/2/2005

Purchase Order No.:

Project Location: NAS-S. WEYMOUTH, MA
Date Received: 7/20/2005
Field Sample # : SG-10

LIMS-BAT #: LIMS-90374
Job Number: NAV.2002.SW

Sample ID : 05B29105

Sampled : 7/19/2005
NOT SPECIFIED

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	PPBv	12.5	07/26/05	WSD	0.5			
Benzene	PPBv	1.1	07/26/05	WSD	0.5			
Benzyl Chloride	PPBv	ND	07/26/05	WSD	0.5			
Bromodichloromethane	PPBv	ND	07/26/05	WSD	0.5			
Bromomethane	PPBv	ND	07/26/05	WSD	0.5			
1,3-Butadiene	PPBv	ND	07/26/05	WSD	0.5			
2-Butanone (MEK)	PPBv	4.8	07/26/05	WSD	0.5			
Carbon Disulfide	PPBv	ND	07/26/05	WSD	0.5			
Carbon Tetrachloride	PPBv	ND	07/26/05	WSD	0.5			
Chlorobenzene	PPBv	ND	07/26/05	WSD	0.5			
Chlorodibromomethane	PPBv	ND	07/26/05	WSD	0.5			
Chloroethane	PPBv	ND	07/26/05	WSD	0.5			
Chloroform	PPBv	ND	07/26/05	WSD	0.5			
Chloromethane	PPBv	ND	07/26/05	WSD	0.5			
Cyclohexane	PPBv	ND	07/26/05	WSD	0.5			
1,2-Dibromoethane	PPBv	ND	07/26/05	WSD	0.5			
1,2-Dichlorobenzene	PPBv	ND	07/26/05	WSD	0.5			
1,3-Dichlorobenzene	PPBv	ND	07/26/05	WSD	0.5			
1,4-Dichlorobenzene	PPBv	ND	07/26/05	WSD	0.5			
Dichlorodifluoromethane	PPBv	ND	07/26/05	WSD	0.5			
1,1-Dichloroethane	PPBv	ND	07/26/05	WSD	0.5			
1,2-Dichloroethane	PPBv	ND	07/26/05	WSD	0.5			
1,1-Dichloroethylene	PPBv	ND	07/26/05	WSD	0.5			
cis-1,2-Dichloroethylene	PPBv	ND	07/26/05	WSD	0.5			
t-1,2-Dichloroethylene	PPBv	ND	07/26/05	WSD	0.5			
1,2-Dichloropropane	PPBv	ND	07/26/05	WSD	0.5			
cis-1,3-Dichloropropene	PPBv	ND	07/26/05	WSD	0.5			
trans-1,3-Dichloropropene	PPBv	ND	07/26/05	WSD	0.5			
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	07/26/05	WSD	0.5			
Ethanol	PPBv	ND	07/26/05	WSD	0.5			

RL = Reporting Limit

ND = Not Detected

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample

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TOM CHAPMAN
HRP ASSOCIATES, INC. (PRIVATE)
167 NEW BRITAIN AVENUE
PLAINVILLE, CT 06002

8/2/2005

Purchase Order No.:

Project Location: NAS-S. WEYMOUTH, MA
Date Received: 7/20/2005
Field Sample # : SG-10

LIMS-BAT #: LIMS-90374
Job Number: NAV.2002.SW

Sample ID : 05B29105

Sampled : 7/19/2005
NOT SPECIFIED

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Ethyl Acetate	PPBv	ND	07/26/05	WSD	0.5			
Ethylbenzene	PPBv	ND	07/26/05	WSD	0.5			
4-Ethyl Toluene	PPBv	ND	07/26/05	WSD	0.5			
n-Heptane	PPBv	0.7	07/26/05	WSD	0.5			
Hexachlorobutadiene	PPBv	ND	07/26/05	WSD	0.5			
Hexane	PPBv	3.5	07/26/05	WSD	0.5			
2-Hexanone	PPBv	ND	07/26/05	WSD	0.5			
Isopropanol	PPBv	ND	07/26/05	WSD	0.5			
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	07/26/05	WSD	0.5			
Methylene Chloride	PPBv	ND	07/26/05	WSD	0.5			
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	07/26/05	WSD	0.5			
Propene	PPBv	ND	07/26/05	WSD	0.5			
Styrene	PPBv	0.7	07/26/05	WSD	0.5			
1,1,2,2-Tetrachloroethane	PPBv	ND	07/26/05	WSD	0.5			
Tetrachloroethylene	PPBv	ND	07/26/05	WSD	0.5			
Tetrahydrofuran	PPBv	1.1	07/26/05	WSD	0.5			
Toluene	PPBv	2.9	07/26/05	WSD	0.5			
1,2,4-Trichlorobenzene	PPBv	0.8	07/26/05	WSD	0.5			
1,1,1-Trichloroethane	PPBv	ND	07/26/05	WSD	0.5			
1,1,2-Trichloroethane	PPBv	ND	07/26/05	WSD	0.5			
Trichloroethylene	PPBv	ND	07/26/05	WSD	0.5			
Trichlorofluoromethane (Freon 11)	PPBv	ND	07/26/05	WSD	0.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	07/26/05	WSD	0.5			
1,2,4-Trimethylbenzene	PPBv	ND	07/26/05	WSD	0.5			
1,3,5-Trimethylbenzene	PPBv	ND	07/26/05	WSD	0.5			
Vinyl Acetate	PPBv	ND	07/26/05	WSD	0.5			
Vinyl Chloride	PPBv	ND	07/26/05	WSD	0.5			
m/p-Xylene	PPBv	0.9	07/26/05	WSD	0.5			
o-Xylene	PPBv	ND	07/26/05	WSD	0.5			

RL = Reporting Limit
ND = Not Detected
NM = Not Measured
* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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TOM CHAPMAN
HRP ASSOCIATES, INC. (PRIVATE)
167 NEW BRITAIN AVENUE
PLAINVILLE, CT 06002

8/2/2005

Purchase Order No.:

Project Location: NAS-S. WEYMOUTH, MA
Date Received: 7/20/2005
Field Sample # : SG-10

LIMS-BAT #: LIMS-90374
Job Number: NAV.2002.SW

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit

ND = Not Detected

NM = Not Measured

* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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PLAINVILLE, CT 06002

8/2/2005

Purchase Order No.:

Project Location: NAS-S. WEYMOUTH, MA
Date Received: 7/20/2005
Field Sample # : SG-10

LIMS-BAT #: LIMS-90374
Job Number: NAV.2002.SW

Sample ID : 05B29105

Sampled : 7/19/2005
NOT SPECIFIED

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	ug/m3	29.8	07/26/05	WSD	1.2			
Benzene	ug/m3	3.4	07/26/05	WSD	1.6			
Benzyl Chloride	ug/m3	ND	07/26/05	WSD	2.6			
Bromodichloromethane	ug/m3	ND	07/26/05	WSD	3.4			
Bromomethane	ug/m3	ND	07/26/05	WSD	1.9			
1,3-Butadiene	ug/m3	ND	07/26/05	WSD	1.1			
2-Butanone (MEK)	ug/m3	14.0	07/26/05	WSD	1.5			
Carbon Disulfide	ug/m3	ND	07/26/05	WSD	1.6			
Carbon Tetrachloride	ug/m3	ND	07/26/05	WSD	3.1			
Chlorobenzene	ug/m3	ND	07/26/05	WSD	2.3			
Chlorodibromomethane	ug/m3	ND	07/26/05	WSD	4.3			
Chloroethane	ug/m3	ND	07/26/05	WSD	1.3			
Chloroform	ug/m3	ND	07/26/05	WSD	2.4			
Chloromethane	ug/m3	ND	07/26/05	WSD	1.0			
Cyclohexane	ug/m3	ND	07/26/05	WSD	1.7			
1,2-Dibromoethane	ug/m3	ND	07/26/05	WSD	3.8			
1,2-Dichlorobenzene	ug/m3	ND	07/26/05	WSD	3.0			
1,3-Dichlorobenzene	ug/m3	ND	07/26/05	WSD	3.0			
1,4-Dichlorobenzene	ug/m3	ND	07/26/05	WSD	3.0			
Dichlorodifluoromethane	ug/m3	ND	07/26/05	WSD	2.5			
1,1-Dichloroethane	ug/m3	ND	07/26/05	WSD	2.0			
1,2-Dichloroethane	ug/m3	ND	07/26/05	WSD	2.0			
1,1-Dichloroethylene	ug/m3	ND	07/26/05	WSD	2.0			
cis-1,2-Dichloroethylene	ug/m3	ND	07/26/05	WSD	2.0			
t-1,2-Dichloroethylene	ug/m3	ND	07/26/05	WSD	2.0			
1,2-Dichloropropane	ug/m3	ND	07/26/05	WSD	2.3			
cis-1,3-Dichloropropene	ug/m3	ND	07/26/05	WSD	2.3			
trans-1,3-Dichloropropene	ug/m3	ND	07/26/05	WSD	2.3			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	07/26/05	WSD	3.5			
Ethanol	ug/m3	ND	07/26/05	WSD	0.9			

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167 NEW BRITAIN AVENUE
PLAINVILLE, CT 06002

8/2/2005

Purchase Order No.:

Project Location: NAS-S. WEYMOUTH, MA
Date Received: 7/20/2005
Field Sample # : SG-10
Sample ID : 05B29105
Sampled : 7/19/2005
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

LIMS-BAT #: LIMS-90374
Job Number: NAV.2002.SW

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Ethyl Acetate	ug/m3	ND	07/26/05	WSD	1.8			
Ethylbenzene	ug/m3	ND	07/26/05	WSD	2.2			
4-Ethyl Toluene	ug/m3	ND	07/26/05	WSD	2.5			
n-Heptane	ug/m3	3.0	07/26/05	WSD	2.0			
Hexachlorobutadiene	ug/m3	ND	07/26/05	WSD	5.3			
Hexane	ug/m3	12.3	07/26/05	WSD	1.8			
2-Hexanone	ug/m3	ND	07/26/05	WSD	2.0			
Isopropanol	ug/m3	ND	07/26/05	WSD	1.2			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	07/26/05	WSD	1.8			
Methylene Chloride	ug/m3	ND	07/26/05	WSD	1.7			
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	07/26/05	WSD	2.0			
Propene	ug/m3	ND	07/26/05	WSD	0.9			
Styrene	ug/m3	2.9	07/26/05	WSD	2.1			
1,1,2,2-Tetrachloroethane	ug/m3	ND	07/26/05	WSD	3.4			
Tetrachloroethylene	ug/m3	ND	07/26/05	WSD	3.4			
Tetrahydrofuran	ug/m3	3.4	07/26/05	WSD	1.5			
Toluene	ug/m3	10.8	07/26/05	WSD	1.9			
1,2,4-Trichlorobenzene	ug/m3	5.9	07/26/05	WSD	3.7			
1,1,1-Trichloroethane	ug/m3	ND	07/26/05	WSD	2.7			
1,1,2-Trichloroethane	ug/m3	ND	07/26/05	WSD	2.7			
Trichloroethylene	ug/m3	ND	07/26/05	WSD	2.7			
Trichlorofluoromethane	ug/m3	ND	07/26/05	WSD	2.8			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	07/26/05	WSD	3.8			
1,2,4-Trimethylbenzene	ug/m3	ND	07/26/05	WSD	2.5			
1,3,5-Trimethylbenzene	ug/m3	ND	07/26/05	WSD	2.5			
Vinyl Acetate	ug/m3	ND	07/26/05	WSD	1.8			
Vinyl Chloride	ug/m3	ND	07/26/05	WSD	1.3			
m/p-Xylene	ug/m3	3.8	07/26/05	WSD	2.2			
o-Xylene	ug/m3	ND	07/26/05	WSD	2.2			

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* = See end of report for comments and notes applying to this sample

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8/2/2005

Purchase Order No.:

Project Location: NAS-S. WEYMOUTH, MA
Date Received: 7/20/2005
Field Sample # : SG-10

LIMS-BAT #: LIMS-90374
Job Number: NAV.2002.SW

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit
ND = Not Detected
NM = Not Measured
* = See end of report for comments and notes applying to this sample

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8/2/2005

Purchase Order No.:

Project Location: NAS-S. WEYMOUTH, MA
Date Received: 7/20/2005

LIMS-BAT #: LIMS-90374
Job Number: NAV.2002.SW

The following notes were attached to the reported analysis :

Sample ID: * 05B29105
Analysis: air special test

SEE RESULTS PAGE

** END OF REPORT **

RL = Reporting Limit
ND = Not Detected
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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 8/2/2005 Lims Bat # : LIMS-90374

QC Batch Number: BATCH-9454

Sample Id	Analysis	QC Analysis	Values	Units	Limits
05B29105					
	4-Bromofluorobenzene	Surrogate Recovery	104.1	%	70-130
BLANK-76736					
	Acetone	Blank	<1.2	ug/m3	
	Benzene	Blank	<1.6	ug/m3	
	Carbon Tetrachloride	Blank	<3.1	ug/m3	
	Chloroform	Blank	<2.4	ug/m3	
	1,2-Dichloroethane	Blank	<2.0	ug/m3	
	1,4-Dichlorobenzene	Blank	<3.0	ug/m3	
	Ethyl Acetate	Blank	<1.8	ug/m3	
	Ethylbenzene	Blank	<2.2	ug/m3	
	Hexane	Blank	<1.8	ug/m3	
	Isopropanol	Blank	<1.2	ug/m3	
	2-Butanone (MEK)	Blank	<1.5	ug/m3	
	4-Methyl-2-Pentanone (MIBK)	Blank	<2.0	ug/m3	
	Styrene	Blank	<2.1	ug/m3	
	Tetrachloroethylene	Blank	<3.4	ug/m3	
	Toluene	Blank	<1.9	ug/m3	
	1,1,1-Trichloroethane	Blank	<2.7	ug/m3	
	Trichloroethylene	Blank	<2.7	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<3.8	ug/m3	
	Trichlorofluoromethane	Blank	<2.8	ug/m3	
	o-Xylene	Blank	<2.2	ug/m3	
	m/p-Xylene	Blank	<2.2	ug/m3	
	1,2-Dichlorobenzene	Blank	<3.0	ug/m3	
	1,3-Dichlorobenzene	Blank	<3.0	ug/m3	
	1,1-Dichloroethane	Blank	<2.0	ug/m3	
	1,1-Dichloroethylene	Blank	<2.0	ug/m3	
	Ethanol	Blank	<0.9	ug/m3	
	4-Ethyl Toluene	Blank	<2.5	ug/m3	
	Methyl tert-Butyl Ether (MTBE)	Blank	<1.8	ug/m3	
	t-1,2-Dichloroethylene	Blank	<2.0	ug/m3	
	Vinyl Chloride	Blank	<1.3	ug/m3	
	Methylene Chloride	Blank	<1.7	ug/m3	
	Chlorobenzene	Blank	<2.3	ug/m3	
	Chloromethane	Blank	<1.0	ug/m3	
	Bromomethane	Blank	<1.9	ug/m3	
	Chloroethane	Blank	<1.3	ug/m3	
	cis-1,3-Dichloropropene	Blank	<2.3	ug/m3	
	trans-1,3-Dichloropropene	Blank	<2.3	ug/m3	
	Chlorodibromomethane	Blank	<4.3	ug/m3	
	1,1,2-Trichloroethane	Blank	<2.7	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<3.4	ug/m3	
	Hexachlorobutadiene	Blank	<5.3	ug/m3	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 8/2/2005 Lims Bat # : LIMS-90374

QC Batch Number: BATCH-9454

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-76736					
	1,2,4-Trichlorobenzene	Blank	<3.7	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<2.5	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<2.5	ug/m3	
	Cyclohexane	Blank	<1.7	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<2.0	ug/m3	
	1,2-Dichloropropane	Blank	<2.3	ug/m3	
	Dichlorodifluoromethane	Blank	<2.5	ug/m3	
	Benzyl Chloride	Blank	<2.6	ug/m3	
	Carbon Disulfide	Blank	<1.6	ug/m3	
	Vinyl Acetate	Blank	<1.8	ug/m3	
	2-Hexanone	Blank	<2.0	ug/m3	
	Bromodichloromethane	Blank	<3.4	ug/m3	
	1,2-Dibromoethane	Blank	<3.8	ug/m3	
	n-Heptane	Blank	<2.0	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<3.5	ug/m3	
	Tetrahydrofuran	Blank	<1.5	ug/m3	
	Propene	Blank	<0.9	ug/m3	
	1,3-Butadiene	Blank	<1.1	ug/m3	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken though all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
STDADD	Standard Added (a laboratory control sample)
Matrix Spk Amt Added	Amount of analyte spiked into a sample
MS Amt Measured	Amount of analyte found including amount that was spiked
Matrix Spike % Rec.	% Recovery of spiked amount in sample.
Duplicate Value	The result from the Duplicate analysis of the sample.
Duplicate RPD	The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD)	Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID)	Surrogate Recovery on the Photoionization Detector.
Standard Measured	Amount measured for a laboratory control sample
Standard Amt Added	Known value for a laboratory control sample
Standard % Recovery	% recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt	Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found	Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec	Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt	Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd	Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec	Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range	Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt	Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added	Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured	Matrix Spike Duplicate Amount Measured
MSD % Recovery	Matrix Spike Duplicate % Recovery
MSD Range	Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries

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RESULTS FOR METHOD 3C

Lab ID Number: 05B29105
Client ID Number: SG-10

LIMS Number: 90374
Analyst: TPH
Date Analyzed: 7/21/05

Analyte:	Sample Results %	MDL %
Methane	ND	0.10
Carbon Dioxide	0.59	0.14

Gases sample analyzed by GC/TCD, method 3C(modified).
ND = Not Detected
MDL = Minimum Detectable Limit

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Results for Method EPA 16

Lab ID Number: 05B29105
Client ID Number: SG-10

LIMS Number: 90374
Date Analyzed: 7/21/05
Analyst: TPH

Analyte:	Reporting Limits PPBv	Sample Results PPBv
Hydrogen Sulfide	100	ND
Methyl Mercaptan	100	ND
Carbon Disulfide	100	ND
Dimethyl Sulfide	100	ND
Dimethyl Disulfide	100	ND
Isopropyl Mercaptan	100	ND
Tert-butyl-Mercaptan	100	ND
n-propmerc/Et-Me-Sulfide	100	ND
Isobutyl-Mercaptan	100	ND
Diethyl Sulfide	100	ND
n-Butly-Mercaptan	100	ND
Dimethyl Disulfide	100	ND
Diethyl Disulfide	100	ND

Method: EPA 16 (modified)
Run by GC/FPD
Sampled in a Silco Canister.

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Email: info@contestlabs.com
www.contestlabs.com

Limo# 90374

EAST LONGMEADOW, MA 01028

Page 1 of 1

Company Name: HRP
Address: 167 New Britain Ave.
Plainville, CT 06062
Attention: Tom Chapman
Project Location: NAS - S. Weymouth, MA
Sampled By: Christopher Labbe

Telephone: (860) 793-6899
Project # NAV-2002.5W
Client PO #

DATA DELIVERY (check one):
☐FAX ☐EMAIL ☐WEBSITE CLIENT
Fax #:
Email:
Format: ☐ EXCEL ☐ PDF ☐ GIS KEY

Proposal Provided? (For Billing purposes)
☐ yes _____ proposal date

State Form Required?
☐ yes ☐ no

ANALYSIS REQUESTED

Field ID	Sample Description	Lab # 056-	Date Sampled Start Date/Time	Date Sampled Stop Date/Time	Composite	Grab	*Matrix Code	EPA 3C (CO_2 + CH_4)	EPA 16 (Sulfur compounds)	TO 15 (VOCs - 62 compounds)	# of containers	**Preservation	~Cont.Code
								1	1	5			
SG-10		29105	7-19-05 10:36am	7-19-05 10:36am		X							

~Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

Comments:

Relinquished by: (signature) Christopher J. Labbe	Date/Time: 7-19-05 / 4:00pm	
Received by: (signature) [illegible]	Date/Time: 7/20/05 9:[illegible]	
Relinquished by: (signature) [illegible]	Date/Time: 7/20/05 10:[illegible]	
Received by: (signature) Mary Sigo [illegible]	Date/Time: 7/20/05 1030	

Turnaround **
☐ *5-Day
☐ 7-Day
☐ 10-Day
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
* Require lab approval

Detection Limit Requirements
Regulations?
Data Enhancement Project? ☐ Y ☐ N
(MA MCP sites only)
Special Requirements or DL's:

***Matrix Code:**
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

****Preservation Codes:**
I = Iced
X = Na hydroxide
H = HCL
T = Na thiosulfate
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
O = Other

**Turnaround time begins at 9:00 a.m. the day after sample receipt (unless received before 2:00 p.m.)

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REPORT DATE 7/26/2005

HRP ASSOCIATES, INC. (PRIVATE)
167 NEW BRITAIN AVENUE
PLAINVILLE, CT 06002
ATTN: TOM CHAPMAN

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: S-CT-00271

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-90178
JOB NUMBER: NAV2002.SW

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: SOUTH WEYMOUTH, MA.

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
SG-05	05B28034	AIR	SOIL GAS	air special test
SG-05	05B28034	AIR	SOIL GAS	to-15 ppbv
SG-05	05B28034	AIR	SOIL GAS	to-15 ug/m3
SG-11	05B28036	AIR	SOIL GAS	air special test
SG-11	05B28036	AIR	SOIL GAS	to-15 ppbv
SG-11	05B28036	AIR	SOIL GAS	to-15 ug/m3
SG-12	05B28037	AIR	SOIL GAS	air special test
SG-12	05B28037	AIR	SOIL GAS	to-15 ppbv
SG-12	05B28037	AIR	SOIL GAS	to-15 ug/m3

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations :

AIHA 100033
MASSACHUSETTS MA0100
CONNECTICUT PH-0567
NEW YORK ELAP/NELAP 10899
AIHA ELLAP (LEAD) 100033
NEW HAMPSHIRE NELAP 2516
VERMONT DOH (LEAD) No. LL015036
RHODE ISLAND (LIC. No. 112)
NEW JERSEY NELAP NJ MA007 (AIR)
ARIZONA AZ0648
ARIZONA AZ0654 (AIR)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod Kopyscinski 7/26/05
SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Sondra S. Kocot
Quality Control Coordinator

Edward Denson
Technical Director

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39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

TOM CHAPMAN
HRP ASSOCIATES, INC. (PRIVATE)
167 NEW BRITAIN AVENUE
PLAINVILLE, CT 06002

7/26/2005

Purchase Order No.: S-CT-00271

Project Location: SOUTH WEYMOUTH, MA.
Date Received: 7/13/2005
Field Sample # : SG-05

LIMS-BAT #: LIMS-90178
Job Number: NAV2002.SW

Sample ID : 05B28034
Sampled : 7/12/2005
SOIL GAS
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			07/15/05	TPH				

See results page

Field Sample # : SG-11

Sample ID : 05B28036
Sampled : 7/12/2005
SOIL GAS
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			07/15/05	TPH				

SEE ATTACHED RESULTS

Field Sample # : SG-12

Sample ID : 05B28037
Sampled : 7/12/2005
SOIL GAS
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			07/15/05	TPH				

See results page

RL = Reporting Limit
ND = Not Detected
NM = Not Measured
* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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7/26/2005

Purchase Order No.: S-CT-00271

Project Location: SOUTH WEYMOUTH, MA.
Date Received: 7/13/2005
Field Sample # : SG-05

LIMS-BAT #: LIMS-90178
Job Number: NAV2002.SW

Sample ID : 05B28034

Sampled : 7/12/2005
SOIL GAS

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	PPBv	ND	07/19/05	TPH	1.0			
Benzene	PPBv	ND	07/19/05	TPH	1.0			
Benzyl Chloride	PPBv	ND	07/19/05	TPH	1.0			
Bromodichloromethane	PPBv	ND	07/19/05	TPH	1.0			
Bromomethane	PPBv	ND	07/19/05	TPH	1.0			
1,3-Butadiene	PPBv	ND	07/19/05	TPH	1.0			
2-Butanone (MEK)	PPBv	ND	07/19/05	TPH	1.0			
Carbon Disulfide	PPBv	ND	07/19/05	TPH	1.0			
Carbon Tetrachloride	PPBv	ND	07/19/05	TPH	1.0			
Chlorobenzene	PPBv	ND	07/19/05	TPH	1.0			
Chlorodibromomethane	PPBv	ND	07/19/05	TPH	1.0			
Chloroethane	PPBv	ND	07/19/05	TPH	1.0			
Chloroform	PPBv	ND	07/19/05	TPH	1.0			
Chloromethane	PPBv	ND	07/19/05	TPH	1.0			
Cyclohexane	PPBv	ND	07/19/05	TPH	1.0			
1,2-Dibromoethane	PPBv	ND	07/19/05	TPH	1.0			
1,2-Dichlorobenzene	PPBv	ND	07/19/05	TPH	1.0			
1,3-Dichlorobenzene	PPBv	ND	07/19/05	TPH	1.0			
1,4-Dichlorobenzene	PPBv	ND	07/19/05	TPH	1.0			
Dichlorodifluoromethane	PPBv	ND	07/19/05	TPH	1.0			
1,1-Dichloroethane	PPBv	ND	07/19/05	TPH	1.0			
1,2-Dichloroethane	PPBv	ND	07/19/05	TPH	1.0			
1,1-Dichloroethylene	PPBv	ND	07/19/05	TPH	1.0			
cis-1,2-Dichloroethylene	PPBv	ND	07/19/05	TPH	1.0			
t-1,2-Dichloroethylene	PPBv	ND	07/19/05	TPH	1.0			
1,2-Dichloropropane	PPBv	ND	07/19/05	TPH	1.0			
cis-1,3-Dichloropropene	PPBv	ND	07/19/05	TPH	1.0			
trans-1,3-Dichloropropene	PPBv	ND	07/19/05	TPH	1.0			
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	07/19/05	TPH	1.0			
Ethanol	PPBv	ND	07/19/05	TPH	1.0			

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7/26/2005

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Project Location: SOUTH WEYMOUTH, MA.
Date Received: 7/13/2005
Field Sample # : SG-05

LIMS-BAT #: LIMS-90178
Job Number: NAV2002.SW

Sample ID : 05B28034

Sampled : 7/12/2005
SOIL GAS

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Ethyl Acetate	PPBv	ND	07/19/05	TPH	1.0			
Ethylbenzene	PPBv	ND	07/19/05	TPH	1.0			
4-Ethyl Toluene	PPBv	ND	07/19/05	TPH	1.0			
n-Heptane	PPBv	ND	07/19/05	TPH	1.0			
Hexachlorobutadiene	PPBv	ND	07/19/05	TPH	1.0			
Hexane	PPBv	ND	07/19/05	TPH	1.0			
2-Hexanone	PPBv	ND	07/19/05	TPH	1.0			
Isopropanol	PPBv	ND	07/19/05	TPH	1.0			
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	07/19/05	TPH	1.0			
Methylene Chloride	PPBv	ND	07/19/05	TPH	1.0			
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	07/19/05	TPH	1.0			
Propene	PPBv	ND	07/19/05	TPH	1.0			
Styrene	PPBv	ND	07/19/05	TPH	1.0			
1,1,2,2-Tetrachloroethane	PPBv	ND	07/19/05	TPH	1.0			
Tetrachloroethylene	PPBv	ND	07/19/05	TPH	1.0			
Tetrahydrofuran	PPBv	ND	07/19/05	TPH	1.0			
Toluene	PPBv	ND	07/19/05	TPH	1.0			
1,2,4-Trichlorobenzene	PPBv	ND	07/19/05	TPH	1.0			
1,1,1-Trichloroethane	PPBv	ND	07/19/05	TPH	1.0			
1,1,2-Trichloroethane	PPBv	ND	07/19/05	TPH	1.0			
Trichloroethylene	PPBv	ND	07/19/05	TPH	1.0			
Trichlorofluoromethane (Freon 11)	PPBv	ND	07/19/05	TPH	1.0			
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	07/19/05	TPH	1.0			
1,2,4-Trimethylbenzene	PPBv	ND	07/19/05	TPH	1.0			
1,3,5-Trimethylbenzene	PPBv	ND	07/19/05	TPH	1.0			
Vinyl Acetate	PPBv	ND	07/19/05	TPH	1.0			
Vinyl Chloride	PPBv	ND	07/19/05	TPH	1.0			
m/p-Xylene	PPBv	ND	07/19/05	TPH	1.0			
o-Xylene	PPBv	ND	07/19/05	TPH	1.0			

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Project Location: SOUTH WEYMOUTH, MA.
Date Received: 7/13/2005
Field Sample # : SG-05

LIMS-BAT #: LIMS-90178
Job Number: NAV2002.SW

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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7/26/2005

Purchase Order No.: S-CT-00271

Project Location: SOUTH WEYMOUTH, MA.
Date Received: 7/13/2005
Field Sample # : SG-11

LIMS-BAT #: LIMS-90178
Job Number: NAV2002.SW

Sample ID : 05B28036

Sampled : 7/12/2005
SOIL GAS

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	PPBv	19.4	07/19/05	TPH	1.0			
Benzene	PPBv	1.3	07/19/05	TPH	1.0			
Benzyl Chloride	PPBv	ND	07/19/05	TPH	1.0			
Bromodichloromethane	PPBv	ND	07/19/05	TPH	1.0			
Bromomethane	PPBv	ND	07/19/05	TPH	1.0			
1,3-Butadiene	PPBv	ND	07/19/05	TPH	1.0			
2-Butanone (MEK)	PPBv	5.2	07/19/05	TPH	1.0			
Carbon Disulfide	PPBv	7.8	07/19/05	TPH	1.0			
Carbon Tetrachloride	PPBv	ND	07/19/05	TPH	1.0			
Chlorobenzene	PPBv	ND	07/19/05	TPH	1.0			
Chlorodibromomethane	PPBv	ND	07/19/05	TPH	1.0			
Chloroethane	PPBv	ND	07/19/05	TPH	1.0			
Chloroform	PPBv	ND	07/19/05	TPH	1.0			
Chloromethane	PPBv	ND	07/19/05	TPH	1.0			
Cyclohexane	PPBv	ND	07/19/05	TPH	1.0			
1,2-Dibromoethane	PPBv	ND	07/19/05	TPH	1.0			
1,2-Dichlorobenzene	PPBv	ND	07/19/05	TPH	1.0			
1,3-Dichlorobenzene	PPBv	ND	07/19/05	TPH	1.0			
1,4-Dichlorobenzene	PPBv	ND	07/19/05	TPH	1.0			
Dichlorodifluoromethane	PPBv	ND	07/19/05	TPH	1.0			
1,1-Dichloroethane	PPBv	ND	07/19/05	TPH	1.0			
1,2-Dichloroethane	PPBv	ND	07/19/05	TPH	1.0			
1,1-Dichloroethylene	PPBv	ND	07/19/05	TPH	1.0			
cis-1,2-Dichloroethylene	PPBv	ND	07/19/05	TPH	1.0			
t-1,2-Dichloroethylene	PPBv	ND	07/19/05	TPH	1.0			
1,2-Dichloropropane	PPBv	ND	07/19/05	TPH	1.0			
cis-1,3-Dichloropropene	PPBv	ND	07/19/05	TPH	1.0			
trans-1,3-Dichloropropene	PPBv	ND	07/19/05	TPH	1.0			
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	07/19/05	TPH	1.0			
Ethanol	PPBv	4.3	07/19/05	TPH	1.0			

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Purchase Order No.: S-CT-00271

Project Location: SOUTH WEYMOUTH, MA.
Date Received: 7/13/2005
Field Sample # : SG-11

LIMS-BAT #: LIMS-90178
Job Number: NAV2002.SW

Sample ID : 05B28036
Sampled : 7/12/2005
SOIL GAS
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Ethyl Acetate	PPBv	ND	07/19/05	TPH	1.0			
Ethylbenzene	PPBv	ND	07/19/05	TPH	1.0			
4-Ethyl Toluene	PPBv	ND	07/19/05	TPH	1.0			
n-Heptane	PPBv	ND	07/19/05	TPH	1.0			
Hexachlorobutadiene	PPBv	ND	07/19/05	TPH	1.0			
Hexane	PPBv	2.9	07/19/05	TPH	1.0			
2-Hexanone	PPBv	ND	07/19/05	TPH	1.0			
Isopropanol	PPBv	1.8	07/19/05	TPH	1.0			
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	07/19/05	TPH	1.0			
Methylene Chloride	PPBv	3.0	07/19/05	TPH	1.0			
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	07/19/05	TPH	1.0			
Propene	PPBv	11.6	07/19/05	TPH	1.0			
Styrene	PPBv	ND	07/19/05	TPH	1.0			
1,1,2,2-Tetrachloroethane	PPBv	ND	07/19/05	TPH	1.0			
Tetrachloroethylene	PPBv	ND	07/19/05	TPH	1.0			
Tetrahydrofuran	PPBv	ND	07/19/05	TPH	1.0			
Toluene	PPBv	1.4	07/19/05	TPH	1.0			
1,2,4-Trichlorobenzene	PPBv	ND	07/19/05	TPH	1.0			
1,1,1-Trichloroethane	PPBv	ND	07/19/05	TPH	1.0			
1,1,2-Trichloroethane	PPBv	ND	07/19/05	TPH	1.0			
Trichloroethylene	PPBv	ND	07/19/05	TPH	1.0			
Trichlorofluoromethane (Freon 11)	PPBv	ND	07/19/05	TPH	1.0			
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	07/19/05	TPH	1.0			
1,2,4-Trimethylbenzene	PPBv	ND	07/19/05	TPH	1.0			
1,3,5-Trimethylbenzene	PPBv	ND	07/19/05	TPH	1.0			
Vinyl Acetate	PPBv	ND	07/19/05	TPH	1.0			
Vinyl Chloride	PPBv	ND	07/19/05	TPH	1.0			
m/p-Xylene	PPBv	ND	07/19/05	TPH	1.0			
o-Xylene	PPBv	ND	07/19/05	TPH	1.0			

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7/26/2005

Purchase Order No.: S-CT-00271

Project Location: SOUTH WEYMOUTH, MA.
Date Received: 7/13/2005
Field Sample # : SG-11

LIMS-BAT #: LIMS-90178
Job Number: NAV2002.SW

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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7/26/2005

Purchase Order No.: S-CT-00271

Project Location: SOUTH WEYMOUTH, MA.
Date Received: 7/13/2005
Field Sample # : SG-12

LIMS-BAT #: LIMS-90178
Job Number: NAV2002.SW

Sample ID : 05B28037
Sampled : 7/12/2005
SOIL GAS
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	PPBv	10.5	07/19/05	TPH	1.0			
Benzene	PPBv	ND	07/19/05	TPH	1.0			
Benzyl Chloride	PPBv	ND	07/19/05	TPH	1.0			
Bromodichloromethane	PPBv	ND	07/19/05	TPH	1.0			
Bromomethane	PPBv	ND	07/19/05	TPH	1.0			
1,3-Butadiene	PPBv	ND	07/19/05	TPH	1.0			
2-Butanone (MEK)	PPBv	ND	07/19/05	TPH	1.0			
Carbon Disulfide	PPBv	ND	07/19/05	TPH	1.0			
Carbon Tetrachloride	PPBv	ND	07/19/05	TPH	1.0			
Chlorobenzene	PPBv	ND	07/19/05	TPH	1.0			
Chlorodibromomethane	PPBv	ND	07/19/05	TPH	1.0			
Chloroethane	PPBv	ND	07/19/05	TPH	1.0			
Chloroform	PPBv	ND	07/19/05	TPH	1.0			
Chloromethane	PPBv	ND	07/19/05	TPH	1.0			
Cyclohexane	PPBv	ND	07/19/05	TPH	1.0			
1,2-Dibromoethane	PPBv	ND	07/19/05	TPH	1.0			
1,2-Dichlorobenzene	PPBv	ND	07/19/05	TPH	1.0			
1,3-Dichlorobenzene	PPBv	ND	07/19/05	TPH	1.0			
1,4-Dichlorobenzene	PPBv	ND	07/19/05	TPH	1.0			
Dichlorodifluoromethane	PPBv	ND	07/19/05	TPH	1.0			
1,1-Dichloroethane	PPBv	ND	07/19/05	TPH	1.0			
1,2-Dichloroethane	PPBv	ND	07/19/05	TPH	1.0			
1,1-Dichloroethylene	PPBv	ND	07/19/05	TPH	1.0			
cis-1,2-Dichloroethylene	PPBv	ND	07/19/05	TPH	1.0			
t-1,2-Dichloroethylene	PPBv	ND	07/19/05	TPH	1.0			
1,2-Dichloropropane	PPBv	ND	07/19/05	TPH	1.0			
cis-1,3-Dichloropropene	PPBv	ND	07/19/05	TPH	1.0			
trans-1,3-Dichloropropene	PPBv	ND	07/19/05	TPH	1.0			
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	07/19/05	TPH	1.0			
Ethanol	PPBv	ND	07/19/05	TPH	1.0			

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Field Sample # : SG-12

LIMS-BAT #: LIMS-90178
Job Number: NAV2002.SW

Sample ID : 05B28037

Sampled : 7/12/2005
SOIL GAS

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Ethyl Acetate	PPBv	ND	07/19/05	TPH	1.0			
Ethylbenzene	PPBv	ND	07/19/05	TPH	1.0			
4-Ethyl Toluene	PPBv	2.0	07/19/05	TPH	1.0			
n-Heptane	PPBv	ND	07/19/05	TPH	1.0			
Hexachlorobutadiene	PPBv	ND	07/19/05	TPH	1.0			
Hexane	PPBv	1.6	07/19/05	TPH	1.0			
2-Hexanone	PPBv	ND	07/19/05	TPH	1.0			
Isopropanol	PPBv	ND	07/19/05	TPH	1.0			
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	07/19/05	TPH	1.0			
Methylene Chloride	PPBv	ND	07/19/05	TPH	1.0			
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	07/19/05	TPH	1.0			
Propene	PPBv	ND	07/19/05	TPH	1.0			
Styrene	PPBv	ND	07/19/05	TPH	1.0			
1,1,2,2-Tetrachloroethane	PPBv	ND	07/19/05	TPH	1.0			
Tetrachloroethylene	PPBv	ND	07/19/05	TPH	1.0			
Tetrahydrofuran	PPBv	ND	07/19/05	TPH	1.0			
Toluene	PPBv	1.1	07/19/05	TPH	1.0			
1,2,4-Trichlorobenzene	PPBv	ND	07/19/05	TPH	1.0			
1,1,1-Trichloroethane	PPBv	ND	07/19/05	TPH	1.0			
1,1,2-Trichloroethane	PPBv	ND	07/19/05	TPH	1.0			
Trichloroethylene	PPBv	ND	07/19/05	TPH	1.0			
Trichlorofluoromethane (Freon 11)	PPBv	ND	07/19/05	TPH	1.0			
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	07/19/05	TPH	1.0			
1,2,4-Trimethylbenzene	PPBv	ND	07/19/05	TPH	1.0			
1,3,5-Trimethylbenzene	PPBv	ND	07/19/05	TPH	1.0			
Vinyl Acetate	PPBv	ND	07/19/05	TPH	1.0			
Vinyl Chloride	PPBv	ND	07/19/05	TPH	1.0			
m/p-Xylene	PPBv	ND	07/19/05	TPH	1.0			
o-Xylene	PPBv	ND	07/19/05	TPH	1.0			

RL = Reporting Limit

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NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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ANALYTICAL LABORATORY

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TOM CHAPMAN
HRP ASSOCIATES, INC. (PRIVATE)
167 NEW BRITAIN AVENUE
PLAINVILLE, CT 06002

7/26/2005

Purchase Order No.: S-CT-00271

Project Location: SOUTH WEYMOUTH, MA.
Date Received: 7/13/2005
Field Sample # : SG-12

LIMS-BAT #: LIMS-90178
Job Number: NAV2002.SW

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit
ND = Not Detected
NM = Not Measured
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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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7/26/2005

Purchase Order No.: S-CT-00271

Project Location: SOUTH WEYMOUTH, MA.
Date Received: 7/13/2005
Field Sample # : SG-05

LIMS-BAT #: LIMS-90178
Job Number: NAV2002.SW

Sample ID : 05B28034
Sampled : 7/12/2005
SOIL GAS
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	ug/m3	ND	07/19/05	TPH	2.4			
Benzene	ug/m3	ND	07/19/05	TPH	3.2			
Benzyl Chloride	ug/m3	ND	07/19/05	TPH	5.2			
Bromodichloromethane	ug/m3	ND	07/19/05	TPH	6.8			
Bromomethane	ug/m3	ND	07/19/05	TPH	3.9			
1,3-Butadiene	ug/m3	ND	07/19/05	TPH	2.2			
2-Butanone (MEK)	ug/m3	ND	07/19/05	TPH	3.0			
Carbon Disulfide	ug/m3	ND	07/19/05	TPH	3.2			
Carbon Tetrachloride	ug/m3	ND	07/19/05	TPH	6.2			
Chlorobenzene	ug/m3	ND	07/19/05	TPH	4.6			
Chlorodibromomethane	ug/m3	ND	07/19/05	TPH	8.6			
Chloroethane	ug/m3	ND	07/19/05	TPH	2.6			
Chloroform	ug/m3	ND	07/19/05	TPH	4.9			
Chloromethane	ug/m3	ND	07/19/05	TPH	2.1			
Cyclohexane	ug/m3	ND	07/19/05	TPH	3.4			
1,2-Dibromoethane	ug/m3	ND	07/19/05	TPH	7.7			
1,2-Dichlorobenzene	ug/m3	ND	07/19/05	TPH	6.0			
1,3-Dichlorobenzene	ug/m3	ND	07/19/05	TPH	6.0			
1,4-Dichlorobenzene	ug/m3	ND	07/19/05	TPH	6.0			
Dichlorodifluoromethane	ug/m3	ND	07/19/05	TPH	4.9			
1,1-Dichloroethane	ug/m3	ND	07/19/05	TPH	4.0			
1,2-Dichloroethane	ug/m3	ND	07/19/05	TPH	4.0			
1,1-Dichloroethylene	ug/m3	ND	07/19/05	TPH	4.0			
cis-1,2-Dichloroethylene	ug/m3	ND	07/19/05	TPH	4.0			
t-1,2-Dichloroethylene	ug/m3	ND	07/19/05	TPH	4.0			
1,2-Dichloropropane	ug/m3	ND	07/19/05	TPH	4.6			
cis-1,3-Dichloropropene	ug/m3	ND	07/19/05	TPH	4.5			
trans-1,3-Dichloropropene	ug/m3	ND	07/19/05	TPH	4.5			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	07/19/05	TPH	7.0			
Ethanol	ug/m3	ND	07/19/05	TPH	1.8			

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PLAINVILLE, CT 06002

7/26/2005

Purchase Order No.: S-CT-00271

Project Location: SOUTH WEYMOUTH, MA.
Date Received: 7/13/2005
Field Sample # : SG-05

LIMS-BAT #: LIMS-90178
Job Number: NAV2002.SW

Sample ID : 05B28034
Sampled : 7/12/2005
SOIL GAS
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Ethyl Acetate	ug/m3	ND	07/19/05	TPH	3.6			
Ethylbenzene	ug/m3	ND	07/19/05	TPH	4.3			
4-Ethyl Toluene	ug/m3	ND	07/19/05	TPH	5.0			
n-Heptane	ug/m3	ND	07/19/05	TPH	4.0			
Hexachlorobutadiene	ug/m3	ND	07/19/05	TPH	10.7			
Hexane	ug/m3	ND	07/19/05	TPH	3.6			
2-Hexanone	ug/m3	ND	07/19/05	TPH	4.0			
Isopropanol	ug/m3	ND	07/19/05	TPH	2.4			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	07/19/05	TPH	3.6			
Methylene Chloride	ug/m3	ND	07/19/05	TPH	3.5			
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	07/19/05	TPH	4.0			
Propene	ug/m3	ND	07/19/05	TPH	1.8			
Styrene	ug/m3	ND	07/19/05	TPH	4.3			
1,1,2,2-Tetrachloroethane	ug/m3	ND	07/19/05	TPH	6.9			
Tetrachloroethylene	ug/m3	ND	07/19/05	TPH	6.8			
Tetrahydrofuran	ug/m3	ND	07/19/05	TPH	3.0			
Toluene	ug/m3	ND	07/19/05	TPH	3.8			
1,2,4-Trichlorobenzene	ug/m3	ND	07/19/05	TPH	7.4			
1,1,1-Trichloroethane	ug/m3	ND	07/19/05	TPH	5.5			
1,1,2-Trichloroethane	ug/m3	ND	07/19/05	TPH	5.5			
Trichloroethylene	ug/m3	ND	07/19/05	TPH	5.4			
Trichlorofluoromethane	ug/m3	ND	07/19/05	TPH	5.6			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	07/19/05	TPH	7.7			
1,2,4-Trimethylbenzene	ug/m3	ND	07/19/05	TPH	4.9			
1,3,5-Trimethylbenzene	ug/m3	ND	07/19/05	TPH	4.9			
Vinyl Acetate	ug/m3	ND	07/19/05	TPH	3.6			
Vinyl Chloride	ug/m3	ND	07/19/05	TPH	2.6			
m/p-Xylene	ug/m3	ND	07/19/05	TPH	4.3			
o-Xylene	ug/m3	ND	07/19/05	TPH	4.3			

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7/26/2005

Purchase Order No.: S-CT-00271

Project Location: SOUTH WEYMOUTH, MA.
Date Received: 7/13/2005
Field Sample # : SG-05

LIMS-BAT #: LIMS-90178
Job Number: NAV2002.SW

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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7/26/2005

Purchase Order No.: S-CT-00271

Project Location: SOUTH WEYMOUTH, MA.
Date Received: 7/13/2005
Field Sample # : SG-11

LIMS-BAT #: LIMS-90178
Job Number: NAV2002.SW

Sample ID : 05B28036
Sampled : 7/12/2005
SOIL GAS
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	ug/m3	46.2	07/19/05	TPH	2.4			
Benzene	ug/m3	4.2	07/19/05	TPH	3.2			
Benzyl Chloride	ug/m3	ND	07/19/05	TPH	5.2			
Bromodichloromethane	ug/m3	ND	07/19/05	TPH	6.8			
Bromomethane	ug/m3	ND	07/19/05	TPH	3.9			
1,3-Butadiene	ug/m3	ND	07/19/05	TPH	2.2			
2-Butanone (MEK)	ug/m3	15.3	07/19/05	TPH	3.0			
Carbon Disulfide	ug/m3	24.3	07/19/05	TPH	3.2			
Carbon Tetrachloride	ug/m3	ND	07/19/05	TPH	6.2			
Chlorobenzene	ug/m3	ND	07/19/05	TPH	4.6			
Chlorodibromomethane	ug/m3	ND	07/19/05	TPH	8.6			
Chloroethane	ug/m3	ND	07/19/05	TPH	2.6			
Chloroform	ug/m3	ND	07/19/05	TPH	4.9			
Chloromethane	ug/m3	ND	07/19/05	TPH	2.1			
Cyclohexane	ug/m3	ND	07/19/05	TPH	3.4			
1,2-Dibromoethane	ug/m3	ND	07/19/05	TPH	7.7			
1,2-Dichlorobenzene	ug/m3	ND	07/19/05	TPH	6.0			
1,3-Dichlorobenzene	ug/m3	ND	07/19/05	TPH	6.0			
1,4-Dichlorobenzene	ug/m3	ND	07/19/05	TPH	6.0			
Dichlorodifluoromethane	ug/m3	ND	07/19/05	TPH	4.9			
1,1-Dichloroethane	ug/m3	ND	07/19/05	TPH	4.0			
1,2-Dichloroethane	ug/m3	ND	07/19/05	TPH	4.0			
1,1-Dichloroethylene	ug/m3	ND	07/19/05	TPH	4.0			
cis-1,2-Dichloroethylene	ug/m3	ND	07/19/05	TPH	4.0			
t-1,2-Dichloroethylene	ug/m3	ND	07/19/05	TPH	4.0			
1,2-Dichloropropane	ug/m3	ND	07/19/05	TPH	4.6			
cis-1,3-Dichloropropene	ug/m3	ND	07/19/05	TPH	4.5			
trans-1,3-Dichloropropene	ug/m3	ND	07/19/05	TPH	4.5			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	07/19/05	TPH	7.0			
Ethanol	ug/m3	8.1	07/19/05	TPH	1.8			

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PLAINVILLE, CT 06002

7/26/2005

Purchase Order No.: S-CT-00271

Project Location: SOUTH WEYMOUTH, MA.
Date Received: 7/13/2005
Field Sample # : SG-11

LIMS-BAT #: LIMS-90178
Job Number: NAV2002.SW

Sample ID : 05B28036

Sampled : 7/12/2005
SOIL GAS
Sample Medium : SUMMA

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Ethyl Acetate	ug/m3	ND	07/19/05	TPH	3.6			
Ethylbenzene	ug/m3	ND	07/19/05	TPH	4.3			
4-Ethyl Toluene	ug/m3	ND	07/19/05	TPH	5.0			
n-Heptane	ug/m3	ND	07/19/05	TPH	4.0			
Hexachlorobutadiene	ug/m3	ND	07/19/05	TPH	10.7			
Hexane	ug/m3	10.4	07/19/05	TPH	3.6			
2-Hexanone	ug/m3	ND	07/19/05	TPH	4.0			
Isopropanol	ug/m3	4.4	07/19/05	TPH	2.4			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	07/19/05	TPH	3.6			
Methylene Chloride	ug/m3	10.6	07/19/05	TPH	3.5			
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	07/19/05	TPH	4.0			
Propene	ug/m3	19.9	07/19/05	TPH	1.8			
Styrene	ug/m3	ND	07/19/05	TPH	4.3			
1,1,2,2-Tetrachloroethane	ug/m3	ND	07/19/05	TPH	6.9			
Tetrachloroethylene	ug/m3	ND	07/19/05	TPH	6.8			
Tetrahydrofuran	ug/m3	ND	07/19/05	TPH	3.0			
Toluene	ug/m3	5.3	07/19/05	TPH	3.8			
1,2,4-Trichlorobenzene	ug/m3	ND	07/19/05	TPH	7.4			
1,1,1-Trichloroethane	ug/m3	ND	07/19/05	TPH	5.5			
1,1,2-Trichloroethane	ug/m3	ND	07/19/05	TPH	5.5			
Trichloroethylene	ug/m3	ND	07/19/05	TPH	5.4			
Trichlorofluoromethane	ug/m3	ND	07/19/05	TPH	5.6			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	07/19/05	TPH	7.7			
1,2,4-Trimethylbenzene	ug/m3	ND	07/19/05	TPH	4.9			
1,3,5-Trimethylbenzene	ug/m3	ND	07/19/05	TPH	4.9			
Vinyl Acetate	ug/m3	ND	07/19/05	TPH	3.6			
Vinyl Chloride	ug/m3	ND	07/19/05	TPH	2.6			
m/p-Xylene	ug/m3	ND	07/19/05	TPH	4.3			
o-Xylene	ug/m3	ND	07/19/05	TPH	4.3			

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7/26/2005

Purchase Order No.: S-CT-00271

Project Location: SOUTH WEYMOUTH, MA.
Date Received: 7/13/2005
Field Sample # : SG-11

LIMS-BAT #: LIMS-90178
Job Number: NAV2002.SW

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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PLAINVILLE, CT 06002

7/26/2005

Purchase Order No.: S-CT-00271

Project Location: SOUTH WEYMOUTH, MA.
Date Received: 7/13/2005
Field Sample # : SG-12

LIMS-BAT #: LIMS-90178
Job Number: NAV2002.SW

Sample ID : 05B28037

Sampled : 7/12/2005
SOIL GAS
Sample Medium : SUMMA

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	ug/m3	24.9	07/19/05	TPH	2.4			
Benzene	ug/m3	ND	07/19/05	TPH	3.2			
Benzyl Chloride	ug/m3	ND	07/19/05	TPH	5.2			
Bromodichloromethane	ug/m3	ND	07/19/05	TPH	6.8			
Bromomethane	ug/m3	ND	07/19/05	TPH	3.9			
1,3-Butadiene	ug/m3	ND	07/19/05	TPH	2.2			
2-Butanone (MEK)	ug/m3	ND	07/19/05	TPH	3.0			
Carbon Disulfide	ug/m3	ND	07/19/05	TPH	3.2			
Carbon Tetrachloride	ug/m3	ND	07/19/05	TPH	6.2			
Chlorobenzene	ug/m3	ND	07/19/05	TPH	4.6			
Chlorodibromomethane	ug/m3	ND	07/19/05	TPH	8.6			
Chloroethane	ug/m3	ND	07/19/05	TPH	2.6			
Chloroform	ug/m3	ND	07/19/05	TPH	4.9			
Chloromethane	ug/m3	ND	07/19/05	TPH	2.1			
Cyclohexane	ug/m3	ND	07/19/05	TPH	3.4			
1,2-Dibromoethane	ug/m3	ND	07/19/05	TPH	7.7			
1,2-Dichlorobenzene	ug/m3	ND	07/19/05	TPH	6.0			
1,3-Dichlorobenzene	ug/m3	ND	07/19/05	TPH	6.0			
1,4-Dichlorobenzene	ug/m3	ND	07/19/05	TPH	6.0			
Dichlorodifluoromethane	ug/m3	ND	07/19/05	TPH	4.9			
1,1-Dichloroethane	ug/m3	ND	07/19/05	TPH	4.0			
1,2-Dichloroethane	ug/m3	ND	07/19/05	TPH	4.0			
1,1-Dichloroethylene	ug/m3	ND	07/19/05	TPH	4.0			
cis-1,2-Dichloroethylene	ug/m3	ND	07/19/05	TPH	4.0			
t-1,2-Dichloroethylene	ug/m3	ND	07/19/05	TPH	4.0			
1,2-Dichloropropane	ug/m3	ND	07/19/05	TPH	4.6			
cis-1,3-Dichloropropene	ug/m3	ND	07/19/05	TPH	4.5			
trans-1,3-Dichloropropene	ug/m3	ND	07/19/05	TPH	4.5			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	07/19/05	TPH	7.0			
Ethanol	ug/m3	ND	07/19/05	TPH	1.8			

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7/26/2005

Purchase Order No.: S-CT-00271

Project Location: SOUTH WEYMOUTH, MA.
Date Received: 7/13/2005
Field Sample # : SG-12

LIMS-BAT #: LIMS-90178
Job Number: NAV2002.SW

Sample ID : 05B28037

Sampled : 7/12/2005
SOIL GAS

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Ethyl Acetate	ug/m3	ND	07/19/05	TPH	3.6			
Ethylbenzene	ug/m3	ND	07/19/05	TPH	4.3			
4-Ethyl Toluene	ug/m3	9.7	07/19/05	TPH	5.0			
n-Heptane	ug/m3	ND	07/19/05	TPH	4.0			
Hexachlorobutadiene	ug/m3	ND	07/19/05	TPH	10.7			
Hexane	ug/m3	5.6	07/19/05	TPH	3.6			
2-Hexanone	ug/m3	ND	07/19/05	TPH	4.0			
Isopropanol	ug/m3	ND	07/19/05	TPH	2.4			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	07/19/05	TPH	3.6			
Methylene Chloride	ug/m3	ND	07/19/05	TPH	3.5			
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	07/19/05	TPH	4.0			
Propene	ug/m3	ND	07/19/05	TPH	1.8			
Styrene	ug/m3	ND	07/19/05	TPH	4.3			
1,1,2,2-Tetrachloroethane	ug/m3	ND	07/19/05	TPH	6.9			
Tetrachloroethylene	ug/m3	ND	07/19/05	TPH	6.8			
Tetrahydrofuran	ug/m3	ND	07/19/05	TPH	3.0			
Toluene	ug/m3	4.1	07/19/05	TPH	3.8			
1,2,4-Trichlorobenzene	ug/m3	ND	07/19/05	TPH	7.4			
1,1,1-Trichloroethane	ug/m3	ND	07/19/05	TPH	5.5			
1,1,2-Trichloroethane	ug/m3	ND	07/19/05	TPH	5.5			
Trichloroethylene	ug/m3	ND	07/19/05	TPH	5.4			
Trichlorofluoromethane	ug/m3	ND	07/19/05	TPH	5.6			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	07/19/05	TPH	7.7			
1,2,4-Trimethylbenzene	ug/m3	ND	07/19/05	TPH	4.9			
1,3,5-Trimethylbenzene	ug/m3	ND	07/19/05	TPH	4.9			
Vinyl Acetate	ug/m3	ND	07/19/05	TPH	3.6			
Vinyl Chloride	ug/m3	ND	07/19/05	TPH	2.6			
m/p-Xylene	ug/m3	ND	07/19/05	TPH	4.3			
o-Xylene	ug/m3	ND	07/19/05	TPH	4.3			

RL = Reporting Limit

ND = Not Detected

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample

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TOM CHAPMAN
HRP ASSOCIATES, INC. (PRIVATE)
167 NEW BRITAIN AVENUE
PLAINVILLE, CT 06002

7/26/2005

Purchase Order No.: S-CT-00271

Project Location: SOUTH WEYMOUTH, MA.
Date Received: 7/13/2005
Field Sample # : SG-12

LIMS-BAT #: LIMS-90178
Job Number: NAV2002.SW

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit
ND = Not Detected
NM = Not Measured
* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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7/26/2005

Purchase Order No.: S-CT-00271

Project Location: SOUTH WEYMOUTH, MA.
Date Received: 7/13/2005

LIMS-BAT #: LIMS-90178
Job Number: NAV2002.SW

** END OF REPORT **

RL = Reporting Limit

ND = Not Detected

NM = Not Measured

* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 7/26/2005 Lims Bat # : LIMS-90178

QC Batch Number: BATCH-9421

Sample Id	Analysis	QC Analysis	Values	Units	Limits
05B28034					
	4-Bromofluorobenzene	Surrogate Recovery	91.9	%	70-130
05B28036					
	4-Bromofluorobenzene	Surrogate Recovery	95.5	%	70-130
05B28037					
	4-Bromofluorobenzene	Surrogate Recovery	92.9	%	70-130
BLANK-76498					
	Acetone	Blank	1.3	ug/m3	
	Benzene	Blank	<1.6	ug/m3	
	Carbon Tetrachloride	Blank	<3.1	ug/m3	
	Chloroform	Blank	<2.4	ug/m3	
	1,2-Dichloroethane	Blank	<2.0	ug/m3	
	1,4-Dichlorobenzene	Blank	<3.0	ug/m3	
	Ethyl Acetate	Blank	<1.8	ug/m3	
	Ethylbenzene	Blank	<2.2	ug/m3	
	Hexane	Blank	<1.8	ug/m3	
	Isopropanol	Blank	<1.2	ug/m3	
	2-Butanone (MEK)	Blank	<1.5	ug/m3	
	4-Methyl-2-Pentanone (MIBK)	Blank	<2.0	ug/m3	
	Styrene	Blank	<2.1	ug/m3	
	Tetrachloroethylene	Blank	<3.4	ug/m3	
	Toluene	Blank	<1.9	ug/m3	
	1,1,1-Trichloroethane	Blank	<2.7	ug/m3	
	Trichloroethylene	Blank	<2.7	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<3.8	ug/m3	
	Trichlorofluoromethane	Blank	<2.8	ug/m3	
	o-Xylene	Blank	<2.2	ug/m3	
	m/p-Xylene	Blank	<2.2	ug/m3	
	1,2-Dichlorobenzene	Blank	<3.0	ug/m3	
	1,3-Dichlorobenzene	Blank	<3.0	ug/m3	
	1,1-Dichloroethane	Blank	<2.0	ug/m3	
	1,1-Dichloroethylene	Blank	<2.0	ug/m3	
	Ethanol	Blank	<0.9	ug/m3	
	4-Ethyl Toluene	Blank	<2.5	ug/m3	
	Methyl tert-Butyl Ether (MTBE)	Blank	<1.8	ug/m3	
	t-1,2-Dichloroethylene	Blank	<2.0	ug/m3	
	Vinyl Chloride	Blank	<1.3	ug/m3	
	Methylene Chloride	Blank	<1.7	ug/m3	
	Chlorobenzene	Blank	<2.3	ug/m3	
	Chloromethane	Blank	<1.0	ug/m3	
	Bromomethane	Blank	<1.9	ug/m3	
	Chloroethane	Blank	<1.3	ug/m3	
	cis-1,3-Dichloropropene	Blank	<2.3	ug/m3	
	trans-1,3-Dichloropropene	Blank	<2.3	ug/m3	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 7/26/2005 Lims Bat # : LIMS-90178

QC Batch Number: BATCH-9421

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-76498					
	Chlorodibromomethane	Blank	<4.3	ug/m3	
	1,1,2-Trichloroethane	Blank	<2.7	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<3.4	ug/m3	
	Hexachlorobutadiene	Blank	<5.3	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<3.7	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<2.5	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<2.5	ug/m3	
	Cyclohexane	Blank	<1.7	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<2.0	ug/m3	
	1,2-Dichloropropane	Blank	<2.3	ug/m3	
	Dichlorodifluoromethane	Blank	<2.5	ug/m3	
	Benzyl Chloride	Blank	<2.6	ug/m3	
	Carbon Disulfide	Blank	<1.6	ug/m3	
	Vinyl Acetate	Blank	<1.8	ug/m3	
	2-Hexanone	Blank	<2.0	ug/m3	
	Bromodichloromethane	Blank	<3.4	ug/m3	
	1,2-Dibromoethane	Blank	<3.8	ug/m3	
	n-Heptane	Blank	<2.0	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<3.5	ug/m3	
	Tetrahydrofuran	Blank	<1.5	ug/m3	
	Propene	Blank	<0.9	ug/m3	
	1,3-Butadiene	Blank	<1.1	ug/m3	

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QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken though all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
STDADD	Standard Added (a laboratory control sample)
Matrix Spk Amt Added	Amount of analyte spiked into a sample
MS Amt Measured	Amount of analyte found including amount that was spiked
Matrix Spike % Rec.	% Recovery of spiked amount in sample.
Duplicate Value	The result from the Duplicate analysis of the sample.
Duplicate RPD	The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD)	Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID)	Surrogate Recovery on the Photoionization Detector.
Standard Measured	Amount measured for a laboratory control sample
Standard Amt Added	Known value for a laboratory control sample
Standard % Recovery	% recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt	Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found	Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec	Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt	Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd	Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec	Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range	Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt	Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added	Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured	Matrix Spike Duplicate Amount Measured
MSD % Recovery	Matrix Spike Duplicate % Recovery
MSD Range	Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries

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RESULTS FOR METHOD 3C

Lab ID Number: 05B28034
Client ID Number: SG-05

LIMS Number: 90178
Analyst: TPH
Date Analyzed: 7/20/05

Analyte:	Sample Results %	MDL %
Methane	ND	0.20
Carbon Dioxide	2.0	0.28

Gases sample analyzed by GC/TCD, method 3C(modified).
ND = Not Detected
MDL = Minimum Detectable Limit

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RESULTS FOR METHOD 3C

Lab ID Number: 05B28036
Client ID Number: SG-11

LIMS Number: 90178
Analyst: TPH
Date Analyzed: 7/20/05

Analyte:	Sample Results %	MDL %
Methane	ND	0.20
Carbon Dioxide	ND	0.28

Gases sample analyzed by GC/TCD, method 3C(modified).
ND = Not Detected
MDL = Minimum Detectable Limit

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RESULTS FOR METHOD 3C

Lab ID Number: 05B28037
Client ID Number: SG-12

LIMS Number: 90178
Analyst: TPH
Date Analyzed: 7/20/05

Analyte:	Sample Results %	MDL %
Methane	ND	0.20
Carbon Dioxide	0.29	0.28

Gases sample analyzed by GC/TCD, method 3C(modified).
ND = Not Detected
MDL = Minimum Detectable Limit

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Results for Method EPA 16

Lab ID Number: 05B28034
Client ID Number: SG-05

LIMS Number: 90178
Date Analyzed: 7/15/05
Analyst: WSD

Analyte:	Reporting Limits PPBv	Sample Results PPBv
Hydrogen Sulfide	100	ND
Methyl Mercaptan	100	ND
Carbon Disulfide	100	ND
Dimethyl Sulfide	100	ND
Dimethyl Disulfide	100	ND
Isopropyl Mercaptan	100	ND
Tert-butyl-Mercaptan	100	ND
n-propmerc/Et-Me-Sulfide	100	ND
Isobutyl-Mercaptan	100	ND
Diethyl Sulfide	100	ND
n-Butly-Mercaptan	100	ND
Dimethyl Disulfide	100	ND
Diethyl Disulfide	100	ND

Method: EPA 16 (modified)
Run by GC/FPD
Sampled in a Silco Canister.

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Results for Method EPA 16

Lab ID Number: 05B28037
Client ID Number: SG-12

LIMS Number: 90178
Date Analyzed: 7/15/05
Analyst: WSD

Analyte:	Reporting Limits	Sample Results
	PPBv	PPBv
Hydrogen Sulfide	100	ND
Methyl Mercaptan	100	ND
Carbon Disulfide	100	ND
Dimethyl Sulfide	100	ND
Dimethyl Disulfide	100	ND
Isopropyl Mercaptan	100	ND
Tert-butyl-Mercaptan	100	ND
n-propmerc/Et-Me-Sulfide	100	ND
Isobutyl-Mercaptan	100	ND
Diethyl Sulfide	100	ND
n-Butly-Mercaptan	100	ND
Dimethyl Disulfide	100	ND
Diethyl Disulfide	100	ND

Method: EPA 16 (modified)
Run by GC/FPD
Sampled in a Silco Canister.

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Results for Method EPA 16

Lab ID Number: 05B28036
Client ID Number: SG-11

LIMS Number: 90178
Date Analyzed: 7/15/05
Analyst: WSD

Analyte:	Reporting Limits	Sample Results
	PPBv	PPBv
Hydrogen Sulfide	100	ND
Methyl Mercaptan	100	ND
Carbon Disulfide	100	ND
Dimethyl Sulfide	100	ND
Dimethyl Disulfide	100	ND
Isopropyl Mercaptan	100	ND
Tert-butyl-Mercaptan	100	ND
n-propmerc/Et-Me-Sulfide	100	ND
Isobutyl-Mercaptan	100	ND
Diethyl Sulfide	100	ND
n-Butly-Mercaptan	100	ND
Dimethyl Disulfide	100	ND
Diethyl Disulfide	100	ND

Method: EPA 16 (modified)
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www.contestlabs.com

CHAIN OF CUSTODY RECORD

Lims# 90178

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

Company Name: HRP Associates
Address: 167 New Britain Ave. Plainville, CT 06062
Attention: Tom Chapman
Project Location: South Weymouth, MA
Sampled By: KG, DSC

Telephone: (860) 793-6899
Project # NAV2002.SW
Client PO # S-CT-00271

DATA DELIVERY (check one):
☒ FAX ☒ EMAIL ☐ WEBSITE CLIENT
Fax # :
Email:
Format: ☐ EXCEL ☐ PDF ☐ GIS KEY

Proposal Provided? (For Billing purposes) ☐ yes _____ proposal date

State Form Required? ☐ yes ☐ no

ANALYSIS REQUESTED

Field ID	Sample Description 05B	Lab # 05B	Date Sampled Start Date/Time	Date Sampled Stop Date/Time	Composite	Grab	*Matrix Code	EPA 3C (CO_2 + CH_4)	EPA 16	TO-15	# of containers	**Preservation	~Cont.Code
SG5	Soil Gas 28034	~~28031~~	7/12/05	10:15		X	A	X	X	X			S
SG-10	" 28035	~~28038~~	↓	11:09		X	↓	X	X	X			S
SG-11	" 28036	~~28036~~		10:58		X		X	X	X			S
SG-12	" 28037	~~28037~~		11:03		X		X	X	X			S

~Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

Comments:

Relinquished by: (signature) Thomas C. Chapman	Date/Time: 7/13/05	
Received by: (signature)	Date/Time: 7/13/05	
Relinquished by: (signature)	Date/Time: 7/13/05 5:45	
Received by: (signature)	Date/Time: 7/13/05 5:45	

Turnaround **
☐ *5-Day
☐ 7-Day
☐ 10-Day
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
* Require lab approval

Detection Limit Requirements
Regulations? _____
Data Enhancement Project? ☐ Y ☐ N
(MA MCP sites only)
Special Requirements or DL's: _____

***Matrix Code:**
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

****Preservation Codes:**
I = Iced
X = Na hydroxide
H = HCL
T = Na thiosulfate
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
O = Other_____

Turnaround time begins at 9:00 a.m. the day after sample receipt (unless received before 2:00 p.m.)

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