FINAL

LIMITED VAPOR INTRUSION INVESTIGATION

Cumberland Farms, Inc. Store No. 1836 - North Windham, Maine

Prepared for:

Maine Department of Environmental Protection Augusta, Maine

Prepared by:



MACTEC Engineering and Consulting, Inc. 511 Congress St. Portland, ME 04101

February 8, 2011

MACTEC PROJECT: 3612102157

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LIST OF ACRONYMS

APH AOC	Air Petroleum Hydrocarbons Area of Concern
bgs	below ground surface
CFI CSM	Cumberland Farms Incorporated Conceptual Site Model
DRO	Diesel Range Organics
ECS	Environmental Compliance Services, Inc.
GRO	Gasoline Range Organics
MACTEC MEDEP mg/kg	MACTEC Engineering and Consulting, Inc. Maine Department of Environmental Protection milligram per killogram
MGS	Maine Geological Services
PID ppm	photoionization detector parts per million
Site SOP	Cumberland Farms, Inc. North Windham Site (Store No. 1836) Standard Operating Procedure
SSQAPP	Site-Specific Quality Assurance Project Plan
μg/L UST USEPA	micrograms per liter underground storage tank United States Environmental Protection Agency
VI VOC	Vapor Intrusion volatile organic compound
VPH	Volatile Petroleum Hydrocarbons

1.0 INTRODUCTION/OBJECTIVES

The Maine Department of Environmental Protection (MEDEP) is evaluating the potential for vapor intrusion (VI) at gasoline stations in the State of Maine. As part of the evaluation, the MEDEP conducted investigations at a number of Cumberland Farms, Inc. (CFI) owned gasoline stations. MACTEC Engineering and Consulting, Inc. (MACTEC) has been contracted to conduct this Limited VI Investigation at the CFI North Windham Station under Contract Number 20100708-164, dated July 8, 2010, between the MEDEP and MACTEC. The purpose of the investigations was to evaluate the potential presence of residual soil and or groundwater contamination at the Site and, if present, the potential for it to result in vapor intrusion of contaminants into nearby buildings.

This VI investigation Report covers work conducted at the Cumberland Farms North Windham site (Site), located at 749 Roosevelt Trail, North Windham, Maine (Store No. 1836). This report consists of:

Section 1: Introduction/Objectives

Section 2: Site Background and Conceptual Site Model

Section 3: Methodologies

Section 4: Results

Section 5: Conclusions

Section 6: References

2.0 SITE BACKGROUND AND CONCEPTUAL SITE MODEL

A conceptual site model (CSM) includes an evaluation of potential source areas, potential contaminants of concern, potential migration and exposure pathways and potential receptors. The CSM is based on information developed as part of a Phase I Environmental Site Assessment conducted by MACTEC (MACTEC, 2010a).

Site Setting. The general topographic relief of the Site is minimal. The Site elevation is approximately 100 feet above mean sea level, with the immediate Site gradient remaining flat. The surrounding topography is flat.

The majority of the Site is covered by pavement and grass, promoting rain water to runoff to storm drains located on the property. These storm drains connect to town owned storm drains located on Roosevelt Trail. There were no apparent low areas located on the Site that would be expected to contain standing water during wet periods. No surface water bodies were observed or identified on, or within a quarter-mile radius of the Site.

The Site and surrounding area are serviced by public water supply. The Site is mapped as being above a significant sand and gravel aquifer (Maine Geological Survey [MGS], 1998). Groundwater flow is to the northeast, towards Little Sebago Lake. Groundwater at the Site was encountered at between 13 feet and 15 feet below ground surface (bgs).

Based on the Maine Geological Survey, North Windham Quadrangle (MGS, 1998) bedrock surface beneath the Site is anticipated to range between 37 feet and 54 feet below ground surface. Based on the bedrock mapping completed by Arthur M Hussey in 1987 and taken from the North Windham Quadrangle Bedrock Geologic Map of Maine from 1987 (MGS, 1997a), the bedrock formation beneath the Site is mapped as:

• Granitiod Rock; including two-mica granite, granodiorite, quartz diorite and granitic pegmatite.

Soils at the Site were described using the surficial geologic mapping conducted by Bolduc, Thompson and Meglioli 1997, and taken from the Surficial Geology of the North Windham Quadrangle, Maine from 1997 (MGS, 1997b). Site soil is mapped as: • A Glaciomarine Delta - Sand and gravel deposited in the sea at the glacier margin during marine submergence (i.e. deltas formed at the glacier margins). Locally overlies or is inter-stratified with the Presumpscot Formation.

Site Operational History. The Site has operated as a gasoline station since at least 1984. Site remediation occurred in 1996 and 2005 during product piping replacement and tank closure activities. In July 1996, CFI upgraded the product and vent piping, dispensers, submersible pumps and leak detection equipment at the Site (MEDEP, 1996). The steel piping was removed and found to be in excellent condition, but minor corrosion was observed on the above ground portion of the piping. Photoionization detector (PID) headspace readings collected from the stockpiled soil ranged from 112 parts per million (ppm) (from the bottom of the pipe trench between the dispensers) to 2,918 ppm (under the south dispenser). A soil sample was collected from six feet bgs below the south dispenser, and did not indicate characteristics of petroleum saturation. The MEDEP noted in Spill Report P-0456-1996 that there was contaminated soil above the MEDEP notification level. Mr. Nathan Thompson, MEDEP Response Services, issued a clean-up action of "... no remedial action is necessary at the Site" (MEDEP, 1996). In May 2005, Environmental Compliance Services, Inc. (ECS) conducted an Environmental Site Assessment (ECS, 2005). Four underground storage tanks (USTs) were removed from the Site, and a visual inspection of the single-walled fiberglass tanks was conducted. "All four tanks were found to be in very good condition. No perforations were observed during the inspection of the tanks". ECS observed some minor diesel contamination in the soil. Approximately 7.6 tons of contaminated soil was removed from the Site. The maximum PID reading was 91.25 ppm using MEDEP set points for diesel range organics (DRO). Confirmatory soil samples were collected from the excavation for off-Site analysis. Analysis of soil sample SS-10, located in the northwest corner of the UST excavation, detected gasoline range organics (GRO) at 4.2 milligrams per kilogram (mg/kg). GRO was not detected above the laboratory method detection limit in other on-Site soil samples collected.

There are several sites with documented environmental conditions located in close proximity to the Site (i.e. within 500 feet). Many of these properties are noted as being at potential up-gradient or cross-gradient locations. It is unknown if releases at these properties (primarily petroleum products) has impacted the Site groundwater or vapor conditions. These properties include reported leaking USTs at gasoline stations and commercial businesses (one approximately 350 feet upgradient).

As a result of the geologic setting of the Site and information concerning past operations at the property, a conceptual model of the Site with the following considerations was developed:

- Based on previous excavations and current borings, shallow overburden consist of fill material composed of medium coarse sand, miscellaneous building debris and pea stone to a depth of approximately 11 feet below ground surface. The Site is located on a mapped significant sand and gravel aquifer. Bedrock is anticipated between 37 feet and 54 feet below ground surface.
- Groundwater at the Site was encountered between 13 and 15 feet below ground surface, and is interpreted to flow towards the northeast.
- Operations at the Site and vicinity included the use of gasoline products from (at a minimum) 1984 to the present.

Potential Source Areas of Concern (AOCs) and Contaminants of Concern. The Phase I identified three Recognized Environmental Conditions (RECs) at the Site; 1) the potential presence of petroleum products in site media resulting from the current USTs and product piping lines, or spills to the ground surface; 2) residual contamination potentially remaining at the historic USTs and product piping lines; and 3) potential for contamination from an adjacent gasoline stations. Based on these RECs, MACTEC identified two potential AOCs at the Site:

AOC 1 – Potential Contamination from UST Replacement. Based on available information the historic USTs that were removed were located approximately 20 feet southwest from the current UST location. During the 2005 UST replacement, soil collected from the excavation contained GRO at a concentration of 4.2 milligrams per kilogram.

AOC 2 – Potential Contamination from Product Piping Line Replacement. The product piping lines were replaced 1996. During the line replacement, PID headspace readings were collected from the stockpiled soil and ranged from 112 ppm (from the bottom of the pipe trench between the dispensers) to 2,918 ppm (under the south dispenser).

Potential Migration Pathways. Potential migration paths at the Site include:

1. Petroleum related contaminants remaining in subsurface soils from historic product piping lines and USTs may have impacted groundwater under the Site. Volatile organic contaminants in groundwater that partition to soil vapor may migrate via the vadose zone to overlying buildings. Pathways for entry into buildings include utility trenches and migration through the building sub-slab backfill material.

2. If volatile organic compounds (VOCs) are present in Site soil and groundwater from the past use of fuels and or solvents, these contaminants could also migrate via the vadose zone as soil vapor to overlying buildings.

Potential Exposure Pathways. Potential exposure pathways include inhalation of soil vapor and indoor air, ingestion/dermal contact of soil, and/or ingestion of and dermal contact with groundwater.

Potential Receptors. Potential receptors include future site workers who might come in contact with soil, groundwater and soil vapor, and customers and adjacent residents that inhale indoor air if contaminated. The area is serviced by public water and although ingestion of groundwater is unlikely, it has been included as a potential future exposure route.

3.0 METHODOLOGIES

To evaluate the potential migration pathways and exposure routes identified in the CSM, a limited VI field investigation was conducted. The field work was conducted in accordance with the standard operating procedures (SOPs) listed in the Site-Specific Quality Assurance Project Plan (SSQAPP) (MACTEC, 2010b).

The field program was designed to evaluate the potential for vapor intrusion as a result of residual contamination at the two identified AOCs. Sample locations are shown on Figure 3.1. The field work consisted of the following items:

- Completion of six direct push (Geoprobe) soil borings (some completed as microwells);
- Installation of five microwells;
- Collection of five groundwater samples;
- Installation of four soil vapor implants; and
- Collection of one sub-slab soil vapor sample from inside the facility.

Geoprobe Soil Sampling. Continuous soil samples were collected at six locations using direct push methods to characterize subsurface soils at potential source areas, as well as at microwell locations. Soil characteristics (such as soil type, moisture, color) and PID field screening results were recorded on a field data record (included in Appendix A). Potential for historic soil contamination was located at the fuel dispensers and the USTs. Given the location of underground utilities, borings were completed as close to the potential source areas as deemed safe. Due to the lack of observable petroleum, and the lack of PID readings above background above the water table, soil samples were not collected from the Site.

Geoprobe Microwell Installation. Upon the completion of soil sampling, five groundwater microwells were installed in the direct push soil borings (Figure 3.1). The objective of the microwell locations were to provide triangulation for estimating groundwater flow direction and gradient and to investigate shallow groundwater conditions in the source and outside the source areas. Drilling observations and microwell diagrams were recorded on field data records (included in Appendix A). Microwell locations are shown on Figure 3.1. Water levels are reported in Table 3.1.

Geoprobe Groundwater Sampling. Upon the completion of the microwell installations, five groundwater samples were collected through tubing installed to the top of the water table. Groundwater samples were submitted to an off-site laboratory for MA Volatile Petroleum Hydrocarbons (VPH) analysis. One groundwater sample in the vicinity of the septic tank was also submitted for VOC analysis by United States Environmental Protection Agency (USEPA) Method 8260. Upon completion of sampling, one round of water level elevation measurments was collected.

Soil Vapor Sampling Implants. Soil vapor samples were collected at four exterior locations to determine the vertical and lateral extent of soil vapor contamination and to evaluate the potential for vapor intrusion into nearby buildings. Soil vapor implants were installed in the following locations: two locations adjacent to the potential soil source areas (SV-02 at AOC 1 and SV-01 at AOC 2); one location approximately 20 feet from AOC 1 and 20 feet from AOC 2 (SV-05); and, one location within an underground utility trench using a hand screw auger (SV-03). With the exception of the soil vapor implants installed in the utility trenches, the implants were installed approximately two feet above the groundwater table (the water table was encountered at approximately 13 feet bgs). SV-03 was installed at approximately 4 feet bgs. Helium leak tests were conducted during sampling to evaluate the integrity of the vapor implant surface seal. Leaks greater than 2 % were not noted (10% to 20% leaks are acceptable in some states). In addition, similar concentrations of carbon dioxide and oxygen were noted in the pre-sample and post sample measurements. The samples were shipped to Alpha Analytical for analyses of Air Petroleum Hydrocarbons (APH) by MA APH method. The samples were also analyzed for carbon dioxide, and oxygen. In addition, three samples (plus duplicate) were analyzed for chlorinated VOCs by USEPA Method TO-15.

Sub-Slab Soil Vapor Sample. One sample was collected from below the concrete slab of the Site building to evaluate the potential presence of contaminants in soil vapor below the Site building. The sample was shipped to Alpha Analytical for analyses of APH by MA APH method, as well as for carbon dioxide and oxygen.

Survey. Sampling locations were surveyed by the MEDEP using a global positioning system with sub-meter accuracy. Vertical elevations of the microwells were surveyed by the MEDEP and MACTEC using an assumed site specific datum elevation of 100.00 feet.

4.0 RESULTS

This section of the report highlights field sampling results and findings, including a discussion of quality assurance and quality control.

4.1 QUALITY ASSURANCE

The laboratory did not report any data quality issues. One duplicate soil vapor sample was collected using a "T" in the soil vapor tubing. Results of the duplicate were comparable to the original sample, indicating good quality control (the relative percent difference between the sample and duplicate was 10 % or less). In addition, leak tests were conducted using helium as a tracer gas. Leaks greater than two percent were not noted, indicating good soil vapor seals (although Maine does not currently list an acceptable breakthrough concentration in its guidance, New York Guidance lists a breakthrough concentration of less than 10% as acceptable). Carbon dioxide measurements collected both before and after sampling were also similar, another indication that leaks within the vapor probe sample train were not significant and that the data quality was acceptable.

4.2 SOURCE AREA SOIL

Shallow overburden at the Site consists of fine to coarse sand. Contaminated "source area" soils were not encountered during the investigation. Three borings (SB-1, SB-2, and SB-3) were completed in the vicinity of the current and historic UST (AOC-1). PID readings above background and visible or olfactory signs of contamination were not noted above the water table. The boring completed nearest the fuel dispensers (AOC-2), SB-2 was located outside the historic source area, and visual, olfactory, and PID evidence of contamination was not noted above the water table. Based on these observations, MACTEC and MEDEP determined that soil samples were not to be collected for off-site analysis.

4.3 GROUNDWATER

Based on water level measurements collected, groundwater flow at the Site is to the northeast (Table 3.1 and Figure 4.1). GW-1 and GW-2 are located in the vicinity of AOC-1. GW-2 is also in the vicinity of, but slightly upgradient from AOC-2. Groundwater samples were collected from four boring locations. Although GW-6 is located downgradient of AOC-2, a groundwater sample was not collected from this location due to the previously anticipated groundwater flow direction to the southwest towards the Sebago Lake Basin (mircowells were removed and sampling crew departed prior to calculation of flow direction). In addition, soil PID readings were not noted at this location below the water table.

Analytical results are presented on Table 3.2. Analytical detections were not reported in the upgradient sample GW-5, or in the down and slightly cross-gradient sample GW-4. Sample GW-1 was collected from within the historic UST tank grave. Individual VOCs were not detected in this groundwater sample; however petroleum hydrocarbon fractions were detected at concentrations above the Tier 1 Statewide Groundwater and Drinking Water Remediation Guidelines.

Fuel related VOCs and petroleum hydrocarbon fractions were detected in the groundwater sample from GW-2. Ethylbenzene (detected at 63 micrograms per liter (μ g/L) compared to the MEG of 30 μ g/L) and naphthalene (detected at 23 μ g/L compared to the MEG of 10 μ g/L) were detected above their associated MEG. Petroleum hydrocarbon fractions were also detected above MEGs. Detected compounds and fractions did not exceed the Massachusetts GW-2 standard for the protection of overlying buildings from potential vapor intrusion.

4.4 SOIL VAPOR

For comparative purposes, concentrations of parameters detected in the soil vapor samples were compared to the MEDEP residential multi-contaminant chronic soil gas target values (assumes an attenuation factor of 0.02). Soil vapor results are reported on Table 3.3.

Individual fuel related VOCs were not detected in sample SV-1, located within the historic UST tank grave, and only low concentrations (below guidance values) of hydrocarbon fractions were detected. Several fuel related VOCs and petroleum hydrocarbon fractions were detected in sample

SV-2, although only ethylbenzene and C5-C8 Aliphatic hydrocarbon range were detected at concentrations above the target values. At distances further away from the source and towards the occupied building within the underground utility corridor, detected concentrations were lower in SV-3, although C5-C8 Aliphatic hydrocarbon range still exceeded the soil vapor residential target value. In addition, although low concentrations of fuel related VOCs and petroleum hydrocarbon fractions were detected in upgradient soil vapor sample SV-5 (25 feet upgradient of SV-2), with the exception of 1,3-butadiene, compounds were not detected above the residential soil gas target value. 1,3-butadiene was only detected in two samples, SV-2 and SV-5, and was only detected above the target value in SV-5.

Compounds were not detected above the residential soil gas target value in the soil vapor sample from below the Site building (SV-6). Concentrations detected in SV-6 were much lower than the concentrations detected in the other soil vapor samples collected closer to the source area.

There is no clear correlation or relationship between soil vapor concentrations and the measurements of carbon dioxide, oxygen, methane, and PID readings. This may simply reflect the relatively low concentrations of contaminants present.

5.0 CONCLUSIONS

This section summarizes the Site geology, groundwater movement, analytical results, correlation of analytical results and media, and recommendations.

Shallow overburden at the Site consists of fine to coarse sand. Groundwater was encountered at approximately 13 feet bgs in the vicinity of the former USTs and the fuel islands. Groundwater flow was interpreted to flow to the northeast.

Low concentrations of fuel related compounds were detected in groundwater and soil vapor at the Site. Due to the sandy overburden, preferential pathways for soil vapor migration (i.e. sandy utility bedding) were not identified at the Site.

Although concentrations of C5-C8 aromatic hydrocarbons and C9-C10 aliphatic hydrocarbons detected in groundwater sample GW-1 slightly exceeded drinking water standards, these compounds were not detected in soil vapor collected two feet above the water table at concentrations above the residential soil gas target values. Ethylbenzene and C5-C8 aromatic hydrocarbons also slightly exceeded drinking water standards in groundwater from GW-2. These compounds were detected in the soil vapor sample collected two feet above the water table at concentrations above the residential soil gas target value. Concentrations of detected compounds diminished with distance away from the source areas (fuel dispensers and USTs). This is likely due to both dispersion and aerobic degradation. Concentrations of C5-C8 aromatic hydrocarbons detected in the shallow utility corridor sample SV-03 slightly exceeded the residential target value, and concentrations above the residential target value.

Although oxygen concentrations increased and carbon dioxide concentrations decreased in the shallower soil vapor samples compared to the deeper soil vapor samples, a clear relationship between contamination and oxygen and carbon dioxide concentrations could not be formed. This may be due to the general low concentrations of contaminants detected.

In addition, although field and laboratory measurements of oxygen were fairly consistent, the field instrument used to measure carbon dioxide was not capable of accurately quantifying the higher concentrations present at the Site.

Although groundwater samples were not collected downgradient of the dispensers, PID readings at boring SB-6 (GW-6) and soil vapor detections at SV-3 do not indicate the potential for a direct exposure pathway downgradient of this source.

Results of the investigation do not indicate a significant source of fuel contamination at the Site. Although compounds or ranges of compounds were detected in soil vapor above the residential target value, the targets are based on attenuation through a buildings slab, and the higher concentrations were detected in the deeper exterior soil vapor samples. Results from the sub-slab vapor sample did not exceed the residential target value.

Based on the data collected, the site does not appear to pose a health risk from vapor intrusion, either to on-site receptors, or off-site receptors. Concentrations of VOCs diminished rapidly with distance away from the source areas, both horizontally, and vertically.

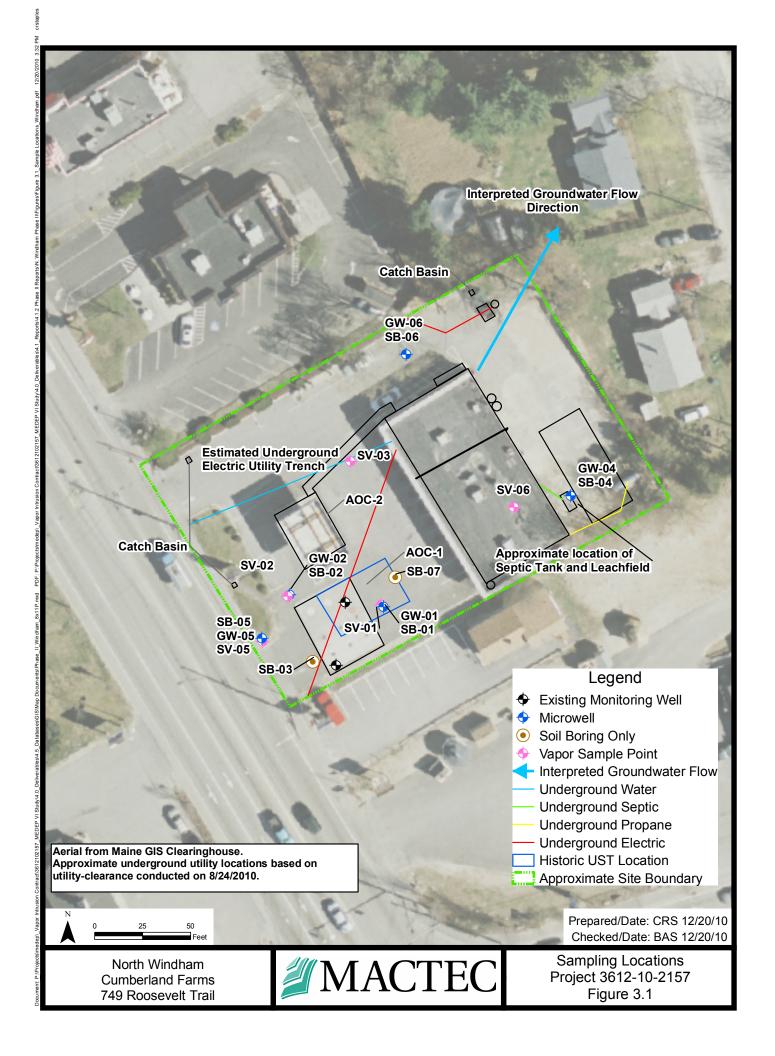
No further actions for vapor intrusion assessment are recommended for this Site.

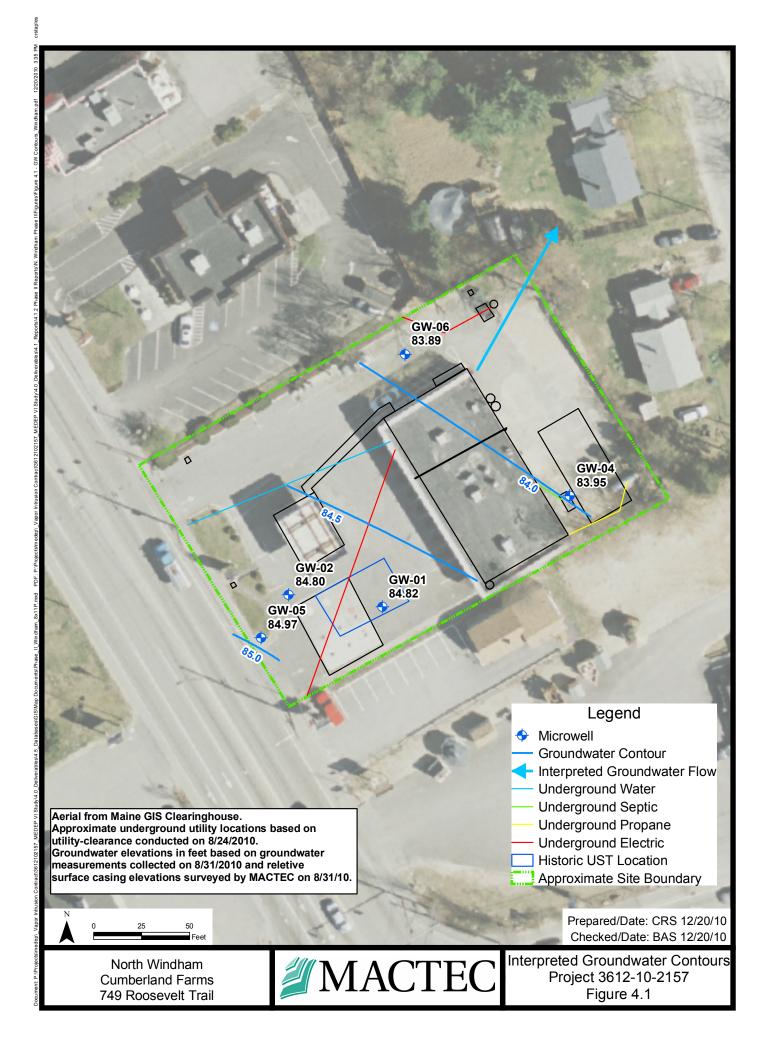
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FIGURES

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TABLES

TABLE 3.1GROUNDWATER MEASUREMENTS

CUMBERLAND FARMS STORE NO. 1836 NORTH WINDHAM SITE

Monitoring	Riser	Ground Surface	Depth to Water	Groundwater
Point	Elevation	Elevation	(TOR)	Elevation
GW-1	98.33	98.58	13.51	84.82
GW-2	97.70	97.99	12.9	84.80
GW-4	99.33	99.54	15.38	83.95
GW-5	97.65	97.89	12.68	84.97
GW-6	98.31	98.60	14.42	83.89

Notes:

Elevations in feet and based on elevation of 100-feet at white paint mark on corner of concrete curb located at the northeast corner of the Site building.

Elevations surveyed and water levels collected by MACTEC on 8/31/10. TOR = top of riser

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TABLE 3.2GROUNDWATER ANALYTICAL RESULTS

CUMBERLAND FARMS STORE NO. 1836 NORTH WINDHAM SITE

			Sample Point	GW-1	GW-2	GW-4	GW-5
			Sample Depth		15	17	15
		Wate	er Level Depth	13.51	12.90	15.38	12.68
			Sample Date	8/31/2010	8/31/2010	8/31/2010	8/31/2010
Parameter	MEG	MA-GW2	Units	Concentration Qualifier	Concentration Qualifier	Concentration Qualifier	Concentration Qualifier
BENZENE	3	2,000	UG/L	5 U	5 U	5 U	5 U
ETHYLBENZENE	30	20,000	UG/L	5 U	63	5 U	5 U
METHYL-TERT-BUTYL ETHER (MTBE)	35	50,000	UG/L	5 U	5 U	5 U	5 U
NAPHTHALENE	10	1,000	UG/L	5 U	23	5 U	5 U
TOLUENE	600	50,000	UG/L	5 U	130	5 U	5 U
XYLENE-M,P	1000	9,000	UG/L	10 U	260	10 U	10 U
XYLENE-O	1000	9,000	UG/L	5 U	92	5 U	5 U
C5-C8 ALIPHATIC HYDROCARBONS	300	3,000	UG/L	330	1100	100 U	100 U
C9-C10 AROMATIC HYDROCARBONS	200	7,000	UG/L	1,800	840	100 U	100 U
C9-C12 ALIPHATIC HYDROCARBONS	700	5,000	UG/L	1,000 U	540	100 U	100 U
UNADJUSTED C5-C8 ALIPHATICS	300	3,000	UG/L	330	1200	100 U	100 U
UNADJUSTED C9-C12 ALIPHATICS	700	5,000	UG/L	2,200	1,800	100 U	100 U

Notes:

Samples analyzed by MA VPH (detections in **BOLD**). Depth in feet below measuring point or ground surface MEG = Maine Maximum Exposure Guidelines MA-GW2 = Massachusetts off gassing standards

Highlighted results exceed MEGs

UG/L = Micrograms per liter

U = not detected above reporting limit

TABLE 3.3SOIL VAPOR ANALYTICAL RESULTS

CUMBERLAND FARMS STORE NO. 1836 NORTH WINDHAM SITE

		Sa	ample Point	SV-01	SV-02	SV-02 (duplicate)	SV-03	SV-05	SV-06
			ample Type	SOIL GAS					
			mple Depth	11	10.5	10.5	4.2	10.5	1.5
			Vater Depth	13	13	13	13	13	15
			ample Date	8/31/10 14:15	8/31/10 10:21	8/31/10 10:16	8/31/10 16:25	8/31/10 11:13	8/31/10 12:45
Test Method	Parameter	Guidance	Units	Concentration Qualifier					
MADEP-APH	1,3-BUTADIENE	4.05	UG/M3	2 U	2.3	2 U	2 U	9	2 U
MADEP-APH	BENZENE	15.5	UG/M3	2 U	2.9	2.4	2 U	4.7	2 U
MADEP-APH	ETHYLBENZENE	48.5	UG/M3	2 U	52	47	8.6	10	2 U
MADEP-APH	M,P-XYLENE	1000	UG/M3	4 U	220	190	23	26	4 U
MADEP-APH	METHYL-TERT-BUTYL ETHER (MTBE)	470	UG/M3	2 U	2 U	2 U	2 U	2 U	2 U
MADEP-APH	NAPHTHALENE	3.6	UG/M3	2 U	2 U	2 U	2.2	2 U	2 U
MADEP-APH	O-XYLENE	1000	UG/M3	2 U	74	65	9	8.2	2 U
MADEP-APH	TOLUENE	50000	UG/M3	2 U	68	55	15	24	2.7
MADEP-APH	C5-C8 ALIPHATIC HYDROCARBONS	2100	UG/M3	210	9700	8000	4300	450	61
MADEP-APH	C9-C10 AROMATIC HYDROCARBONS	500	UG/M3	33	300	270	100	63	10 U
MADEP-APH	C9-C12 ALIPHATIC HYDROCARBONS	2100	UG/M3	210	360	330	1300	100	16
TO15	1,1,1-TRICHLOROETHANE	50000	UG/M3	1.09 U	1.09 U	1.09 U	1.09 U		
TO15	1,1-DICHLOROETHANE	75	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U		
TO15	1,1-DICHLOROETHYLENE	2100	UG/M3	0.792 U	0.792 U	0.792 U	0.792 U		
TO15	1,2-DIBROMOETHANE	0.205	UG/M3	1.54 U	1.54 U	1.54 U	1.54 U		
TO15	1,2-DICHLOROETHANE	4.7	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U		
TO15	CIS-1,2-DICHLOROETHENE	650	UG/M3	0.792 U	0.792 U	0.792 U	0.792 U		
TO15	TETRACHLOROETHYLENE	20.5	UG/M3	7.34	7.55	6.78	4.72		
TO15	TRANS-1,2-DICHLOROETHENE	650	UG/M3	0.792 U	0.792 U	0.792 U	0.792 U		
TO15	TRICHLOROETHYLENE	60	UG/M3	1.07 U	1.07 U	1.07 U	1.07 U		
TO15	VINYL CHLORIDE	27.5	UG/M3	0.511 U	0.511 U	0.511 U	0.511 U		
EPA METHOD 3C	CARBON DIOXIDE		%	13.8 D	5.35 D	5.39 D	5.27 D	3.98 D	1.17 D
EPA METHOD 3C	OXYGEN GAS		%	2.49 U	12.3 D	12.4 D	12.9 D	13.3 D	16.8 D
	Ambient Air Measurements								
FIELD	CARBON DIOXIDE		%	0.0403	0.047		0.0409	0.615	0.115
FIELD	OXYGEN GAS		%	20.9	21.9		20.9	22.1	20.9
FIELD	SUBSURFACE PRESSURE		Inch-H20	0.01 LT	0.005 LT		0.005 LT	0.005 LT	
	Pre-Sample Measurements								
FIELD	CARBON DIOXIDE		%	0.6 G	0.6 G		0.6 G	0.6 G	0.52
FIELD	METHANE		%	0.5	0.5		0.25	0.55	0 U
FIELD	OXYGEN GAS		%	0 U	12.8		15.1	15.1	17.5
FIELD	PID SOIL GAS SCREEN		%	0.0001 LT	0.00001 LT		0.00006	0.00003	0 U
	Post-Sample Measurement								
FIELD	CARBON DIOXIDE		%	0.6 G	0.6 G		0.6 G	0.6 G	0.6 G
FIELD	OXYGEN GAS		%	0.1	12.8		14	15.1	16.6

Note:

Results as reported by the laboratory; detections in **BOLD**

Guidance = residential multi contaminant chronic soil gas target (Table B10)

Highlighted results exceed Guidance value.

UG/M3 = micrograms per cubic meter

Qualifier

U = not reported above detection limit

D = result from dilution run

LT = less than

G = greater than

APPENDIX A FIELD DATA RECORDS

		N /ſ	Δ	1	7	[1]	F (7	Project Name: MEDEP-VI	Boring II	D: SEIGH		
é	MACTEC							١	Project Location: N. Windham	Page No.			
		ongress S			nd Ma	aine 04	4101		Project No.: 36/2/02/52 Client: MEDE Project No.: 36/2/02/52	of: 1 Bore Hole ID/OD: 2.4			
_	ng Loc ther:	ation: 85	<u>تا د</u>	- (Ċĺ	,			Refusal Depth: Total Depth: 16 Soil Drilled: 16' Method: Direct Rub				
	contrac		EI		<u>C</u> E	er			Soil Drilled: 16' Method: Dirad R.L. P.I.D (eV): Min Ray 3000 Protection Level: D	Casing S	ize: 2"		
Drill		FPI			D		NE		Date Started: 8/3///3 Date Completed: 8/31//3	Sampler			
Rig '	Type/I	Model:							Logged By: C. Stopler Checked By: 19/7/10				
Refe	rence	Elevatio	n: '		~				Water Level: 3.6 Time: 1140	Hammer	Туре:		
· · · ·	Sampi	le Inforr	nation			Mor	itoring		· ·				
O Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed	Lab Sample ID	Sample Description and Classification	USCS Group Symbol	Remarks		
	51	4.0			د٥.	مې ا	۲,		Brown - Alt CSAND. p. graded, Fill - little brown silt	qL			
	52	2.4 4.0			60	.100	m		Dark brownated reduced brown M+C SAND, trace s. It, 1. the gravel - brick piece - ten le grave fill	sp			
	53	1.5 4.0			1.0				Redich brown C. SAND. Little M. Gravel. P. Smidel - Ful	sp			
	54.	33			305 25 2.2	spr	-		0-0.4 same as s3 0.4-33 Ton me down SAND. Uniform Saturated @ 13	5P	-		
·									BOB@ 16'		-		
	-								set top well to 16 bys				
	-					1							
NO	TES:		Se	+	 V#	101	- p	<u>مہ</u> د	4 SU-01 to 11 bs 5 - *AND to 7	- b	bentraite to		
						•	r		3' bys.	. در-			

Į

.

Project Name:	MEDEP. VI				Date Completed: 8/31//6
Project Location:	N. Windham	ME		Logged By: C. Stap	
	3612102154	Task Number		Checked By:	_Checked Date: 19-07-10
Subcontractor:	EPI	Drilling Meth	od: Direct Push		
Development Method:	- operplunp	Development	Date: 18-31-10	Measuring I	oint Information
Bucking Posts/Ballards		18-21-2010)1	3. h' Bre.		
any in	to verfer (Measuring Point (MP) Typ MP Elevation (ft):	
		· · · · · · · · · · · · · · · · · · ·			98,33
Item	Depth BMP (ft) ∫ 3 G- 5	Elevation (ft)		Des	cription
Surface Casing Elevati	on -0.05	98,58	Slo	ope Away	
Ground Surface Elevat		- 7/4			
		98.33/-		Surface Seal Type:	Niphit
Riser Pipe (Top)	-0.30	/		Lock Identification	NA.
					4 ["]
				Stickup Casing Diameter:	
				Backfill/Grout Type:	SAND
				Riser Pipe Type:	Pv(
				Riser Pipe ID:	
fop of Well Seal	2.5			Borehole Diameter:	_2``
top of web Seal					
Fop of Sand Pack	4.0			Type of Seal:	Bentonite
-1		•			
Fop of Screen	6.0				
op of other				Screen Type:	Puc
				Screen ID:	1
				Screen Slot Size:	0.01
				Screen Length:	
	1. 4			Filter/Sand Pack Type:	±(v
Base of Screen	16.0			- •	······
End Cap	16.0			Sump:	
Drilled Depth	16:0		4 —	Fallback/Backfill:	
	, 1		i	i andaan Daanini.	
Bottom of Exploration	16.0				
Bedrock Surface		·	ATORNORMONDHOLDHOLDHUDH		NOT TO SCALE
il 58 da					
ШΝΛΔ	CTEC				

							SOIL BORING LOG		
411	ЪЛ	٨٢				7	Project Name: MEDEP-VI	Boring II	SB-02/6
	IVL	AL	لہ م				Project Location: N. Windham	Page No.	
511	Congress Str	eet, Portla	and Ma	ine 04	4101		Project No.: 3612102154 Client: MEDEr	ot	
Boring L		58-0					Refusal Depth: NA Total Depth: 20		le ID/OD: Z"
Weather:	2	700 K		cleo	~		Soil Drilled: 20' Method: Direct Phat	Casing S	
Subcontr	actor:	298					P.I.D (eV): Minika 3000 Protection Level: D		C.STAPLES
Driller:		IS NI	NE				Date Started: 9/3/// Date Completed: 9/3///0	Sampler	
Rig Type	/Model: 6			661	55		Logged By: C. Stapler Checked By: BAS 9/7/10	Hammer	Wt/Fall:
	e Elevation:		*				Water Level: 13.2 b, 5 Time: 0740	Hammer	Туре:
Sam	ple Informa	tion		Mon	itoring				
Construction Depth (feet bgs)	Penetration/ Recovery (feet)	SPT Blows/6" N Value	PID Field Scan	PID Headspace	Lab Tests Performed	Lab Sample ID	Sample Description and Classification	USCS Group Symbol	Remarks
	2.01 4.5		<	.a.			Brown M&C SAND, poorly gizded, moist	9 Z	
52	2,6 4.5		<01				Tan Foin SAND, uniform, p.g. zdeh, donp	sp	
53	7.0 4.0		20.1				Ton M. SAND. Uniform dam	5p	
S4j	7.1 4.0	7 6	5003 1910 1910 1910	n 124	aya ayaa ku	a <u>مو</u> نوع م	Tan M. SAND, uniter - saturtel@U.4' - high pipe water table	sr	- *
							Redich Ton M. JAWD, intrated	18	
			6,1				1. the fine same in section	 .	
	3.5		ייץ				- 50% sitt in bottom 0.4'.	sm	
	40								1
					in Marina Marina		130B@ 20' b55		
NOTES:		Vor	0/	po	int	ς	V-02 = 1 south		· · · · · · · · · · · · · · · · · · ·
		•						\$)
1					Set		to 10.5' bottom 6" screen- sound to	7. Be	atomite to 5'

WELL/PIEZ	OMETER CONST	RUCTION DIA	GRAM	LOCATIO		
	FLUSHMOU					SB-02/GW-02
	1EDEP. VI			Date Started:	8/31/10	Date Completed: 9/31/10
	N. Windham			Logged By:	C. Stry	
Project Number: <u>361</u>	2102154	Task Number	03.1	Checked By:	1873	_Checked Date: 09-17-16
Subcontractor:	<u>et</u>	Drilling Method:	Direct Ruh		-	
Development Method:	geopump	Development Dat	· Aughorn,	2010	Measuring I	Point Information
Bucking Posts/Ballards:	<u></u>	\	V			
Notes: depth	0 Nater (08-31-;	410): 13.2' 81	72-	Measuring Po	oint (MP) Typ	e Top Of Riser
• 	`			MP Elevation	n (ft):	97.70
						·
Item		evation (ft)			Des	cription
	BG-5	07 4 -				
Surface Casing Elevation	Flut _	97.99	Slop	e Away		
Ground Surface Elevation				I Contraction of the second seco		
Riser Pipe (Top)	0.29 0	17.70 /		Surface Seal 'I	Гуре:	Concate
10561 1 fpc (106)				Lock Identific	ation	NA.
		Ĩ.			W _ 4	<u>ц</u> м
				Stickup Casin;	g Diameter:	T
				Backfill/Grout	t Type:	Bentomik
				Riser Pipe Typ	pe:	PVC
				Riser Pipe ID:	:	<u> </u>
	·			Borehole Dian	neter:	2"
Top of Well Seal	I					
			←	Type of Seal:		Bentonite
Top of Sand Pack	<u> </u>		1919)			
		-				
Top of Screen	<u> </u>					
				Screen Type:		PVC
				Screen ID:	1	- 0.01 slot
				Screen Slot Si	ze:	
				Screen Length	1:	10`
				Filter/Sand Pa	ıck	
	2 ~			Туре:		HO SAWD
Base of Screen	<u> </u>					
End Cap	20`			Sump:		
Drilled Depth	20			Fallback/Back	cfill:	Quittas.
Bottom of Exploration	20					
Bedrock Surface	1 Withingtone	N				NOT TO SCALE
-						
S11 Congress Street, Por	TTEC					

	M Congress S						2	Project Name: MEDEP -V'I Project Location: N. Windham Project No.: '361210 2.154 Client: MEDEP	Boring I Page No	<u></u>
	congress a				aine o	4101		Refusal Depth: - Total Depth: /6	o: Bore Ho	le ID/OD: 2 ⁴
Veather:		cler		8	5"			Soil Drilled: 16' Method: Direct fuit		Size: 2 ⁴
Subcontra		Ē٢						P.I.D (eV): Mm Rry 3000 Protection Level: D		Gespite
Driller:			10					Date Started: 8/31/10 Date Completed: 9/31/10	Sampler	ID/OD: 2 ⁻¹¹
Rig Type	/Model:	G	to p	nbr	6	6D1	-	Logged By: (. Staples Checked By: 1/43 9/7//0	Hammer	Wt/Fall:
	e Elevatio				-			Water Level: $\approx (3'b)$ Time: 11 00	Hammer	Туре:
	ple Inforr	nation	1		Mor	nitoring	r			
C Depth (feet bgs) Sample Number	Penetration/ Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed	Lab Sample ID	Sample Description and Classification	USCS Group Symbol	Remarks
<u> </u>	1.6		٩	C01				Ton Mac SAND - dry	sp	
	2.1		<	20.1				Tan M. SAND - dry - un. born	SP	
	7.0/40		<	(o,	r			Tan M. SAND - Damp uniform	sp	
	2.8		<	0,1				Tan M. SAND. some fire sand in i'l lonses. saturated @ 13'	SP	Y
								BOB@ 16 by		
								- No well, or Vopor Paint		
										,
									-	
OTES:					L	Por	<u>ا</u>	L		L

211	ЛЛ	٨		יי		1	Project Name: MEDEP - VI	Boring II	SB-4/6-W	
I	TAT		<u> </u>	L _			Project Location: N. Windham ME	Page No.	- 0 1/0-W	
Boring Location: SB-4 Weather: Clear 90°F				aine 0	4101		Project No.: 36/2/02/154 Client: MEDBy Margarett	of	<u>)</u>	
							Refusal Depth: Total Depth: 2-0'	Bore Hole ID/OD: 2.25 Casing Size: 2.25		
				F			Soil Drilled: 20 Method: Dire + Push			
Subcontr		PI					P.I.D (eV): Min Rome 3000 Protection Level: D	Sampler: 1.2 Geopre		
Driller:	<u> D. Pi</u>						Date Started: 9/31/1. Date Completed: 8/31/10	Sampler	ID/OD: 1.2	
	Rig Type/Model: Geoprobe 66 PT				<u>P1</u>		Logged By: C. Stoples Checked By: BAS-9/7/1.			
	e Elevation: ple Informa		<u>VA</u>	Mer	nitoring		Water Level: 15.38 blur Time: 1600	Hammer	Type:	
					Intoring		-			
O Depth (feet bgs) Sample Number	Penetration/ Recovery (feet)	SPI Blows/6" N Value	PID Field Scan	PID Headspace	Lab Tests Performed	Lab Sample ID	Sample Description and Classification	USCS Group Symbol	Remarks	
SI	1.8		دى.ا	//*	ř.		Brown you dor to tan Marc JAND, dig pourly gooded	SP		
S2	2.5 4.0		<u>ه</u> (ppr	~		Ton conse JAND, dam. pyaded	SP		
S ?	2.3	2	0 ·1				Ton M+C SAND, damp	sp	. .	
54	2.8	۷	U.A	vr	5		0-1.0 Some as S3 1.0-2.9 gray Mac SAND, little silt lenses - Moist	Sp		
	1.9 1.9 1.9	< (».1e	pm			Grang tan Coorne SAND + F. Grand saturated	SP		
		<u>. </u>					BOB @ 20' bys			
<u>NOTES</u>		,		scł	nchi		GW-4 - No vapor point		CRJ Office	

WELL/PI	EZOMETER CONSTRUCTION DIA	GRAM	LOCATION ID:	16144
	FLUSHMOUNT			16-W-4
Project Name:	NEDEP. VI	,		Date Completed: 8/3/// 0
Project Location:	N. Windhom		Logged By: C. Stap	1
Project Number:	3612102159 Task Number	03-	Checked By: B49	Checked Date: <u>¥9-07-/0</u>
Subcontractor:	FPT Drilling Method:	Direct Push	· · · · · · · · · · · · · · · · · · ·	
Development Method		e: 0731-10.	Measuring	Point Information
Bucking Posts/Ballar Notes:		RMR		
Noices. augitu	to rater (08-349 - 15.18"		Measuring Point (MP) Ty _I MP Elevation (ft):	
	· · · · · · · · · · · · · · · · · · ·		HIF LACTATION (II):	99.33
Item	Depth BWFP (ft) Elevation (ft) BG-5		Des	cription
Surface Casing Eleva	tion <u>6</u> 99.54	Slo	pe Away	
Ground Surface Eleva		The second		
			Surface Seal Type:	Asphilt
Riser Pipe (Top)	-0.28 99.33		Lock Identification	ACA.
	Př.		Lock Identification	
	· · · · · · · · · · · · · · · · · · ·		Stickup Casing Diameter:	<u> </u>
			Backfill/Grout Type:	- SAND
			Riser Pipe Type:	PVC
			Riser Pipe ID:	
Top of Well Seal	2.0		Borehole Diameter:	2.25
			Type of Seal:	Ben tonite
Top of Sand Pack	<u> </u>			
T (3	10			
Top of Screen			Screen Type:	prc
			Screen ID:	1 [°]
			Screen Slot Size:	0.0)
				, , ,
			Screen Length:	10
			Filter/Sand Pack	
			Туре:	#0
Base of Screen	<u> </u>			
End Cap	20.0		Sump:	
Drilled Depth	20'		Fallback/Backfill:	
Bottom of Exploratio	n <u>20</u> `			
Bedrock Surface	\			NOT TO SCALE
JI Congress Street,	Portland Maine 04101			

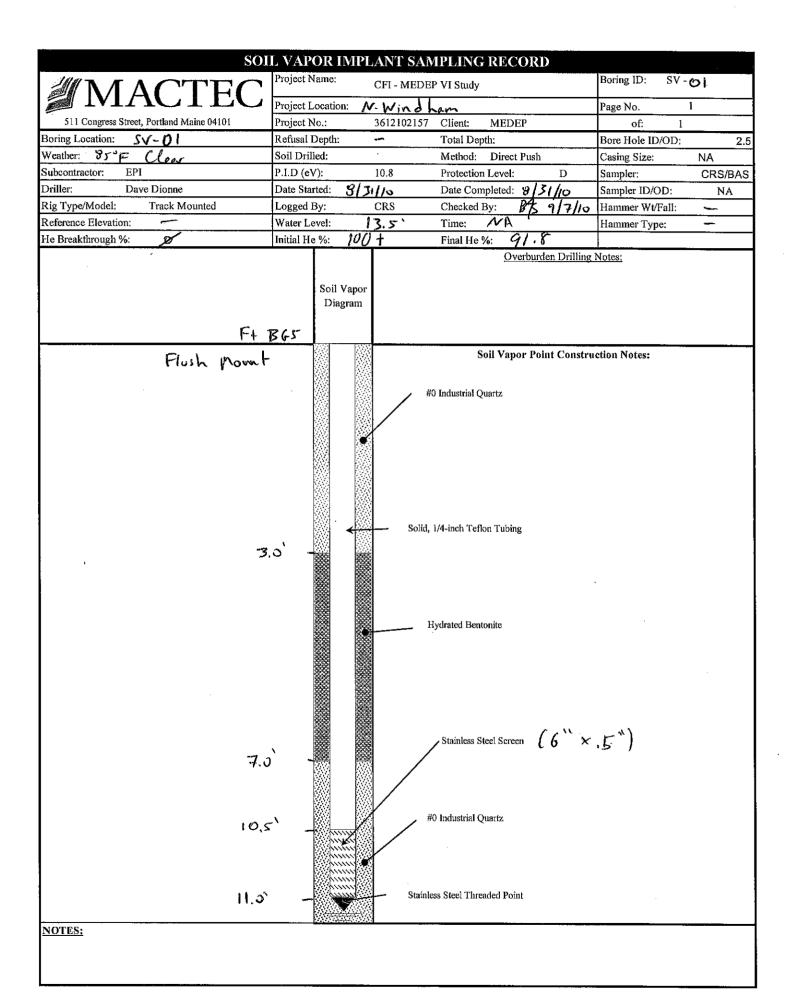
							SOIL BORING LOG	1		
	ΠΔ	(F1	-	Project Name: MEDEP- VI	Boring II	SBOS/GW-S	
		1	1	L			Project Location: N. Windham	Page No.	1	
511 Congress Street, Portland Maine 04101 Boring Location: SB.05 Weather: Class Bo ³ F				uine 0	4101		Project No.: 3612 102 134 Client: MEDEP	of: L Bore Hole ID/OD: Z " Casing Size: Z '?		
							Refusal Depth: Total Depth: 16			
							Soil Drilled: 16' Method: Direct Pub			
							P.I.D (eV): Mini Kry Jose Protection Level:	Sampler: Geograph		
Driller:	P. P	IUN	NE				Date Started: 9/31/10 Date Completed: 9/3/16	Sampler ID/OD: Z [*] Hammer Wt/Fall: —		
Rig Type/Moo	lel: Ger	An	<u>k</u> (<u>66 1</u>	5		Logged By: C. Stepler Checked By: BAS 9/7/10			
Reference Ele	vation:		NA				Water Level: ## i2.69 Time: MA	Hammer	Туре:	
Sample I	formation	n		Mor	nitoring					
O Depth (feet bgs) Sample Number Penetration/	Recovery (feet) SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed	Lab Sample ID	Sample Description and Classification	USCS Group Symbol	Remarks	
	5		٢٥.	ł			0-1.0 - Typisil. Fot JAND littlignel, dark brunn, poorly madel 1.0-2.5 Tim M SAND trace fine	sp	· · · · · · · · · · · · · · · · · · ·	
52 3. 4	0		ده	4	9		Tan F. SAND Uniform, damp	50		
3.	50						Ton FOM SAND Silt 0.5.07. Drop. p.sn but	se		
	0 0						Tom FAM JAND, trace silt in sections saturated @ 1.5' = 13,5' by; p.graded	SP	V 12	
							BOIS @ 16'			
NOTES:	ات ک	1	1.00	5/	pow	14 •	5V-05 - Seren @ 10-10,5' bys.	_1	۱ <u>ــــــــــــــــــــــــــــــــــــ</u>	
							SAND-10.5 to 7 by - benton	1. 1.	6 L. L. L. PAD	

WELL/PIEZC	DMETER CONS		AGRAM	LOCATION ID:	
. <u></u>	FLUSHMO			51/6	
Project Name:	MEDEP-VI		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Date Started: 8/31/10	
Project Location:	N. Wind Lam	<u> </u>		Logged By: C. Stof	
•	12/02/54	Task Number	03.	Checked By: PAS	Checked Date: 69-07-16
Subcontractor:	FPI GA AN		Direct Push	Magauring D	haling TurParana Ala
Bucking Posts/Ballards:	geopunp	Development Da	ite: <u>29 -31-10</u>	wieasuring r	oint Information
Notes: kenth	to afair 1'	2.48' ATR (18-31-10).	Measuring Point (MP) Type	e: Top Of Riser
	-10 M 20 9 40 1 1		00 - 1)	MP Elevation (ft):	97.65
	···				
Item	Depth BMP (ft) .]	Elevation (ft)		Desc	ription -
		07.0-			
Surface Casing Elevation	Fluit -	97.89	Slop	pe Away	
Ground Surface Elevation				-	
Riser Pipe (Top)	-35	97.65		Surface Seal Type:	Concrete
				Lock Identification	NĄ.
				Stickup Casing Diameter:	<u> </u>
				Backfill/Grout Type:	SAND
			↓	Riser Pipe Type:	pul
				Riser Pipe ID:	
Top of Well Seal	"J, 0 ¹			Borehole Diameter:	
Top of Sand Pack	4.5		•	Type of Seal:	bentonite
Top of Screen	6 .0			Screen Type:	PVC
				Screen ID:	1 ''
				Screen Slot Size:	0.01
				Screen Length:	10
				U U	
				Filter/Sand Pack	11
Base of Screen	16.0			Туре:	#0
				a	• •
End Cap	16.0`			Sump:	
Drilled Depth				Fallback/Backfill:	
Bottom of Exploration	16.0				
Bedrock Surface	NA				NOT TO SCALE
S11 Congress Street, Port	And Maine 04101				

		SOIL BORING LOG	
		Project Name:	Boring ID:
MACTI	-1	Project Name: MEDEP - VI Project Location: N. Windham ME	Boring ID: SB-6-6-W-6
511 Congress Street, Portland Maine 04		TOJOOL DOCUTION. N. WING NOW THE	Tage 140.
Boring Location: SB.G		Project No.: 3612102159 Client: MEDER Refusal Depth: NA Total Depth: 20	of:
Weather: 90°F - Clear		Soil Drilled: 20' Method: Drack Park	Bore Hole ID/OD: 2,25' Casing Size: 2,25'
Subcontractor: EPI		P.I.D (eV): Mini Rec Jooo Protection Level: D	Sampler: Graph
Driller: D. DIONNE		Date Started: 3/31//0 Date Completed: 9/31//0	Sampler ID/OD: 1.
Rig Type/Model: Geonope 661	ыг		Hammer Wt/Fall:
Reference Elevation: 98.00	- <u></u>	Water Level: NA Time:	Hammer Type:
Sample Information Moni	toring		
 Depth (feet bgs) Sample Number Pemetration/ Recovery (feet) SPT Blows/6" N Value PID Field Scan PID Headspace 	Lab Tests Performed Lab Sample ID	Sample Description and Classification	Remarks SON SON
SI 2.4 <01		Red brown grade to fan MOC SAND, dy	10
- 52 2.9 52 4 .5 < 0.1	,,,,,,	Tan C. JAND, by,	50
- 53 7 ,0 53 7 ,0 53 5 ,0 53 50		Ton F. SAND, dry	50
- 34 2,9 4,0 < 0.1		Gray VIF SAND, saturated - 10-1.4' 1.4-2.9 Mdc gray SAND - saturated	CP
		Same as S# - 1.4 to 2.8' SOBO 16 b35 CRI 8/31/10	SP
		BOB@ Zo'bgr	• • • • • • • • • • • • • • • • • • •
No vers	point	τ .	· .

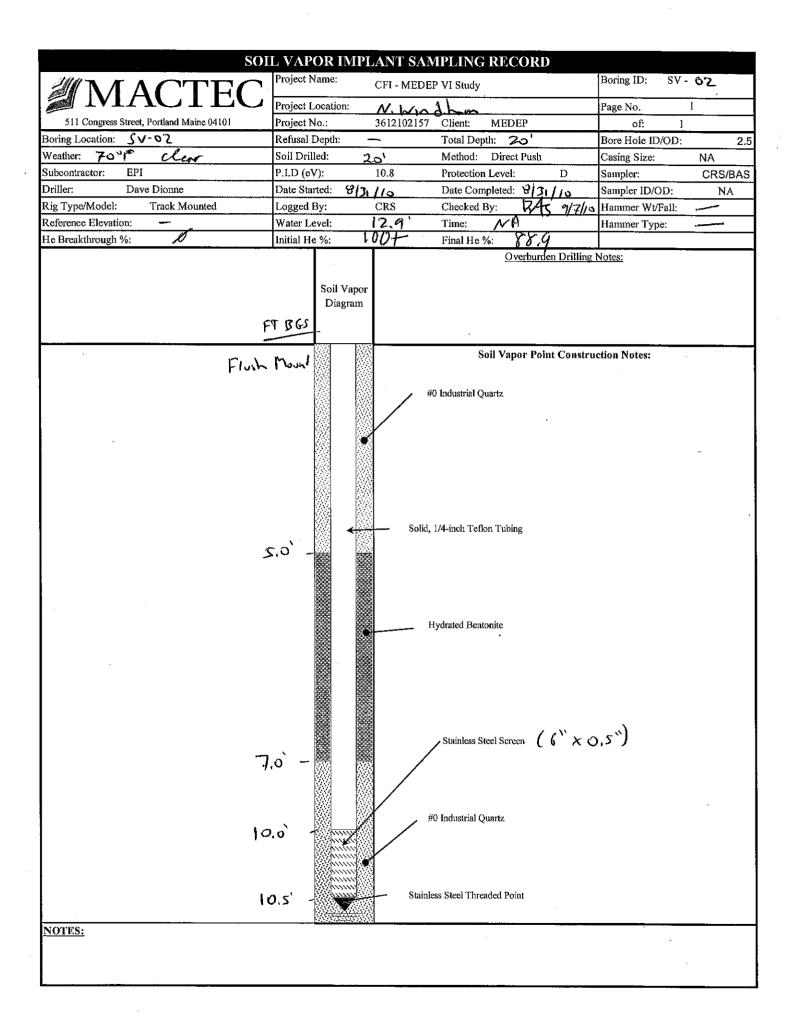
	FLUSHM	OUNT		GW-6	SB-06
	MEDEP.VI		· · ·	Date Started: 8/31/10	Date Completed: 8/3
Project Location:	N-Windham		£		taples
Project Number:	3612102154	Task Number	03.	Checked By: 84	Checked Date: 09-07
Subcontractor:	FPI	Drilling Metho	d: Direct-Rush		·
Development Method		Development I	Date: 08-31-10	Measuring	Point Information
Bucking Posts/Ballar Notes:		IA A1 (prova	(15-31-74))	< Measuring Point (MP) Ty	pe: Top Of Riser
Autorita	(10 warper :	1.42 800	(0.0 - 1010)	MP Elevation (ft):	98.31
Item	Depth BMP-(ft) IS & S	Elevation (ft)		Des	scription
Surface Casing Eleva	ation ~0.06	98.60	Slo	ope Away	
Ground Surface Elev				-	
				Surface Seal Type:	Asphilt
Riser Pipe (Top)	0.29 btor	98.31		Lock Identification	
					. *
				Stickup Casing Diameter:	<u> </u>
				Backfill/Grout Type:	SAND
				Riser Pipe Type:	PVC
				Riser Pipe ID:	1``
Top of Well Seal	5.0			Borehole Diameter:	2"
	<u>ن</u> و.9	· · · · · · · · · · · · · · · · · · ·	←	Type of Seal:	Bentonite
Top of Sand Pack	0.0	I <u></u>			
Top of Screen	0.0			Screen Type:	PVL
					111
				Screen ID:	
				Screen Slot Size:	0.01
	· ·			Screen Length:	10'
				Filter/Sand Pack	
D	20.0'			Туре:	HO JAND
Base of Screen	20,0				
End Cap				Sump:	
Drilled Depth	20.0			Fallback/Backfill:	- MA
Bottom of Exploration	m <u>20</u> ວັ	kreiten			
Bedrock Surface	NA	<u></u>	V		NOT TO SC
Adda					
2111 N /T A					

MACTEC	SOIL BORING LOG Project Name: MFD F.P VI	Boring ID: SB-7
511 Congress Street, Portland Maine 04101	Project No.: 3612102/59 Client: MBDEP	Page No. of:
Boring Location: SB, 7 Weather: 90° F class Subcontractor: FPS	Refusal Depth: Max Total Depth: IC Soil Drilled: /6` Method: Duret Pask P.I.D (eV): Munet Kone Joog Protection Level: D	Bore Hole ID/OD: 2'' Casing Size: 2'' Sampler: Georgia
Driller: D. DIONNE Rig Type/Model: Gropping 66 DF	Date Started: 8/31/10 Date Completed: 3/31/10 Logged By: C. Storber Checked By: BAS 9/7/10	Sampler ID/OD: 1.25
Reference Elevation:	Water Level: $2b_{g,i}$ Time: 0945	Hammer Type:
 Oepth (feet bgs) Sample Number Sample Number Penetration/ Recovery (feet) SPT Blows/6. N Value N Value PID Field Scan PID Field Scan PID Headspace Lab Tests Performed Lab Sample ID 	Sample Description and Classification	Remarks SSN
117910 2015 1.2 MPT	Brown - Mrc JAND, bib concrete - hand dug	
1,5 CO.1 pr 4.0	Grovelly fill - bit brick	GR
1.0 CO.1000-	TonF.SAND- Dags under	10
3.0 0 15 PPMO 14' 4.0 415 PPM @ 15'	Tan Moc SAND · saturted @ 12'by,	500
	BOB@ 16 bsr	
NOTES: No well or	Vopor point	

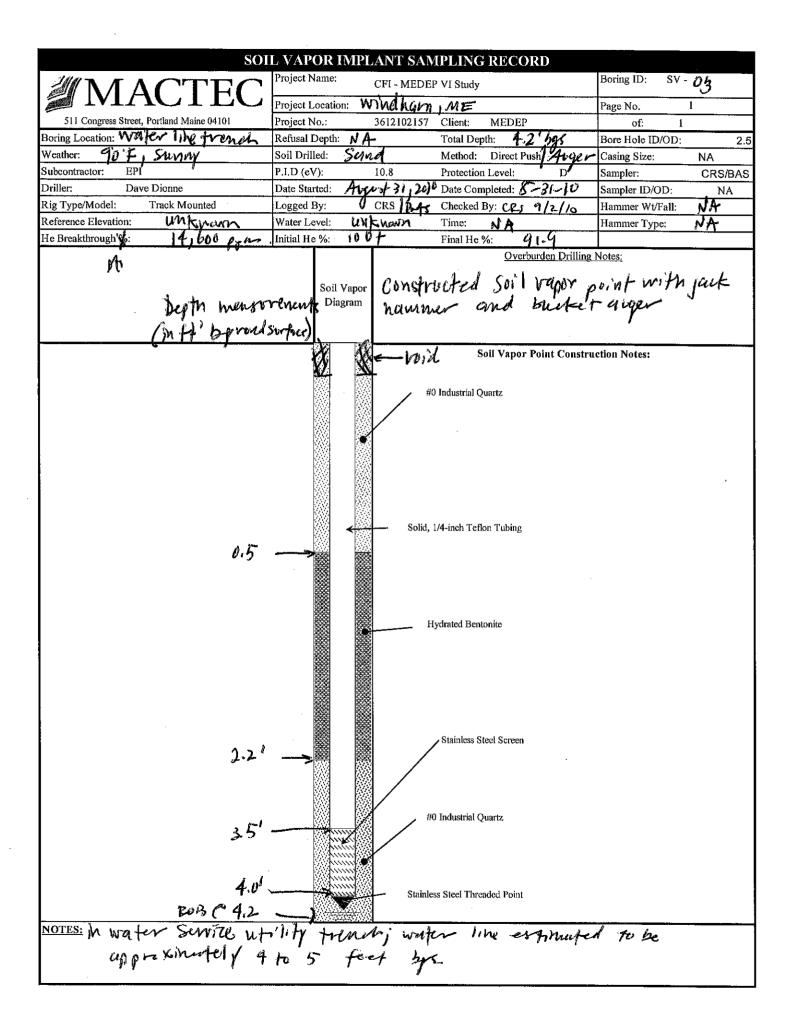


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Site Name:	CFI - Windha CMEDEPV	ήζ.				Sa	am	ple	Lo	cati	on	Ske	tch						
Town:	windhamime	J.	ì į				-	!	-	1	-								i
Date:	Angr 57 31,2010								1	1	ļ	└ └ ┙							
Sample I.D.:	51-01						r		F	<u> </u>	N			1 10 1					
Sampling Purpose	(Source) (Utility) (Mitigation) (Receptor) (Other)						1					1						e en Tarrado	
Sampling Personnel:	B. Shund / a. staples	5																111 B. 1040	
Project Manager	B.Shund / o. staples peter Evenita	- 104 - 1444									the result of the second secon								
Collection Device:	(Summa Can) (Tedlar Bag)												\ \ \			****			
Sample Penetration Location:	(Ashphatt) (Concrete) (Soil)													•	-69	w	¢,	ŧ	
Soil Type:	(EH) (Till) (Saro & Grável) (Glacial Marine)			Ŵ	- C -	6		1		-	-	.v	66						
Sample Depth:	11 bars				P		-						*						
Depth to Water:	~ 13' by	-100° VIIIICIIII		. Contract over			-		-	K	<u>1 \</u>								-
Suspected COCs:	(Petroleum) (Solvents)			1-1-6 3-431				-	-	(K N	11	M							
Cannister I.D.:	230							-					<u> </u>						
Flow Control I.D.:	265											<u> </u>				ŕ			-
Flow control rate:	-100 m1/mil				V_			Ð											
O ₂ Ambient	-100 ml/ml 20.91.			/', ',,	b			s v	, •'	5	-					4	6-0	1	
CO ₂ Ambient	AU3 ppm			7.				+(<u> </u>	7-		יי	
subsurface pressure/vacuum	(+/- inches of water column)		******	TELEVISION				1			1				Z	M	Ł	- Cr	TT TALABA
Pre-Sample: O ₂	0.0%							14-	-	t		÷		1	5		Ŧ	$\frac{1}{2}$	
Pre-Sample CO ₂ :	7 Locophy CLEL: 10)							\geq	\leq		\geq	R	\geq	1	K	\neq	$\left\{ \right\}$		
Pre-Sample PID:	278 003,001	2/201						ļ	1						Ķ		¥		
Pre-Sample CH₄:	20 312 (% Volume, %LEL, PPM)				+ †	W	14	to	ret			\$6-	02	X	<u> </u>	l i			
Sample Initiation Time:	1340.				-						-5	¥-	\$5	¢			老		
Initial Vacuum:	-30 + "		 	· • • • • • • • • • • • • • • • • • • •						-	-			T.	1		2	ð	وه
Sample End Time:	14:5		e	-		ふ	r		R	sor	1-	¢		3	02	-			
Final Vaccum:	~~ 4 ^{. µ}		<u>.</u>		1		1		<u>.</u>	<u></u>	<u>.</u>	1	-	<u>+</u>	1	<u>.</u> R		<u></u>	
Post Sample O ₂ :	0.1%																		
Post Sample CO ₂ :	76000 pp- (122-12)																		
H	1. Um Leck tost,									? "	84	H	e	12	mp	< -	tel	-:	
H	1.10m Look tost. e in budget: 100% + z in simple print:	· .								•				_ <u>`</u>	L	<u></u> م	ا حسن	1	. 48,
Notes:	2 in suple point :,	6 pp	ha	•							-1	e ch	Nin	V	· , }	≿¦ .	~~	59;† ∕	101
· · H	c inducted after i	read	ĩ٩		91	<u></u> 8	: 1				- p	5	, bj	_ متر	ρt	-7	۶Ŵ	P	~
V	· · · · · · · · · · · · · · · · · · ·		_ţ-						<u>c</u> l	eck	e l b	· ·	R	' 9	771	10			



Site Name:	Cop - wind ham (monop)	∕/∖ Sample Location Sketch
Town:	CFI - Wind ham (Morph). North Windham, NE	
Date:	744287 21, 2010	
Sample I.D.:	Augury 21, 2010	
Sampling Purpose	(Source) (Utility) (Mitigation) (Receptor) (Other)	
Sampling Personnel:	B-Shaw Costoples	
Project Manager	Peter premita	
Collection Device:	(Summa Can) (Tedlar Bag)	
Sample Penetration Location:	(Ashphalt) (Concrete) (Soil)	
Soil Type:	(Pill) (Till) (Sand & Gravel) (Glacial Marine)	- CW Karol KA
Sample Depth:	~ 10' 585	
Depth to Water:	13.1 Bys	Burtany
Suspected COCs:	(Petroleum) (Solvents)	
Cannister I.D.:	390; Nup: 320	
Flow Control I.D.:		
Flow control rate:	n 100 milmin	4 54+03
O ₂ Ambient	0176 j jup: 0287 100 ml/mm 21.911. (LEL:5).	
CO ₂ Ambient	470 80-	where the second
subsurface pressure/vacuum	(+/- inches of water column)	
Pre-Sample: O ₂	12.8	
Pre-Sample CO ₂ :	7 6000 ppm	Fund the second se
Pre-Sample PID:		Oppis sint a
Pre-Sample CH ₄ :		51/07 4 51/07 K
Sample Initiation Time:	متحلقل ، جاهل ; محطول ¹⁹⁵⁰	- US Routz 202
Initial Vacuum:	-30 J DVD: -30+	
Sample End Time:	1021 ; 540 = 1016	
Final Vaccum:	-4 j Dyp -4	
Post Sample O ₂ :	12.8.1.	
Post Sample CO ₂ :	76000 ppm; LEL: 11	
tł.c	him Leak fest psv.	-02. Herium post samples !
L L	te in Bucket: 100%.	+ Herion post sample : + In busker: 58.7%
Notes: H	te in Bucket: 100%." te in Bucket: 100%." e in simple point " in bucket after i	Pppin- simple port: ppm.
He	in propert after i	88.9%
		Checked by CRS 9/7/10

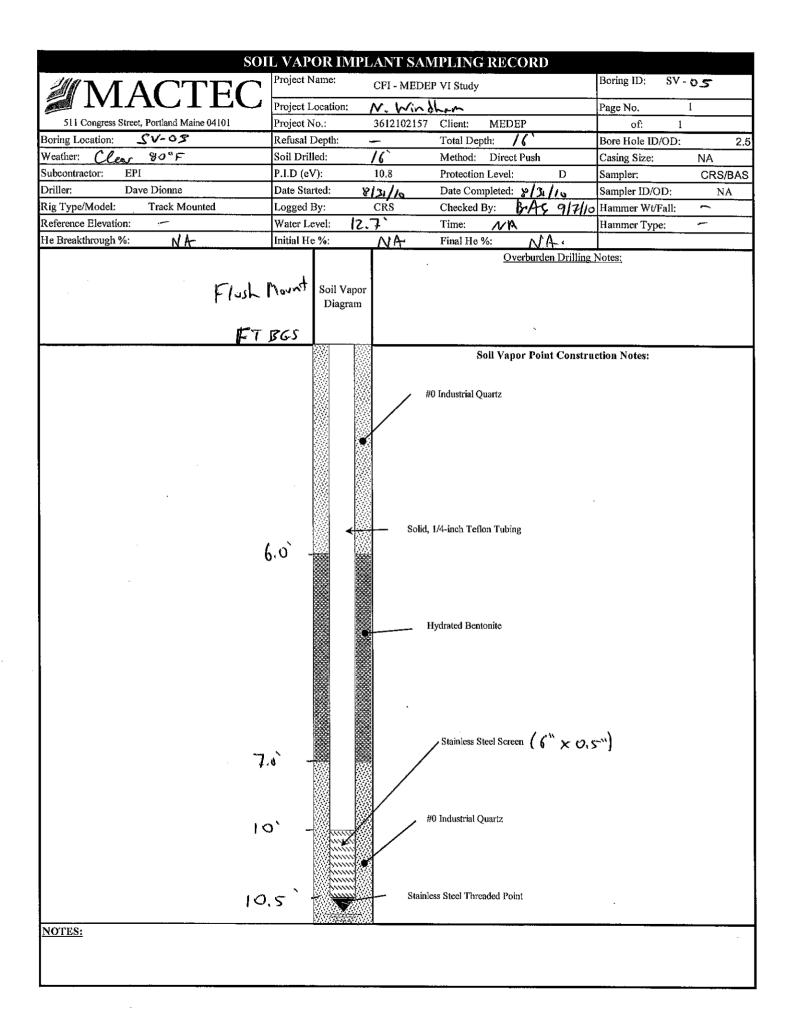


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Site Name:	Cn-Windham (MEDEPV)). Sample Location Sketch
Fown:	Con-Windham (MADEPV) Windham ME	
Date:	August 31, 2010	
Sample I.D.:	SN-03	
Sampling Purpose	(Source) ((tility) (Mitigation) (Receptor) (Other)	
Sampling Personnel:	2. Shaw C. Stuples	6.w 4 6.N - 04
² roject Manager	EShaw C. Staples Peter Eremita	
Collection Device:	(Summa Can) (Tedlar Bag)	
Sample Penetration .ocation:	(Ashphalt) (Concrete) (Soil)	
Soil Type:	(EIII) (Sand & Gravel) (Glacial Marine)	ot
Sample Depth:	4.2' 55	
Depth to Water:	UNKNWY	
Suspected COCs:	(Solvents)	
Cannister I.D.:	515	
low Control I.D.:	0062	Judan A Carta and A
Flow control rate:		me the khand
D ₂ Ambient	20.911	
CO ₂ Ambient	409 ppm=	\$ 5x105
subsurface pressure/vacuum	(+/- Inches of water column)	
Pre-Sample: O ₂	15.1%	E-ust Route 302 -
Pre-Sample CO ₂ :	>6000 pom (2EL: 5)	
Pre-Sample PID:	6220 pp= prv+:	3840.00
Pre-Sample CH ₄ :	(% Volume, %LEL, PPM)	
Sample Initiation Time:	1539	Ten M
Initial Vacuum:	-30 + 11	
Sample End Time:	1625	
Final Vaccum:	- 15"	
Post Sample O ₂ :	14.0%	
Post Sample CO ₂ :	7600 LEL:5	
U	ndurted Helium Snut	movy-test post He test:
Notes:	He in Smore of	100% 100% NA- NA- NA- NA- NA- NA- NA- NA-
		The property (\$4 to)

Lecter (by CR1 9/2/10



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Site Name:	GFI - Windham MEDEP	V1 Sample Location Sketch
Town:	Frindhaw, me	
Date:	August 31, 2010 SV-05	
Sample I.D.:	SV-05	
Sampling Purpose	(Source) (Utility) (Mitigation) (Receptor) (Other)	
Sampling Personnel:	BShan C.Staples	
Project Manager	BShan C.Staples Peter tremite	
Collection Device:	(Summa Can) (Tedlar Bag)	
Sample Penetration Location:	(Ashphalt) (Concrete) (Full in Mark
Soil ⊤ype:	(Fill) (Till) (Sand & Fravel) (Glacial Marine)	
Sample Depth:	10.5' 343	
Depth to Water:	10.5' bys ~13' bys '	
Suspected COCs;	(Petroleum) (Solvents)	
Cannister I.D.:	396	54-02
Flow Control I.D.:	298	
Flow control rate:	n LOO mil min	¥ 51-05
O ₂ Ambient	22.1 1, (IEL: 4)	- Cuthann
CO ₂ Ambient	Gits ppm	┨╺ ┥╸╿╹┝╺╎╸╎╸╎╸╎╸╎╸╎╸╎╸╎╸╎╸╎╸╎╸
subsurface pressure/vacuum	(+/- Inches of water column)) us toute 302
Pre-Sample: O ₂	32.45 15.1	
Pre-Sample CO ₂ :	7 6000 ppm (
Pre-Sample PID:	2800 pp = pr4 : LEL : 11 (% Voleme, %LEL, PPM)	280000
Pre-Sample CH₄:	LEL : 11 (% Voldme, %LEL, PPM)	
Sample Initiation Time:	1049 .	
Initial Vacuum:	-30t"	
Sample End Time:	PAY (0)3 -5"	
Final Vaccum:	-5"	
Post Sample O ₂ :	15.1	
Post Sample CO ₂ :	7 600 ppm (LEL: 10)	
Notes: di	dnot conduct He le	checked by CR1 - 977/10

Indoor Air/Subslab Sampling Field Sheet Maine DEP

Site Name:	Cumbe land Farms	Sample Location Sketch	
Town:	Windham		
Date:	43110		anne i Anne i
Sample I.D.:	612-06		
Project			
Manager:	Chemitra		
Sampling Personnel:	Frith/shari		
Collection Device:	(Summa Can) (Tedlar Bag)		
Sample Type:	(Subslab) (Indoor Air)		
Sampling Location:	Contor	Shanl grack	
Foundation Floor Type:	(Dirt) (Concrete)		
Foundation Wall Type:	(Concrete) (Block) (Stone) (Brick) (Slab on Grade)	Bah	
Sump Hole:	(Yes)((No) -)		
Penetrations in Floor:	(Sewer) (Water) (Gas) (Cracks) (Drains)		
Penetrations in Wall:	(Sewer) (Water) (Gas) (Electric) (Cracks)		
Suspected COCs;	(Petroleum) (Solvents)		
Cannister I.D.:	126		
Flow Control I.D.:	0365		
Flow control rate:	100		
O ₂ Ambient	20.9		
CO ₂ Ambient	1150		
Pre-Sample: O ₂	17.5%		
Pre-Sample CO ₂ :	5200 ppm		
Pre-Sample PID:	0		
Pre-Sample CH ₄ :	07.		
Sample Initiation Time:	220		
Initial Vacuum:	7-30		
Sample End Time:	1245		
Final Vaccum:	1245		
Post Sample O ₂ :	16.64.		
Post Sample CO ₂ ;	76000 pm (152:0)		
Notes/Observation	Jeppin II.S"	Helen tore i 100% in bucket Post 91.5% 3800 Breckthogh mple He: in Bucket: 33% checkel cp. 917	
V ,		mple He: in Burket: 33% checkel CR1 917	llo

		FIEL	D INSTR	UMENT	ATION	I CALIBRA	ATI	ON RECOR	2D	
PROJECT NAI	ME: /		EDEPVI			OTTERAT		ASK NO:		DATE: 08-31-10
PROJECT NU			02154					ACTEC CREW:	BAS	TCRS
PROJECT LOC			haven ;	ME			•	AMPLER NAME		Brandon Shaw
WEATHER CO	ONDITIONS (AN		70.5	sonny		· · · · · · · · · · · · · · · · · · ·		AMPLER SIGNA		
WEATHER CO	ONDITIONS (PM	ſ):	GE.F	< Unn	V			HECKED BY:	CET	DATE: 9/7/10
MULTI-PARA	AMETER WAT	ER OUALI	TY METER						<u> </u>	<u></u>
METER TYPE		201000								
MODEL NO.		_	a .		LIBRATI					<u>FION CHECK</u>
UNIT ID NO.			Start T	'ime	/End T	`ime		Start Time	/і	End Time
		— •• •	Standard	Mete	r	*Acceptance		Standard	Meter	*Acceptance
		Units	Value	Value	2	Criteria (AM) 🦯		Value	Value	Criteria (PM)
	pH (4)	SU	4.0		+/-	0.1 pH Units				
	рН (7)	SU	7.0	<u></u>	-+/-	0.1 pH Units		7.0		+/- 0.3 pH Units
	pH (10)	SU	10.0		— *⁄	0.1 pH Units			·	
	Redox	+/- mV	240		+/-	10 mV		240		+/- 10 mV
	Conductivity	mS/cm	1.413		Z +/-	3% of standard		1.413		+/- 5% of standard
1	DO (saturated)	%	100		+/-	2% of standard				
	DO (saturated)	mg/L^1			-+/-	0.2 mg/L				+/- 0.5 mg/L of
	DO (<0.1)	mg/L	<0.1		<0).5 mg/L				standard
	Temperature	°C								
	Baro. Press.	mmHg								
TURBIDITY	METER			Units	Standard	Meter		Standard	Meter	*Acceptance
METER TYPE	<u></u>	_/		Units	Value	Value	İ	Value	Value	Criteria (PM)
MODEL NO.		Ζ	a							
UNIT ID NO.			Standard	NTU	<0.1		.	<0.1		+/- 0.3 NTU of stan.
			Standard	NTU	20		.	20		+/- 5% of standard
			Standard	NTU	100		-	100	·	+/- 5% of standard
BUOTOIONI			Standard	NTU	800		.	800		+/- 5% Of standard
METER TYPE	ZATION DEFE	Ba Ba	ckground	ppmv	<0.1	0.0		<0.1		within 5 memory of DC
MODEL NO.	3000		okground -	PPIII	-011			-0.1	-/	within 5 ppmv of BG
UNIT ID NO.	MEDER	_	Span Gas	ppmv	100	99.8		100		+/- 10% of standard
O2-LEL 4 GAS	S METER						<u> </u>		····	
METER TYPE	;		Methane	%	50			50		+/- 10% of standard
MODEL NO.		_	O_2	%	20.9		•	20.9		+/- 10% of standard
UNIT ID NO.		_	H_2S	ppmv	25	····	-	25	• · · · · · · · · · · ·	4/- 10% of standard
			, hCO	ppmv	50		-	50		+/- 10% of standard
OTHER MET	ER Mini RA	e	K1				<u> </u>			•
METER TYPE	<u> </u>		1.03	0,0000	b					
MODEL NO.	POBMO	de) + _	10	10.0 Dem	` .					See Notes Below
UNIT ID NO.	o ine	_ • _								- for Additional
	1									- Information
Equip	ment calibrated with	in the Accepta	ance Criteria spe	ecified for each	of the param	eters listed above.				
Equip	ment (not) calibrate	d within the A	cceptance Crite	ria specified for	cach of the	parameters listed abo	ove**.			
MATERIALS	RECORD						<u>Cal</u>	. Standard Lot N	umber	Exp. Date
						pH (4)				
Deionized Water			Portland F	OS		рН (7)				
	e Produced:				<u> </u>	pH (10)				• • • • • • • • • • • • • • • • • • •
Trip Blank Sour Sample Preserve					<u> </u>	ORP Conductivity				
Disposable Filter			0.45µm cellulo	ise		<0.1 Turb. Stan.				
Calibration Flui		urce:			,	20 Turb. Stan.				
	tion Fluid (<0.1 n		Por	tland FOS		100 Turb, Stau.				·····
- Other		- /				800 Turb. Stan,	····			· · · · · · · · · · · · · · · · · · ·
- Other						PID Span Gas	100	1 9689		5-01-10
- Other						O2-LEL Span Gas		1		
	-					Other	Pip	minikae Oli)474	12-15-10.
NOTES:							••	5	ШТАЛ	ACTEC
								e e e e e e e e e e e e e e e e e e e	劃 IVI	AUIEU
									511 Congres	ss Street, Portland Maine 04101
<pre>[* = Unless otherwise no (EQASOP-GW001). end</pre>	oted, calibration procedu ch dated 1/19/2010. Add	titional acceptant	ce criteria are in ge criteria obtained	neral accordance	with USEPA Re	egion 1 SOPs for Field I	Instrume	ent Calibration (EQASOI	P-FieldCalibrat) an	nd Low Stress Purging and Sampling
** = If meter reading is	not within acceptance c	riteria, clean/repl	ace probe and re-c	alibrate, or use cal	ibrated back-up	meter if available. If pi	roject re	quirements necessitate u	se of the instrume	ent, clearly document any deviations
	a on all data sheets and I lard value is calculated b		Solubility at Indica	ated Pressure Chai	rt from the USE	PA Region 1 SOP for F	field Incl	rument Calibration (EQ/	ASOP-FieldCulity	at) dated 1/10/2010

	AIR AI	NALY	SIS	ΡA	GE	OF	Date R	ec'd in La	b:			a bayan Tana ya Wasang Ma	ALP	HA Jok	b #
	CHAIN OF CUSTODY	Project	Informati	on			Repo	rt Inform	ation -	Data D	eliverat	les	Billi	ng Infoi	rmation
320 Forbes Blvd, Mans TEL: 508-822-9300 F					FUEL		□ FAX	x					🗆 Sar	ne as Cli	ient info PO #:
Client Information		Project Name: (FI-MEDED VI Project Location: WINDANGM, ME							ecker:				ME	DEP	VI: Peter Erem
Client:	Encherrie	Project #:		21021			-	(Default base	ed on Regu	latory Crite	eria Indicatec				
$\frac{1}{1}$	engineering ongress st	Project M		huck		oles		Other Form AIL (stand		eport)			Reg	ulatory	Requirements/Report Lin
		ALPHA Q					_	ditional De					State/	Fed	Program Criteria
Phone: (267) 7	75-540	Turn-A	round Tin	ie			Report	t to: (if differer	it than Project	Manager)					X
ax: (207)	772 - 1762		rd 🗆	RUSH (only o	onfirmed if pre-au	pproved!)									<u> </u>
imail: Crsta	oles (mactec. co	in .				/							<u> </u>	ANAL	
	een previously analyzed by Alpha	Date Due	9:		Time:							/			
· · ·	cific Requirements/Com	ments:										15	,//	FIXED GASES	
	1 Coz and 1	2										Įć.		SES	
		Colum		elow Ilecti		st Be	∍ Fill	ed C	Dut	I		4 P)	D-15 SIM	200	
ALPHA Lab ID (Lab Use Only)	Sample ID [.]	Date	Start Time		Initial	Final Vacuum	Sample Matrix*	Sampler's Initials	s Can Size	l D Can	1 D - Flow Controller	70-74 70-75	FO Hat	FIXE	Sample Comments (i.e. I
	sv-ol	8-31-10	1340	1415	-30+	-4	SV	Bfs	22	230	265		X	XX	278 pp b
	51-02		0950	102]	-30	-4	SJ	BAS	22	390	176		Х	XX	908 ppb
	5V-02DUD		6950	1016	-3-0+	-4	5√	845	22	320	287	y	X	хX	908 opt
	SV-03		1534	1625	-30 t-	-15	s√	995	22	515	62		X	хX	(220 ppb.
	SV-05		1049	1113	-30+	-5	51	1897	22	· ·			Х	XX	2800 pp=
	51-06	1	1220	1245			SV	BAT	22	1			X	XX	28M-9 66
	<u> </u>				<u> </u>	· · ·	2	+		-	- * *				<u> </u>
				<u> </u>				-							
	84			 					12						
	O) 											
	MATRIX CODES	A = Ambien V = Soil Var Other = Please	por/Landfill (· · · · · · · · · · · · · · · · · · ·		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Container	Туре					Please print clearly, legibly ar completely. Samples can not
(1) Some propagation of the second state of		a hita ailite ann a' bha sha aite ann M	shed By:		, Dat	te/Time		.∉.#⊴ Rece	ived By:		<u> </u>	l Da	 ate/Tim	<u> </u>	logged in and turnaround time clock will not start until any ar
	Rva	nda	7 51	aw	9-	.]-]0)							• •	 guities are resolved. All samp submitted are subject to Alph Terms and Conditions.
				•	1						ĺ				See reverse side.

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