



MEMO

TO: Meghan Yovankin
FROM: Thomas Waldron
CC: Mohammad Yousef and Kasey McDonnell – NJDOT
Rachel Malaniak and Chris Watt – WSP
SUBJECT: **Soil and Monitoring Well Information – Solar PPA**
NJDOT Fernwood Maintenance Facility and Office Complex
DATE: **April 7, 2020**

WSP USA Solutions, Inc. (WSP) is providing soil and groundwater information collected at the Fernwood Maintenance Facility and Office Complex (Site) for the New Jersey Department of Transportation's (NJDOTs) proposed Solar Power Purchase Agreement (PPA) Project located in Ewing Township, New Jersey. The NJDOT anticipates the Project will consist of roof-mounted panels (yellow), ground-mounted panels (black), and parking canopy-mounted panels (red) to be installed throughout the Site; as depicted on Figure 1. Five known and suspected soil contamination areas are present at the Site (Figure 1). In addition, the proposed and existing monitoring well network is depicted on Figure 2. Pertinent soil and monitoring well information collected as part of ongoing environmental activities are attached.

Area 1- Former Thiokol Area: A soil and groundwater screening investigation is anticipated to be conducted by WSP in May 2020. This investigation is being conducted to evaluate suspected petroleum and chlorinated volatile organic compounds (VOCs) in soils. Contaminated soils are suspected based on the presence of contaminated groundwater plumes in Plume Area 1; depicted on Figure 2. The proposed investigation will include the installation of soil borings and monitoring wells. Currently, no known soil investigations have been conducted in the area of the proposed ground mounts.

Monitoring well logs for MW-41 and MW-42, which include a description of soils in Area 1, are provided in Attachment 1.

Area 2 – Vehicle Wash Area: A soil and groundwater investigation has been conducted in this area. During the installation of the vehicle wash building, a subsurface dumping area was discovered with most of the debris being removed. The area excavated was then filled with clean three-quarter inch stone. Residual soil contamination containing polychlorinated biphenyls (PCBs), SVOCs, and metals, particularly lead (assumed to be associated with spent sand blasting material), are present. Residual soil contamination in this area will be deed noticed; however, additional soil delineation is anticipated in May 2020. This investigation is being conducted to



evaluate the horizontal extent of the contamination in the vicinity of the proposed canopy mounts.

Soil sampling results and monitoring well logs for wells MW-25 through MW-27, which include a description of the soils in Area 2, are provided in Attachment 2.

Area 3 and Area 4- Area 3 is the drum crusher area and Area 4 is the location of a former Underground Storage Tank (UST). Soil contamination is known and suspected in both these areas; however, no solar mounts are currently proposed. VOCs and semi-volatile organic compounds (SVOCs) are suspected in Area 3, while extractible petroleum hydrocarbons (EPH) are known to be present in Area 4.

Area 5- Fueling Station Area: Soil and groundwater investigations have been conducted in this area to evaluate discharges associated with the fueling station and Underground Storage Tanks (USTs). There are currently three 20,000-gallon capacity USTs in this area. Low concentrations of petroleum and chlorinated VOCs have been identified in the soils. A soil investigation is proposed May 2020 to evaluate VOCs in soils. Two groundwater plumes are present in this area, a gasoline additive (tertiary-butyl-alcohol [TBA]) plume and a benzene plume which are located in the vicinity of the fueling station area. Both plumes are depicted on Figure 2 as Plume Areas 2 and 3.

Soil sampling results and monitoring well logs for MW-1 through MW-4, MW-8, MW-9 and MW-10, which include a description of soil in Area 5, are provided in Attachment 3.

Kind Regards,
WSP USA Solutions Inc.

A handwritten signature in blue ink, appearing to read 'T Waldron', with a long horizontal line extending to the right.

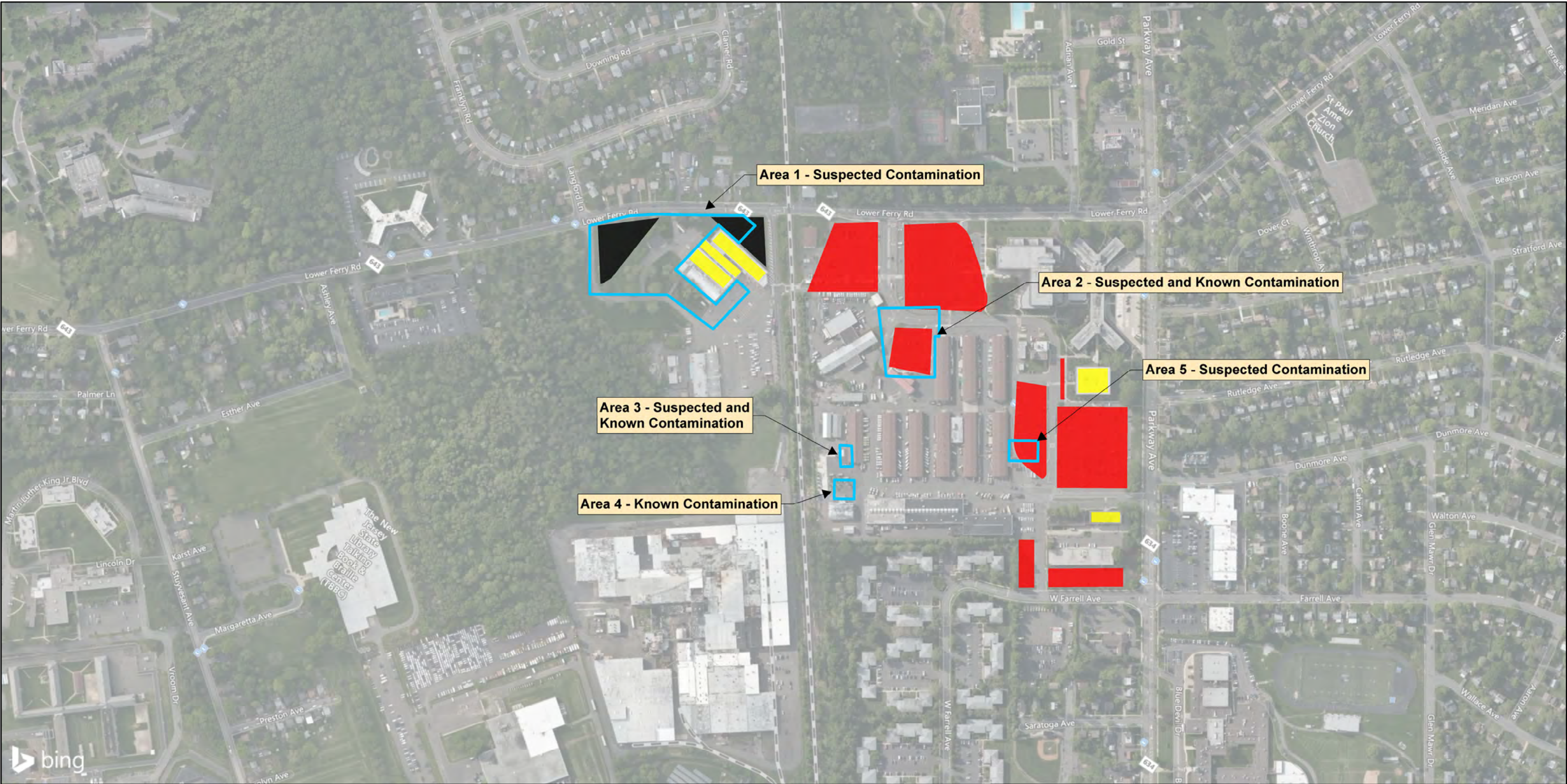
Thomas Waldron, LSRP
Program Manager, Water and Environment

Enclosure:

- Figure 1 Known and Suspected Areas of Soil Contamination
- Figure 2 Shallow Groundwater Plumes and Monitoring Well Locations
- Attachment 1 Monitoring Well Logs (Area 1)
- Attachment 2 Soil Sampling Results and Monitoring Well Logs (Area 2)
- Attachment 3 Soil Sampling Results and Monitoring Well Logs (Area 5)

FIGURES

Date Saved: 2020/04/01
\\mnt-fs-01\p\Operations\0341\012 - Fernwood\05 - Mapping\GIS\2020 Solar\Install Figure 1 Known and Susp Soil Cont Areas.mxd;



Solar Development Areas

■ Canopy Mount

■ Ground Mount

■ Roof Mount

□ Site Boundary

□ Suspected or Known Area of
Soil Contamination

Contaminants of Concern

Area 1 = VOCs

Area 2 = Lead, SVOCs, PCBs, & other Metals

Area 3 = VOCs and SVOCs

Area 4 = EPH

Area 5 = VOCs

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Coordinate System:
NAD 1983 StatePlane New
Jersey FIPS 2900 Feet

April 2020



Figure 1
Known and Suspected Areas of Soil Contamination
NJDOT - Fernwood
Trenton, New Jersey

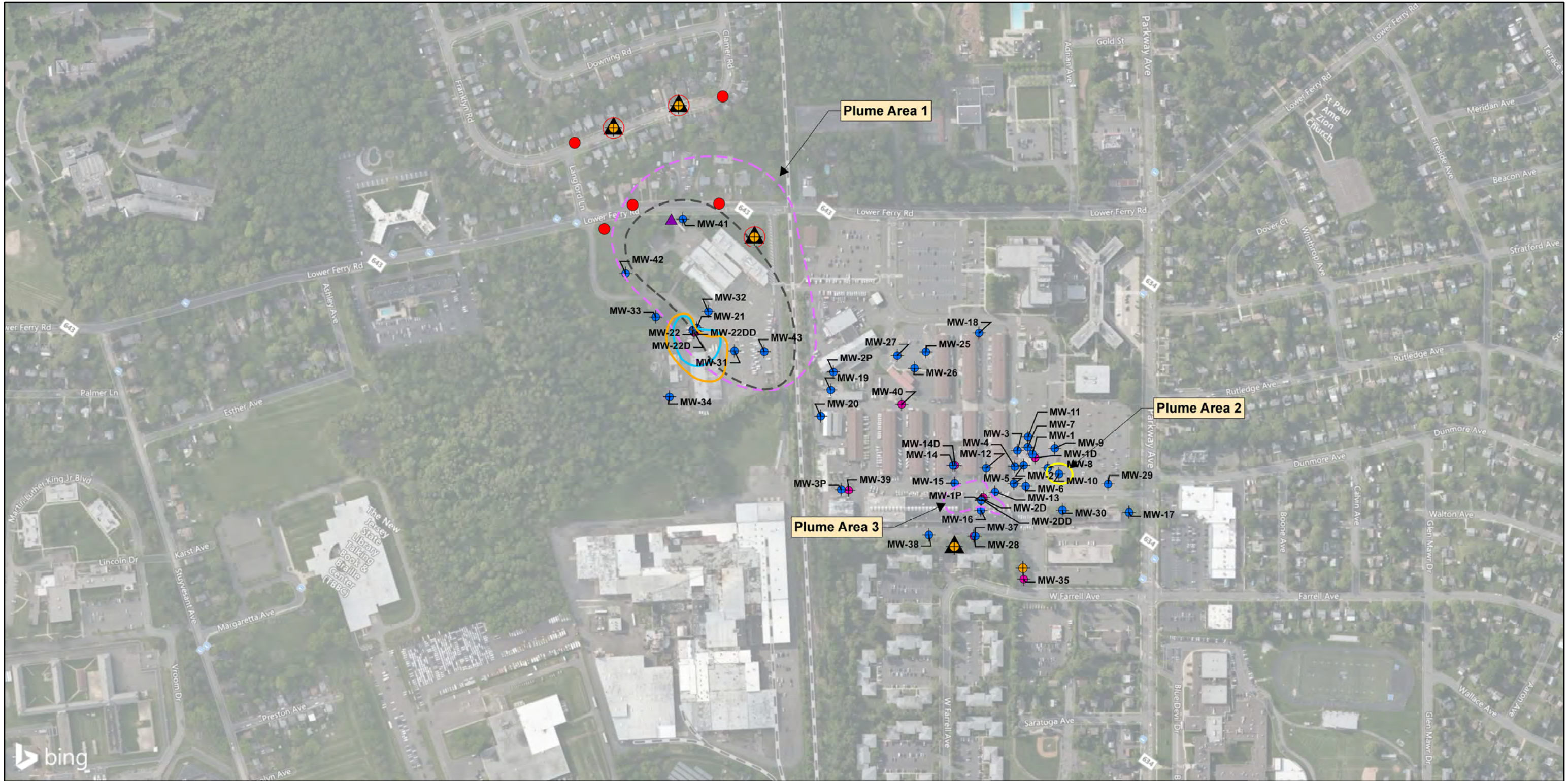


wsp

0 400 800
Feet



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\\mntn-fs-01\p\Operations\0341\012 - Fernwood\05 - Mapping\GIS\2020 Solar\Install Figure 2 Shallow GW Plumes and MW Locations.mxd



Solar Development Areas

- Canopy Mount
- Ground Mount
- Roof Mount

Contaminant Plumes

- Benzene (1 ug/L)
- Carbon Tetrachloride (1 ug/L)
- Tertiary-Butyl-Alcohol (1 ug/L)
- PCE (1 ug/L)
- TCE (1 ug/L)

Existing Monitoring Wells

- Overburden Monitoring Well Location
- Bedrock Monitoring Well Location
- Site Boundary

Proposed FY2020 Activity Locations

- Temporary Well Location
- Overburden Monitoring Well Location
- Overburden & Bedrock Monitoring Well Location
- Temporary Well, Overburden & Bedrock Monitoring Well Location
- Double Cased Bedrock Monitoring Well Location

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NAD 1983 StatePlane New
Jersey FIPS 2900 Feet

April 2020



Figure 2
Shallow Groundwater Plumes and
Monitoring Well Locations
NJDOT - Fernwood
Trenton, New Jersey



0 400 800 Feet



ATTACHMENT 1
AREA 1: FORMER THIOKOL AREA



Louis Berger

Drilling Log

Page 1 of 2

BORING NO.: MW-41

WELL NO.: MW-41

CLIENT: New Jersey Department of Transportation

PROJECT NO.: 2001811.004

PROJECT: Fernwood Maintenance Complex

DATE STARTED: 5/17/2019

DRILLING CONTRACTOR: Talon Drilling, Inc

DATE FINISHED: 5/17/2019

DRILLING METHOD: Direct Push

DRILLER: C. Jarowski

BOREHOLE DATA

WELL DATA

INSPECTOR: J. Shulack

Diameter (in): 6

Completion: Flushmount

NORTHING: NA

Total Depth (ft.): 12.5

Total Depth (ft.): 12

EASTING: NA

Sampler: Macrocore

Screen Length (ft.)/Slot (in): 10/0.010

GROUND ELEVATION: NA

Depth to Water (ft.): 4.0

Depth to Water (ft.): 5.35

TOC ELEVATION: NA

Depth to Rock (ft.): 12.5

Permit No.: E201903945

NOTES:

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
		TOPSOIL					<1	Dusky yellowish brown (10YR 2/2), TOPSOIL, moist.	Topsoil
		CL					<1	Dark yellowish orange (10YR 6/6) to pale yellowish orange (10YR 8/6), Silty CLAY, some medium to fine Sand, moist.	Sandy Silty Clay
	2								
	4	SC					<1	Dark yellowish orange (10YR 6/6) to pale yellowish orange (10YR 8/6), coarse to fine SAND, some Silty Clay, trace medium to fine Gravel, wet.	Silty Clayey Sand
		SC					117	Dark yellowish orange (10YR 6/6) to pale yellowish orange (10YR 8/6), coarse to fine SAND, some Silty Clay, trace medium to fine Gravel, wet.	



Louis Berger

Drilling Log

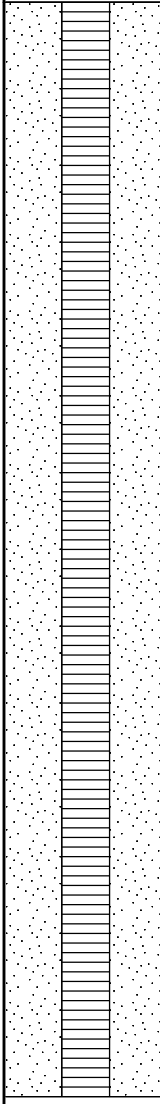
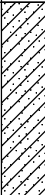




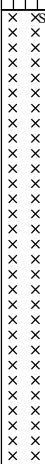






Page 2 of 2

BORING NO.: MW-41

WELL NO.: MW-41

CLIENT: New Jersey Department of Transportation

PROJECT NO.: 2001811.004

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks			
	—		ML				4.5	Dark yellowish orange (10YR 6/6) to pale yellowish orange (10YR 8/6), coarse to fine SAND, some Silty Clay, trace medium to fine Gravel, wet.	Sandy Clayey Silt			
	—							Pale reddish brown (10R 5/4) to dark yellowish orange (10YR 6/6), Clayey SILT, some medium to fine Sand, wet.				
	8	<1						SILTSTONE				
10			12									
	12							Total Depth of Boring 12.5 feet.				
	14											



Drilling Log

Page 1 of 2

BORING NO.: MW-42

WELL NO.: MW-42

CLIENT: New Jersey Department of Transportation

PROJECT NO.: 2001811.004

PROJECT: Fernwood Maintenance Complex

DATE STARTED: 5/10/2019

DRILLING CONTRACTOR: Talon Drilling, Inc

DATE FINISHED: 5/10/2019

DRILLING METHOD: Hollow Stem Auger

DRILLER: C. Jarowski

BOREHOLE DATA

WELL DATA

INSPECTOR: J. Shulack

Diameter (in): 6

Completion: Flushmount

NORTHING: NA

Total Depth (ft.): 9.5

Total Depth (ft.): 9

EASTING: NA

Sampler: Split Spoon

Screen Length (ft.)/Slot (in): 7/0.010

GROUND ELEVATION: NA

Depth to Water (ft.): 3.8

Depth to Water (ft.): 2.97

TOC ELEVATION: NA

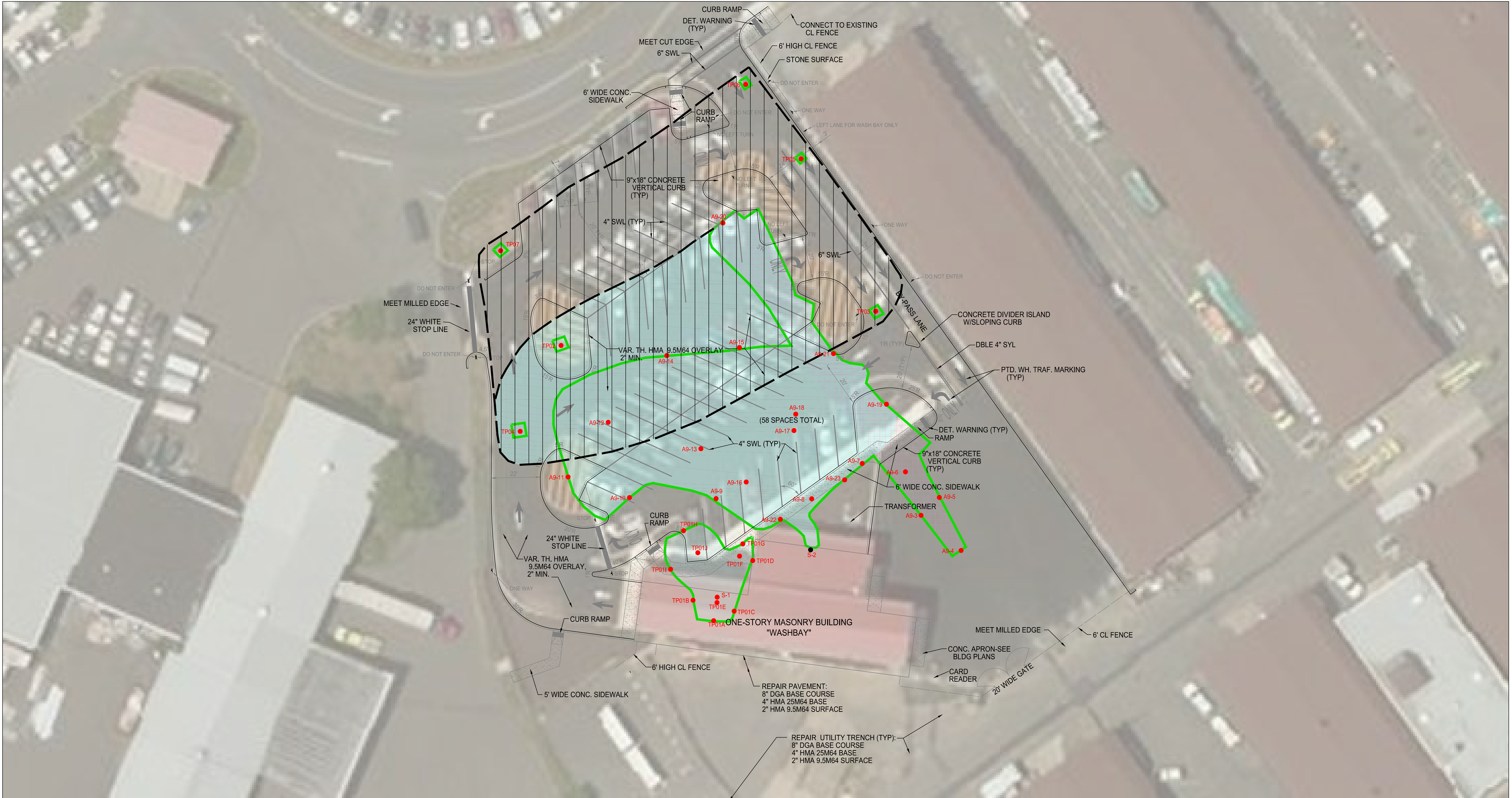
Depth to Rock (ft.): 9.5

Permit No.: E201903946

NOTES:

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
			SC				<1	Moderate brown (5YR 4/4), coarse to fine SAND, some Silty Clay, trace medium to fine Gravel, moist.	Silty Clayey Sand
	2		SC	3			<1	Moderate brown (5YR 4/4), coarse to fine SAND, some Silty Clay, trace medium to fine Gravel, moist.	
	4		SC	4			<1	Moderate brown (5YR 4/4), coarse to fine SAND, some Silty Clay, trace medium to fine Gravel, moist.	
				3					

ATTACHMENT 2
AREA 2: VEHICLE WASH AREA



- Approximate Soil Sample Location
- Approximate Test Pit Location
- Approximate Extent of Excavation

- Wood Debris
- Metal Debris/ Tar/ Petroleum/ Concrete
- Black Beauty

Image courtesy of:
Microsoft Corp, 2018;
DigitalGlobe, 2018;
CNES Distribution Airbus DS, 2018

Coordinate System:
NAD 1983 StatePlane New Jersey
FIPS 2900 Feet

September 2018

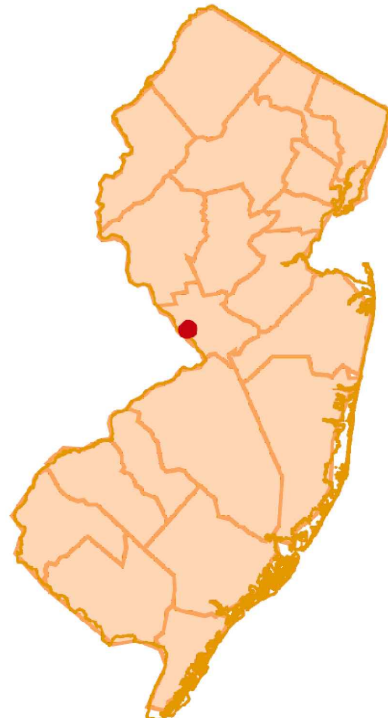


Figure 19
Debris and Excavation Extent AOC 34
NJDOT - Fernwood Maintenance Facility
and Office Complex
Ewing Township, New Jersey



Louis Berger





- Approximate Soil Sample Location
- Approximate Test Pit Location
- Approximate Extent of Excavation
- Approximate Extent of Delineation

Notes:

- All results are dry weight and are reported in parts per million (mg/kg)
- NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2012
- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2012
- IGWSRS = Default Impact to Ground Water Soil Remediation Standard is from the NJDEP's "Soil-Water Partition Equation Guidance Document" dated June 2008 (revised December 2008)
- NC = No Criteria
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit
- N/A = Not Analyzed
- J = Estimated value
- **Bolded values indicate positive detections**
- **Bolded and Shaded value exceeds one or more of SRS**

Image courtesy of:
Microsoft Corp, 2018;
DigitalGlobe, 2018;
CNES Distribution Airbus DS, 2018

Coordinate System:
NAD 1983 StatePlane New Jersey
FIPS 2900 Feet

September 2018

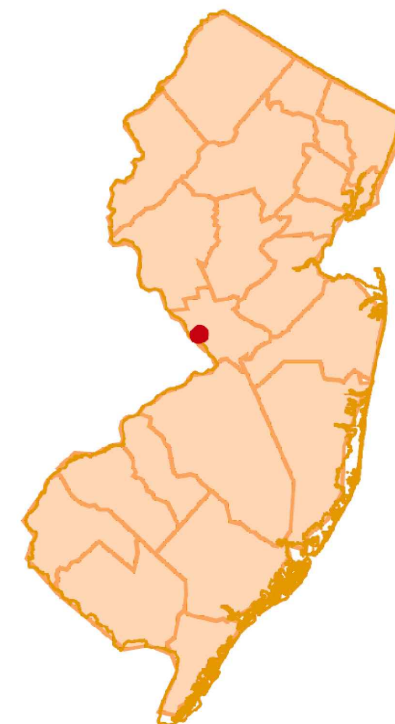
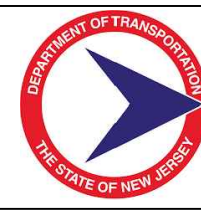


Figure 20
EPH Results and Post Excavation Soil Exceedances AOC 34
NJDOT - Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey



Louis Berger

0 20 40 80 Feet



Table 5
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey
EPH Soil Analytical Results - Vehicle Wash Area (AOC 34)

Location ID				TP01										TP02		TP03				TP04		
Sample ID				TP01A	TP01B	TP01C	TP01D	TP01E	TP01F	TP01G	TP01H	TP01I	TP01J	DUP01	TP02A	TP02B	TP03A	TP03B	TP03	DUP01	TP04A	TP04B
Lab ID				JB42805-1	JB42805-2	JB42849-1	JB42849-2	JB42849-3	JB43224-1	JB43224-2	JB43224-5	JB43224-3	JB43224-4	JB43224-6	JB44970-1	JB44970-2	JB45917-1	JB45917-2	JB47515-3	JB47515-11	JB45917-3	JB45917-4
Sample Depth (ft, bgs)				11.5 - 12.0	11.5 - 12.0	11.5 - 12.0	8.5 - 9.0	11.5 - 12.0	10.0 - 10.5	5.5 - 6.0	5.5 - 6.0	5.5 - 6.0	7.5 - 8.0	3.0 - 3.5	2.5 - 3.0	3.0 - 3.5	1.5 - 2.0	2.0 - 2.5	3.0 - 3.5	3.0 - 3.5	0.5 - 1.0	2.0 - 2.5
Sample Date				7/22/2013	7/22/2013	7/23/2013	7/23/2013	7/23/2013	7/26/2013	7/26/2013	7/26/2013	7/26/2013	7/26/2013	7/26/2013	8/16/2013	8/16/2013	8/28/2013	8/28/2013	9/16/2013	9/16/2013	8/28/2013	8/28/2013
EPH	NRDCSRS	RDCSRS	IGWSRS																			
EPH (C9-C28)	NC	NC	NC	8.2 U	8.1 U	7.7 U	7.6 U	7.8 U	417	7.3 U	9.1 U	7.6 U	7.6 U	7.7 U	428	7.1 U	6420	6.9 U	1470	1350	10100	305
EPH (>C28-C40)	NC	NC	NC	8.2 U	8.1 U	7.7 U	7.6 U	7.8 U	306	7.3 U	9.1 U	7.6 U	7.6 U	7.7 U	312	7.1 U	5410	6.9 U	2550	2480	1680	276
Total EPH (C9-C40)	54000	5100	NC	8.2 U	8.1 U	7.7 U	7.6 U	7.8 U	723	7.3 U	9.1 U	7.6 U	7.6 U	7.7 U	740	7.1 U	11800	6.9 U	4020	3830	11700	581

Location ID				TP05		TP06		TP07		A9-1	A9-2	A9-3	A9-4	A9-5	A9-6			A9-7	A9-8	A9-9	A9-10	A9-11
Sample ID				TP05A	TP05B	TP06A	TP06B	TP07A	TP07B	A9-1	A9-2	A9-3	A9-4	A9-5	A9-6	DUP01	A9-6(2)	A9-7	A9-8	A9-9	A9-10	A9-11
Lab ID				JB46022-2	JB46022-4	JB46022-5	JB46022-6	JB46022-7	JB46022-8	JB44266-1	JB44266-2	JB44712-1	JB44712-2	JB44712-3	JB44712-4	JB44712-5	JB46022-1	JB44712-6	JB44712-7	JB44970-3	JB44970-4	JB44970-5
Sample Depth (ft, bgs)				2.5 - 3.0	3.0 - 3.5	3.5 - 4.0	4.0 - 4.5	5.5 - 6.0	6.0 - 6.5	4.0 - 4.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5	3.0 - 3.5	3.0 - 3.5	4.0 - 4.5	8.0 - 8.5	8.0 - 8.5	2.5 - 3.0	1.5 - 2.0	1.0 - 1.5
Sample Date				8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/8/2013	8/8/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/29/2013	8/14/2013	8/14/2013	8/16/2013	8/16/2013	8/16/2013
EPH	NRDCSRS	RDCSRS	IGWSRS																			
EPH (C9-C28)	NC	NC	NC	87.3	7.7 U	634	7.6 U	223	7.3 U	7.2 U	7.5 U	8.1 U	7.8 U	7.7 U	94.5	222	7.6 U	8.2 U	8.1 U	7.8 U	7.7 U	33.7
EPH (>C28-C40)	NC	NC	NC	51.6	7.7 U	764	7.6 U	192	7.3 U	7.2 U	7.5 U	8.1 U	7.8 U	7.7 U	28.7	111	7.6 U	8.2 U	8.1 U	7.8 U	7.7 U	7.7 U
Total EPH (C9-C40)	54000	5100	NC	139	7.7 U	1400	7.6 U	415	7.3 U	7.2 U	7.5 U	8.1 U	7.8 U	7.7 U	123	333	7.6 U	8.2 U	8.1 U	7.8 U	7.7 U	33.7

Location ID				A9-12	A9-13	A9-14		A9-15		A9-16	A9-17	A9-18	A9-19	A9-20			A9-22	A9-23	A9-24
Sample ID				A9-12	A9-13	A9-14	A9-14B	A9-15	A9-15B	A9-16	A9-17	A9-18	A9-19	A9-20	A9-20A	A9-20B	A9-22	A9-23	A9-24
Lab ID				JB44970-6	JB44970-7	JB45307-1	JB47515-6	JB45307-2	JB47515-8	JB45722-1	JB45722-2	JB45722-3	JB45722-4	JB45779-1	JB47515-9	JB47515-10	JB46022-9	JB46022-10	JB46022-11
Sample Depth (ft, bgs)				3.0 - 3.5	3.0 - 3.5	2.5 - 3.0	4.0 - 4.5	3.0 - 3.5	4.0 - 4.5	7.5 - 8.0	11.5 - 12.0	7.5 - 8.0	5.5 - 6.0	2.5 - 3.0	2.5 - 3.0	4.0 - 4.5	3.5 - 4.0	3.5 - 4.0	3.5 - 4.0
Sample Date				8/16/2013	8/16/2013	8/21/2013	9/16/2013	8/21/2013	9/16/2013	8/26/2013	8/26/2013	8/26/2013	8/26/2013	8/27/2013	9/16/2013	9/16/2013	8/26/2013	8/26/2013	8/26/2013
EPH	NRDCSRS	RDCSRS	IGWSRS																
EPH (C9-C28)	NC	NC	NC	20.1	809	248	7.8 U	516	8.5 U	66.5	7.4 U	8.1 U	6.9 U	179	254	7 U	7.4 U	35	7.5 U
EPH (>C28-C40)	NC	NC	NC	7.7 U	573	193	7.8 U	303	8.5 U	7.5 U	7.4 U	8.1 U	6.9 U	167	239	7 U	7.4 U	23.4	7.5 U
Total EPH (C9-C40)	54000	5100	NC	20.1	1380	440	7.8 U	819	8.5 U	66.5	7.4 U	8.1 U	6.9 U	346	493	7 U	7.4 U	58.4	7.5 U

Notes:

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- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2012
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- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit
- J = Estimated value
- Bolded values indicate positive detections
- Bolded and Shaded meets or exceeds one of SRS

Table 5
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey
TCL/TAL Soil Sampling Analytical Results - Vehicle Wash Area (AOC 34)

Location ID				TP01	TP02			TP03		TP04		TP05		TP06		TP07		A9-3	A9-4	A9-5
Sample ID				TP01F	TP02A	TP02B	TP02B	TP03A	TP03B	TP04A	TP04B	TP05A	TP05B	TP06A	TP06B	TP07A	TP07B	A9-3	A9-4	A9-5
Lab ID				JB43224-1	JB44970-1	JB44970-2	JB47515-2	JB45917-1	JB45917-2	JB45917-3	JB45917-4	JB46022-2	JB46022-4	JB46022-5	JB46022-6	JB46022-7	JB46022-8	JB44712-1	JB44712-2	JB44712-3
Sample Depth (ft , bgs)				10 - 10.5	2.5 - 3.0	3.0 - 3.5	3.0 - 3.5	1.5 - 2.0	2.0 - 2.5	0.5 - 1.0	2.0 - 2.5	2.5 - 3.0	3.0 - 3.5	3.5 - 4.0	4.0 - 4.5	5.5 - 6.0	6.0 - 6.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5
Sample Date				7/26/2013	8/16/2013	8/16/2013	9/16/2013	8/28/2013	8/28/2013	8/28/2013	8/28/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/14/2013	8/14/2013	8/14/2013
Metals	NRDCSRS	DCSRS	IGWSRS																	
Aluminum	NC	78000	3900	14200	10900	15800	N/A	8020	19900	27300	17900	3790	N/A	15900	N/A	7000	24500	N/A	N/A	N/A
Antimony	450	31	6	3.5	3.8	2.4 U	N/A	2.1 U	2.5 U	2.2 U	2.3 U	5.1	N/A	2 U	N/A	7.2	2.2 U	N/A	N/A	N/A
Arsenic	19	19	19	9.8	10.3	5.5	N/A	4.5	8.2	7.7	6.1	7.9	N/A	10.5	N/A	27.4	5.4	N/A	N/A	N/A
Barium	59000	16000	1300	90.1	280	44.5	N/A	90.9	41.7	79.1	37.6	430	N/A	114	N/A	156	25.4	N/A	N/A	N/A
Beryllium	140	16	0.5	0.85	0.49	0.24 U	N/A	0.4	0.77	0.75	0.68	0.68	N/A	0.78	N/A	0.99 U	0.28	N/A	N/A	N/A
Cadmium	78	78	1	0.59 U	1.5	0.59 U	N/A	0.53 U	0.62 U	0.56 U	0.57 U	1	0.61 U	0.72	N/A	2.5 U	0.56 U	N/A	N/A	N/A
Calcium	NC	NC	NC	3920	11400	938	N/A	11300	704	560 U	570 U	1470	N/A	1480	N/A	3160	957	N/A	N/A	N/A
Chromium	NC	NC	NC	22.9	36.1	23.8	N/A	8.1	28	7	26.7	7.2	N/A	21.6	N/A	28.6	28.1	N/A	N/A	N/A
Cobalt	590	1600	59	8.3	8.9	6.6	N/A	6.3	6.6	11.3	5.7 U	5.3	N/A	7.4	N/A	11.2	5.6 U	N/A	N/A	N/A
Copper	45000	3100	7300	96.2	127	10.2	N/A	42.1	12.2	17.9	11.5	48.5	N/A	66.2	N/A	137	8.3	N/A	N/A	N/A
Cyanide	680	47	13	N/A	N/A	N/A	N/A	0.24 U	0.29 U	0.26 U	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Iron	NC	NC	NC	21500	25200	19400	N/A	14000	26400	11200	24300	9510	N/A	19900	N/A	154000	19200	N/A	N/A	N/A
Lead	800	400	90	122	627	13.7	N/A	66.9	10.6	11.8	10.4	483	10.7	161	10.1	346	9	N/A	N/A	N/A
Magnesium	NC	NC	NC	2440	2750	2290	N/A	2180	2240	1610	2240	500 U	N/A	1990	N/A	861	695	N/A	N/A	N/A
Manganese	5900	11000	42	226	280	308	N/A	120	137	209	146	49.2	N/A	327	N/A	686	27.5	N/A	N/A	N/A
Mercury	65	23	0.1	0.037	0.15	0.036 U	N/A	0.053	0.038 U	0.036 U	0.036 U	0.22	N/A	0.15	N/A	0.21	0.049	N/A	N/A	N/A
Nickel	23000	1600	31	16.8	17	13.1	N/A	10.9	12.9	33.8	12.5	14.1	14	15.4	N/A	69	8.1	N/A	N/A	N/A
Potassium	NC	NC	NC	1200 U	1200 U	1200 U	N/A	1100 U	1200 U	1100 U	1100 U	990 U	N/A	1000 U	N/A	990 U	1100 U	N/A	N/A	N/A
Selenium	5700	390	7	2.3 U	2.4 U	2.4 U	N/A	2.1 U	2.5 U	2.2 U	2.3 U	2 U	N/A	2 U	N/A	9.9 U	2.2 U	N/A	N/A	N/A
Silver	5700	390	1	0.59 U	1.5	0.59 U	N/A	0.53 U	0.62 U	0.56 U	0.57 U	0.5	N/A	0.96	N/A	3.3	0.56 U	N/A	N/A	N/A
Sodium	NC	NC	NC	1200 U	1200 U	1200 U	N/A	1100 U	1200 U	1100 U	1390	990 U	N/A	1000 U	N/A	990 U	1100 U	N/A	N/A	N/A
Thallium	79	5	3	1.2 U	1.2 U	1.2 U	N/A	1.1 U	1.2 U	1.1 U	1.1 U	0.99 U	N/A	1 U	N/A	5 U	1.1 U	N/A	N/A	N/A
Vanadium	1100	78	NC	35	49.1	35.7	N/A	54.8	43.3	10	35.9	14	N/A	33.9	N/A	22.4	37.1	N/A	N/A	N/A
Zinc	110000	23000	600	197	682	35.4	N/A	61	32.1	53.9	36.2	340	N/A	209	N/A	481	19.9	N/A	N/A	N/A
PCBs																				
Aroclor 1016	NC	NC	NC	0.038 U	0.037 U	N/A	0.034 U	0.033 U	0.036 U	0.036 U	0.038 U	0.043 U	N/A	0.039 U	N/A	0.042 U	N/A	N/A	N/A	N/A
Aroclor 1221	NC	NC	NC	0.038 U	0.037 U	N/A	0.034 U	0.033 U	0.036 U	0.036 U	0.038 U	0.043 U	N/A	0.039 U	N/A	0.042 U	N/A	N/A	N/A	N/A
Aroclor 1232	NC	NC	NC	0.038 U	0.037 U	N/A	0.034 U	0.033 U	0.036 U	0.036 U	0.038 U	0.043 U	N/A	0.039 U	N/A	0.042 U	N/A	N/A	N/A	N/A
Aroclor 1242	NC	NC	NC	0.038 U	0.037 U	N/A	0.034 U	0.033 U	0.036 U	0.036 U	0.038 U	0.043 U	N/A	0.039 U	N/A	0.042 U	N/A	N/A	N/A	N/A
Aroclor 1248	NC	NC	NC	0.038 U	0.037 U	N/A	0.034 U	0.033 U	0.036 U	0.036 U	0.038 U	0.043 U	N/A	0.039 U	N/A	0.042 U	N/A	N/A	N/A	N/A
Aroclor 1254	NC	NC	NC	0.038 U	0.037 U	N/A	0.034 U	0.033 U	0.036 U	0.036 U	0.038 U	0.043 U	N/A	0.039 U	N/A	0.042 U	N/A	N/A	N/A	N/A
Aroclor 1260	NC	NC	NC	0.038 U	0.29	N/A	0.105	0.033 U	0.036 U	0.036 U	0.038 U	0.043 U	N/A	0.039 U	N/A	0.042 U	N/A	N/A	N/A	N/A
Aroclor 1268	NC	NC	NC	0.038 U	0.037 U	N/A	0.034 U	0.033 U	0.036 U	0.036 U	0.038 U	0.043 U	N/A	0.039 U	N/A	0.042 U	N/A	N/A	N/A	N/A
Aroclor 1262	NC	NC	NC	0.038 U	0.037 U	N/A	0.034 U	0.033 U	0.036 U	0.036 U	0.038 U	0.043 U	N/A	0.039 U	N/A	0.042 U	N/A	N/A	N/A	N/A
Total PCBs	1	0.2	0.2	ND	0.29	N/A	0.105	ND	ND	ND	ND	ND	N/A	ND	N/A	ND	N/A	N/A	N/A	N/A

Notes:
- All Results are dry weight and are repoted in parts per million (mg/kg)
- NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2012
- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2012
- IGWSRS = Default Impact to Gound Water Soil Remediation Standard is from the NJDEP's "Soil-Water Partition Equation Guidance Document" dated June 2008 (Revised December 2008)
- NC = No Criteria
- ND = Non Detection
- U = Not detected above the quantitation limit; the value pesented is the sample quantitation limit
- J = Estimated value
- N/A = Not Analyzed
- Bolded values indicate positive detections
- Bolded and Shaded exceeds one or more of SRS

Table 5
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey

TCL/TAL Soil Sampling Analytical Results - Vehicle Wash Area (AOC 34)

Location ID				4			A9-13	A9-14		A9-15			A9-16	A9-17	A9-18	A9-20			A9-21	A9-22	A9-23	A9-24
Sample ID				A9-6	DUP01	A9-6(2)	A9-13	A9-14	A9-14B	A9-15	A9-15A	A9-15B	A9-16	A9-17	A9-18	A9-20	A9-20A	A9-20B	A9-21	A9-22	A9-23	A9-24
Lab ID				JB44712-4	JB44712-5	JB46022-1	JB44970-7	JB45307-1	JB47515-6	JB45307-2	JB47515-7	JB47515-8	JB45722-1	JB45722-2	JB45722-3	JB45779-1	JB47515-9	JB47515-10	JB45779-2	JB46022-9	JB46022-10	JB46022-11
Sample Depth (ft , bgs)				3.0 - 3.5	3.0 - 3.5	4.0 - 4.5	3.0 - 3.5	2.5 - 3.0	4.0 - 4.5	3.0 - 3.5	3.0 - 3.5	4.0 - 4.5	7.5 - 8.0	11.5 - 12.0	7.5 - 8.0	2.5 - 3.0	2.5 - 3.0	4.0 - 4.5	2.5 - 3.0	3.5 - 4.0	3.5 - 4.0	3.5 - 4.0
Sample Date				8/14/2013	8/14/2013	8/29/2013	8/16/2013	8/21/2013	9/16/2013	8/21/2013	9/16/2013	9/16/2013	8/26/2013	8/26/2013	8/26/2013	8/27/2013	9/16/2013	9/16/2013	8/27/2013	8/29/2013	8/29/2013	8/29/2013
Metals	NRDCSRS	DCSRS	IGWSRS																			
Aluminum	NC	78000	3900	N/A	N/A	N/A	28400	14900	38900	14000	10000	33100	22600	20100	17900	5480	7630	33600	N/A	18900	22200	11600
Antimony	450	31	6	N/A	N/A	N/A	2.3 U	45.1	2.2 U	25.1	10.3	2.1 U	2.2 U	2.4 U	2.5 U	19.8	219	2.3 U	N/A	2.3 U	2.3 U	2.3 U
Arsenic	19	19	19	N/A	N/A	N/A	8.1	26.4	19.8	7.8	13.5	7.5	12.4	7.4	7	13.9	13.8	14.5	N/A	6.7	7.2	6.2
Barium	59000	16000	1300	N/A	N/A	N/A	71.8	2480	42.8	443	523	44.7	127	132	80	268	231	51.3	N/A	36.7	49.2	36.2
Beryllium	140	16	0.5	N/A	N/A	N/A	0.45	0.64	0.38	0.53	0.94	0.28	0.31	0.32	0.8	1.1	0.41	0.55	N/A	0.59	0.63	0.23 U
Cadmium	78	78	1	N/A	N/A	N/A	0.57 U	7.2	0.56 U	2.1	3.3	0.52 U	0.56 U	0.64	0.63 U	3.2	0.77	0.58 U	N/A	0.57 U	0.7	0.58 U
Calcium	NC	NC	NC	N/A	N/A	N/A	863	5640	832	2640	5130	2400	1120	663	630 U	1360	2210	1240	N/A	812	1260	N/A
Chromium	NC	NC	NC	N/A	N/A	N/A	34.4	65.5	43.4	35.8	20.4	40.1	28.2	14.7	24.6	15.3	13.9	50	N/A	25	26.1	18.2
Cobalt	590	1600	59	N/A	N/A	N/A	0.57 U	9.8	5.6 U	7.7	7.5	5.2 U	5.6 U	5.9 U	8.3	6.2	6.3	6.2	N/A	0.57 U	0.58 U	0.58 U
Copper	45000	3100	7300	N/A	N/A	N/A	14.3	282	14.9	520	179	25.3	19	28.6	21.3	90.5	119	20.1	N/A	11.4	168	11.1
Cyanide	680	47	13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.28 U	N/A	N/A	0.28 U	N/A	N/A	N/A
Iron	NC	NC	NC	N/A	N/A	N/A	24600	46800	34500	24000	15800	24000	29400	28200	42200	32300	20700	39400	N/A	22600	24700	16900
Lead	800	400	90	N/A	N/A	N/A	9.1	2770	10.7	1210	395	26.4	48.9	58.2	106	996	3940	20.8	N/A	10.5	29.3	9.5
Magnesium	NC	NC	NC	N/A	N/A	N/A	809	1400	1080	2170	1170	1860	1280	787	672	610 U	900	1420	N/A	1450	1640	1840
Manganese	5900	11000	42	N/A	N/A	N/A	74.6	379	60	159	123	39.9	134	136	130	110	110	126	N/A	98.6	135	109
Mercury	65	23	0.1	N/A	N/A	N/A	0.042	0.11	0.059	0.47	0.17	0.04 U	0.042	0.038 U	0.037 U	0.25	0.14	0.038	0.041	0.066	0.08	0.034 U
Nickel	23000	1600	31	N/A	N/A	N/A	9.4	21.6	13.7	22.2	18.3	9.5	10.9	14.7	20.2	16.1	16.7	14.2	N/A	10.4	12.7	11.4
Potassium	NC	NC	NC	N/A	N/A	N/A	1100 U	1200 U	1100 U	1100 U	1000 U	1000	1100 U	1200 U	1300 U	1200 U	1100 U	1200 U	N/A	1100 U	1200 U	1200 U
Selenium	5700	390	7	N/A	N/A	N/A	2.3 U	2.4 U	2.2 U	2.2 U	2.3	2.1 U	2.2 U	2.4 U	2.5 U	2.4 U	2.3 U	2.3	N/A	2.3 U	2.3 U	2.3 U
Silver	5700	390	1	N/A	N/A	N/A	0.92	1.3	0.56 U	1.5	0.5 U	0.52 U	0.56 U	0.59 U	0.63 U	0.61 U	0.95	0.58 U	N/A	0.88	0.96	0.58 U
Sodium	NC	NC	NC	N/A	N/A	N/A	1630	1200 U	1100 U	1100 U	1000 U	1000 U	1100 U	1200 U	1300 U	1200 U	1100 U	1200 U	N/A	1100 U	1200 U	1200 U
Thallium	79	5	3	N/A	N/A	N/A	1.1 U	1.2 U	1.1 U	1.1 U	1 U	1 U	1.1 U	1.2 U	1.3 U	1.2 U	1.1 U	1.2 U	N/A	1.1 U	1.2 U	1.2 U
Vanadium	1100	78	NC	N/A	N/A	N/A	44	36.4	52.8	39.6	27.3	59	39.2	27.1	23.7	19.9	19.3	52.8	N/A	35.6	39.5	27.9
Zinc	110000	23000	600	N/A	N/A	N/A	23.9	1630	32.6	808	597	29	63.3	458	258	288	381	30.2	N/A	23.7	112	30.7
PCBs																						
Aroclor 1016	NC	NC	NC	N/A	N/A	N/A	0.035 U	0.036 U	N/A	0.038 U	N/A	N/A	0.038 U	0.039 U	0.04 U	0.038 U	N/A	N/A	N/A	0.04 U	0.039 U	0.037 U
Aroclor 1221	NC	NC	NC	N/A	N/A	N/A	0.035 U	0.036 U	N/A	0.038 U	N/A	N/A	0.038 U	0.039 U	0.04 U	0.038 U	N/A	N/A	N/A	0.04 U	0.039 U	0.037 U
Aroclor 1232	NC	NC	NC	N/A	N/A	N/A	0.035 U	0.036 U	N/A	0.038 U	N/A	N/A	0.038 U	0.039 U	0.04 U	0.038 U	N/A	N/A	N/A	0.04 U	0.039 U	0.037 U
Aroclor 1242	NC	NC	NC	N/A	N/A	N/A	0.035 U	0.036 U	N/A	0.038 U	N/A	N/A	0.038 U	0.039 U	0.04 U	0.038 U	N/A	N/A	N/A	0.04 U	0.039 U	0.037 U
Aroclor 1248	NC	NC	NC	N/A	N/A	N/A	0.035 U	0.036 U	N/A	0.038 U	N/A	N/A	0.038 U	0.039 U	0.04 U	0.038 U	N/A	N/A	N/A	0.04 U	0.039 U	0.037 U
Aroclor 1254	NC	NC	NC	N/A	N/A	N/A	0.035 U	0.036 U	N/A	0.038 U	N/A	N/A	0.038 U	0.039 U	0.04 U	0.038 U	N/A	N/A	N/A	0.04 U	0.039 U	0.037 U
Aroclor 1260	NC	NC	NC	N/A	N/A	N/A	0.035 U	0.036 U	N/A	0.038 U	N/A	N/A	0.038 U	0.039 U	0.04 U	0.038 U	N/A	N/A	N/A	0.04 U	0.039 U	0.037 U
Aroclor 1268	NC	NC	NC	N/A	N/A	N/A	0.035 U	0.036 U	N/A	0.038 U	N/A	N/A	0.038 U	0.039 U	0.04 U	0.038 U	N/A	N/A	N/A	0.04 U	0.039 U	0.037 U
Aroclor 1262	NC	NC	NC	N/A	N/A	N/A	0.035 U	0.036 U	N/A	0.038 U	N/A	N/A	0.038 U	0.039 U	0.04 U	0.038 U	N/A	N/A	N/A	0.04 U	0.039 U	0.037 U
Total PCBs	1	0.2	0.2	N/A	N/A	N/A	ND	ND	N/A	ND	N/A	N/A	ND	ND	ND	ND	N/A	N/A	N/A	ND	ND	ND

Notes:
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- NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, M:
- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2/
- IGWSRS = Default Impact to Gound Water Soil Remediation Standard is from the NJI
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- NC = No Criteria
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- J = Estimated value
- N/A = Not Analyzed
- Bolded values indicate positive detections
- Bolded and Shaded exceeds one or more of SRS

Table 5
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey
TCL/TAL Soil Sampling Analytical Results - Vehicle Wash Area (AOC 34)

Location ID				TP01	TP02				TP03		TP04		TP05		TP06		TP07		A9-3	A9-4	A9-5
Sample ID				TP01F	TP02A	TP02B	TP02B		TP03A	TP03B	TP04A	TP04B	TP05A	TP05B	TP06A	TP06B	TP07A	TP07B	A9-3	A9-4	A9-5
Lab ID				JB43224-1	JB44970-1	JB44970-2	JB47515-2		JB45917-1	JB45917-2	JB45917-3	JB45917-4	JB46022-2	JB46022-4	JB46022-5	JB46022-6	JB46022-7	JB46022-8	JB44712-1	JB44712-2	JB44712-3
Sample Depth (ft , bgs)				10 - 10.5	2.5 - 3.0	3.0 - 3.5	3.0 - 3.5		1.5 - 2.0	2.0 - 2.5	0.5 - 1.0	2.0 - 2.5	2.5 - 3.0	3.0 - 3.5	3.5 - 4.0	4.0 - 4.5	5.5 - 6.0	6.0 - 6.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5
Sample Date				7/26/2013	8/16/2013	8/16/2013	9/16/2013		8/28/2013	8/28/2013	8/28/2013	8/28/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/14/2013	8/14/2013	8/14/2013
Pesticides	NRDCSRS	DCSRS	IGWSRS																		
4,4'-DDD	13	3	3	N/A	N/A	N/A	N/A	0.0016	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDE	9	2	12	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDT	8	2	7	N/A	N/A	N/A	N/A	0.0018	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aldrin	0.2	0.04	0.1	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
alpha-BHC	0.5	0.1	0.002	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
alpha-Chlordane	NC	NC	NC	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
beta-BHC	2	0.4	0.002	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlordane (alpha and gamma)	NC	NC	NC	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
delta-BHC	NC	NC	NC	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dieldrin	0.2	0.04	0.003	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan sulfate	6800	470	1	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan-I	6800	470	NC	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan-II	6800	470	NC	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endrin	340	23	0.6	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endrin aldehyde	NC	NC	NC	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endrin ketone	NC	NC	NC	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
gamma-BHC (Lindane)	2	0.4	0.002	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
gamma-Chlordane	NC	NC	NC	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	0.7	0.1	0.3	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor epoxide	0.3	0.07	0.009	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methoxychlor	5700	390	100	N/A	N/A	N/A	N/A	0.0013 U	0.0015 U	0.0014 U	0.0015 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	3	0.6	0.2	N/A	N/A	N/A	N/A	0.017 U	0.018 U	0.018 U	0.019 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VOCs																					
1,1,1-Trichloroethane	NC	160,000	0.2	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A	N/A
1,1,2,2-Tetrachloroethane	3	1	0.005	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A	N/A
1,1,2-Trichloroethane	6	2	0.01	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A	N/A
1,1-Dichloroethane	24	8	0.2	0.0062 U	0.0018 J	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A	N/A
1,1-Dichloroethene	150	11	0.005	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A	N/A
1,2,3-Trichlorobenzene	NC	NC	NC	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A	N/A
1,2,4-Trichlorobenzene	820	73	0.4	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A	N/A
1,2-Dibromo-3-chloropropane	0.2	0.08	0.005	N/A	0.011 U	N/A	N/A	0.012 U	0.0099 U	0.011 U	0.0093 U	0.018 U	N/A	0.011 U	N/A	0.013 U	N/A	N/A	N/A	N/A	N/A
1,2-Dibromoethane	0.04	0.008	0.005	N/A	0.0011 U	N/A	N/A	0.0012 U	0.00099 U	0.0011 U	0.00093 U	0.0018 U	N/A	0.0011 U	N/A	0.0013 U	N/A	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene	59000	5300	11	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A	N/A
1,2-Dichloroethane	3	0.9	0.005	0.0012 U	0.0011 U	N/A	N/A	0.0012 U	0.00099 U	0.0011 U	0.00093 U	0.0018 U	N/A	0.0011 U	N/A	0.0013 U	N/A	N/A	N/A	N/A	N/A
1,2-Dichloropropane	5	2	0.005	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene	59000	5300	12	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A	N/A

Notes:
- All Results are dry weight and are repoted in parts per million (mg/kg)
- NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2012
- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2012
- IGWSRS = Default Impact to Gound Water Soil Remediation Standard is from the NJDEP's
"Soil-Water Partition Equation Guidance Document" dated June 2008 (Revised December 2008)
- NC = No Criteria
- ND = Non Detection
- U = Not detected above the quantitation limit; the value pesented is the sample quantitation limit
- J = Estimated value
- N/A = Not Analyzed
- Bolded values indicate positive detections
- Bolded and Shaded exceeds one or more of SRS

Table 5
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey

TCL/TAL Soil Sampling Analytical Results - Vehicle Wash Area (AOC 34)

Location ID				A9-6			A9-13	A9-14		A9-15			A9-16	A9-17	A9-18	A9-20			A9-21	A9-22	A9-23	A9-24
Sample ID				A9-6	DUP01	A9-6(2)	A9-13	A9-14	A9-14B	A9-15	A9-15A	A9-15B	A9-16	A9-17	A9-18	A9-20	A9-20A	A9-20B	A9-21	A9-22	A9-23	A9-24
Lab ID				JB44712-4	JB44712-5	JB46022-1	JB44970-7	JB45307-1	JB47515-6	JB45307-2	JB47515-7	JB47515-8	JB45722-1	JB45722-2	JB45722-3	JB45779-1	JB47515-9	JB47515-10	JB45779-2	JB46022-9	JB46022-10	JB46022-11
Sample Depth (ft , bgs)				3.0 - 3.5	3.0 - 3.5	4.0 - 4.5	3.0 - 3.5	2.5 - 3.0	4.0 - 4.5	3.0 - 3.5	3.0 - 3.5	4.0 - 4.5	7.5 - 8.0	11.5 - 12.0	7.5 - 8.0	2.5 - 3.0	2.5 - 3.0	4.0 - 4.5	2.5 - 3.0	3.5 - 4.0	3.5 - 4.0	3.5 - 4.0
Sample Date				8/14/2013	8/14/2013	8/29/2013	8/16/2013	8/21/2013	9/16/2013	8/21/2013	9/16/2013	9/16/2013	8/26/2013	8/26/2013	8/26/2013	8/27/2013	9/16/2013	9/16/2013	8/27/2013	8/29/2013	8/29/2013	8/29/2013
Pesticides	NRDCSRS	DCSRS	IGWSRS																			
4,4'-DDD	13	3	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDE	9	2	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDT	8	2	7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
Aldrin	0.2	0.04	0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
alpha-BHC	0.5	0.1	0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
alpha-Chlordane	NC	NC	NC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
beta-BHC	2	0.4	0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
Chlordane (alpha and gamma)	NC	NC	NC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
delta-BHC	NC	NC	NC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
Dieldrin	0.2	0.04	0.003	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan sulfate	6800	470	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan-I	6800	470	NC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan-II	6800	470	NC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
Endrin	340	23	0.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
Endrin aldehyde	NC	NC	NC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
Endrin ketone	NC	NC	NC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
gamma-BHC (Lindane)	2	0.4	0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
gamma-Chlordane	NC	NC	NC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	0.7	0.1	0.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor epoxide	0.3	0.07	0.009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
Methoxychlor	5700	390	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0014 U	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	3	0.6	0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.018 U	N/A	N/A	N/A	N/A	N/A	N/A
VOCs																						
1,1,1-Trichloroethane	NC	160,000	0.2	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
1,1,2,2-Tetrachloroethane	3	1	0.005	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
1,1,2-Trichloroethane	6	2	0.01	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
1,1-Dichloroethane	24	8	0.2	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
1,1-Dichloroethene	150	11	0.005	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
1,2,3-Trichlorobenzene	NC	NC	NC	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
1,2,4-Trichlorobenzene	820	73	0.4	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
1,2-Dibromo-3-chloropropane	0.2	0.08	0.005	N/A	N/A	N/A	0.01 U	0.012 U	N/A	0.011 U	N/A	N/A	0.012 U	0.0095 U	0.012 U	0.011 U	N/A	N/A	0.011 U	0.011 U	0.0094 U	0.011 U
1,2-Dibromoethane	0.04	0.008	0.005	N/A	N/A	N/A	0.001 U	0.0012 U	N/A	0.0011 U	N/A	N/A	0.0012 U	0.00095 U	0.0012 U	0.0011 U	N/A	N/A	0.0011 U	0.0011 U	0.00094 U	0.0011 U
1,2-Dichlorobenzene	59000	5300	11	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
1,2-Dichloroethane	3	0.9	0.005	N/A	N/A	N/A	0.001 U	0.0012 U	N/A	0.0011 U	N/A	N/A	0.0012 U	0.00095 U	0.0012 U	0.0011 U	N/A	N/A	0.0011 U	0.0011 U	0.00094 U	0.0011 U
1,2-Dichloropropane	5	2	0.005	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
1,3-Dichlorobenzene	59000	5300	12	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U

Notes:
- All Results are dry weight and are repoted in parts per million (mg/kg)
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- IGWSRS = Default Impact to Gound Water Soil Remediation Standard is from the NJI
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- NC = No Criteria
- ND = Non Detection
- U = Not detected above the quantitation limit; the value pesented is the sample quantit
- J = Estimated value
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- Bolded values indicate positive detections
- Bolded and Shaded exceeds one or more of SRS

Table 5
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey
TCL/TAL Soil Sampling Analytical Results - Vehicle Wash Area (AOC 34)

Location ID				TP01	TP02			TP03		TP04		TP05		TP06		TP07		A9-3	A9-4	A9-5
Sample ID				TP01F	TP02A	TP02B	TP02B	TP03A	TP03B	TP04A	TP04B	TP05A	TP05B	TP06A	TP06B	TP07A	TP07B	A9-3	A9-4	A9-5
Lab ID				JB43224-1	JB44970-1	JB44970-2	JB47515-2	JB45917-1	JB45917-2	JB45917-3	JB45917-4	JB46022-2	JB46022-4	JB46022-5	JB46022-6	JB46022-7	JB46022-8	JB44712-1	JB44712-2	JB44712-3
Sample Depth (ft , bgs)				10 - 10.5	2.5 - 3.0	3.0 - 3.5	3.0 - 3.5	1.5 - 2.0	2.0 - 2.5	0.5 - 1.0	2.0 - 2.5	2.5 - 3.0	3.0 - 3.5	3.5 - 4.0	4.0 - 4.5	5.5 - 6.0	6.0 - 6.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5
Sample Date				7/26/2013	8/16/2013	8/16/2013	9/16/2013	8/28/2013	8/28/2013	8/28/2013	8/28/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/14/2013	8/14/2013	8/14/2013
VOCs	NRDCSRS	DCSRS	IGWSRS																	
1,4-Dichlorobenzene	13	5	1	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
1,4-Dioxane	NC	NC	NC	N/A	0.14 U	N/A	N/A	0.15 U	0.12 U	0.13 U	0.12 U	0.23 U	N/A	0.14 U	N/A	0.16 U	N/A	N/A	N/A	N/A
2-Butanone (MEK)	44000	3100	0.6	0.012 U	0.0044 J	N/A	N/A	0.012 U	0.0099 U	0.011 U	0.0093 U	0.018 U	N/A	0.0117	N/A	0.0109 J	N/A	N/A	N/A	N/A
2-Hexanone	NC	NC	NC	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
4-Methyl-2-pentanone(MIBK)	NC	NC	NC	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Acetone	NC	70000	12	0.012 U	0.0451	N/A	N/A	0.012 U	0.0099 U	0.033	0.0093 U	0.018 U	N/A	0.104	N/A	0.108	N/A	N/A	N/A	N/A
Benzene	5	2	0.005	0.0012 U	0.00032 J	N/A	N/A	0.0012 U	0.00099 U	0.0011 U	0.00093 U	0.0018 U	N/A	0.0011 U	N/A	0.0013 U	N/A	N/A	N/A	N/A
Bromochloromethane	NC	NC	NC	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Bromodichloromethane	3	1	0.005	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Bromoform	280	81	0.02	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Bromomethane	59	25	0.03	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Carbon disulfide	110000	7800	4	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0013 J	N/A	N/A	N/A	N/A
Carbon tetrachloride	4	2	0.005	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Chlorobenzene	7400	510	0.4	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Chloroethane	1100	220	NC	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Chloroform	2	0.6	0.2	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Chloromethane	12	4	NC	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
cis-1,2-Dichloroethene	560	230	0.2	0.0062 U	0.00071 J	N/A	N/A	0.0059 U	0.005 U	0.0005 J	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
cis-1,3-Dichloropropene	7	2	NC	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Cyclohexane	NC	NC	NC	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Dibromochloromethane	8	3	0.005	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Dichlorodifluoromethane	230000	490	25	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Ethylbenzene	110000	7800	8	0.0012 U	0.0011 U	N/A	N/A	0.0012 U	0.00099 U	0.0011 U	0.00093 U	0.0018 U	N/A	0.0011 U	N/A	0.0013 U	N/A	N/A	N/A	N/A
Freon 113	NC	NC	NC	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Isopropylbenzene	NC	NC	NC	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
m,p-Xylene	NC	NC	NC	0.0012 U	0.0011 U	N/A	N/A	0.0012 U	0.00099 U	0.0011 U	0.00093 U	0.0018 U	N/A	0.0011 U	N/A	0.0013 U	N/A	N/A	N/A	N/A
Methyl Acetate	NC	78000	14	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Methyl Tert Butyl Ether	320	110	0.2	0.0012 U	0.0011 U	N/A	N/A	0.0012 U	0.00099 U	0.0011 U	0.00093 U	0.0018 U	N/A	0.0011 U	N/A	0.0013 U	N/A	N/A	N/A	N/A
Methylcyclohexane	NC	NC	NC	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Methylene chloride	230	46	0.007	0.002 J	0.0016 J	N/A	N/A	0.0059 U	0.0037 J	0.0018 J	0.0018 J	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
o-Xylene	170000	12000	NC	0.0012 U	0.0011 U	N/A	N/A	0.0012 U	0.00099 U	0.0011 U	0.00093 U	0.0018 U	N/A	0.0011 U	N/A	0.0013 U	N/A	N/A	N/A	N/A
Styrene	260	90	2	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Tetrachloroethene	1500	43	0.005	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Toluene	91000	6300	4	0.0012 U	0.00087 J	N/A	N/A	0.0012 U	0.00099 U	0.0011 U	0.00093 U	0.0018 U	N/A	0.0011 U	N/A	0.0013 U	N/A	N/A	N/A	N/A
trans-1,2-Dichloroethene	720	300	0.4	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
trans-1,3-Dichloropropene	7	2	NC	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Trichloroethene	10	3	0.007	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Trichlorofluoromethane	340000	23000	22	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Vinyl chloride	2	0.7	0.005	0.0062 U	0.0023 J	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Xylene (total)	170000	12000	12	0.0012 U	0.0011 U	N/A	N/A	0.0012 U	0.00099 U	0.0011 U	0.00093 U	0.0018 U	N/A	0.0011 U	N/A	0.0013 U	N/A	N/A	N/A	N/A

Notes:
- All Results are dry weight and are repoted in parts per million (mg/kg)
- NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2012
- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2012
- IGWSRS = Default Impact to Gound Water Soil Remediation Standard is from the NJDEP's "Soil-Water Partition Equation Guidance Document" dated June 2008 (Revised December 2008)
- NC = No Criteria
- ND = Non Detection
- U = Not detected above the quantitation limit; the value pesented is the sample quantitation limit
- J = Estimated value
- N/A = Not Analyzed
- Bolded values indicate positive detections
- Bolded and Shaded exceeds one or more of SRS

Table 5
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey
TCL/TAL Soil Sampling Analytical Results - Vehicle Wash Area (AOC 34)

Location ID				A9-6			A9-13	A9-14		A9-15			A9-16	A9-17	A9-18	A9-20			A9-21	A9-22	A9-23	A9-24
Sample ID				A9-6	DUP01	A9-6(2)	A9-13	A9-14	A9-14B	A9-15	A9-15A	A9-15B	A9-16	A9-17	A9-18	A9-20	A9-20A	A9-20B	A9-21	A9-22	A9-23	A9-24
Lab ID				JB44712-4	JB44712-5	JB46022-1	JB44970-7	JB45307-1	JB47515-6	JB45307-2	JB47515-7	JB47515-8	JB45722-1	JB45722-2	JB45722-3	JB45779-1	JB47515-9	JB47515-10	JB45779-2	JB46022-9	JB46022-10	JB46022-11
Sample Depth (ft , bgs)				3.0 - 3.5	3.0 - 3.5	4.0 - 4.5	3.0 - 3.5	2.5 - 3.0	4.0 - 4.5	3.0 - 3.5	3.0 - 3.5	4.0 - 4.5	7.5 - 8.0	11.5 - 12.0	7.5 - 8.0	2.5 - 3.0	2.5 - 3.0	4.0 - 4.5	2.5 - 3.0	3.5 - 4.0	3.5 - 4.0	3.5 - 4.0
Sample Date				8/14/2013	8/14/2013	8/29/2013	8/16/2013	8/21/2013	9/16/2013	8/21/2013	9/16/2013	9/16/2013	8/26/2013	8/26/2013	8/26/2013	8/27/2013	9/16/2013	9/16/2013	8/27/2013	8/29/2013	8/29/2013	8/29/2013
VOCs	NRDCSRS	DCSRS	IGWSRS																			
1,4-Dichlorobenzene	13	5	1	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
1,4-Dioxane	NC	NC	NC	N/A	N/A	N/A	0.12 U	0.15 U	N/A	0.14 U	N/A	N/A	0.15 U	0.12 U	0.15 U	0.14 U	N/A	N/A	0.14 U	0.13 U	0.12 U	0.13 U
2-Butanone (MEK)	44000	3100	0.6	N/A	N/A	N/A	0.01 U	0.012 U	N/A	0.011 U	N/A	N/A	0.012 U	0.0095 U	0.012 U	0.011 U	N/A	N/A	0.011 U	0.011 U	0.0094 U	0.011 U
2-Hexanone	NC	NC	NC	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
4-Methyl-2-pentanone(MIBK)	NC	NC	NC	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Acetone	NC	70000	12	N/A	N/A	N/A	0.0081 J	0.0322	N/A	0.0261	N/A	N/A	0.0055 J	0.0095 U	0.0054 J	0.0088 J	N/A	N/A	0.011 U	0.011 U	0.0094 U	0.011 U
Benzene	5	2	0.005	N/A	N/A	N/A	0.001 U	0.00037 J	N/A	0.00065 J	N/A	N/A	0.0012 U	0.00095 U	0.0012 U	0.00041 J	N/A	N/A	0.0011 U	0.0011 U	0.00094 U	0.0011 U
Bromochloromethane	NC	NC	NC	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Bromodichloromethane	3	1	0.005	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Bromoform	280	81	0.02	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Bromomethane	59	25	0.03	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Carbon disulfide	110000	7800	4	N/A	N/A	N/A	0.005 U	0.00046 J	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Carbon tetrachloride	4	2	0.005	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Chlorobenzene	7400	510	0.4	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Chloroethane	1100	220	NC	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Chloroform	2	0.6	0.2	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Chloromethane	12	4	NC	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
cis-1,2-Dichloroethene	560	230	0.2	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.00076 J	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
cis-1,3-Dichloropropene	7	2	NC	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Cyclohexane	NC	NC	NC	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Dibromochloromethane	8	3	0.005	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Dichlorodifluoromethane	230000	490	25	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Ethylbenzene	110000	7800	8	N/A	N/A	N/A	0.001 U	0.0012 U	N/A	0.0011 U	N/A	N/A	0.0012 U	0.00095 U	0.0012 U	0.0011 U	N/A	N/A	0.0011 U	0.0011 U	0.00094 U	0.0011 U
Freon 113	NC	NC	NC	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Isopropylbenzene	NC	NC	NC	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
m,p-Xylene	NC	NC	NC	N/A	N/A	N/A	0.001 U	0.0012 U	N/A	0.00063 J	N/A	N/A	0.0012 U	0.00095 U	0.0012 U	0.0011 U	N/A	N/A	0.0011 U	0.0011 U	0.00094 U	0.0011 U
Methyl Acetate	NC	78000	14	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Methyl Tert Butyl Ether	320	110	0.2	N/A	N/A	N/A	0.001 U	0.0012 U	N/A	0.0011 U	N/A	N/A	0.0012 U	0.00095 U	0.0012 U	0.0011 U	N/A	N/A	0.0011 U	0.0011 U	0.00094 U	0.0011 U
Methylcyclohexane	NC	NC	NC	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.00086 J	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Methylene chloride	230	46	0.007	N/A	N/A	N/A	0.003 J	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0052 J	0.0031 J	0.0042 J	0.0056 U	N/A	N/A	0.0021 J	0.003 J	0.0023 J	0.004 J
o-Xylene	170000	12000	NC	N/A	N/A	N/A	0.001 U	0.0012 U	N/A	0.00049 J	N/A	N/A	0.0012 U	0.00095 U	0.0012 U	0.0011 U	N/A	N/A	0.0011 U	0.0011 U	0.00094 U	0.0011 U
Styrene	260	90	2	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Tetrachloroethene	1500	43	0.005	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Toluene	91000	6300	4	N/A	N/A	N/A	0.001 U	0.0012 U	N/A	0.0007 J	N/A	N/A	0.0012 U	0.00095 U	0.0012 U	0.0011 U	N/A	N/A	0.0011 U	0.0011 U	0.00094 U	0.0011 U
trans-1,2-Dichloroethene	720	300	0.4	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
trans-1,3-Dichloropropene	7	2	NC	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Trichloroethene	10	3	0.007	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Trichlorofluoromethane	340000	23000	22	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Vinyl chloride	2	0.7	0.005	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.00087 J	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.00064 J	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Xylene (total)	170000	12000	12	N/A	N/A	N/A	0.001 U	0.0012 U	N/A	0.0011	N/A	N/A	0.0012 U	0.00095 U	0.0012 U	0.0011 U	N/A	N/A	0.0011 U	0.0011 U	0.00094 U	0.0011 U

Notes:

- All Results are dry weight and are repoted in parts per million (mg/kg)
- NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, M:
- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2:
- IGWSRS = Default Impact to Gound Water Soil Remediation Standard is from the NJI "Soil-Water Partition Equation Guidance Document" dated June 2008 (Rev
- NC = No Criteria
- ND = Non Detection
- U = Not detected above the quantitation limit; the value pesented is the sample quantiti
- J = Estimated value
- N/A = Not Analyzed
- Bolded values indicate positive detections
- Bolded and Shaded exceeds one or more of SRS

Table 5
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey
TCL/TAL Soil Sampling Analytical Results - Vehicle Wash Area (AOC 34)

Location ID				TP01	TP02			TP03		TP04		TP05		TP06		TP07		A9-3	A9-4	A9-5
Sample ID				TP01F	TP02A	TP02B	TP02B	TP03A	TP03B	TP04A	TP04B	TP05A	TP05B	TP06A	TP06B	TP07A	TP07B	A9-3	A9-4	A9-5
Lab ID				JB43224-1	JB44970-1	JB44970-2	JB47515-2	JB45917-1	JB45917-2	JB45917-3	JB45917-4	JB46022-2	JB46022-4	JB46022-5	JB46022-6	JB46022-7	JB46022-8	JB44712-1	JB44712-2	JB44712-3
Sample Depth (ft , bgs)				10 - 10.5	2.5 - 3.0	3.0 - 3.5	3.0 - 3.5	1.5 - 2.0	2.0 - 2.5	0.5 - 1.0	2.0 - 2.5	2.5 - 3.0	3.0 - 3.5	3.5 - 4.0	4.0 - 4.5	5.5 - 6.0	6.0 - 6.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5
Sample Date				7/26/2013	8/16/2013	8/16/2013	9/16/2013	8/28/2013	8/28/2013	8/28/2013	8/28/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/14/2013	8/14/2013	8/14/2013
SVOCs	NRDCSRS	DCSRS	IGWSRS																	
1,1'-Biphenyl	240	61	90	0.15 U	0.0235 J	N/A	0.076 U	0.064 U	0.07 U	0.0647	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 J	0.077 U	0.084 U	0.0311 J	0.075 U
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	0.37 U	0.18 U	N/A	0.19 U	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	0.19 U	0.21 U	0.19 U	0.19 U
2,3,4,6-Tetachloophenol	NC	NC	NC	N/A	N/A	N/A	N/A	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	N/A	0.21 U	0.19 U	0.19 U
2,4,5-Tichloophenol	68000	6100	44	N/A	N/A	N/A	N/A	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	N/A	0.21 U	0.19 U	0.19 U
2,4,6-Tichloophenol	74	19	0.2	N/A	N/A	N/A	N/A	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	N/A	0.21 U	0.19 U	0.19 U
2,4-Dichloophenol	2100	180	0.2	N/A	N/A	N/A	N/A	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	N/A	0.21 U	0.19 U	0.19 U
2,4-Dimethylphenol	14000	1200	0.7	N/A	N/A	N/A	N/A	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	N/A	0.21 U	0.19 U	0.19 U
2,4-Dinitophenol	1400	120	0.3	N/A	N/A	N/A	N/A	0.64 U	0.7 U	0.75 U	0.66 U	0.81 U	N/A	0.71 U	N/A	0.83 U	N/A	0.84 U	0.77 U	0.75 U
2,4-Dinitrotoluene	3	0.7	NC	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U
2,6-Dinitrotoluene	3	0.7	NC	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U
2-Chlooonaphthalene	NC	NC	NC	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U
2-Chloophenol	2200	310	0.5	N/A	N/A	N/A	N/A	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	N/A	0.21 U	0.19 U	0.19 U
2-Methylnaphthalene	2400	230	5	0.15 U	0.0909	N/A	0.0494 J	0.0473 J	0.07 U	0.075 U	0.066 U	0.081 J	N/A	0.071 U	N/A	0.083 J	0.077 U	0.084 U	0.0429 J	0.075 U
2-Methylphenol	3400	310	NC	N/A	N/A	N/A	N/A	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	N/A	0.084 U	0.077 U	0.075 U
2-Nitroaniline	23000	39	NC	0.37 U	0.18 U	N/A	0.19 U	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	0.19 U	0.21 U	0.19 U	0.19 U
2-Nitophenol	NC	NC	NC	N/A	N/A	N/A	N/A	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	N/A	0.21 U	0.19 U	0.19 U
3&4-Methylphenol	340	31	NC	N/A	N/A	N/A	N/A	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	N/A	0.084 U	0.077 U	0.075 U
3,3'-Dichlorobenzidine	4	1	0.2	0.37 U	0.18 U	N/A	0.19 U	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	0.19 U	0.21 U	0.19 U	0.19 U
3-Nitroaniline	NC	NC	NC	0.37 U	0.18 U	N/A	0.19 U	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	0.19 U	0.21 U	0.19 U	0.19 U
4,6-Dinito-o-cesol	68	6	0.3	N/A	N/A	N/A	N/A	0.64 U	0.7 U	0.75 U	0.66 U	0.81 U	N/A	0.71 U	N/A	0.83 U	N/A	0.84 U	0.77 U	0.75 U
4-Bomophenyl phenyl ethe	NC	NC	NC	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U
4-Chloo-3-methyl phenol	NC	NC	NC	N/A	N/A	N/A	N/A	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	N/A	0.21 U	0.19 U	0.19 U
4-Chloroaniline	NC	NC	NC	0.37 U	0.18 U	N/A	0.19 U	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	0.19 U	0.21 U	0.19 U	0.19 U
4-Chlorophenyl phenyl ether	NC	NC	NC	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U
4-Nitroaniline	NC	NC	NC	0.37 U	0.18 U	N/A	0.19 U	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	0.19 U	0.21 U	0.19 U	0.19 U
4-Nitrophenol	NC	NC	NC	N/A	N/A	N/A	N/A	0.32 U	0.35 U	0.37 U	0.33 U	0.41 U	N/A	0.36 U	N/A	0.42 U	N/A	0.42 U	0.38 U	0.37 U
Acenaphthene	37000	3400	74	0.075 U	0.132	N/A	0.115	0.032 U	0.035 U	0.037 U	0.033 U	0.041 U	N/A	0.036 U	N/A	0.042 J	0.038 U	0.042 U	0.115	0.0516
Acenaphthylene	300000	NC	NC	0.075 U	0.0431	N/A	0.026 J	0.032 U	0.035 U	0.037 U	0.033 U	0.041 U	N/A	0.036 U	N/A	0.042 J	0.038 U	0.042 U	0.038 U	0.037 U
Acetophenone	5	2	2	0.37 U	0.18 U	N/A	0.19 U	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	0.19 U	0.21 U	0.19 U	0.19 U
Anthracene	30000	17000	1500	0.075 U	0.178	N/A	0.278	0.0137 J	0.035 U	0.037 U	0.033 U	0.041 J	N/A	0.036 U	N/A	0.082	0.038 U	0.042 U	0.038 U	0.037 U
Atrazine	2400	210	0.2	0.37 U	0.18 U	N/A	0.19 U	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	0.19 U	0.21 U	0.19 U	0.19 U
Benzaldehyde	68000	6100	NC	0.37 U	0.18 U	N/A	0.19 U	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	0.19 U	0.21 U	0.19 U	0.19 U
Benzo(a)anthracene	17	5	0.5	0.0406 J	0.496	N/A	0.69	0.0399	0.035 U	0.037 U	0.033 U	0.114	N/A	0.036 J	N/A	0.291	0.038 U	0.042 U	0.0158 J	0.037 U
Benzo(a)pyrene	2	0.5	0.2	0.0422 J	0.553	N/A	0.653	0.032 U	0.035 U	0.037 U	0.033 U	0.0706	N/A	0.036 J	N/A	0.276	0.038 U	0.042 U	0.038 U	0.037 U
Benzo(b)fluoranthene	17	5	2	0.0446 J	0.675	N/A	0.731	0.032 U	0.035 U	0.037 U	0.033 U	0.117	N/A	0.036 J	N/A	0.405	0.038 U	0.042 U	0.0269 J	0.037 U
Benzo(g,h,i)perylene	30000	380000	NC	0.0618 J	0.393	N/A	0.329	0.032 U	0.035 U	0.037 U	0.033 U	0.073	N/A	0.036 J	N/A	0.225	0.038 U	0.042 U	0.038 U	0.037 U
Benzo(k)fluoanthene	170	45	16		0.22	N/A	0.238	0.032 U	0.035 U	0.037 U	0.033 U	0.041 J	N/A	0.036 U	N/A	0.123	0.038 U	0.042 U	0.038 U	0.037 U
bis(2-Chloroethoxy)methane	NC	NC	NC	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U
bis(2-Chloroethyl)ether	2	0.4	0.2	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U

Notes:
- All Results are dry weight and are repoted in parts per million (mg/kg)
- NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2012
- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2012
- IGWSRS = Default Impact to Gound Water Soil Remediation Standard is from the NJDEP's
"Soil-Water Partition Equation Guidance Document" dated June 2008 (Revised December 2008)
- NC = No Criteria
- ND = Non Detection
- U = Not detected above the quantitation limit; the value pesented is the sample quantitation limit
- J = Estimated value
- N/A = Not Analyzed
- **Bolded values indicate positive detections**
- **Bolded and Shaded exceeds one or more of SRS**

Table 5
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey
TCL/TAL Soil Sampling Analytical Results - Vehicle Wash Area (AOC 34)

Location ID				A9-6			A9-13	A9-14		A9-15			A9-16	A9-17	A9-18	A9-20			A9-21	A9-22	A9-23	A9-24
Sample ID				A9-6	DUP01	A9-6(2)	A9-13	A9-14	A9-14B	A9-15	A9-15A	A9-15B	A9-16	A9-17	A9-18	A9-20	A9-20A	A9-20B	A9-21	A9-22	A9-23	A9-24
Lab ID				JB44712-4	JB44712-5	JB46022-1	JB44970-7	JB45307-1	JB47515-6	JB45307-2	JB47515-7	JB47515-8	JB45722-1	JB45722-2	JB45722-3	JB45779-1	JB47515-9	JB47515-10	JB45779-2	JB46022-9	JB46022-10	JB46022-11
Sample Depth (ft , bgs)				3.0 - 3.5	3.0 - 3.5	4.0 - 4.5	3.0 - 3.5	2.5 - 3.0	4.0 - 4.5	3.0 - 3.5	3.0 - 3.5	4.0 - 4.5	7.5 - 8.0	11.5 - 12.0	7.5 - 8.0	2.5 - 3.0	2.5 - 3.0	4.0 - 4.5	2.5 - 3.0	3.5 - 4.0	3.5 - 4.0	3.5 - 4.0
Sample Date				8/14/2013	8/14/2013	8/29/2013	8/16/2013	8/21/2013	9/16/2013	8/21/2013	9/16/2013	9/16/2013	8/26/2013	8/26/2013	8/26/2013	8/27/2013	9/16/2013	9/16/2013	8/27/2013	8/29/2013	8/29/2013	8/29/2013
SVOCs				NRDCSRS	DCSRS	IGWSRS																
1,1'-Biphenyl	240	61	90	0.074 U	0.0203 J	0.072 U	0.072 U	0.0355 J	0.07 U	0.0205 J	N/A	0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	N/A	0.21 U	0.17 U	0.19 U	0.19 U	0.19 U	N/A	0.17 U	N/A	0.18 U	0.2 U	0.18 U
2,3,4,6-Tetachloophenol	NC	NC	NC	0.18 U	0.128 J	0.18 U	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.19 U	0.19 U	0.19 U	N/A	N/A	N/A	0.18 U	0.2 U	0.18 U
2,4,5-Tichloophenol	68000	6100	44	0.18 U	0.2 U	0.18 U	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.19 U	0.19 U	0.19 U	N/A	N/A	N/A	0.18 U	0.2 U	0.18 U
2,4,6-Tichloophenol	74	19	0.2	0.18 U	0.2 U	0.18 U	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.19 U	0.19 U	0.19 U	N/A	N/A	N/A	0.18 U	0.2 U	0.18 U
2,4-Dichloophenol	2100	180	0.2	0.18 U	0.2 U	0.18 U	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.19 U	0.19 U	0.19 U	N/A	N/A	N/A	0.18 U	0.2 U	0.18 U
2,4-Dimethylphenol	14000	1200	0.7	0.18 U	0.2 U	0.18 U	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.19 U	0.19 U	0.19 U	N/A	N/A	N/A	0.18 U	0.2 U	0.18 U
2,4-Dinitophenol	1400	120	0.3	0.74 U	0.79 U	0.72 U	N/A	N/A	N/A	N/A	N/A	N/A	0.66 U	0.77 U	0.75 U	0.76 U	N/A	N/A	N/A	0.73 U	0.8 U	0.71 U
2,4-Dinitrotoluene	3	0.7	NC	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U	N/A	0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
2,6-Dinitrotoluene	3	0.7	NC	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U	N/A	0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
2-Chlooonaphthalene	NC	NC	NC	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U	N/A	0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
2-Chloophenol	2200	310	0.5	0.18 U	0.2 U	0.18 U	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.19 U	0.19 U	0.19 U	N/A	N/A	N/A	0.18 U	0.2 U	0.18 U
2-Methylnaphthalene	2400	230	5	0.051 J	0.0507 J	0.072 U	0.072 U	0.141	0.07 U	0.104	N/A	0.084 U	0.066 U	0.077 U	0.075 U	0.0579 J	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
2-Methylphenol	3400	310	NC	0.074 U	0.079 U	0.072 U	N/A	N/A	N/A	N/A	N/A	N/A	0.066 U	0.077 U	0.075 U	0.076 U	N/A	N/A	N/A	0.073 U	0.08 U	0.071 U
2-Nitroaniline	23000	39	NC	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	N/A	0.21 U	0.17 U	0.19 U	0.19 U	0.19 U	N/A	0.17 U	N/A	0.18 U	0.2 U	0.18 U
2-Nitophenol	NC	NC	NC	0.18 U	0.2 U	0.18 U	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.19 U	0.19 U	0.19 U	N/A	N/A	N/A	0.18 U	0.2 U	0.18 U
3&4-Methylphenol	340	31	NC	0.074 U	0.079 U	0.072 U	N/A	N/A	N/A	N/A	N/A	N/A	0.066 U	0.077 U	0.075 U	0.076 U	N/A	N/A	N/A	0.073 U	0.08 U	0.071 U
3,3'-Dichlorobenzidine	4	1	0.2	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	N/A	0.21 U	0.17 U	0.19 U	0.19 U	0.19 U	N/A	0.17 U	N/A	0.18 U	0.2 U	0.18 U
3-Nitroaniline	NC	NC	NC	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	N/A	0.21 U	0.17 U	0.19 U	0.19 U	0.19 U	N/A	0.17 U	N/A	0.18 U	0.2 U	0.18 U
4,6-Dinito-o-cesol	68	6	0.3	0.74 U	0.79 U	0.72 U	N/A	N/A	N/A	N/A	N/A	N/A	0.66 U	0.77 U	0.75 U	0.76 U	N/A	N/A	N/A	0.73 U	0.8 U	0.71 U
4-Bomophenyl phenyl ethe	NC	NC	NC	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U	N/A	0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
4-Chloo-3-methyl phenol	NC	NC	NC	0.18 U	0.2 U	0.18 U	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.19 U	0.19 U	0.19 U	N/A	N/A	N/A	0.18 U	0.2 U	0.18 U
4-Chloroaniline	NC	NC	NC	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	N/A	0.21 U	0.17 U	0.19 U	0.19 U	0.19 U	N/A	0.17 U	N/A	0.18 U	0.2 U	0.18 U
4-Chlorophenyl phenyl ether	NC	NC	NC	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U	N/A	0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
4-Nitroaniline	NC	NC	NC	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	N/A	0.21 U	0.17 U	0.19 U	0.19 U	0.19 U	N/A	0.17 U	N/A	0.18 U	0.2 U	0.18 U
4-Nitrophenol	NC	NC	NC	0.37 U	0.39 U	0.36 U	N/A	N/A	N/A	N/A	N/A	N/A	0.33 U	0.38 U	0.37 U	0.38 U	N/A	N/A	N/A	0.36 U	0.4 U	0.35 U
Acenaphthene	37000	3400	74	0.0428	0.459	0.036 U	0.036 U	0.155	0.035 U	0.212	N/A	0.042 U	0.033 U	0.038 U	0.037 U	0.025 J	N/A	0.033 U	N/A	0.036 U	0.04 J	0.035 U
Acenaphthylene	300000	NC	NC	0.037 U	0.0376 J	0.036 U	0.036 U	0.668	0.035 U	0.111	N/A	0.042 U	0.033 U	0.038 U	0.037 U	0.0223 J	N/A	0.033 U	N/A	0.036 U	0.04 J	0.035 U
Acetophenone	5	2	2	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	N/A	0.21 U	0.17 U	0.19 U	0.19 U	0.19 U	N/A	0.17 U	N/A	0.18 U	0.2 U	0.18 U
Anthracene	30000	17000	1500	0.195	0.818	0.036 U	0.0252 J	0.918	0.035 U	0.292	N/A	0.042 U	0.033 U	0.038 U	0.037 U	0.0888	N/A	0.033 U	N/A	0.036 U	0.155	0.035 U
Atrazine	2400	210	0.2	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	N/A	0.21 U	0.17 U	0.19 U	0.19 U	0.19 U	N/A	0.17 U	N/A	0.18 U	0.2 U	0.18 U
Benzaldehyde	68000	6100	NC	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	N/A	0.21 U	0.17 U	0.19 U	0.19 U	0.19 U	N/A	0.17 U	N/A	0.18 U	0.2 U	0.18 U
Benzo(a)anthracene	17	5	0.5	0.0582	1.04	0.036 U	0.0539	2.14	0.0172 J	0.589	N/A	0.042 U	0.0272 J	0.038 U	0.0252 J	0.328	N/A	0.033 U	N/A	0.036 U	0.429	0.035 U
Benzo(a)pyrene	2	0.5	0.2	0.0294 J	0.326	0.036 U	0.0397	2.27	0.035 U	0.509	N/A	0.042 U	0.0216 J	0.038 U	0.0189 J	0.267	N/A	0.033 U	N/A	0.036 U	0.339	0.035 U
Benzo(b)fluoranthene	17	5	2	0.0693	0.606	0.036 U	0.0373	2.4	0.0149 J	0.682	N/A	0.042 U	0.0309 J	0.038 U	0.0235 J	0.326	N/A	0.033 U	N/A	0.036 U	0.305	0.035 U
Benzo(g,h,i)perylene	30000	380000	NC	0.0181 J	0.12	0.036 U	0.037	1.47	0.035 U	0.331	N/A	0.042 U	0.0167 J	0.038 U	0.037 U	0.205	N/A	0.033 U	N/A	0.036 U	0.168	0.035 U
Benzo(k)fluoanthene	170	45	16	0.0231 J	0.24	0.036 U	0.036 U	0.707	0.035 U	0.211	N/A	0.042 U	0.033 U	0.038 U	0.037 U	0.104	N/A	0.033 U	N/A	0.036 U	0.114	0.035 U
bis(2-Chloroethoxy)methane	NC	NC	NC	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U	N/A	0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
bis(2-Chloroethyl)ether	2	0.4	0.2	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U	N/A	0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U

Notes:
- All Results are dry weight and are repoted in parts per million (mg/kg)
- NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, M:
- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2:
- IGWSRS = Default Impact to Gound Water Soil Remediation Standard is from the NJI
"Soil-Water Partition Equation Guidance Document" dated June 2008 (Rev
- NC = No Criteria
- ND = Non Detection
- U = Not detected above the quantitation limit; the value pesented is the sample quantit:
- J = Estimated value
- N/A = Not Analyzed
- **Bolded values indicate positive detections**
- **Bolded and Shaded exceeds one or more of SRS**

Table 5
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey
TCL/TAL Soil Sampling Analytical Results - Vehicle Wash Area (AOC 34)

Location ID				TP01	TP02			TP03		TP04		TP05		TP06		TP07		A9-3	A9-4	A9-5	
Sample ID				TP01F	TP02A	TP02B	TP02B	TP03A	TP03B	TP04A	TP04B	TP05A	TP05B	TP06A	TP06B	TP07A	TP07B	A9-3	A9-4	A9-5	
Lab ID				JB43224-1	JB44970-1	JB44970-2	JB47515-2	JB45917-1	JB45917-2	JB45917-3	JB45917-4	JB46022-2	JB46022-4	JB46022-5	JB46022-6	JB46022-7	JB46022-8	JB44712-1	JB44712-2	JB44712-3	
Sample Depth (ft , bgs)				10 - 10.5	2.5 - 3.0	3.0 - 3.5	3.0 - 3.5	1.5 - 2.0	2.0 - 2.5	0.5 - 1.0	2.0 - 2.5	2.5 - 3.0	3.0 - 3.5	3.5 - 4.0	4.0 - 4.5	5.5 - 6.0	6.0 - 6.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5	
Sample Date				7/26/2013	8/16/2013	8/16/2013	9/16/2013	8/28/2013	8/28/2013	8/28/2013	8/28/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/14/2013	8/14/2013	8/14/2013
SVOCs	NRDCSRS	DCSRS	IGWSRS																		
bis(2-Chloroisopropyl)ether	67	23	3	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U	
bis(2-Ethylhexyl)phthalate	140	35	790	0.15 U	0.12	N/A	0.067 J	0.064 U	0.07 U	1.33	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U	
Butyl benzyl phthalate	14000	1200	150	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U	
Caprolactam	340000	31000	8	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U	
Carbazole	96	24	NC	0.15 U	0.0579 J	N/A	0.0884	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 J	0.077 U	0.084 U	0.077 U	0.075 U	
Chrysene	1700	450	52	0.0646 J	0.562	N/A	0.655	0.121	0.035 U	0.037 U	0.033 U	0.26	N/A	0.036 J	N/A	0.469	0.038 U	0.0174 J	0.0313 J	0.037 U	
Dibenzo(a,h)anthracene	2	0.5	0.5	0.075 U	0.106	N/A	0.0999	0.032 U	0.035 U	0.037 U	0.033 U	0.041 J	N/A	0.036 U	N/A	0.0788	0.038 U	0.042 U	0.038 U	0.037 U	
Dibenzofuran	NC	NC	NC	0.15 U	0.068 J	N/A	0.0586 J	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 J	0.077 U	0.084 U	0.0398 J	0.0165 J	
Diethyl phthalate	550000	49000	57	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U	
Dimethyl phthalate	NC	NC	NC	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U	
Di-n-butyl phthalate	68000	6100	620	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U	
Di-n-octyl phthalate	27000	2400	3300	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U	
Fluoranthene	24000	2300	840	0.0527 J	0.827	N/A	1.59	0.0589	0.035 U	0.0236	0.033 U	0.123	N/A	0.0362	N/A	0.504	0.038 U	0.042 U	0.0655	0.037 U	
Fluorene	24000	2300	110	0.075 U	0.106	N/A	0.114	0.0148 J	0.035 U	0.037 U	0.033 U	0.041 J	N/A	0.036 U	N/A	0.0549	0.038 U	0.042 U	0.0334 J	0.037 U	
Hexachlorobenzene	1	0.3	0.2	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U	
Hexachlorobutadiene	25	6	0.6	0.075 U	0.036 U	N/A	0.038 U	0.032 U	0.035 U	0.037 U	0.033 U	0.041 U	N/A	0.036 U	N/A	0.042 U	0.038 U	0.042 U	0.038 U	0.037 U	
Hexachlorocyclopentadiene	110	45	210	0.75 U	0.36 U	N/A	0.38 U	0.32 U	0.35 U	0.37 U	0.33 U	0.41 U	N/A	0.36 U	N/A	0.42 U	0.38 U	0.42 U	0.38 U	0.37 U	
Hexachloroethane	48	12	0.2	0.37 U	0.18 U	N/A	0.19 U	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	0.19 U	0.21 U	0.19 U	0.19 U	
Indeno(1,2,3-cd)pyrene	17	5	5	0.0374 J	0.323	N/A	0.292	0.032 U	0.035 U	0.037 U	0.033 U	0.0516	N/A	0.036 J	N/A	0.215	0.038 U	0.042 U	0.038 U	0.037 U	
Isophorone	2000	510	0.2	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U	
Naphthalene	17	6	16	0.075 U	0.121	N/A	0.0513	0.0373	0.035 U	0.037 U	0.033 U	0.041 J	N/A	0.036 U	N/A	0.0642	0.038 U	0.042 U	0.119	0.0508	
Nitrobenzene	14	5	0.2	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U	
N-Nitroso-di-n-propylamine	0.3	0.2	0.2	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U	
N-Nitrosodiphenylamine	390	99	0.2	0.37 U	0.18 U	N/A	0.19 U	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	0.19 U	0.21 U	0.19 U	0.19 U	
Pentachlorophenol	3	0.9	0.3	N/A	N/A	N/A	N/A	0.32 U	0.35 U	0.37 U	0.33 U	0.41 U	N/A	0.36 U	N/A	0.42 U	N/A	0.42 U	0.38 U	0.37 U	
Phenanthrene	300000	NC	NC	0.0617 J	0.715	N/A	1.18	0.087	0.035 U	0.104	0.033 U	0.145	N/A	0.036 J	N/A	0.371	0.038 U	0.042 U	0.0391	0.037 U	
Phenol	210000	18000	5	N/A	N/A	N/A	N/A	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	N/A	0.084 U	0.077 U	0.075 U	
Pyrene	18000	1700	550	0.0702 J	0.883	N/A	1.35	0.214	0.035 U	0.171	0.033 U	0.127	N/A	0.0371	N/A	0.439	0.038 U	0.0526	0.0487	0.037 U	

Notes:
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- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2012
- IGWSRS = Default Impact to Gound Water Soil Remediation Standard is from the NJDEP's "Soil-Water Partition Equation Guidance Document" dated June 2008 (Revised December 2008)
- NC = No Criteria
- ND = Non Detection
- U = Not detected above the quantitation limit; the value pesented is the sample quantitation limit
- J = Estimated value
- N/A = Not Analyzed
- Bolded values indicate positive detections
- Bolded and Shaded exceeds one or more of SRS

Table 5
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey

TCL/TAL Soil Sampling Analytical Results - Vehicle Wash Area (AOC 34)

Location ID				A9-6			A9-13	A9-14		A9-15			A9-16	A9-17	A9-18	A9-20			A9-21	A9-22	A9-23	A9-24
Sample ID				A9-6	DUP01	A9-6(2)	A9-13	A9-14	A9-14B	A9-15	A9-15A	A9-15B	A9-16	A9-17	A9-18	A9-20	A9-20A	A9-20B	A9-21	A9-22	A9-23	A9-24
Lab ID				JB44712-4	JB44712-5	JB46022-1	JB44970-7	JB45307-1	JB47515-6	JB45307-2	JB47515-7	JB47515-8	JB45722-1	JB45722-2	JB45722-3	JB45779-1	JB47515-9	JB47515-10	JB45779-2	JB46022-9	JB46022-10	JB46022-11
Sample Depth (ft , bgs)				3.0 - 3.5	3.0 - 3.5	4.0 - 4.5	3.0 - 3.5	2.5 - 3.0	4.0 - 4.5	3.0 - 3.5	3.0 - 3.5	4.0 - 4.5	7.5 - 8.0	11.5 - 12.0	7.5 - 8.0	2.5 - 3.0	2.5 - 3.0	4.0 - 4.5	2.5 - 3.0	3.5 - 4.0	3.5 - 4.0	3.5 - 4.0
Sample Date				8/14/2013	8/14/2013	8/29/2013	8/16/2013	8/21/2013	9/16/2013	8/21/2013	9/16/2013	9/16/2013	8/26/2013	8/26/2013	8/26/2013	8/27/2013	9/16/2013	9/16/2013	8/27/2013	8/29/2013	8/29/2013	8/29/2013
SVOCs	NRDCSRS	DCSRS	IGWSRS																			
bis(2-Chloroisopropyl)ether	67	23	3	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U		0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
bis(2-Ethylhexyl)phthalate	140	35	790	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.117		0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
Butyl benzyl phthalate	14000	1200	150	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U		0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
Caprolactam	340000	31000	8	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U		0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
Carbazole	96	24	NC	0.956	0.188	0.072 U	0.072 U	0.11	0.07 U	0.0562 J		0.084 U	0.066 U	0.077 U	0.075 U	0.0266 J	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
Chrysene	1700	450	52	0.0853	0.823	0.036 U	0.147	2.45	0.0154 J	0.737		0.042 U	0.035	0.038 U	0.024 J	0.488	N/A	0.033 U	N/A	0.036 U	0.427	0.035 U
Dibenzo(a,h)anthracene	2	0.5	0.5	0.037 U	0.0345 J	0.036 U	0.036 U	0.442	0.035 U	0.103		0.042 U	0.033 U	0.038 U	0.037 U	0.0634	N/A	0.033 U	N/A	0.036 U	0.0528	0.035 U
Dibenzofuran	NC	NC	NC	0.249	0.135	0.072 U	0.072 U	0.0802	0.07 U	0.0518 J		0.084 U	0.066 U	0.077 U	0.075 U	0.0213 J	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
Diethyl phthalate	550000	49000	57	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U		0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
Dimethyl phthalate	NC	NC	NC	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U		0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
Di-n-butyl phthalate	68000	6100	620	0.074 U	0.079 U	0.072 U	0.072 U	0.0909	0.07 U	0.048 J		0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
Di-n-octyl phthalate	27000	2400	3300	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U		0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
Fluoranthene	24000	2300	840	0.523	8.01	0.036 U	0.0766	3.25	0.0203 J	0.969		0.042 U	0.0552	0.038 U	0.0362 J	0.49	N/A	0.033 U	N/A	0.036 U	0.71	0.035 U
Fluorene	24000	2300	110	0.585	0.62	0.036 U	0.036 U	0.231	0.035 U	0.14		0.042 U	0.033 U	0.038 U	0.037 U	0.0433	N/A	0.033 U	N/A	0.036 U	0.053	0.035 U
Hexachlorobenzene	1	0.3	0.2	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U		0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
Hexachlorobutadiene	25	6	0.6	0.037 U	0.039 U	0.036 U	0.036 U	0.037 U	0.035 U	0.036 U		0.042 U	0.033 U	0.038 U	0.037 U	0.038 U	N/A	0.033 U	N/A	0.036 U	0.04 U	0.035 U
Hexachlorocyclopentadiene	110	45	210	0.37 U	0.39 U	0.36 U	0.36 U	0.37 U	0.35 U	0.36 U		0.42 U	0.33 U	0.38 U	0.37 U	0.38 U	N/A	0.33 U	N/A	0.36 U	0.4 U	0.35 U
Hexachloroethane	48	12	0.2	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U		0.21 U	0.17 U	0.19 U	0.19 U	0.19 U	N/A	0.17 U	N/A	0.18 U	0.2 U	0.18 U
Indeno(1,2,3-cd)pyrene	17	5	5	0.0217 J	0.15	0.036 U	0.0235 J	1.24	0.035 U	0.278		0.042 U	0.0164 J	0.038 U	0.037 U	0.193	N/A	0.033 U	N/A	0.036 U	0.156	0.035 U
Isophorone	2000	510	0.2	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U		0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
Naphthalene	17	6	16	0.228	0.194	0.036 U	0.036 U	0.165	0.035 U	0.0935		0.042 U	0.033 U	0.038 U	0.037 U	0.0592	N/A	0.033 U	N/A	0.036 U	0.04 U	0.035 U
Nitrobenzene	14	5	0.2	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U		0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
N-Nitroso-di-n-propylamine	0.3	0.2	0.2	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U		0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
N-Nitrosodiphenylamine	390	99	0.2	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U		0.21 U	0.17 U	0.19 U	0.19 U	0.19 U	N/A	0.17 U	N/A	0.18 U	0.2 U	0.18 U
Pentachlorophenol	3	0.9	0.3	0.323 J	3.34	0.36 U	N/A	N/A	N/A	N/A		N/A	0.33 U	0.38 U	0.37 U	0.38 U	N/A	N/A	N/A	0.36 U	0.4 U	0.35 U
Phenanthrene	300000	NC	NC	0.533	3.56	0.036 U	0.0854	2.11	0.035 U	0.762		0.042 U	0.0223 J	0.038 U	0.0173 J	0.394	N/A	0.033 U	N/A	0.036 U	0.489	0.035 U
Phenol	210000	18000	5	0.074 U	0.0491 J	0.072 U	N/A	N/A	N/A	N/A		N/A	0.066 U	0.077 U	0.075 U	0.076 U	N/A	N/A	N/A	0.073 U	0.08 U	0.071 U
Pyrene	18000	1700	550	0.506	5.32	0.036 U	0.0949	4.83	0.0245 J	1.05		0.042 U	0.0479	0.0181 J	0.0366 J	0.569	N/A	0.033 U	N/A	0.036 U	0.88	0.035 U

Notes:
- All Results are dry weight and are repoted in parts per million (mg/kg)
- NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, M:
- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2:
- IGWSRS = Default Impact to Gound Water Soil Remediation Standard is from the NJI
"Soil-Water Partition Equation Guidance Document" dated June 2008 (Rev
- NC = No Criteria
- ND = Non Detection
- U = Not detected above the quantitation limit; the value pesented is the sample quantit
- J = Estimated value
- N/A = Not Analyzed
- Bolded values indicate positive detections
- Bolded and Shaded exceeds one or more of SRS

Table 7
 NJDOT
 Fernwood Maintenance Facility and Office Complex
 Ewing Township, New Jersey
SPLP Soil Analytical Results - Vehicle Wash Area (AOC 34)

Sample ID		A9-14	A9-15A	A9-20A	TP01F	TP02A	TP05A	TP07A
Lab ID		JB45307-1	JB47515-7	JB47515-9	JB43224-1	JB44970-1	JB46022-2	JB46022-7
Sample Depth (ft, bgs)		2.5 - 3.0	3.0 - 3.5	2.5 - 3.0	10 - 10.5	2.5 - 3.0	2.5 - 3.0	5.5 - 6.0
Sample Date		8/21/2013	9/16/2013	9/16/2013	7/26/2013	8/16/2013	8/29/2013	8/29/2013
Metals	SPLP							
Aluminum	2600	1510	2190	1280	N/A	N/A	N/A	N/A
Antimony	78	120	50 U	50 U	N/A	N/A	N/A	50 U
Arsenic	3	4.7	3.8	3 U	N/A	N/A	N/A	N/A
Barium	78000	1000 U	1000 U	1000 U	N/A	N/A	N/A	N/A
Beryllium	13	5 U	5 U	5 U	5 U	5 U	N/A	N/A
Cadmium	52	5 U	5 U	5 U	N/A	5 U	N/A	N/A
Calcium	NC	15200	6470	6750	N/A	N/A	N/A	N/A
Chromium	NC	10 U	10 U	10 U	N/A	N/A	N/A	N/A
Cobalt	1300	50 U	50 U	50 U	N/A	N/A	N/A	N/A
Copper	16900	10 U	12.4	10 U	N/A	N/A	N/A	N/A
Iron	NC	1440	2250	1220	N/A	N/A	N/A	N/A
Lead	65	64.7	50 U	91.9	50 U	N/A	N/A	N/A
Magnesium	NC	5000 U	5000 U	5000 U	N/A	N/A	N/A	N/A
Manganese	650	15 U	15 U	15 U	N/A	N/A	N/A	N/A
Mercury	26	0.2 U	0.2 U	0.2 U	N/A	N/A	0.2 U	0.2 U
Nickel	1300	10 U	10 U	10 U	N/A	N/A	N/A	10 U
Potassium	NC	10000 U	10000 U	10000 U	N/A	N/A	N/A	N/A
Selenium	520	50 U	50 U	50 U	N/A	N/A	N/A	N/A
Silver	520	10 U	10 U	10 U	N/A	N/A	N/A	10 U
Sodium	NC	33200	20600	20200	N/A	N/A	N/A	N/A
Thallium	6.5	2 U	2 U	2 U	N/A	N/A	N/A	N/A
Vanadium	NC	50 U	50 U	50 U	N/A	N/A	N/A	N/A
Zinc	26000	80.7	74.3	26.6	N/A	N/A	N/A	N/A
Other								
pH	NC	9.17	9.11	9.23	8.41	N/A	8.71	8.68

Notes:

All results are reported in ug/L

Bolded and shaded exceeds one or more of SRS

SPLP = Guidance for the use of the Synthetic Precipitation Leaching Procedure to Develop New Jersey Site-Specific Impact to Ground Water Remediation Standards, NJDEP, April 2013

- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit

N/A = Not Analyzed

Table 8
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey
Supplemental Soil Sampling Analytical Results - Vehicle Wash Area AOC 34

Location ID				WBSB01A		WBSB02A	WBSB03A	WBSB04A	WBSB05A	WBSB06A	SB1-1		FB01	TB
Sample ID				WBSB01A	DUP01	WBSB02A	WBSB03A	WBSB04A	WBSB05A	WBSB06A	SB1A	SB1B	FB01	TB
Lab ID				JB81080-1	JB81080-13	JB81080-3	JB81080-5	JB81080-7	JB81080-9	JB81080-11	JC8585-8	JC8585-9	JB81080-14	JB81080-15
Sample Depth (ft, bgs)				1.0-1.5	1.0-1.5	1.7-2.2	1.7-2.2	1.7-2.2	1.3-2.0	1.5-2.0	1.5-2.0	11.3-11.8	NA	NA
Sample Date				11/5/2014	11/5/2014	11/5/2014	11/5/2014	11/5/2014	11/5/2014	11/5/2014	10/7/2015	10/7/2015	2/7/5054	2/7/5054
Analyte	NRDCSRS	RDCSRS	IGWSSL											
Metals														
Aluminum	NC	78,000	6,000	15,400	19,100	18,400	1,520	15,800	25,200	16,900	NA	NA	NA	NA
Antimony	450	31	6	2.3 U	2.3 U	2.4 U	3.4 U	2.3 U	2.3 U	2.4 U	NA	NA	NA	NA
Arsenic	19	19	19	5.5	6.7	5.9	3.4 U	7.8	8.3	7.6	NA	NA	NA	NA
Barium	59,000	16,000	2100	27.1	34.4	35.2	34 U	178	38.7	66	NA	NA	NA	NA
Beryllium	140	16	0.7	0.36	0.43	0.45	0.34 U	3.8	0.62	0.48	NA	NA	NA	NA
Cadmium	78	78	2	0.58 U	0.58 U	0.59 U	0.84	0.57 U	0.58 U	0.61 U	NA	NA	NA	NA
Calcium	NC	NC	NC	580 U	677	4,720	214,000	950	580 U	610 U	NA	NA	NA	NA
Chromium	NC	NC	NC	20.5	24.9	53.2	4.4	22.8	27.1	23	NA	NA	NA	NA
Cobalt	590	1,600	90	5.8 U	5.8 U	5.9 U	8.4 U	16	5.8 U	6.1 U	NA	NA	NA	NA
Copper	45,000	3,100	11,000	9	10.4	10.4	6.6	22.1	11.8	10.3	NA	NA	NA	NA
Iron	NC	NC	NC	15,900	19,900	23,900	14,100	33,000	24,300	22,000	NA	NA	NA	NA
Lead	800	400	90	9.2	10.4	10.7	30.2	44.3	14.8	9.2	NA	NA	NA	NA
Magnesium	NC	NC	NC	1,390	1,280	1,680	840 U	2,670	1,400	1,860	NA	NA	NA	NA
Manganese	5,900	11,000	65	63.2	56.8	96	57.8	428	89.1	441	NA	NA	NA	NA
Mercury	65	23	0.1	0.092	0.04 U	0.036 U	0.087	0.037 U	0.059	0.036 U	NA	NA	NA	NA
Nickel	23,000	1,600	48	9.9	10.1	8.9	6.7 U	22.6	11.5	10.3	NA	NA	NA	NA
Potassium	NC	NC	NC	1200 U	1200 U	1200 U	1700 U	1100 U	1200 U	1200 U	NA	NA	NA	NA
Selenium	5,700	390	11	2.3 U	2.3 U	2.4 U	34 U	2.3 U	2.3 U	2.4 U	NA	NA	NA	NA
Silver	5,700	390	1	0.75	0.58 U	0.74	8.4 U	0.7	0.71	0.7	NA	NA	NA	NA
Sodium	NC	NC	NC	1200 U	1200 U	1200 U	1700 U	1100 U	1200 U	1200 U	NA	NA	NA	NA
Thallium	79	5	3	1.2 U	1.2 U	1.2 U	1.7 U	1.1 U	1.2 U	1.2 U	NA	NA	NA	NA
Vanadium	1,100	78	NC	31.3	37.5	37	8.4 U	41.2	42.9	36.8	NA	NA	NA	NA
Zinc	110,000	23,000	930	22.9	21.8	40.9	292	49.9	25.7	29.6	NA	NA	NA	NA
Polychlorinated Biphenyls														
Aroclor 1016	NC	NC	NC	0.04 U	0.038 U	0.039 U	0.054 U	0.037 U	0.035 U	0.039 U	0.035 U	0.04 U	NA	NA
Aroclor 1221	NC	NC	NC	0.04 U	0.038 U	0.039 U	0.054 U	0.037 U	0.035 U	0.039 U	0.035 U	0.04 U	NA	NA
Aroclor 1232	NC	NC	NC	0.04 U	0.038 U	0.039 U	0.054 U	0.037 U	0.035 U	0.039 U	0.035 U	0.04 U	NA	NA
Aroclor 1242	NC	NC	NC	0.04 U	0.038 U	0.458	0.054 U	0.037 U	0.035 U	0.039 U	0.035 U	0.04 U	NA	NA
Aroclor 1248	NC	NC	NC	0.04 U	0.038 U	0.039 U	0.054 U	0.037 U	0.035 U	0.039 U	0.035 U	0.04 U	NA	NA
Aroclor 1254	NC	NC	NC	0.04 U	0.038 U	0.039 U	0.054 U	0.037 U	0.035 U	0.039 U	0.035 U	0.04 U	NA	NA
Aroclor 1260	NC	NC	NC	0.04 U	0.038 U	0.039 U	0.054 U	0.037 U	0.035 U	0.039 U	0.035 U	0.04 U	NA	NA
Aroclor 1268	NC	NC	NC	0.04 U	0.038 U	0.039 U	0.054 U	0.037 U	0.035 U	0.039 U	0.035 U	0.04 U	NA	NA
Aroclor 1262	NC	NC	NC	0.04 U	0.038 U	0.039 U	0.054 U	0.037 U	0.035 U	0.039 U	0.035 U	0.04 U	NA	NA
Aroclor (Total)	1	0.2	0.2	0.04 U	0.038 U	0.458	0.054 U	0.037 U	0.035 U	0.039 U	0.035 U	0.04 U	NA	NA
Volatile Organic Compounds														
1,1,1-Trichloroethane	4,200	290	0.3	0.002 U	0.002 U	0.002 U	0.0039 U	0.0021 U	0.002 U	0.0019 U	NA	NA	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	3	1	0.007	0.002 U	0.002 U	0.002 U	0.0039 U	0.0021 U	0.002 U	0.0019 U	NA	NA	0.001 U	0.001 U
1,1,2-Trichloroethane	6	2	0.02	0.002 U	0.002 U	0.002 U	0.0039 U	0.0021 U	0.002 U	0.0019 U	NA	NA	0.001 U	0.001 U
1,1-Dichloroethane	24	8	0.2	0.00098 U	0.00098 U	0.00098 U	0.0019 U	0.0011 U	0.001 U	0.00096 U	NA	NA	0.001 U	0.001 U
1,1-Dichloroethene	150	11	0.008	0.00098 U	0.00098 U	0.00098 U	0.0019 U	0.0011 U	0.001 U	0.00096 U	NA	NA	0.001 U	0.001 U
1,2,3-Trichlorobenzene	NC	NC	NC	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0054 U	0.0051 U	0.0048 U	NA	NA	0.001 U	0.001 U
1,2,4-Trichlorobenzene	820	73	0.7	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0054 U	0.0051 U	0.0048 U	NA	NA	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane	0.2	0.08	0.005	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0054 U	0.0051 U	0.0048 U	NA	NA	0.002 U	0.002 U
1,2-Dibromoethane	0.04	0.008	0.005	0.00098 U	0.00098 U	0.00098 U	0.0019 U	0.0011 U	0.001 U	0.00096 U	NA	NA	0.001 U	0.001 U
1,2-Dichlorobenzene	59,000	5,300	17	0.00098 U	0.00098 U	0.00098 U	0.0019 U	0.0011 U	0.001 U	0.00096 U	NA	NA	0.001 U	0.001 U
1,2-Dichloroethane	3	0.9	0.005	0.00098 U	0.00098 U	0.00098 U	0.0019 U	0.0011 U	0.001 U	0.00096 U	NA	NA	0.001 U	0.001 U
1,2-Dichloropropane	5	2	0.005	0.002 U	0.002 U	0.002 U	0.0039 U	0.0021 U	0.002 U	0.0019 U	NA	NA	0.001 U	0.001 U
1,3-Dichlorobenzene	59,000	5,300	19	0.00098 U	0.00098 U	0.00098 U	0.0019 U	0.0011 U	0.001 U	0.00096 U	NA	NA	0.001 U	0.001 U
1,4-Dichlorobenzene	13	5	2	0.00098 U	0.00098 U	0.00098 U	0.0019 U	0.0011 U	0.001 U	0.00096 U	NA	NA	0.001 U	0.001 U
2-Butanone (MEK)	44,000	3,100	0.9	0.0098 U	0.0098 U	0.0098 U	0.019 U	0.011 U	0.01 U	0.0096 U	NA	NA	0.01 U	0.01 U
2-Hexanone	NC	NC	NC	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0054 U	0.0051 U	0.0048 U	NA	NA	0.005 U	0.005 U
4-Methyl-2-pentanone(MIBK)	NC	NC	NC	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0054 U	0.0051 U	0.0048 U	NA	NA	0.005 U	0.005 U
Acetone	NC	70,000	19	0.0098 U	0.0098 U	0.0164	0.019 U	0.011 U	0.01 U	0.0148	NA	NA	0.01 U	0.01 U
Benzene	5	2	0.005	0.00049 U	0.00049 U	0.00049 U	0.00097 U	0.00054 U	0.00051 U	0.00048 U	NA	NA	0.0005 U	0.0005 U
Bromochloromethane	NC	NC	NC	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0054 U	0.0051 U	0.0048 U	NA	NA	0.001 U	0.001 U
Bromodichloromethane	3	1	0.005	0.002 U	0.002 U	0.002 U	0.0039 U	0.0021 U	0.002 U	0.0019 U	NA	NA	0.001 U	0.001 U
Bromoform	280	81	0.03	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0054 U	0.0051 U	0.0048 U	NA	NA	0.001 U	0.001 U
Bromomethane	59	25	0.04	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0054 U						

Table 8 NJDOT Fernwood Maintenance Facility and Office Complex Ewing Township, New Jersey Supplemental Soil Sampling Analytical Results - Vehicle Wash Area AOC 34														
Sample ID				WBSB01A	DUP01	WBSB02A	WBSB03A	WBSB04A	WBSB05A	WBSB06A	SB1-1		FB01	TB
Lab ID				JB81080-1	JB81080-13	JB81080-3	JB81080-5	JB81080-7	JB81080-9	JB81080-11	SB1A	SB1B	JB81080-14	JB81080-15
Sample Depth (ft. bgs)				1.0-1.5	1.0-1.5	1.7-2.2	1.7-2.2	1.7-2.2	1.3-2.0	1.5-2.0	JC8585-8	JC8585-9	NA	NA
Sample Date				11/5/2014	11/5/2014	11/5/2014	11/5/2014	11/5/2014	11/5/2014	11/5/2014	1.5-2.0	11.3-11.8	2/7/5054	2/7/5054
Analyte	NRDCSRS	RDCSRS	IGWSSL											
Semi-Volatile Organic Compounds Cont.														
4-Chloro-3-methyl phenol	NC	NC	NC	0.19 U	0.17 U	0.18 U	0.26 U	0.19 U	0.19 U	0.2 U	NA	NA	0.005 U	NA
4-Chloroaniline	NC	NC	NC	0.19 U	0.17 U	0.18 U	0.26 U	0.19 U	0.19 U	0.2 U	NA	NA	0.005 U	NA
4-Chlorophenyl phenyl ether	NC	NC	NC	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
4-Nitroaniline	NC	NC	NC	0.19 U	0.17 U	0.18 U	0.26 U	0.19 U	0.19 U	0.2 U	NA	NA	0.005 U	NA
4-Nitrophenol	NC	NC	NC	0.38 U	0.34 U	0.35 U	0.52 U	0.37 U	0.37 U	0.41 U	NA	NA	0.01 U	NA
Acenaphthene	37,000	3,400	110	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Acenaphthylene	300,000	NC	NC	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Acetophenone	5	2	3	0.19 U	0.17 U	0.18 U	0.26 U	0.19 U	0.19 U	0.2 U	NA	NA	0.002 U	NA
Anthracene	30,000	17,000	2,400	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Atrazine	2,400	210	0.2	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
Benzaldehyde	68,000	6,100	NC	0.19 U	0.17 U	0.18 U	0.26 U	0.19 U	0.19 U	0.2 U	NA	NA	0.001 U	NA
Benzo(a)anthracene	2	0.6	0.8	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.005 U	NA
Benzo(a)pyrene	0.2	0.2	0.2	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Benzo(b)fluoranthene	2	0.6	2	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Benzo(g,h,i)perylene	30,000	380,000	NC	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Benzo(k)fluoranthene	23	6	25	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
bis(2-Chloroethoxy)methane	NC	NC	NC	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
bis(2-Chloroethyl)ether	2	0.4	0.2	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
bis(2-Chloroisopropyl)ether	67	23	5	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
bis(2-Ethylhexyl)phthalate	140	35	1,200	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
Butyl benzyl phthalate	14,000	1,200	230	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
Caprolactam	340,000	31,000	12	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
Carbazole	96	24	NC	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.001 U	NA
Chrysene	230	62	80	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Dibenzo(a,h)anthracene	0.2	0.2	0.8	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Dibenzofuran	NC	NC	NC	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.005 U	NA
Diethyl phthalate	550,000	49,000	88	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
Dimethyl phthalate	NC	NC	NC	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
Di-n-butyl phthalate	68,000	6,100	760	0.261	0.0935	0.22	0.436	0.233	0.225	0.0884	NA	NA	0.002 U	NA
Di-n-octyl phthalate	27,000	2,400	3,300	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
Fluoranthene	24,000	2,300	1,300	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Fluorene	24,000	2,300	170	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Hexachlorobenzene	1	0.3	0.2	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.001 U	NA
Hexachlorobutadiene	25	6	0.9	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Hexachlorocyclopentadiene	110	45	320	0.38 U	0.34 U	0.35 U	0.52 U	0.37 U	0.37 U	0.41 U	NA	NA	0.01 U	NA
Hexachloroethane	140	35	0.2	0.19 U	0.17 U	0.18 U	0.26 U	0.19 U	0.19 U	0.2 U	NA	NA	0.002 U	NA
Indeno(1,2,3-cd)pyrene	2	0.6	7	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Isophorone	2,000	510	0.2	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
Naphthalene	17	6	25	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Nitrobenzene	340	31	0.2	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
N-Nitroso-di-n-propylamine	0.3	0.2	0.2	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
N-Nitrosodiphenylamine	390	99	0.4	0.19 U	0.17 U	0.18 U	0.26 U	0.19 U	0.19 U	0.2 U	NA	NA	0.005 U	NA
Pentachlorophenol	10	3	0.3	0.38 U	0.34 U	0.35 U	0.52 U	0.37 U	0.37 U	0.41 U	NA	NA	0.01 U	NA
Phenanthrene	300,000	NC	NC	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Phenol	210,000	18,000	8	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
Pyrene	18,000	1,700	840	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U			0.001 U	NA
Extractable Petroleum Hydrocarbons														
EPH (C9-C28)	NC	NC	NC	7.8 U	7 U	6.9 U	11 U	7.3 U	7.5 U	8 U	NA	NA	0.051 U	NA
EPH (>C28-C40)	NC	NC	NC	7.8 U	7 U	6.9 U	11 U	7.3 U	7.5 U	8 U	NA	NA	0.051 U	NA
Total EPH (C9-C40)	54,000	5,100	NC	7.8 U	7 U	6.9 U	11 U	7.3 U	7.5 U	8 U	NA	NA	0.051 U	NA
Notes:														
- All are reported in parts per million (mg/kg) (dry weight)														
- ft bgs = feet below ground surface														
- NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, May 2012														
- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 2012														
- IGWSSL = Default Impact to Ground Water Soil Screening Level, per NJDEP "Soil-Water Partition Equation Guidance Document" dated November 2013.														
- J = Estimated Value														
- NA = Not Applicable														
- NC = No Criteria														
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.														
- Bold values indicate positive detections														
- Shaded values exceed IGWSSL														
- Shaded values exceed RDCSRS or IGWSSL														
- Shaded values exceeded NRDCSRS, RDCSRS, and IGWSSL														



Louis Berger

Drilling Log

Page 1 of 3

BORING NO.: MW25

WELL NO.: MW25

CLIENT: New Jersey Department of Transportation

PROJECT NO: 2001811.004

PROJECT: Fernwood Maintenance Complex

DATE STARTED: 11/8/2014

DRILLING CONTRACTOR: Summit Drilling Co., Inc.

DATE FINISHED: 11/8/2014

DRILLING METHOD: Hollow Stem Auger

DRILLER: K. Barber

BOREHOLE DATA

WELL DATA

INSPECTOR: J. Ganz

Diameter (in): 8

Completion: 2-inch PVC/Flushmount

NORTHING: N/A

Total Depth (ft): 23.00

Total Depth (ft): 23.0

EASTING: N/A

Sampler: Split Spoon/ Soil Cuttings

Screen Length (ft)/Slot (in): 10 / 0.010

GROUND ELEVATION: N/A

Depth to Water (ft): 16

Depth to Water (ft): 16.5

TOC ELEVATION: N/A

Depth to Rock (ft): N/A

Permit No.: N/A

NOTES:

Well Construction	Depth	Lithology	USCS	Sample Interval	Sample Recovery	Blows/6 in	PID (ppm)	Description	Remarks
	0		GP				N/A	Medium gray (N5) coarse to fine GRAVEL, trace Silt, little coarse to fine Sand; dry.	Gravel
	2								
	4								
	6		ML				N/A	Dark yellowish orange (10YR6/6) Clayey SILT, trace fine Gravel; moist.	Clayey Silt



BORING NO.: MW25

WELL NO.: MW25

Well	Depth	Lith.	USCS	Interval	Rec.	Blows	PID	Description	Remarks
	8								
	10		SP				N/A	Pale yellowish brown (10YR6/2) medium to fine SAND; moist.	Sand
	12		SP-SM				N/A	Grayish black (N2) medium to fine SAND, trace Silt, trace fine Gravel; moist.	
	12		SP-SM				N/A	Grayish brown (5YR3/2) medium to fine SAND, little Silt, trace coarse to fine Gravel; wet.	
	14							Grayish brown (5YR3/2) medium to fine SAND, little Silt, trace coarse to fine Gravel; wet.	
	16		SP-SM				N/A	Grayish brown (5YR3/2) medium to fine SAND, little Silt, trace coarse to fine Gravel; wet.	
	16								Water Level at 16 ft bgs



BORING NO.: MW25

WELL NO.: MW25

Well	Depth	Lith.	USCS	Interval	Rec.	Blows	PID	Description	Remarks
	18								
	20		SP-SM				N/A	Grayish brown (5YR3/2) medium to fine SAND, little Silt, trace coarse to fine Gravel; wet.	
	22								
									End of Boring at 23 ft.



Louis Berger

Drilling Log

Page 1 of 3

BORING NO.: MW26

WELL NO.: MW26

CLIENT: New Jersey Department of Transportation

PROJECT NO: 2001811.004

PROJECT: Fernwood Maintenance Complex

DATE STARTED: 11/8/2014

DRILLING CONTRACTOR: Summit Drilling Co., Inc.

DATE FINISHED: 11/8/2014

DRILLING METHOD: Hollow Stem Auger

DRILLER: K. Barber

BOREHOLE DATA

WELL DATA

INSPECTOR: J. Ganz

Diameter (in): 8

Completion: 2-inch PVC/Flushmount

NORTHING: N/A

Total Depth (ft): 23.00

Total Depth (ft): 23.0

EASTING: N/A

Sampler: Split Spoon/ Soil Cuttings

Screen Length (ft)/Slot (in): 10 / 0.010

GROUND ELEVATION: N/A

Depth to Water (ft): 16

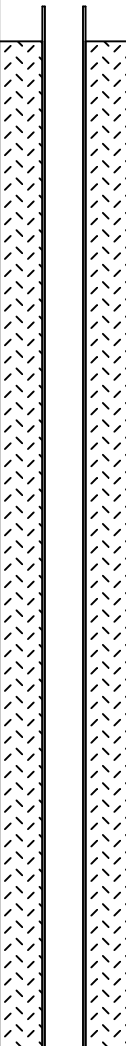



Depth to Water (ft): 16.5

TOC ELEVATION: N/A

Depth to Rock (ft): N/A

Permit No.: N/A

NOTES:

Well Construction	Depth	Lithology	USCS	Sample Interval	Sample Recovery	Blows/6 in	PID (ppm)	Description	Remarks
	0		GP				N/A	Medium gray (N5) coarse to fine GRAVEL, trace Silt, little coarse to fine Sand; dry.	Gravel
	2								
	4								
	6								



BORING NO.: MW26

WELL NO.: MW26

Well	Depth	Lith.	USCS	Interval	Rec.	Blows	PID	Description	Remarks
	8								
	10		GP				N/A	Medium gray (N5) coarse to fine GRAVEL, trace Silt, little coarse to fine Sand; dry.	
			SM				N/A	Grayish brown (5YR3/2) medium to fine SAND, some Silt, trace coarse to fine Gravel; moist.	Silty Sand
	12		SM				N/A	Grayish brown (5YR3/2) medium to fine SAND, some Silt, trace coarse to fine Gravel; moist.	
	14								
	16								
									 Water Level at 16 ft bgs



Well	Depth	Lith.	USCS	Interval	Rec.	Blows	PID	Description	Remarks
	18								
	20		SM				N/A	Grayish brown (5YR3/2) medium to fine SAND, some Silt, trace coarse to fine Gravel; wet.	
			SP				N/A	Moderate yellowish brown (10YR5/4) coarse to fine SAND, trace Silt; saturated.	Sand
			SP- SP- SM				N/A N/A N/A	Very pale orange (10YR8/2) medium to fine SAND, little Silt; wet. Black (N1) to moderate brown (5YR4/4) medium to fine SAND, little Silt, some fine Gravel; wet.	Gravelly Sand
	22								End of Boring at 23 ft bgs



Louis Berger

Drilling Log

Page 1 of 3

BORING NO.: MW27

WELL NO.: MW27

CLIENT: New Jersey Department of Transportation

PROJECT NO: 2001811.004

PROJECT: Fernwood Maintenance Complex

DATE STARTED: 11/8/2014

DRILLING CONTRACTOR: Summit Drilling Co., Inc.

DATE FINISHED: 11/8/2014

DRILLING METHOD: Hollow Stem Auger

DRILLER: K. Barber

BOREHOLE DATA

WELL DATA

Diameter (in): 8

Completion: 2-inch PVC/Flushmount

NORTHING: N/A

Total Depth (ft): 23.00

Total Depth (ft): 23.0

EASTING: N/A

Sampler: Split Spoon/ Soil Cuttings

Screen Length (ft)/Slot (in): 10 / 0.010

GROUND ELEVATION: N/A

Depth to Water (ft): 16

Depth to Water (ft): 16.5

TOC ELEVATION: N/A

Depth to Rock (ft): N/A

Permit No.: N/A

NOTES:

Well Construction	Depth	Lithology	USCS	Sample Interval	Sample Recovery	Blows/6 in	PID (ppm)	Description	Remarks
	0		GP				N/A	Medium gray (N5) coarse to fine GRAVEL, trace Silt, little coarse to fine Sand; dry.	Gravel
	2								
	4		ML				N/A	Dark yellowish orange (10YR6/6) Clayey SILT, trace fine Gravel; moist.	Clayey Silt
	6								



Louis Berger

PROJECT NO.: 2001811.004

BORING NO.: MW27

Page 2 of 3

WELL NO.: MW27

Well	Depth	Lith.	USCS	Interval	Rec.	Blows	PID	Description	Remarks
	8		SP SP- SM				N/A N/A	Dark gray (N3) medium to fine SAND, trace Silt, little coarse to fine Gravel; moist. Grayish brown (5YR3/2) medium to fine SAND, little Silt, little coarse to fine Gravel; moist.	Sand
	10		SM				N/A	Grayish brown (5YR3/2) medium to fine SAND, some Silt, trace coarse to fine Gravel; wet.	Silty Sand
	12								
	14								
	16								
									Water Level at 16 ft bgs



Louis Berger

PROJECT NO.: 2001811.004

BORING NO.: MW27

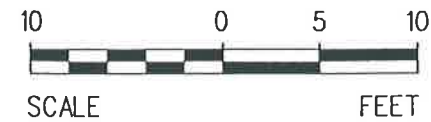
Page 3 of 3

WELL NO.: MW27

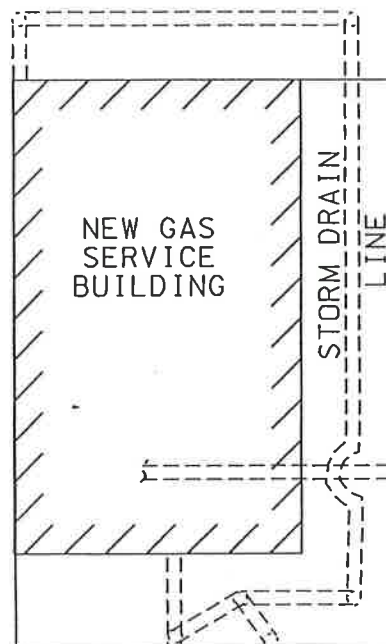
Well	Depth	Lith.	USCS	Interval	Rec.	Blows	PID	Description	Remarks
	18								
	20	GP					N/A	Dark gray (N3) to light gray (N7) coarse to fine GRAVEL, little medium to fine Sand; dry.	Gravel
		SP					N/A	Grayish brown (5YR3/2) medium to fine SAND, trace Silt, little coarse to fine Gravel; saturated.	Sand
	22								End of Boring at 23 ft bgs

ATTACHMENT 3
AREA 5: FUELING STATION AREA

ELECTRICAL MANHOLE ○
ELECTRICAL JUNCTION BOX □



FWSG-14(B)					
Sample Depth	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total VOCs
13-15	14.795	5.527	310	1.141	145.666



FW-14

FW-08

FW-07

FW-06

FW-05

FW-15

ELECTRIC SERVICE

4160 VOLTS

10,000 GAL. FUEL TANK (8.0' X 30.0')

UST No.1 (GASOLINE)

10,000 GAL. FUEL TANK (8.0' X 30.0')

UST No.2 (GASOLINE)

10,000 GAL. FUEL TANK (8.0' X 30.0') (DIESEL)

CONCRETE PAD

FW-10

FW-11

FW-01

FW-02

FW-12

FW-13

FW-03

FW-17

FWGW-12					
Sample Depth	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total VOCs
11.5-13	2.649	901	1.418	8.632	67.069
NJDEP Standard	1	1,000	700	40	N/A

FWGW-13					
Sample Depth	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total VOCs
10.5-11.5	2.447	370	825	4.483	65.445
NJDEP Standard	1	1,000	700	40	N/A

EXCAVATION AREA

FW-09

FW-04

FW-16

FWSG-09(B)					
Sample Depth	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total VOCs
13-15	15.308	812	328	446	531.682

FWSG-06(B)					
Sample Depth	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total VOCs
13-15	29.082	14.812	661	2.438	219.395

FWSG-15(B)					
Sample Depth	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total VOCs
13-15	29.871	13.886	606	2.457	226.640

FWSG-05(B)					
Sample Depth	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total VOCs
13-15	28.166	14.400	602	2.276	517.318

LEGEND:

● 1995 GEOPROBE BORING LOCATION/
ANALYTICAL RESULTS

COPY



NEW JERSEY
DEPARTMENT OF TRANSPORTATION

FERNWOOD COMPLEX FUELING STATION
EWING TOWNSHIP, MERCER COUNTY

1995 GEOPROBE LOCATION/
ANALYTICAL RESULTS

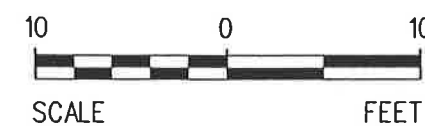
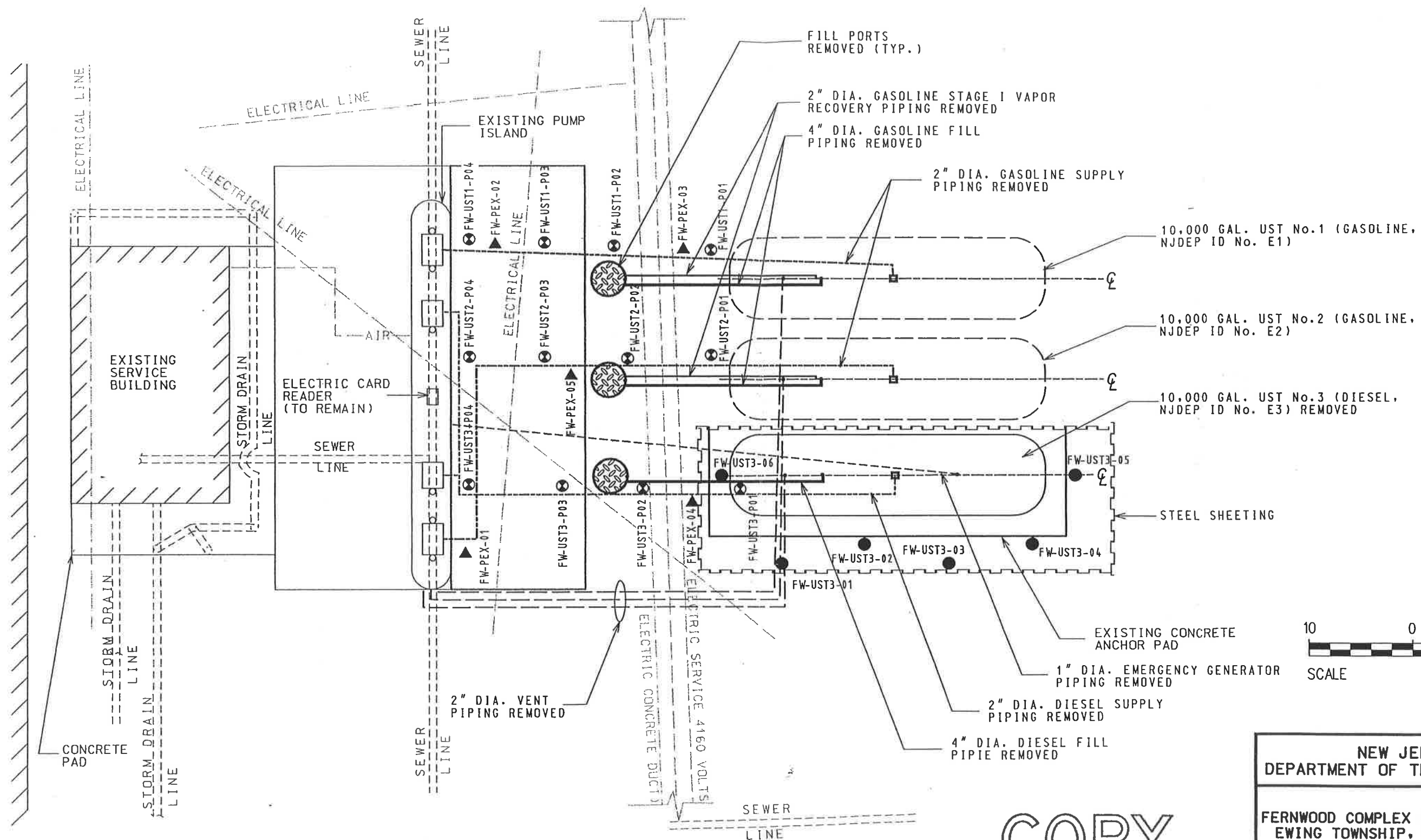
BEM ENVIRONMENTAL ENGINEERS AND SCIENTISTS
SYSTEMS, INC. CHATHAM, NJ 07928 (908) 598-2600

FIGURE:
3

DATE:	REVISIONS:	BY:	APPROVED:
DRAWN: I.M.	CHECKED:	APPROVED:	

DRAWING No.: D-9909-31	JOB No.: BE-1250-22	SCALE: 1" = 10'	DATE: 09/1999	SHEET: 3 OF 10
---------------------------	------------------------	--------------------	------------------	-------------------

EXISTING BUILDING 20



LEGEND:

- ⊗ PIPING SAMPLING LOCATION (12/01/98)
- TANK PIT POST-EXCAVATION SAMPLING LOCATION (01/13/99)
- ▲ PIPING POST-EXCAVATION SAMPLING LOCATION (01/22/99)

COPY

NEW JERSEY
DEPARTMENT OF TRANSPORTATION

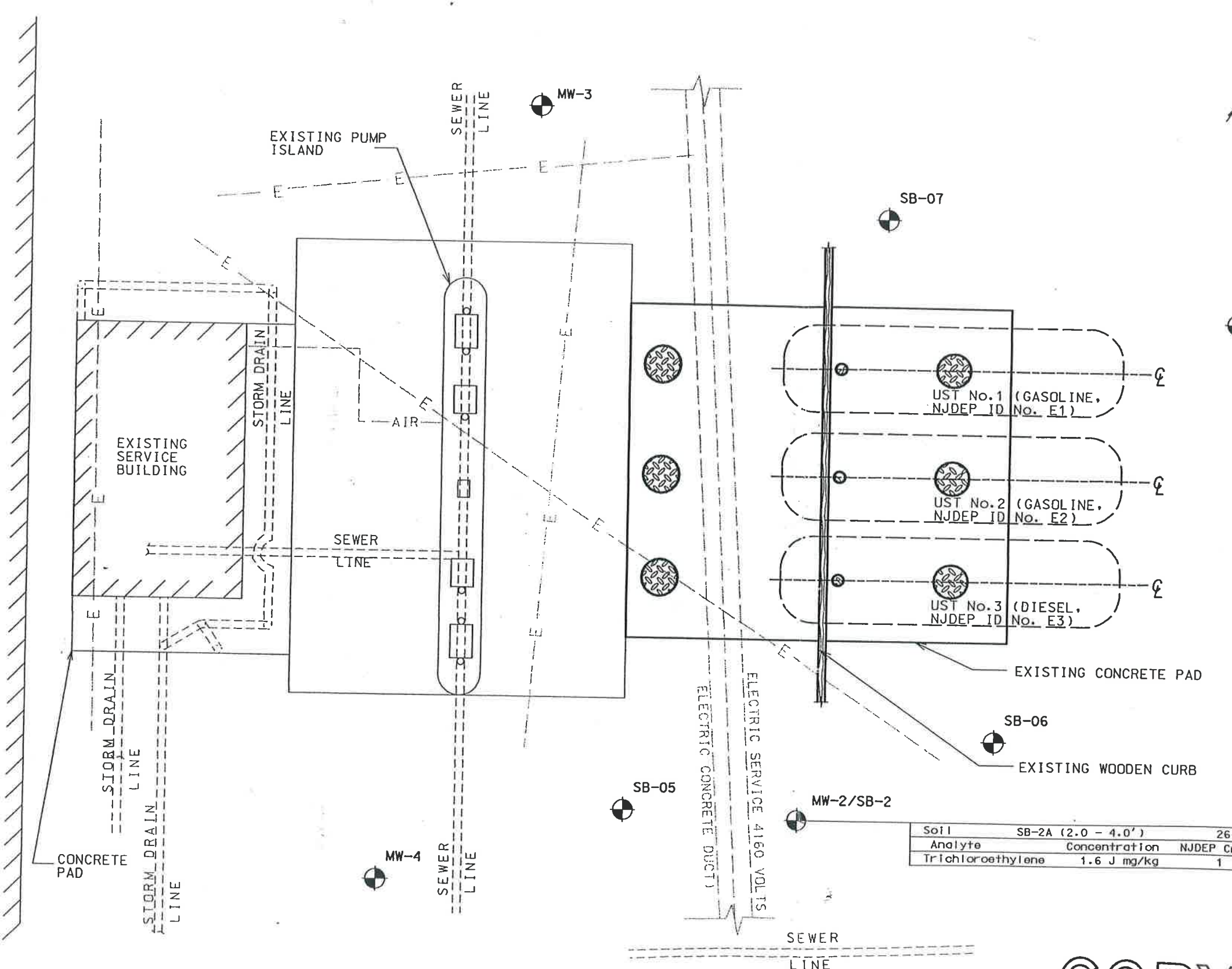
FERNWOOD COMPLEX FUELING STATION
EWING TOWNSHIP, MERCER COUNTY

UST CLOSURE SOIL
SAMPLE LOCATION

				BEM SYSTEMS, INC.				ENVIRONMENTAL ENGINEERS AND SCIENTISTS CHATHAM, NJ 07928 (908) 598-2600				FIGURE: 4			
NO. DATE:		REVISIONS:		By: APPROVED:		DRAWING No. B-9909-32		JOB No. BE-1250-22		SCALE: 1" = 10'		DATE: 09/1999		SHEET 4 OF 10	
DRAWN: I.M.		CHECKED: D.B.		APPROVED: O.S.											

FIGURE:
4

EXISTING BUILDING 20



Soil	SB-1C (17.0 - 18.0')	25-Jun-98
Analyte	Concentration	NJDEP Criteria
Tetrachloroethene	1.0 J mg/kg	1 mg/kg

LEGEND:

—E— Electrical line

10 0 5 10
SCALE FEET

Soil	SB-2A (2.0 - 4.0')	26-Jun-98
Analyte	Concentration	NJDEP Criteria
Trichloroethylene	1.6 J mg/kg	1 mg/kg

COPY

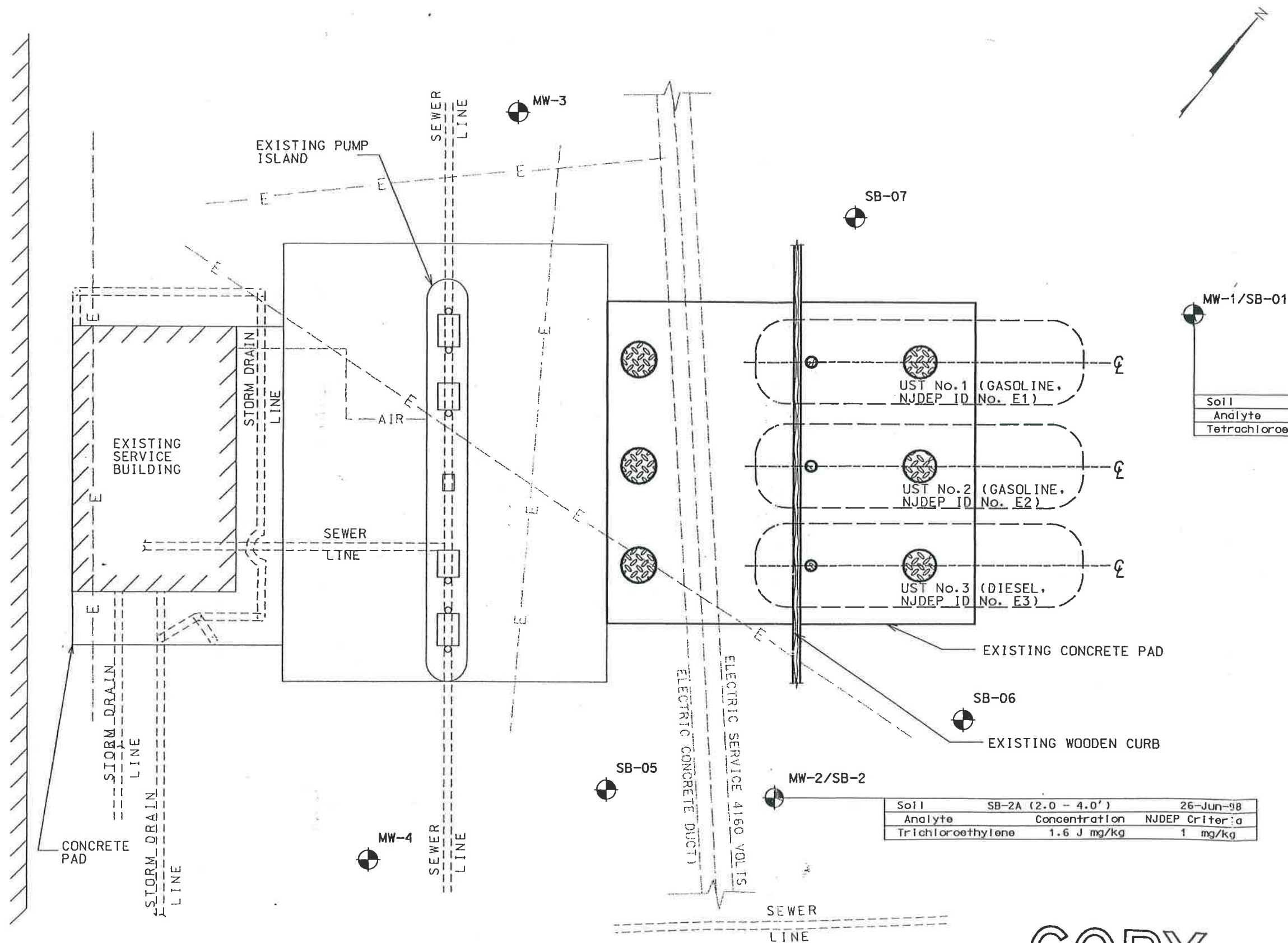
NEW JERSEY
DEPARTMENT OF TRANSPORTATION

FERNWOOD COMPLEX FUELING STATION
EWING TOWNSHIP, MERCER COUNTY

1998 SOIL BORING/MONITORING WELL
LOCATION/ANALYTICAL RESULTS

NO. DATE:		REVISIONS:		BY: APPROVED:		BEM ENVIRONMENTAL ENGINEERS AND SCIENTISTS CHATHAM, NJ 07928 (908) 598-2600	FIGURE: 5
DRAWN: I.M.		CHECKED:		APPROVED:			
DRAWING No.: B-9909-33		JOB No.: BE-1250-22		SCALE: 1" = 10'		DATE: 09/1999	
						SHEET: 5 OF 10	

EXISTING BUILDING 20



MW-1/SB-01

Soil	SB-1C (17.0 - 18.0')	25-Jun-98
Analyte	Concentration	NJDEP Criteria
Tetrachloroethene	1.0 J mg/kg	1 mg/kg

LEGEND:

—E— Electrical line



SCALE

FEET

Soil	SB-2A (2.0 - 4.0')	26-Jun-98
Analyte	Concentration	NJDEP Criteria
Trichloroethylene	1.6 J mg/kg	1 mg/kg

COPY

NEW JERSEY
DEPARTMENT OF TRANSPORTATION

FERNWOOD COMPLEX FUELING STATION
EWING TOWNSHIP, MERCER COUNTY

1998 SOIL BORING/MONITORING WELL
LOCATION/ANALYTICAL RESULTS

BEM ENVIRONMENTAL ENGINEERS AND SCIENTISTS
SYSTEMS, INC. CHATHAM, NJ 07928 (908) 598-2600

FIGURE:
5

NO. DATE:	REVISIONS:	BY:	APPROVED:	DRAWING No.:	JOB No.:	SCALE:	DATE:	SHEET:
				B-9909-33	BE-1250-22	1" = 10'	09/1999	5 OF 10
DRAWN: I.M.	CHECKED:	APPROVED:						

TABLE 1 - GEOPROBE INVESTIGATION VOC ANALYTICAL RESULTS
(Cont'd)

SOIL SAMPLES

<u>Sample ID</u>	<u>Sample Depth (ft)</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl- benzene</u>	<u>m&p- Xylenes</u>	<u>o-Xylene</u>	<u>Total Xylenes</u>	<u>Total VOCs</u>
FWSO-04	14-15	48	ND(2)	13	17	ND(2)	17	635
FWSO-05	4-6	11	ND(2)	19	69	6	75	271
FWSO-06	4-6	118	107	56	107	71	178	666
FWSO-07	4-6	212	8	ND(2)	7	ND(2)	7	336
FWSO-08	4-6	72	2	6	26	11	37	381
FWSO-09	4-6	49	4	ND(2)	40	ND(2)	40	158
FWSO-10	4-6	5	ND(2)	ND(2)	7	ND(2)	7	28
FWSO-11	4-6	3	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	17
FWSO-12	4-6	ND(2)	ND(2)	ND(2)	17	ND(2)	17	25
FWSO-13	3-5	10	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	174
FWSO-14	4-6	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	13
FWSO-15	4-6	183	11	71	193	37	230	665
FWSO-16	3-5	25	2	ND(2)	8	ND(2)	8	161
FWSO-17	3-5	55	3	ND(2)	18	ND(2)	18	304

Notes:

- 1) All results are presented in micrograms per liter ($\mu\text{g/l}$)
- 2) ND - Not detected at lower quantifiable limit indicated in parentheses.
- 3) (D) - Field Duplicate Sample

TABLE 2 - GEOPROBE INVESTIGATION TPHC ANALYTICAL RESULTS

<u>Sample ID</u>	<u>Sample Depth (ft)</u>	<u>TPHCs</u>
FWSO-03	10-12	58
FWSO-03(D)	10-12	52
FWSO-05	4-6	38
FWSO-06	4-6	42
FWSO-07	4-6	70
FWSO-08	4-6	38
FWSO-09	4-6	98
FWSO-09(D)	4-6	94
FWSO-10	4-6	42
FWSO-11	4-6	78
FWSO-13	3-5	164
FWSO-14	4-6	32
FWSO-15	4-6	82
FWSO-16	3-5	58
FWSO-17	3-5	154

Notes:

- 1) All results are presented in milligrams per kilogram (mg/kg)
- 2) ND - Not detected at lower quantifiable limit indicated in parentheses
- 3) (D) - Field Duplicate Sample

Table 2. Concentrations of Volatile Organic Compounds in Soil Samples Collected in June 1998 at the NJDOT - Fernwood Site, Fernwood, New Jersey.

Sample ID:	Unknown Std	SB-1A (2.0' - 3.0')	SB-1B (12.0' - 13.0')	SB-1C (17.0' - 18.0')	SB-2A (2.0' - 4.0')	SB-2A (2.0' - 4.0') Run 2	SB-2ARE (2.0' - 3.5')	SB-2B (8.0' - 10.0')	SB-2C (12.0' - 13.5')	SB-2D (16.0' - 17.5')
Analyte	Date:	25-Jun-98	25-Jun-98	25-Jun-98	26-Jun-98	26-Jun-98	27-Jun-98	27-Jun-98	27-Jun-98	27-Jun-98
Acetone Acrolein Acrylonitrile Bromodichloromethane Bromobenzene	100	0.85	0.90 UJ	0.96 UJ	0.75 UJ	0.75 UJ	0.77 U	0.77 UJ	0.74 UJ	0.87
	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
	1	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	0.75 UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
Bromochloromethane Bromomethane n-Butylbenzene sec-Butylbenzene t-Butylbenzene	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
	1	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	0.75 UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
Benzene Toluene Carbon disulfide 2-Chloroethyl vinyl ether Chlorobenzene	1	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	0.75 UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
	500	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	0.75 UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
	NA	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	0.75 UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
	1	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	0.75 UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
2-Chlorotoluene 4-Chlorotoluene Chloroethane Chloromethane Carbon tetrachloride	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
	NA	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	0.75 UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
	10	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	0.75 UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
	1	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	0.75 UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
Dibromochloromethane 1,2-Dibromo-3-chloropropane Dibromomethane 1,1-Dichloroethane 1,2-Dichloroethane	1	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	0.75 UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
	10	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	0.75 UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
	1	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	0.75 UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethene cis-1,2-Dichloroethene	50	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
	100	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
	100	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	0.75 UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
	8	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	0.75 UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
	1	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
trans-1,2-Dichloroethene 1,1-Dichloropropene cis-1,3-Dichloropropene trans-1,3-Dichloropropene 1,2-Dichloropropane	50	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
	NA	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	0.75 UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
	NA	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	0.75 UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
	10	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	0.75 UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
1,3-Dichloropropane 2,2-Dichloropropane Ethylbenzene Ethylene dibromide Trichlorofluoromethane	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
	100	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	0.75 UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U

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Table 2. Concentrations of Volatile Organic Compounds in Soil Samples Collected in June 1998 at the NJDOT- Fernwood Site, Fernwood, New Jersey.

Analyte	Sample ID: Unknown Std	SB-1A (2.0' - 3.0')	SB-1B (12.0' - 13.0')	SB-1C (17.0' - 18.0')	SB-2A (2.0' - 4.0')	SB-2A (2.0' - 4.0') Run 2	SB-2ARE (2.0' - 3.5')	SB-2B (8.0' - 10.0')	SB-2C (12.0' - 13.5')	SB-2D (16.0' - 17.5')
Date:	25-Jun-98	25-Jun-98	25-Jun-98	25-Jun-98	26-Jun-98	26-Jun-98	27-Jun-98	27-Jun-98	27-Jun-98	27-Jun-98
Dichlorodifluoromethane	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
Hexachlorobutadiene	1	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
2-Hexanone	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
Isopropylbenzene ((Cumene)	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
p-Isopropyltoluene	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
4-Methyl-2-pentanone	50	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
Methyl ethyl ketone	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
Methylene chloride	1	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.51 J
Naphthalene	100	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
n-Propylbenzene	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
1,1,2,2-Tetrachloroethane	1	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
Tetrachloroethene	1	0.75 U	0.32 J	1.0 J	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
Styrene	23	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
Tribromomethane	1	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
1,1,1,2-Tetrachloroethane	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
1,1,1-Trichloroethane	50	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
1,1,2-Trichloroethane	1	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
1,2,3-Trichlorobenzene	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
1,2,4-Trichlorobenzene	68	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
Trichloroethylene	1	0.75 U	0.74 U	0.73 U	0.75 U	1.6 J	0.77 U	0.77 U	0.74 U	0.75 U
Trichloromethane	1	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
1,2,3-Trichloropropane	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
1,2,4-Trimethylbenzene	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
1,3,5-Trimethylbenzene	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
Vinyl acetate	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
Vinyl chloride	2	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U
Xylenes, m & p	NA	0.75 U	0.74 U	0.73 U	0.32 J	0.32 J	0.77 U	0.77 U	0.74 U	0.75 U
o-Xylene	NA	0.75 U	0.74 U	0.73 U	0.75 U	0.75 U	0.77 U	0.77 U	0.74 U	0.75 U

Do not use Strikeout results for interpretation, although these results are not technically rejectable

Shaded results exceed stated criteria

Analyte concentrations in mg/kg (ppm)

Analyses were performed by Chemtech, Inc., using standard analytical methodology

B Analyte is also detected in the laboratory blank

J Result is detected below the reporting limit and/or is an estimated concentration

U Analyte analyzed for but undetected at the corresponding quantitation limit

[illegible]

[illegible]

[illegible]

[illegible]

Table 6. Concentrations of Indicator Parameters and Metals in Soil Samples Collected in June 1998 at the NJDOT- Fernwood Site, Fernwood, New Jersey.

Analyte	Sample ID: Unknown Sid		SB-1A		SB-1B		SB-1C		SB-1D		SB-2A		SB-2ARE		SB-2B		SB-2C		SB-2D		SB-2E		SB-3A	
	Date:		(2.0' - 3.0')		(12.0' - 13.0')		(17.0' - 18.0')		(23.0' - 24.0')		(2.0' - 4.0')		(2.0' - 3.5')		(8.0' - 10.0')		(12.0' - 13.5')		(16.0' - 17.5')		(18.0' - 19.5')		(2.0' - 3.0')	
Iron, mg/kg (ppm)	25-Jun-98		35800		30900		19700		37600		26-Jun-98		27-Jun-98		27-Jun-98		27-Jun-98		27-Jun-98		27-Jun-98		25-Jun-98	
Lead, mg/kg (ppm)			NA		11.9		4.1		8.1		NA		NA		12200		36700		41300		70100		16900	
pH, pH Units			400		11.8		7.5		6.2		NA		NA		10.1		7.7		8.5		19.4		7.0	
Redox Potential, Millivolts			NA		NA		7.5		710		NA		NA		NA		5.2		5.7		NA		NA	
Total Solids, Percent			NA		85.1		85.8		72.4		82.8		81.4		81.1		84.5		82.9		66.5		83.8	
TOC (Fines), mg/kg (ppm)			NA		NA		233		252		NA		NA		NA		698		300		NA		NA	
TOC (Sand), mg/kg (ppm)			NA		NA		176		165		NA		NA		NA		NA		147		NA		NA	

Analyte concentrations in units specified

Analyses were performed by Chemtech, Inc., using standard analytical methodology

NA Not applicable

SB-3B (12.0' - 13.0')	SB-3C (15.0' - 16.0')	SB-3D (21.0' - 22.0')	SB-4A (2.0' - 3.5')	SB-4B (12.5' - 14.0')	SB-4C (15.5' - 17.0')	SB-4D (22.0' - 24.0')	SB-4E (12.5' - 14.0')	SB-5A (2.0' - 3.0')	SB-5B (12.0' - 13.0')	SB-5C (15.0' - 16.0')	SB-6A (2.0' - 3.0')	SB-6B (12.0' - 13.0')	SB-6C (15.0' - 16.0')
25-Jun-98	25-Jun-98	25-Jun-98	26-Jun-98	26-Jun-98	26-Jun-98	26-Jun-98	26-Jun-98	24-Jun-98	24-Jun-98	24-Jun-98	24-Jun-98	24-Jun-98	24-Jun-98
9330	26500	35600	21800	28800	40200	39000	34700	30100	16700	59100	24200	27300	45000
8.6	10.5	7.6	9.2	7.1	10.7	9.9	7.4	11.7	9.4	13.8	15.5	12	10.6
NA	5.5	5.3	NA	NA	5.0	5.5	NA	NA	NA	NA	NA	NA	NA
NA	666	640	NA	NA	624	615	NA	NA	NA	NA	NA	NA	NA
86.2	78	77	85.9	82.9	82.8	80.7	83.1	82.6	86.4	84.8	85.2	81.2	83.5
NA	652	262	NA	NA	268	219	NA	NA	NA	NA	NA	NA	NA
NA	390	157	NA	NA	188	498	NA	NA	NA	NA	NA	NA	NA

SB-7A (2.0' - 3.0')	SB-7B (12.0' - 13.0')	SB-7C (17.0' - 18.0')
24-Jun-98	24-Jun-98	24-Jun-98
47600	17300	21700
14.5	15.1	7.6
NA	NA	NA
NA	NA	NA
81.4	84.5	83.2
NA	NA	NA
NA	NA	NA

Table 2. Concentrations of Volatile Organic Compounds in Soil Samples Collected in January 1999 at the NJDOT Fernwood Complex Fueling Station, Fernwood, New Jersey.

	Sample ID:	NJDEP RDC Cleanup Criteria	FW-UST3-05
Analyte	Date:	11-Jul-96	13-Jan-99
Acetone		1000	0.0063 U
Acrolein		NA	0.0063 U
Acrylonitrile		NA	0.0063 U
Bromodichloromethane		11	0.0013 U
Bromobenzene		NA	0.0013 U
Bromochloromethane		NA	0.0022 U
Bromomethane		79	0.0048 U
n-Butylbenzene		NA	0.0022 U
sec-Butylbenzene		NA	0.0015 U
t-Butylbenzene		NA	0.0015 U
Benzene		3	0.0013 U
Toluene		1000	0.0016 U
Carbon disulfide		NA	0.0063 U
2-Chloroethyl vinyl ether		NA	0.0063 U
Chlorobenzene		37	0.0014 U
2-Chlorotoluene		NA	0.0014 U
4-Chlorotoluene		NA	0.0013 U
Chloroethane		NA	0.0063 U
Chloromethane		520	0.0042 U
Carbon tetrachloride		2	0.0051 U
Dibromochloromethane		110	0.00090 U
1,2-Dibromo-3-chloropropane		NA	0.0063 U
Dibromomethane		NA	0.0018 U
1,1-Dichloroethane		570	0.0016 U
1,2-Dichloroethane		6	0.0013 U
1,2-Dichlorobenzene		5100	0.0013 U
1,3-Dichlorobenzene		5100	0.0015 U
1,4-Dichlorobenzene		570	0.0015 U
1,1-Dichloroethene		8	0.0024 U
cis-1,2-Dichloroethene		79	0.0022 U
trans-1,2-Dichloroethene		1000	0.0054 U
1,1-Dichloropropene		NA	0.0014 U
cis-1,3-Dichloropropene		NA	0.0013 U
trans-1,3-Dichloropropene		NA	0.0013 U
1,2-Dichloropropene		10	0.0043 U
1,3-Dichloropropane		NA	0.0015 U
2,2-Dichloropropane		NA	0.0013 U
Ethylbenzene		1000	0.0053 U
Ethylene dibromide		NA	0.0020 U
Trichlorofluoromethane		NA	0.0015 U

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Table 2. Concentrations of Volatile Organic Compounds in Soil Samples Collected in January 1999 at the NJDOT Fernwood Complex Fueling Station, Fernwood, New Jersey.

Analyte	Sample ID:	NJDEP RDC	FW-UST3-05
	Date:	Cleanup Criteria	
		11-Jul-96	13-Jan-99
Dichlorodifluoromethane		NA	0.0021 U
Hexachlorobutadiene		1	0.0013 U
2-Hexanone		NA	0.0063 U
Isopropylbenzene ((Cumene)		NA	0.0054
p-Isopropyltoluene		NA	0.0011 U
4-Methyl-2-pentanone		1000	0.0063 U
Methyl ethyl ketone		NA	0.0063 U
Methylene chloride		49	0.0038
Naphthalene		230	0.0030 U
n-Propylbenzene		NA	0.0016 U
1,1,2,2-Tetrachloroethane		34	0.0020 U
Tetrachloroethene		4	0.0014 U
Styrene		23	0.00030 U
Tribromomethane		86	0.00060 U
1,1,1,2-Tetrachloroethane		NA	0.0015 U
1,1,1-Trichloroethane		210	0.0011 U
1,1,2-Trichloroethane		22	0.0017 U
1,2,3-Trichlorobenzene		NA	0.0018 U
1,2,4-Trichlorobenzene		68	0.0015 U
Trichloroethylene		23	0.0033 U
Trichloromethane		19	0.0015 U
1,2,3-Trichloropropane		NA	0.0032 U
1,2,4-Trimethylbenzene		NA	0.017
1,3,5-Trimethylbenzene		NA	0.0020 U
Vinyl acetate		NA	0.0063 U
Vinyl chloride		2	0.0024 U
Xylenes, m & p		NA	0.0029 U
o-Xylene		NA	0.0015 U

Analyte concentrations in mg/kg (ppm)

Analyses were performed by Chemtech, Inc., using USEPA CLP SOW (3/90 and revisions)/VOA

U Analyte analyzed for but undetected at the corresponding quantitation limit

Table 3. Concentrations of Metals in Groundwater Samples Collected in January 1999 at the NJDOT Fernwood Complex Fueling Station, Fernwood, New Jersey.

Sample ID:	NJDEP GW Std or PQL	FIV-DIW01
Analy Date:	18-Mar-96	13-Jan-99
Lead	10	4.4

Analyte concentrations in ug/L (ppb)

Analyses were performed by Chemtech, Inc., using USEPA CLP SOW (3/90 and revisions)/MT

Table 4. Concentrations of Petroleum Hydrocarbons in Soil Samples Collected in January 1999 at the NJDOT Fernwood Complex Fueling Station, Fernwood, New Jersey.

Sample ID:		NJDEP RDC Cleanup Criteria	FW-UST3-01	FW-UST3-02	FW-UST3-03	FW-UST3-04	FW-UST3-05	FW-UST3-06
Analyte	Date:	11-Jul-96	13-Jan-99	13-Jan-99	13-Jan-99	13-Jan-99	13-Jan-99	13-Jan-99
Petroleum hydrocarbons		NA	39.4 U	40.7 U	40.1 U	40.5 U	109	40.2 U

Analyte concentrations in mg/kg (ppm)

Analyses were performed by Chemtech, Inc., using USEPA 418.1 (modified for soils)

U Analyte analyzed for but undetected at the corresponding detection limit

Table 5. Concentrations of Indicator Parameters in Soil Samples Collected in January 1999 at the NJDOT Fernwood Complex Fueling Station, Fernwood, New Jersey.

Sample ID:		NJDEP RDC Cleanup Criteria	FW-UST3-01	FW-UST3-02	FW-UST3-03	FW-UST3-04	FW-UST3-05	FW-UST3-06
Analyte	Date:	11-Jul-96	13-Jan-99	13-Jan-99	13-Jan-99	13-Jan-99	13-Jan-99	13-Jan-99
Total Solids		NA	84.6	81.9	83	82.3	79.2	82.8

Analyte concentrations in Percent

Analyses were performed by Chemtech, Inc., using USEPA 160.3 Modified

Table 2. Concentrations of Volatile Organic Compounds in Soil Samples Collected in December 1998 at NJDOT-Fernwood

Analyte	Sample ID:	NJDEP RDC Cleanup Criteria	FWUST1-P01 (0.0' - 6.0')	FWUST1-P01 (0.0' - 6.0') Run 2	FWUST1-P02 (0.0' - 6.0')	FWUST1-P03 (0.0' - 6.0')	FWUST1-P04 (0.0' - 6.0')	FWUST2-P01 (1.8' - 2.0')	FWUST2-P01 (1.8' - 2.0') Run 2	FWUST2-P02 (0.0' - 6.0')
	Date:	11-Jul-96	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98
Acetone		1000	0.69 UJ	4.4 D	0.72 U	0.73 U	0.72 U	0.74 UJ	16 JD	0.24 J
Acrolein		NA	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
Acrylonitrile		NA	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
Bromodichloromethane		11	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
Bromobenzene		NA	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
Bromochloromethane		NA	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
Bromomethane		79	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
n-Butylbenzene		NA	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
sec-Butylbenzene		NA	1.2	3.4 UD	0.72 U	0.73 U	0.56 J	3.0	37 UD	2.9
t-Butylbenzene		NA	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
Benzene		3	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
Toluene		1000	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.58 J	12 J	37 UD	3.2 EJ
Carbon disulfide		NA	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
2-Chloroethyl vinyl ether		NA	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
Chlorobenzene		37	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
2-Chlorotoluene		NA	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
4-Chlorotoluene		NA	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
Chloroethane		NA	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
Chloromethane		520	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
Carbon tetrachloride		2	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
Dibromochloromethane		110	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.34 J
1,2-Dibromo-3-chloropropane		NA	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
Dibromomethane		NA	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
1,1-Dichloroethane		570	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
1,2-Dichloroethane		6	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
1,2-Dichlorobenzene		5100	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
1,3-Dichlorobenzene		5100	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
1,4-Dichlorobenzene		570	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
1,1-Dichloroethene		8	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
cis-1,2-Dichloroethene		79	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
trans-1,2-Dichloroethene		1000	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
1,1-Dichloropropene		NA	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
cis-1,3-Dichloropropene		NA	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
trans-1,3-Dichloropropene		NA	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
1,2-Dichloropropane		10	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
1,3-Dichloropropane		NA	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
2,2-Dichloropropane		NA	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
Ethylbenzene		1000	0.26 J	3.4 UD	0.72 U	0.73 U	2.2	13 J	13 JD	3.2 EJ
Ethylene dibromide		NA	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
Trichlorofluoromethane		NA	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U

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Table 2. Concentrations of Volatile Organic Compounds in Soil Samples Collected in December 1998 at NJDOT-Fernwood

	Sample ID:	NJDEP RDC Cleanup Criteria	FWUST1-P01 (0.0' - 6.0')	FWUST1-P01 (0.0' - 6.0') Run 2	FWUST1-P02 (0.0' - 6.0')	FWUST1-P03 (0.0' - 6.0')	FWUST1-P04 (0.0' - 6.0')	FWUST2-P01 (1.8' - 2.0')	FWUST2-P01 (1.8' - 2.0') Run 2	FWUST2-P02 (0.0' - 6.0')
Analyte	Date:	11-Jul-96	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98
Dichlorodifluoromethane		NA	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
Hexachlorobutadiene		1	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
2-Hexanone		NA	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
Isopropylbenzene ((Cumene)		NA	1.5	1.7 JD	0.72 U	0.73 U	0.99	20	20 JD	2.4 EJ
p-Isopropyltoluene		NA	1.2	1.3 JD	0.72 U	0.73 U	0.72 U	2.4	37 UD	2.2
4-Methyl-2-pentanone		1000	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
Methyl ethyl ketone		NA	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
Methylene chloride		49	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
Naphthalene		230	7.2	8.2 D	0.72 U	0.73 U	2.5	36 EJ	36 JD	2.0 EJ
n-Propylbenzene		NA	1.1	3.4 UD	0.72 U	0.73 U	2.4	13	37 UD	2.5 EJ
1,1,2,2-Tetrachloroethane		34	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
Tetrachloroethene		4	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
Styrene		23	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
Tribromomethane		86	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
1,1,1,2-Tetrachloroethane		NA	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
1,1,1-Trichloroethane		210	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
1,1,2-Trichloroethane		22	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
1,2,3-Trichlorobenzene		NA	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
1,2,4-Trichlorobenzene		68	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
Trichloroethylene		23	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
Trichloromethane		19	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
1,2,3-Trichloropropane		NA	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
1,2,4-Trimethylbenzene		NA	43 EJ	85 D	0.37 J	0.39 J	12	62 EJ	270 D	54 EJ
1,3,5-Trimethylbenzene		NA	27 EJ	32 D	0.45 J	0.53 J	4.0	38 EJ	84 D	38 EJ
Vinyl acetate		NA	0.69 U	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
Vinyl chloride		2	0.69 UJ	3.4 UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
Xylenes, m & p		NA	5.4 J	5.1 D	0.72 U	0.73 U	7.3	120 EJ	200 D	160 EJ
o-Xylene		NA	0.69 UJ	3.4 UD	0.72 U	0.73 U	2.2	61 EJ	90 D	67 EJ

Do not use Strikeout results for interpretation, although these results are not technically rejectable

Analyte concentrations in mg/kg (ppm)

Analyses were performed by Chemtech, Inc., using USEPA SW846 8260

D Analyte identified at a secondary dilution

E Concentration exceeds calibration range

J Result is detected below the reporting limit and/or is an estimated concentration

U Analyte analyzed for but undetected at the corresponding quantitation limit

Table 2. Concentrations of Volatile Organic Compounds in Soil Samples Collected in December 1998 at NJDOT-Fernwood

Analyte	Sample ID:	NJDEP RDC Cleanup Criteria Date: 11-Jul-96	FWUST2-P02 (0.0' - 6.0') Run 2 01-Dec-98	FWUST2-P03 (1.8' - 2.0') Run 2 01-Dec-98	FWUST2-P03 (1.8' - 2.0') Run 2 01-Dec-98	FWUST2-P04 (0.0' - 6.0') Run 2 01-Dec-98	FWUST3-P03 (0.0' - 6.0') Run 2 01-Dec-98
Acetone		1000	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Acrolein		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Acrylonitrile		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Bromodichloromethane		11	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Bromobenzene		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Bromochloromethane		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Bromomethane		79	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
n-Butylbenzene		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
sec-Butylbenzene		NA	34 UD	1.0	1.4 JD	0.71 U	0.72 U
t-Butylbenzene		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Benzene		3	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Toluene		1000	25 JD	1.0	1.4 JD	0.71 U	0.72 U
Carbon disulfide		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
2-Chloroethyl vinyl ether		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Chlorobenzene		37	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
2-Chlorotoluene		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
4-Chlorotoluene		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Chloroethane		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Chloromethane		520	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Carbon tetrachloride		2	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Dibromochloromethane		110	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
1,2-Dibromo-3-chloropropane		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Dibromomethane		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
1,1-Dichloroethane		570	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
1,2-Dichloroethane		6	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
1,2-Dichlorobenzene		5100	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
1,3-Dichlorobenzene		5100	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
1,4-Dichlorobenzene		570	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
1,1-Dichloroethene		8	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
cis-1,2-Dichloroethene		79	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
trans-1,2-Dichloroethene		1000	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
1,1-Dichloropropene		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
cis-1,3-Dichloropropene		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
trans-1,3-Dichloropropene		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
1,2-Dichloropropane		10	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
1,3-Dichloropropane		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
2,2-Dichloropropane		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Ethylbenzene		1000	53 D	5.8	5.8 D	0.71 U	0.72 U
Ethylene dibromide		NA	34 UD	0.75 U	3.8 UD	0.71 U	3.6
Trichlorofluoromethane		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U

(Cont. on next page)

Table 2. Concentrations of Volatile Organic Compounds in Soil Samples Collected in December 1998 at NJDOT-Fernwood

Analyte	Sample ID: Date:	NJDEP RDC Cleanup Criteria 11-Jul-96	FWUST2-P02 (0.0' - 6.0') Run 2 01-Dec-98	FWUST2-P03 (1.8' - 2.0') 01-Dec-98	FWUST2-P03 (1.8' - 2.0') Run 2 01-Dec-98	FWUST2-P04 (0.0' - 6.0') 01-Dec-98	FWUST3-P03 (0.0' - 6.0') 01-Dec-98
Dichlorodifluoromethane		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Hexachlorobutadiene		1	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
2-Hexanone		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Isopropylbenzene ((Cumene)		NA	25 JD	3.1	3.5 JD	0.71 U	9.0
p-Isopropyltoluene		NA	34 UD	0.93	2.7 JD	0.71 U	3.8
4-Methyl-2-pentanone		1000	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Methyl ethyl ketone		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Methylene chloride		49	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Naphthalene		230	18 JD	6.1	3.6 JD	0.71 U	11
n-Propylbenzene		NA	26 JD	4.4	4.4 D	0.71 U	3.3
1,1,2,2-Tetrachloroethane		34	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Tetrachloroethene		4	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Styrene		23	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Tribromomethane		86	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
1,1,1,2-Tetrachloroethane		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
1,1,1-Trichloroethane		210	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
1,1,2-Trichloroethane		22	34 UD	0.34 J	3.8 UD	0.71 U	0.72 U
1,2,3-Trichlorobenzene		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
1,2,4-Trichlorobenzene		68	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Trichloroethylene		23	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Trichloromethane		19	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
1,2,3-Trichloropropane		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
1,2,4-Trimethylbenzene		NA	290 D	44 EJ	54 D	1.6	2.7
1,3,5-Trimethylbenzene		NA	89 D	20	19 D	0.68 J	14
Vinyl acetate		NA	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Vinyl chloride		2	34 UD	0.75 U	3.8 UD	0.71 U	0.72 U
Xylenes, m & p		NA	330 D	48 EJ	47 D	1.1	6.6
o-Xylene		NA	130 D	16	16 D	0.54 J	0.52 J

Do not use Strikeout results for interpretation, although these results are not technically rejectable

Analyte concentrations in mg/kg (ppm)

Analyses were performed by Chemtech, Inc., using USEPA SW846 8260

D Analyte identified at a secondary dilution

E Concentration exceeds calibration range

J Result is detected below the reporting limit and/or is an estimated concentration

U Analyte analyzed for but undetected at the corresponding quantitation limit

Table 2. Concentrations of Volatile Organic Compounds in Water QC Samples Collected in December 1998 at NJDOT-Ferwood

Sample ID:	NJDEP RDC Cleanup Criteria	Field Blank	Trip Blank
Date:	11-Jul-96	01-Dec-98	01-Dec-98
Analyte			
Acetone	1000	5.0 U	0.63 U
Acrolein	NA	5.0 U	0.63 U
Acrylonitrile	NA	5.0 U	0.63 U
Bromodichloromethane	11	0.60 U	0.63 U
Bromobenzene	NA	0.70 U	0.63 U
Bromochloromethane	NA	0.90 U	0.63 U
Bromomethane	79	2.0 U	0.63 U
n-Butylbenzene	NA	1.0 U	0.63 U
sec-Butylbenzene	NA	0.60 U	0.63 U
t-Butylbenzene	NA	0.70 U	0.63 U
Benzene	3	0.90 U	0.63 U
Toluene	1000	1.0 U	0.63 U
Carbon disulfide	NA	5.0 U	0.63 U
2-Chloroethyl vinyl ether	NA	5.0 U	0.63 U
Chlorobenzene	37	0.90 U	0.63 U
2-Chlorotoluene	NA	1.0 U	0.63 U
4-Chlorotoluene	NA	0.90 U	0.63 U
Chloroethane	NA	2.0 U	0.63 U
Chloromethane	520	2.0 U	0.63 U
Carbon tetrachloride	2	2.0 U	0.63 U
Dibromochloromethane	110	1.0 U	0.63 U
1,2-Dibromo-3-chloropropane	NA	1.0 U	0.63 U
Dibromomethane	NA	0.90 U	0.63 U
1,1-Dichloroethane	570	0.40 U	0.63 U
1,2-Dichloroethane	6	0.90 U	0.63 U
1,2-Dichlorobenzene	5100	0.80 U	0.63 U
1,3-Dichlorobenzene	5100	1.0 U	0.63 U
1,4-Dichlorobenzene	570	1.0 U	0.63 U
1,1-Dichloroethene	8	0.60 U	0.63 U
cis-1,2-Dichloroethene	79	0.80 U	0.63 U
trans-1,2-Dichloroethene	1000	0.70 U	0.63 U
1,1-Dichloropropene	NA	0.70 U	0.63 U
cis-1,3-Dichloropropene	NA	0.10 U	0.63 U
trans-1,3-Dichloropropene	NA	0.20 U	0.63 U
1,2-Dichloropropane	10	1.0 U	0.63 U
1,3-Dichloropropane	NA	0.90 U	0.63 U
2,2-Dichloropropane	NA	1.0 U	0.63 U
Ethylbenzene	1000	0.90 U	0.63 U
Ethylene dibromide	NA	1.0 U	0.63 U
Trichlorofluoromethane	NA	1.0 U	0.63 U

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Table 3. Concentrations of Metals in Soil Samples Collected in December 1998 at NJDOT-Fernwood

Sample ID:	NJDEP RDC Cleanup Criteria	FWUST1-P01 (0.0' - 6.0')	FWUST1-P02 (0.0' - 6.0')	FWUST1-P03 (0.0' - 6.0')	FWUST1-P04 (0.0' - 6.0')	FWUST2-P01 (1.8' - 2.0')	FWUST2-P02 (0.0' - 6.0')	FWUST2-P03 (1.8' - 2.0')	FWUST2-P04 (0.0' - 6.0')
Analy Date:	11-Jul-96	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98
Lead	400	1.8	2.3	8.3	9.3	2.2	2.0	3.5	3.0

Analyte concentrations in mg/kg (ppm)

Analyses were performed by Chemtech, Inc., using SW846 6010

Table 4. Concentrations of Indicator Parameters in Soil Samples Collected in December 1998 at NJDOT-Fernwood

Sample ID:	NJDEP RDC Cleanup Criteria	FWUST1-P01 (0.0' - 6.0')	FWUST1-P02 (0.0' - 6.0')	FWUST1-P03 (0.0' - 6.0')	FWUST1-P04 (0.0' - 6.0')	FWUST2-P01 (1.8' - 2.0')	FWUST2-P02 (0.0' - 6.0')	FWUST2-P03 (1.8' - 2.0')	FWUST2-P04 (0.0' - 6.0')	FWUST3-P01 (0.0' - 6.0')	FWUST3-P02 (0.0' - 6.0')
Date:	11-Jul-96	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98
Petroleum hydrocarbons, mg/kg (ppm)	NA	NA	NA	NA	NA	NA	NA	NA	NA	6760	7860
Total Solids, Percent	NA	91.4	87	86	86.7	83.9	91.3	83.1	88.1	89.8	85.9

Analyte concentrations in units specified

Analyses were performed by Chemtech, Inc., using standard analytical methodology

NA Not applicable

Table 4. Concentrations of Indicator Parameters in Soil Samples Collected in December 1998 at NJDOT-Fernwood

Analyte	Sample ID:	NJDEP RDC	FWUST3-P03	FWUST3-P04
	Date:	Cleanup Criteria	(0.0' - 6.0')	(0.0' - 6.0')
		11-Jul-96	01-Dec-98	01-Dec-98
Petroleum hydrocarbons, mg/kg (ppm)		NA	14800	578
Total Solids, Percent		NA	87.5	86.4

Analyte concentrations in units specified

Analyses were performed by Chemtech, Inc., using standard analytical methodology

NA Not applicable

Table 2. Concentrations of Volatile Organic Compounds in Soil Samples Collected in January 1999 at the NJDOT-Fernwood Site, Fernwood, New Jersey.

	Sample ID:	NJDEP RDC Cleanup Criteria	FW-PEX-01	FW-PEX-02	FW-PEX-03	FW-PEX-04	FW-PEX-05
Analyte	Date:	11-Jul-96	22-Jan-99	22-Jan-99	22-Jan-99	22-Jan-99	22-Jan-99
Acetone		1000	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Bromodichloromethane		11	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Bromomethane		79	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
tert-Butyl alcohol		NA	6.9 U	7.5 U	6.9 U	7.5 U	7.4 U
Benzene		3	0.69 U	1.2	0.69 U	0.75 U	0.74 U
Toluene		1000	0.69 U	15.2	0.69 U	0.75 U	2.1
Carbon disulfide		NA	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Chlorobenzene		37	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Chloroethane		NA	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Chloromethane		520	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Carbon tetrachloride		2	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Dibromochloromethane		110	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
1,1-Dichloroethane		570	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
1,2-Dichloroethane		6	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
1,1-Dichloroethene		8	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
cis-1,2-Dichloroethene		79	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
trans-1,2-Dichloroethene		1000	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
cis-1,3-Dichloropropene		NA	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
trans-1,3-Dichloropropene		NA	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
1,2-Dichloropropane		10	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Ethylbenzene		1000	0.69 U	7.6	0.69 U	0.75 U	0.45 J
2-Hexanone		NA	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
4-Methyl-2-pentanone		1000	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Methyl ethyl ketone		NA	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Methylene chloride		49	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
1,1,2,2-Tetrachloroethane		34	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Tetrachloroethene		4	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Styrene		23	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Tribromomethane		86	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
tert-Butyl methyl ether		NA	0.69 U	15.3	0.69 U	0.75 U	0.74 U
1,1,1-Trichloroethane		210	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
1,1,2-Trichloroethane		22	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Trichloroethylene		23	0.38 J	0.75 U	0.69 U	0.75 U	0.74 U
Trichloromethane		19	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Vinyl chloride		2	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Xylenes, m & p		NA	0.69 U	44.4	0.69 U	0.75 U	45.5
o-Xylene		NA	0.69 U	16.2	0.69 U	0.75 U	29.6

Analyte concentrations in mg/kg (ppm)

Analyses were performed by Chemtech, Inc., using SW846 8260

J Result is detected below the reporting limit and/or is an estimated concentration

U Analyte analyzed for but undetected at the corresponding quantitation limit

Table 3. Concentrations of Metals in Soil Samples Collected in January 1999 at the NJDOT-Fernwood Site, Fernwood, New Jersey.

Sample ID:	NJDEP RDC Cleanup Criteria	FW-PEX-01	FW-PEX-02	FW-PEX-03	FW-PEX-04	FW-PEX-05
Analy Date:	11-Jul-96	22-Jan-99	22-Jan-99	22-Jan-99	22-Jan-99	22-Jan-99
Lead	400	6.5	9.3	1.2 J	21.2	14.6

Analyte concentrations in mg/kg (ppm)

Analyses were performed by Chemtech, Inc., using SW846 6010

J Result is an estimated concentration

Table 4. Concentrations of Petroleum hydrocarbons in Soil Samples Collected in January 1999 at the NJDOT-Fernwood Site, Fernwood, New Jersey.

Analyte	Sample ID:	NJDEP RDC Cleanup Criteria	FW-PEX-01	FW-PEX-02	FW-PEX-03	FW-PEX-04	FW-PEX-05
	Date:	11-Jul-96	22-Jan-99	22-Jan-99	22-Jan-99	22-Jan-99	22-Jan-99
Petroleum hydrocarbons		NA	36.9 U	738	42.4	168	378

Analyte concentrations in mg/kg (ppm)

Analyses were performed by Chemtech, Inc., using USEPA 418.1 (modified for soils)

U Analyte analyzed for but undetected at the corresponding detection limit



Project No: 1250-22
 Client: NJDOT
 Location: Femwood
 Property Owner: NJDOT
 Date Started: 6/25/99
 Date Completed: 6/25/99
 Logged By: C. Stebbins

Borehole Number: SB-01/MW-01
 Ground Surface Elevation: NA
 State Plane Coordinates: NA
 Total Depth Drilled: 26 feet
 Well Set Depth: 25 feet
 Depth to Groundwater: 18 feet
 Date/Time of Measurement: 6/25/99 10:00

SUBSURFACE PROFILE					SAMPLE				Remarks/ Analytical Samples
Depth	Symbol	Description	USCS	Well Data	Type	Recovery	N-Values	PID (ppm)	
0		Ground Surface							
0.5		Asphalt							
1		Trap Rock and Fill Material	Fill		SS	NA	NA	0	
2									SB-01A (2-3')
3					SS	12	20	0	No Odor
4		Brown grading to tan brown, medium to fine SAND, trace Gravel mix with red Silt, dry	SM						
5					SS	16	49	0	
6									No Odor
7					SS	21	17	0	
8			ML						
9					SS	14	43	0	No Odor
10									
11		Tan brown grading to orange brown SILT grading with Quartz Gravel, little Clay, slightly moist			SS	16	29	0	
12			ML						SB-01B (12-13')
13					SS	20	47	0	No Odor
14									
15					SS	24	11	0	
16									No Odor

Drilling Company: CT & E
 Driller(s): L. Lynch. & J. Lewis
 Rig Type: Mobile B-61
 Drilling Method: Hollow Stem auger

Auger/Hole Diameter (O.D./I.D.) inches: 6 5/8" ID / 12" OD
 Sampling Method: Spitspoon
 Hammer/Fall: 140 lbs/ 30"
 Sheet: 1 of 2

Scr. Length/Diam.: 10 feet
 Slot Size: 0.01
 Gravel Type: #1 Moraine
 Flush/Stick Up: Flush



Project No: 1250-22
 Client: NJDOT
 Location: Fernwood
 Property Owner: NJDOT
 Date Started: 6/25/99
 Date Completed: 6/25/99
 Logged By: C. Stebbins

Borehole Number: SB-01/MW-01
 Ground Surface Elevation: NA
 State Plane Coordinates: NA
 Total Depth Drilled: 26 feet
 Well Set Depth: 25 feet
 Depth to Groundwater: 18 feet
 Date/Time of Measurement: 6/25/99 10:00

SUBSURFACE PROFILE					SAMPLE				Remarks/ Analytical Samples
Depth	Symbol	Description	USCS	Well Data	Type	Recovery	N-Values	PID (ppm)	
5		Orange brown coarse to fine GRAVEL, some Silt, moist	ML		SS	24	19	0	SB-01C (17-18')
17									
18		Orange brown SILT and coarse to fine SAND, some Gravel, wet	ML		SS	18	18	0	No Odor
19									
20									
21		Orange brown coarse to fine SAND, some Gravel, little Silt, wet.	SP		SS	20	26	0	No Odor
22									
23		Dark red SILT, some Clay, wet.	ML		SS	18	28	0	SB-01D (23-24')
24		Orange brown, coarse to fine SAND, some Gravel, little Silt, wet.	SM						
25		End of Borehole			SS	24	75	0	No Odor
26									
27									
28									
29									
30									
31									
32									

Drilling Company: CT & E
 Driller(s): L. Lynch, & J. Lewis
 Rig Type: Mobile B-61
 Drilling Method: Hollow Stem auger

Auger/Hole Diameter (O.D./I.D.) inches: 6 5/8" ID / 12" OD
 Sampling Method: Splitspoon
 Hammer/Fall: 140 lbs/ 30"
 Sheet: 2 of 2

Scr. Length/Diam.: 10 feet
 Slot Size: 0.01
 Gravel Type: #1 Moraine
 Flush/Stick Up: Flush



Project No: 1250-22
 Client: NJDOT
 Location: Fernwood
 Property Owner: NJDOT
 Date Started: 6/26/99
 Date Completed: 6/26/99
 Logged By: R. Glover

Borehole Number: SB-02/MW-02

Ground Surface Elevation: NA
 State Plane Coordinates: NA
 Total Depth Drilled: 22 feet
 Well Set Depth: 22 feet
 Depth to Groundwater: 14.2 feet
 Date/Time of Measurement: 6/26/99 10:30

SUBSURFACE PROFILE					SAMPLE				Remarks/ Analytical Samples
Depth	Symbol	Description	USCS	Well Data	Type	Recovery	N-Values	PID (ppm)	
0		Ground Surface							
0.5		Asphalt							
1		Trap Rock and Fill Material	Fill		SS	NA	NA	0	
2									SB-02A (2-3')
2.5		Brown fine SAND and CLAY, little Gravel and Clay, moist	SC		SS	22	6	0	Utility Severed
3									
4		Gray SILT, trace of fine Sand, moist	SM		SS	15	10	0	
5									
6									No Odor
7		Brown fine silty SAND, grading to Silt, moist.	ML		SS	24	29	0	
8									SB-02B (8-9')
9					SS	14	44	0	No Odor
10		Brown to red brown silty SAND, trace of Silt and Clay, moist	SM		SS	21	32	0	
11									
12									SB-02C (12-13')
13					SS	21	26	0	No Odor
14		Brown to yellow fine medium SAND, trace of Gravel, occasional fine Sand lens	SM		SS	24	9	0	No Odor
15									
16									

Drilling Company: CT & E
 Driller(s): L. Lynch. & J. Lewis
 Rig Type: Mobile B-61
 Drilling Method: Hollow Stem auger

Auger/Hole Diameter (O.D./I.D.) inches: 6 5/8" ID / 12" OD
 Sampling Method: Splitspoon
 Hammer/Fall: 140 lbs/ 30"
 Sheet: 1 of 2

Scr. Length/Diam.: 10 feet
 Slot Size: 0.01
 Gravel Type: #1 Moraine
 Flush/Stick Up: Flush



Project No: 1250-22
 Client: NJDOT
 Location: Fernwood
 Property Owner: NJDOT
 Date Started: 6/26/99
 Date Completed: 6/26/99
 Logged By: R. Glover

Borehole Number: SB-02/MW-02
 Ground Surface Elevation: NA
 State Plane Coordinates: NA
 Total Depth Drilled: 22 feet
 Well Set Depth: 22 feet
 Depth to Groundwater: 14.2 feet
 Date/Time of Measurement: 6/26/99 10:30

SUBSURFACE PROFILE					SAMPLE				Remarks/ Analytical Samples	
Depth	Symbol	Description	USCS	Well Data	Type	Recovery	N-Values	PID (ppm)		
5		Red brown to yellow brown fine medium silty SAND, some Sand lens with Gravel, wet.	SM		SS	24	10	0	SB-02D (17-18')	
17										
18			SM		SS	23	8	0	SB-02E (18-19')	
19									No Odor	
20		Red brown to yellow brown fine medium silty SAND, some Sand lens with Gravel, wet.	SM		SS	22	27	0	No Odor	
21										
22										
23										
24	End of Borehole									
25										
26										
27										
28										
29										
30										
31										
32										

Drilling Company: CT & E
 Driller(s): L. Lynch. & J. Lewis
 Rig Type: Mobile B-61
 Drilling Method: Hollow Stem auger

Auger/Hole Diameter (O.D./I.D.) inches: 6 5/8" ID / 12" OD
 Sampling Method: Splitspoon
 Hammer/Fall: 140 lbs/ 30"
 Sheet: 2 of 2

Scr. Length/Diam.: 10 feet
 Slot Size: 0.01
 Gravel Type: #1 Moraine
 Flush/Stick Up: Flush



Project No: 1250-22
 Client: NJDOT
 Location: Fernwood
 Property Owner: NJDOT
 Date Started: 6/25/99
 Date Completed: 6/25/99
 Logged By: C. Stebbins

Borehole Number: SB-03/MW-03

Ground Surface Elevation: NA
 State Plane Coordinates: NA
 Total Depth Drilled: 26 feet
 Well Set Depth: 25 feet
 Depth to Groundwater: 16.4 feet
 Date/Time of Measurement: 6/25/99 14:00

SUBSURFACE PROFILE					SAMPLE				Remarks/ Analytical Samples
Depth	Symbol	Description	USCS	Well Data	Type	Recovery	N-Values	PI/D (ppm)	
0		Ground Surface							
0.5		Asphalt							
1.5		Trap Rock and Fill Material	Fill		SS	NA	NA	0	SB-03A (2-3')
2.5									
3.0		Brown medium to fine SAND, little Silt, dry	SW		SS	17	10	0	No Odor
4.0									
5.0					SS	12	62	0	No Odor
6.0									
7.0					SS	24	22	0	No Odor
8.0			ML						
9.0		Brown gray grading to orange brown SILT, little to some Gravel, little Clay, slightly moist			SS	21	36	0	No Odor
10.0									
11.0					SS	18	24	0	
12.0									SB-03B (12-13')
13.0					SS	18	41	0	No Odor
14.0									
15.0		Orange brown fine to medium SAND, some Gravel, little Clay, moist	SM		SS	24	8	0	SB-03C (15-16')
16.0		Dark red SILT	ML						

Drilling Company: CT & E
 Driller(s): L. Lynch. & J. Lewis
 Rig Type: Mobile B-61
 Drilling Method: Hollow Stem auger

Auger/Hole Diameter (O.D./I.D.) inches: 6 5/8" ID / 12" OD
 Sampling Method: Splitspoon
 Hammer/Fall: 140 lbs/ 30"
 Sheet: 1 of 2

Scr. Length/Diam.: 12 feet
 Slot Size: 0.01
 Gravel Type: #1 Moraine
 Flush/Stick Up: Flush



Project No: 1250-22
 Client: NJDOT
 Location: Fernwood
 Property Owner: NJDOT
 Date Started: 6/25/99
 Date Completed: 6/25/99
 Logged By: C. Stebbins

Borehole Number: SB-03/MW-03
 Ground Surface Elevation: NA
 State Plane Coordinates: NA
 Total Depth Drilled: 26 feet
 Well Set Depth: 25 feet
 Depth to Groundwater: 16.4 feet
 Date/Time of Measurement: 6/25/99 14:00

SUBSURFACE PROFILE					SAMPLE				Remarks/ Analytical Samples
Depth	Symbol	Description	USCS	Well Data	Type	Recovery	N-Values	PI (ppm)	
5		Orange brown SILT grading with fine to medium SAND, little Gravel, wet.	SW		SS	12	13	0	No Odor
17					SS	14	7	0	
18					SS	18	35	0	No Odor
19					SS	16	19	0	
20		Dark red SILT, slightly moist.	ML		SS	16	19	0	No Odor
21					SS	16	19	0	
22		End of Borehole							
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									

Drilling Company: CT & E
 Driller(s): L. Lynch. & J. Lewis
 Rig Type: Mobile B-61
 Drilling Method: Hollow Stem auger

Auger/Hole Diameter (O.D./I.D.) inches: 6 5/8" ID / 12" OD
 Sampling Method: Splitspoon
 Hammer/Fall: 140 lbs/ 30"
 Sheet: 2 of 2

Scr. Length/Diam.: 12 feet
 Slot Size: 0.01
 Gravel Type: #1 Moraine
 Flush/Stick Up: Flush



Project No: 1250-22
 Client: NJDOT
 Location: Fernwood
 Property Owner: NJDOT
 Date Started: 6/26/99
 Date Completed: 6/26/99
 Logged By: Ray Glover

Borehole Number: SB-04/MW-04

Ground Surface Elevation: NA
 State Plane Coordinates: NA
 Total Depth Drilled: 24 feet
 Well Set Depth: 24 feet
 Depth to Groundwater: 16 feet
 Date/Time of Measurement: 6/26/99 12:30

SUBSURFACE PROFILE					SAMPLE				Remarks/ Analytical Samples
Depth	Symbol	Description	USCS	Well Data	Type	Recovery	N-values	PID (ppm)	
0		Ground Surface							
0		Asphalt							
1									
2		Red brown silty fine medium SAND, little to coarse Sand and fine medium Gravel, moist.	SM-SC		SS	NA	NA	0	SB-04A (2-3')
3					SS	21	20	0	No Odor
4		Dark gray to yellow brown SILT and fine SAND, trace of Clay, moist.	ML		SS	23	20	0	
5									
6									No Odor
7					SS	16	25	0	
8			ML						
9		Gray to yellow brown silty CLAY and fine SAND, trace of coarse Sand, moist			SS	16	34	0	No Odor
10									
11					SS	NA	NA	0	
12									SB-04B (12-13')
13					SS	24	7	0	No Odor
14									
15			SP-SM		SS	NA	NA	0	
16		Yellow brown fine medium silty SAND, trace to little coarse Sand and medium Gravel, moist to wet.							SB-04C (15-16')

Drilling Company: CT & E
 Driller(s): L. Lynch, & J. Lewis
 Rig Type: Mobile B-61
 Drilling Method: Hollow Stem auger

Auger/Hole Diameter (O.D./I.D.) inches: 6 5/8" ID / 12" OD
 Sampling Method: Splitspoon
 Hammer/Fall: 140 lbs/ 30"
 Sheet: 1 of 2

Scr. Length/Diam.: 10 feet
 Slot Size: 0.01
 Gravel Type: #1 Moraine
 Flush/Stick Up: Flush



Project No: 1250-22
 Client: NJDOT
 Location: Fernwood
 Property Owner: NJDOT
 Date Started: 6/26/99
 Date Completed: 6/26/99
 Logged By: Ray Glover

Borehole Number: SB-04/MW-04

Ground Surface Elevation: NA
 State Plane Coordinates: NA
 Total Depth Drilled: 24 feet
 Well Set Depth: 24 feet
 Depth to Groundwater: 16 feet
 Date/Time of Measurement: 6/26/99 12:30

SUBSURFACE PROFILE					SAMPLE				Remarks/ Analytical Samples
Depth	Symbol	Description	USCS	Well Data	Type	Recovery	N-Values	P/D (ppm)	
5		Yellow brown fine medium silty SAND, trace to little coarse Sand and Gravel, wet	SP -SM		SS	18	8	0	No Odor
17					SS	NA	NA	0	
18					SS	24	14	0	
19					SS	24	26	0	
6		Yellow brown fine medium silty SAND, trace to little coarse Sand and Gravel, wet	SP -SM		SS	18	8	0	No Odor
20					SS	NA	NA	0	
21					SS	24	14	0	
22					SS	24	26	0	
23		Yellow brown fine medium silty SAND, trace to little coarse Sand and Gravel, wet	SP -SM		SS	18	8	0	No Odor
24					SS	NA	NA	0	
25					SS	24	14	0	
26					SS	24	26	0	
7		Yellow brown fine medium silty SAND, trace to little coarse Sand and Gravel, wet	SP -SM		SS	18	8	0	No Odor
27					SS	NA	NA	0	
28					SS	24	14	0	
29					SS	24	26	0	
8		Yellow brown fine medium silty SAND, trace to little coarse Sand and Gravel, wet	SP -SM		SS	18	8	0	No Odor
30					SS	NA	NA	0	
31					SS	24	14	0	
32					SS	24	26	0	
End of Borehole									

Drilling Company: CT & E
 Driller(s): L. Lynch. & J. Lewis
 Rig Type: Mobile B-61
 Drilling Method: Hollow Stem auger

Auger/Hole Diameter (O.D./I.D.) inches: 6 5/8" ID / 12" OD
 Sampling Method: Splitspoon
 Hammer/Fall: 140 lbs/ 30"
 Sheet: 2 of 2

Scr. Length/Diam.: 10 feet
 Slot Size: 0.01
 Gravel Type: #1 Moraine
 Flush/Stick Up: Flush

New Jersey Department of Environmental Protection
Bureau of Water Allocation
MONITORING WELL RECORD

Well Permit No. 27 - 16414

Atlas Sheet Coordinates 27 : 25 : 117

OWNER IDENTIFICATION - Owner NJDOT
Address 951 PARKWAY AVE PO BOX 600
City TRENTON State NJ Zip Code 08625

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 8
County MERCER Municipality EWING TWP Lot No. 11 Block No. 320
Address 951 PARKWAY AVE

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well _____ Case I.D.# _____
DATE WELL STARTED 8/2/02
DATE WELL COMPLETED 8/2/02

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Parsons Eng Tele. # (781) 401-320

WELL CONSTRUCTION

Total depth drilled 28 ft.
Well finished to 27 ft.

Borehole diameter:
Top 4.8 in.
Bottom _____ in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height (stick up) above land surface _____ ft.

Was steel protective casing installed?
☐ Yes ☒ No

Static water level after drilling 19 ft.

Water level was measured using M. GOR

Well was developed for 3 hours
at 1 gpm

Method of development Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity _____ gpm

Pump type: _____

Drilling Fluid NONE Type of Rig ONE TS

Health and Safety Plan submitted? ☐ Yes ☒ No

Level of Protection used on site (circle one) None D C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable

State rules and regulations.

Drilling Company _____

Well Driller (Print) Mr. Brinkhoff

Driller's Signature [Signature]

Registration No. T1496 Date 8/21/02

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Ratn (lbs/sch nc)
Single/Inner Casing	<u>125</u>	<u>17</u>	<u>4</u>	<u>PVC</u>	<u>Gal 40</u>
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>.01</u>)	<u>17</u>	<u>27</u>	<u>4</u>	<u>PVC</u>	<u>Gal 40</u>
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	<u>15</u>	<u>28</u>	<u>10</u>	<u>Medium</u>	<u>#1</u>
Grout	<u>0</u>	<u>15</u>	<u>10</u>	<u>Neat Cement Bentonite</u>	<u>100 lb 30 lb</u>

Grouting Method PRESSURE
Drilling Method AUGER

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0'-5' ASPHALT
5'-10' CLEAN DENSE FILL
10'-12' GRAY-TAN SILTY SAND
12'-19' DARK BROWN MED SAND AND GRAVEL
19'-28' DARK BROWN MED SAND WITH LITTLE GRAVEL

AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

LATITUDE: _____ OR _____ LONGITUDE: _____

BORING CONSTRUCTION LOG

PARSONS

CLIENT: NJDOT

BORING NO.: MW 9

PROJECT: Fernwood UST

SWMU # (AREA): Trenton, NJ

SOP NO.:

START DATE: 8-5-02

FINISH DATE: 8-5-02

CONTRACTOR: ADT

DRILLER: Dennis / Remi

INSPECTOR: Ayesha

CHECKED BY: J. Goldrick

CHECK DATE:

BORING CONVERTED TO MW? ☒ Y ☐ N

DRILLING SUMMARY

DRILLING METHOD	HOLE DIA. (R)	DEPTH INTERVAL (R)	SAMPLER		HAMMER	
			SIZE	TYPE	TYPE	WT/FALL
HSA	.5	0-25	2"	SS SI	WL	140 / 30

DRILLING ACRONYMS

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRLSC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	SI	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUIPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND			CALIBRATION		WEATHER (TEMP., WIND, ETC.)
			READING	TIME	DATE	TIME	DATE	

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION METER		

INVESTIGATION DERIVED WASTE

DATE

SOIL AMOUNT :
(fraction of drum)

DRUM #, LOCATION:

COMMENTS:

SAMPLES TAKEN:

SAMPLES

DUPLICATES

MS/MSD

MRD

BORING CONSTRUCTION LOG

PARSONS

CLIENT: NJDOT

BORING NO.: MW-9

COMMENTS:

DRILLER: ADT

INSPECTOR: Ayesha

DATE: 8-5-02

DEPTH (ft)	SAMPLING			SAMPLE				SAMPLE DESCRIPTION <small>(As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)</small>	USCS CLASS	STRATUM CLASS
	BLOWS PER 6 INCHES	PENE- TRATION RANGE (FEET)	RECOV- ERY RANGE (FEET)	DEPTH INT (FEET)	NO.	VOC	RAD SCRN			
5										
10										
12	2 4 8 10	2	125	10 to 12	1	0		Dark Red-Brown to grayish-green, Stiff, CLAY and SILT, trace f. gravel.	CL	
15										
17	6 7 7 8	2	2	15 to 17	2	0		Dark Brown, medium Dense, fine SAND and SILT, trace f. gravel	SM	
20										

BORING CONSTRUCTION LOG

[illegible]

Drilling Log

Page 1 of 2

BORING NO.: MW10

WELL NO.: MW10

CLIENT: New Jersey Department of Transportation

PROJECT NO: JG500L4

PROJECT: Fernwood Maintenance Complex

DATE STARTED: 10/23/2007

DRILLING CONTRACTOR: Summit Drilling Co., Inc.

DATE FINISHED: 10/23/2007

DRILLING METHOD: Hollow Stem Auger

DRILLER: J. Murtha

BOREHOLE DATA

WELL DATA

INSPECTOR: N. Save

Diameter (in): 7

Completion: 2-inch PVC/Flushmount

NORTHING: N/A

Total Depth (ft): 25.00

Total Depth (ft): 24.5

EASTING: N/A

Sampler: Grab Cuttings

Screen Length (ft)/Slot (in): 10 / 0.020

GROUND ELEVATION: N/A

Depth to Water (ft): 18


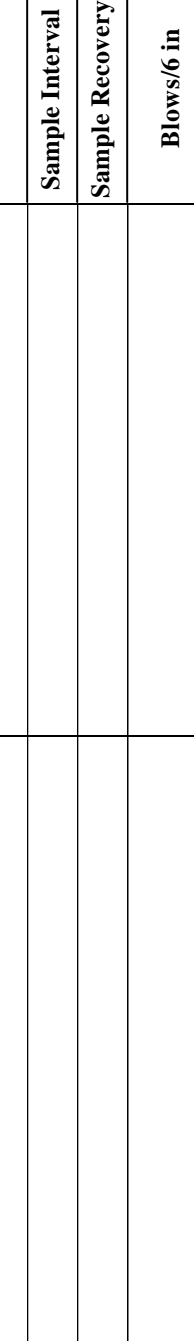
Depth to Water (ft): 17.3

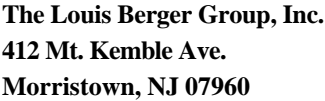
TOC ELEVATION: N/A

Depth to Rock (ft): N/A

Permit No.: N/A

NOTES: All descriptions based on cuttings

Well Construction	Depth	Lithology	USCS	Sample Interval	Sample Recovery	Blows/6 in	PID (ppm)	Description	Remarks
	0		SP				0	Brownish black (5YR 2/1) medium to fine SAND, little medium to fine Gravel; Dry.	Sand
	2								
	4								
	6	SM					5	Dusky brown (5YR 2/2) medium to fine SAND, some Silt, little medium to fine Gravel; Dry.	Silty Sand
	8								
	10	SM					4.3	Dusky brown (5YR 2/2) medium to fine SAND, and Silt; Dry.	



BORING NO.: MW10

WELL NO.: MW10

Well	Depth	Lith.	USCS	Interval	Rec.	Blows	PID	Description	Remarks
	12								
	14								
	16	SM				5.9	Moderate brown (5YR 4/4) coare to fine SAND, and Clayey Silt, trace coarse to fine Gravel; Moist.		
	18								Water Level at 18 ft.
	20	SM				4.7	Moderate brown (5YR 4/4) medium to fine SAND, and Clayey Silt, trace coarse to fine Gravel; Moist.		
	22								
	24								End of Boring at 25 ft.