Sump Pit Soil Assessment Report
Former Volvo Construction Equipment Facility
Asheville, North Carolina

H&H Job No. PPA-040

September 29, 2011

Hart & Hickman

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September 29, 2011

Parker, Poe, Adams, and Bernstein, LLP
Three Wells Fargo Center
401 S. Tryon Street, Suite 3000
Charlotte, NC 28202

Attention: Ms. Allison Edgar

Re: Sump Pit Soil Assessment Report
Former Volvo Construction Equipment Facility
Asheville, NC
H&H Job No. PPA-040

Dear Allison:

1.0 Introduction

This report presents the results of soil assessment conducted by Hart & Hickman, PC (H&H) in the area of former sump pits inside the Assembly Building at the former Volvo Construction Equipment (VCE) facility located at 2169 Hendersonville Rd. in Asheville, NC.

In June 2011, H&H conducted Phase II Environmental Site Assessment (ESA) soil and ground water sampling at the site. The locations of the soil and ground water samples collected as part of the Phase II ESA near and within the Assembly Building are indicated in Figure 1. In part, the results of the Phase II ESA activities indicated the presence of total petroleum hydrocarbons-diesel range organics (TPH-DRO) and oil & grease (O&G) above North Carolina Department of Environment and Natural Resources (DENR) action levels in the area of three former sump pits. Concentrations of TPH-DRO and O&G were detected in soil samples HH-3 (4'), HH-4 (2'), and HH-10 (4') above DENR action levels. TPH-DRO detections in these samples ranged from 901 mg/kg to 4,050 mg/kg, and O&G detections ranged from 3,120 mg/kg to 7,180 mg/kg. The DENR action levels for TPH-DRO and O&G are 40 mg/kg and 250 mg/kg, respectively.

The locations of borings HH-3, HH-4, and HH-10 are indicated in Figure 3. For ease of reference, the sump pit near previous boring HH-10 has been termed Sump Pit A, the sump pit near previous boring HH-4 has been termed Sump Pit B, and the sump pit near previous boring HH-3 has been termed Sump Pit C. Sump Pit A is located in the central portion of the Assembly Building, and Sump Pits B and C are located in the southern portion of the building. Based upon the facility drawings and field measurements, Sump Pit A is approximately 9 ft by 15 ft, Sump Pit B is approximately 8 ft by 25 ft, and Sump Pits C is approximately 8 ft by 20 ft.

Based upon historical facility drawings, the former sump pits in the Assembly Building were associated with an assembly line which used a "Towveyer" system to move equipment around the facility. The Towveyor used a track system, and portions of the tracks used in the Towveyor are still visible is some areas in the floor of the building. In addition, the sump pit near boring HH-4 was also located near a fueling station where petroleum products such as hydraulic oil and diesel fuel would be put into the construction equipment. Petroleum products were transported to this area by above ground lines. None of the sump pits are still present, although in some cases the outline edges of the pits and patched concrete where the pits were located are visible.

H&H conducted additional sampling in association with the sump pits in August and September 2011. The purpose of the sampling was to evaluate the lateral and vertical extent of soil impacts above DENR action levels. The methods, results, and conclusions of our assessment activities are presented in the following sections.

2.0 Soil Sampling Activities

The soil assessment activities were conducted on August 25, August 26, and September 9, 2011. Prior to the soil sampling activities, H&H contacted the public utility locator and also contracted with a private utility locator to screen boring locations.

The soil borings were advanced with a direct push technology (DPT) rig. At each boring, H&H collected soil samples in continuous 4 or 5-ft sample intervals. Following collection, H&H evaluated the soil samples for the presence of odor and staining, and each soil sample was also screened for the presence of organic vapors with a photoionization detector (PID). Field PID readings for the soil samples are summarized in Appendix A.

Initially, six soil borings were installed in the vicinity of each of sump pit. The six initial soil borings were advanced as follows:

- One of the initial borings was advanced adjacent to the previous borings with identified impacts (i.e., HH-3, HH-4, and HH-10) so that a soil sample can be collected at depth to evaluate the vertical extent of soil impacts.
- Four of the initial borings were collected in areas approximately 5 to 10 ft surrounding the previous soil boring in locations outside the perimeter of the sump pits.
- The sixth initial boring at each location was installed through the center of each former sump pit to evaluate the character of the material in the filled sumps, to determine the depth of the sump pits, and to determine if soil samples could be collected from below the sump pits.

If field observations (i.e., PID readings, odors, and/or staining) indicated that potential impacts above DENR action levels were likely not delineated by a boring, then H&H installed additional "step out" borings to further evaluate the extent of the impacts above DENR action levels. A total of 38 soil borings were advanced as part of the sump pit soil impact delineation activities. Of the 38 soil borings, seven were advanced in the area of Sump Pit A, and 31 were advanced in the area of Sump Pits B and C. Because of their close proximity and because impacts associated with Sump Pits B and C appear to not be separated, Sump Pits B and C are discussed together below.

Based upon field readings, one to two soil samples were collected from each boring for laboratory analysis using the following general guide:

- One deeper soil sample was collected from the initial vertical delineation soil borings advanced next to the Phase II ESA soil samples with identified impacts.
- One soil sample was collected from those borings which did not indicate the presence of impacts based upon field readings.
- Two soil samples were collected from those borings which indicated the presence of impacts based upon field readings. One soil sample was collected from the interval that exhibited the greatest evidence of impact based upon field screening, and the second sample was collected from a deeper interval which did not indicate significant impact based upon field screening to evaluate the vertical extent of impact.
- Note that no soil samples were collected for laboratory analysis from those soil borings advanced in the sump pits because the bottom concrete could not be penetrated with the DPT rig.

Based upon the above criteria, 52 soil samples were collected for laboratory analysis from the 38 soil borings. Seven soil samples were analyzed from those borings in the area of Sump Pit A, and 45 soil samples were analyzed from those soil borings in the area of Sump Pits B and C. The locations of the soil samples are indicated in Figures 2 and 3, and the sample depths selected for laboratory analysis are indicated on the figures and in Table 1. All of the collected soil samples were analyzed for TPH-DRO by EPA Method 3550/8015M and for O&G by EPA Method 9071B. The analyses will be conducted by TestAmerica, Inc., a North Carolina-certified laboratory.

After sampling, soil was placed back into the boreholes to the extent practical and the surface concrete was patched. Excess soil that appeared to be impacted was placed in a drum and left on site for future disposal. One labeled drum of impacted soil is currently on-site in the Assembly Building near Sump Pit A.

3.0 Results

3.1 Sump Pits

Soil borings were advanced in the approximate center of Sumps Pits A, B, and C. After advancing through the surface concrete which was approximately 6 to 8 inches thick, the sump pits were found to be filled with a gravel and sand mixture. Concrete was encountered at approximately 2 to 3 ft below ground surface in each of these three sump pits, and the concrete at the base of the pits could not be penetrated by the DPT for soil sample collection.

During the soil sampling activities, additional apparent former sump pits were also identified east and north of Sump Pit C. The approximate locations of these potential additional sump pits are indicated in Figure 3. The sump pit east of Sump Pit C is approximately 5 ft by 15 ft, and the sump pit north of Sump Pit C is approximately 20 ft by 35 ft.

A boring was placed within the larger of the two additional possible sump pits. After penetrating the surface concrete, approximately 5 ft of gravel and sand were encountered followed by concrete. Again, the lower concrete could not be penetrated by the DPT for soil sample collection.

3.2 Soil Sample Analyses

3.2.1 Sump Pit A

The results of analyses of the soil samples collected from the area of Sump Pit A are summarized in Table 1, and the laboratory analytical data are provided in Appendix B. In addition, the soil sample data are depicted on Figure 2.

The results indicate that soil impacts above DENR action levels are limited to the area in the vicinity of the sump pit. The highest levels of soil impact were detected in shallow soil on the north side of the sump pit (boring SP-A-5 at 0-2 ft) where TPH-DRO was detected at 15,000

mg/kg, and O&G was detected at 51,800 mg/kg. Based upon the soil samples collected at depth in this location, the soil impacts appear to extend to a depth of approximately 15 ft bgs.

The dimensions of the impacted soil area are approximately 15 ft by 30 ft (450 sq ft). Using the estimated depth of soil impact of 15 ft, the impacted soil volume is approximately 250 cubic yards. Note that the volume occupied by the filled-in sump is approximately 10 cubic yards and therefore is not considered significant in the calculated volume. Assuming a soil bulk density of approximately 95 lbs/cubic ft (1.3 tons/cubic yard), the weight of impacted soil in the area of Sump Pit A is estimated to be approximately 325 tons.

3.2.2 Sump Pits B and C

The results of analyses of the soil samples collected from the area of Sump Pits B and C are summarized in Table 1, and the laboratory analytical data are provided in Appendix B. In addition, the soil sample data are depicted on Figure 3.

The results of analysis of the soil samples indicate that soil impacts above DENR action levels encompass the areas near and between Sump Pits B and C including the area of the Towveyor tracks between the sump pits. The highest concentrations were detected in shallow soils in the immediate area of Sump Pit B (boring SP-B-3), Sump Pit C (boring SP-C-4), and the Towveyor tracks (borings SP-C-3A, SP-C-4A, SP-C-5A, and SP-C-5B).

The depths of soil impact were variable and ranged from less than 5 ft along the perimeter of the soil impact area to greater than 20 ft near Sump Pit C. In general, the deepest soil impacts were found near the sump pits and the Towveyor tracks. The variable depths of identified soil impacts are depicted in the cross-section in Figure 4. The approximate average depth of soil impact is estimated to be approximately 12 to 14 ft.

The dimensions of the impacted soil area are approximately 75 ft by 60 ft (4,500 sq ft). Using the estimated average depth of soil impact of approximately 12 to 14 ft, the impacted soil volume is approximately 2,000 to 2,300 cubic yards. Again, the volume represented by the filled in sumps (approximately 70 cubic yards) is not considered significant in comparison to the volume of impacted soil. Assuming a soil bulk density of approximately 95 lbs/cubic ft (1.3 tons/cubic yard), the weight of impacted soil in the area of Sump Pits B and C is estimated to be approximately 2,600 to 3,000 tons.

Please note that multiple roof supports are present near or within the area of identified soil impacts. These roof supports are depicted in Figure 3 and are designated R3, S3, T3, R4, S4, and T4 based upon facility drawings and labeling on the columns.

4.0 Summary and Conclusions

In summary, the results of the soil sampling conducted in the area of the former sump pits in the Assembly Building indicate the following:

- The former sump pits are filled with gravel and sand and are underlain by concrete. Samples could not be collected from below the base concrete of the sump pits.
- Soil impacts above DENR action levels in the area of Sump Pit A are limited to the general area of the sump pit. We estimate that approximately 325 tons of impacted soil are present in the area of the Sump Pit A.
- Soil impacts above DENR action levels in the area of Sump Pits B and C are larger in extent and include the area near and between the two sump pits and near the southern portion of the Towveyor tracks. We estimate that approximately 2,600 to 3,000 tons of impacted soil are present in the area of Sump Pits B and C.
- Soil removal in the identified impacted soil areas will need to take into account the presence of the filled-in sump pits, the Towveyor tracks which are present in some areas, the roof support columns, ingress and egress from the building, and work areas inside the building.

Please note that the extent and amounts of impacted soil identified herein should be considered approximate. Actual impacted soil areas and amounts will need to be verified in the field based upon field observations at the time of excavation and confirmation soil sample data.

Should you have any questions or need additional information, please do not hesitate to call us at (704) 586-0007.

Very truly yours,

Hart & Hickman, PC

Steven C. Hart, PG
Principal

Table 1 (Page 1 of 1)
Summary of Sump Pit Soil Analytical Data
Former Volvo Construction Equipment Facility
Asheville, North Carolina
H&H Job No. PPA-040

Location	Assembly Building - Former Sump Pit A								
Sample ID	HH-10	SP-A-2	SP-A-3	SP-A-3A	SP-A-4	SP-A-5	SP-A-5	SP-A-5A	NCDENR Action Levels[1] (mg/kg)
Depth (ft bgs)	4	4-6	8-10	2-4	6-8	0-2	14-16	4-6	
Sample Date	6/15/2011	8/26/2011	8/26/2011	8/26/2011	9/9/2011	8/26/2011	8/26/2011	9/9/2011	
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
TPH-DRO (8015C)	**901**	<6.96	**116**	<7.28	<6.63	**15,000**	**42.5**	<5.36	**40**
Oil & Grease (9071B)	**3,120**	<70.2	**395**	<73.7	<67.9	**51,800**	105	<53.9	**250**

Location	Assembly Building - Former Sump Pit B															
Sample ID	HH-4	SP-B-2	SP-B-2A	SP-B-2B	SP-B-2B	SP-B-3	SP-B-3	SP-B-3	SP-B-3A	SP-B-3A	SP-B-3B	SP-B-4	SP-B-5	SP-B-5	SP-B-5A	NCDENR Action Levels[1] (mg/kg)
Depth (ft bgs)	2	8-10	4-6	0-2	18-20	4-6	12-14	18-20	4-6	8-10	2-4	6-8	2-4	6-8	4-6	
Sample Date	6/15/2011	8/25/2011	8/25/2011	9/9/2011	9/9/2011	8/25/2011	8/25/2011	9/9/2011	8/26/2011	8/26/2011	8/26/2011	8/25/2011	8/25/2011	8/25/2011	9/9/2011	
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
TPH-DRO (8015C)	**3,000**	**732**	**57.1**	**1,100**	<6.67	**27,600**	**678**	<7.46	**24,700**	8.42	17.1	9.74	**418**	<6.76	<6.99	**40**
Oil & Grease (9071B)	**5,230**	**1,190**	209	**874**	<67.9	**34,800**	**541**	<74.8	**60,400**	<58.1	<57.3	152	**514**	226	<71.0	**250**

Location	Assembly Building - Former Sump Pit C																											
Sample ID	HH-3	SP-C-2	SP-C-2	SP-C-2A	SP-C-3	SP-C-3	SP-C-3A	SP-C-3A	SP-C-3B	SP-C-4	SP-C-4	SP-C-4A	SP-C-4A	SP-C-4B	SP-C-4B	SP-C-5	SP-C-5	SP-C-5A	SP-C-5A	SP-C-5B	SP-C-5B	SP-C-5C	SP-C-5C	SP-C-6	SP-C-6	SP-C-6A	SP-C-6A	SP-C-6B	NCDENR Action Levels[1] (mg/kg)
Depth (ft bgs)	4	0-2	4-6	2-4	18-20	22-24	2-4	10-12	4-6	2-4	12-14	4-6	18-20	0-2	8-10	2-4	14-16	6-8	14-16	2-4	14-15	4-6	14-16	8-10	14-16	4-6	8-10	2-4	
Sample Date	6/15/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/25/2011	8/25/2011	8/26/2011	8/25/2011	8/25/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	9/9/2011	9/9/2011	9/9/2011	9/9/2011	9/9/2011	9/9/2011	9/9/2011	9/9/2011	9/9/2011	
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
TPH-DRO (8015C)	**4,050**	**6,560**	<6.42	<6.39	**4,640**	<5.61	**12,900**	11.8	<5.70	**18,700**	8.32	**15,300**	<5.44	**2,460**	36.7	**409**	**111**	**39,700**	**56.9**	**14,700**	<7.17	<7.09	<6.52	<6.80	<6.91	<6.72	<7.11	<7.10	**40**
Oil & Grease (9071B)	**7,180**	**10,100**	<65.9	<64.7	**5,530**	<56.9	**41,700**	122	<57.7	**54,800**	97.7	**36,200**	105	**19,000**	144	**1,110**	**209**	**9,200**	114	**31,100**	<73.3	**650**	<66.8	<69.2	<70.9	<67.5	<73.9	<72.5	**250**

Location	Assembly Building - Former Sump Pit C				
Sample ID	SP-D-2	SP-D-3	SP-D-3	SP-D-3A	NCDENR Action Levels[1] (mg/kg)
Depth (ft bgs)	2-4	6-8	18-20	2-4	
Sample Date	9/9/2011	9/9/2011	9/9/2011	9/9/2011	
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
TPH-DRO (8015C)	16.0	<6.18	<6.84	<6.22	**40**
Oil & Grease (9071B)	<69.4	<62.2	<68.7	73.7	**250**

Notes:
1) from DENR UST Section Guidelines for Investigation and Remediation of Contamination from Non-UST Petroleum Releases (July 1, 2007)
Bold concentration exceeds action level
Analytical method number follows parameter in parenthesis
TPH = Total Petroleum Hydrocarbons; DRO = Diesel Range Organics
mg/kg = milligrams per kilogram

LEGEND

H&H SOIL BORING LOCATION

H&H SOIL AND GROUNDWATER SAMPLE LOCATION

N

APPROXIMATE

0 60 120

SCALE IN FEET

TITLE

ASSEMBLY BUILDING SITE PLAN AND PREVIOUS BORING LOCATIONS

PROJECT

FORMER VOLVO CONSTRUCTION EQUIPMENT
ASHEVILLE, NORTH CAROLINA

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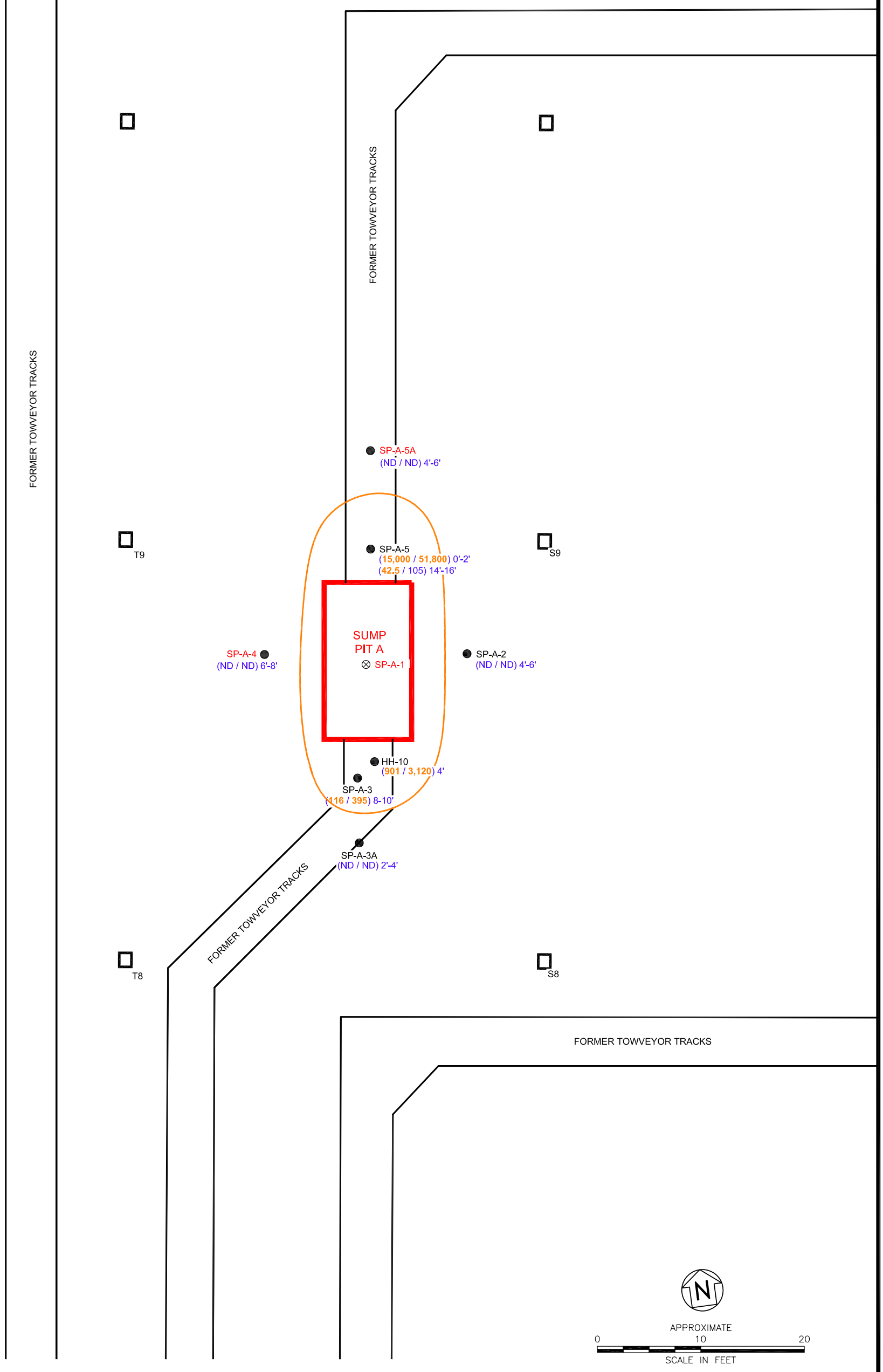
DATE: 8–17–11	REVISION NO. 0
JOB NO. PPA–040	FIGURE NO. 1



LEGEND

- ● SOIL BORING
- ⊗ ATTEMPTED BORING WHERE DPT REFUSAL ENCOUNTERED ABOVE SOIL INTERFACE
- □ T2 BUILDING SUPPORT COLUMN LABELED WITH GRID NODE FROM FOUNDATION PLAN
- (39,700 / 56.9) 6'-8' (56.9 / 114) 14'-16' TPH-DRO / O&G CONCENTRATIONS (MG/KG) AND SAMPLE DEPTH (BOLD ORANGE INDICATES CONCENTRATION ABOVE DENR ACTION LEVEL)
- ESTIMATED EXTENT OF SOIL IMPACTED ABOVE DENR ACTION LEVEL

NOTES
1. MAP BASED ON ASSEMBLY BUILDING FOUNDATION PLAN DRAWING AND FIELD OBSERVATIONS/MEASUREMENTS.
2. ND = NOT DETECTED
3. SCREENING CRITERIA: TPH-DRO = 50 MG/KG, O&G = 250 MG/KG

TITLE
SUMP PIT A
SOIL ASSESSMENT MAP

PROJECT
FORMER VOLVO CONSTRUCTION EQUIPMENT
ASHEVILLE, NORTH CAROLINA

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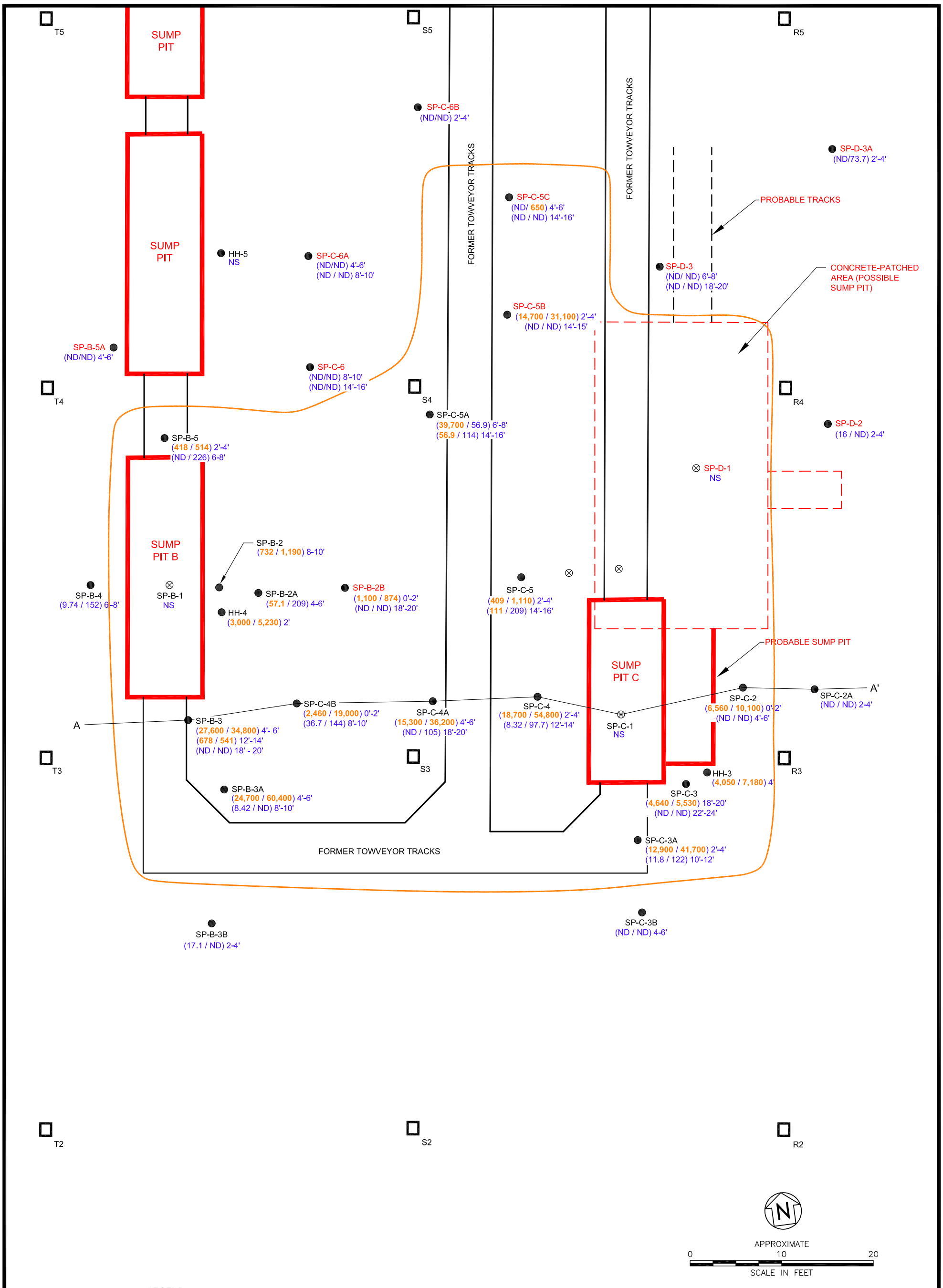
DATE: 9–7–11	REVISION NO. 0
JOB NO. PPA–040	FIGURE NO. 2



LEGEND

- ● SOIL BORING
- ⊗ ATTEMPTED BORING WHERE DPT REFUSAL ENCOUNTERED ABOVE SOIL INTERFACE
- □ T2 BUILDING SUPPORT COLUMN LABELED WITH GRID NODE FROM FOUNDATION PLAN
- (39,700 / 56.9) 6'-8' (56.9 / 114) 14'-16' TPH-DRO / O&G CONCENTRATIONS (MG/KG) AND SAMPLE DEPTH (BOLD ORANGE INDICATES CONCENTRATION ABOVE DENR ACTION LEVEL)
- ESTIMATED EXTENT OF SOIL IMPACTED ABOVE DENR ACTION LEVEL
- A ——— A' TRANSECT LINE (SEE FIGURE 4)

NOTES
1. MAP BASED ON ASSEMBLY BUILDING FOUNDATION PLAN DRAWING AND FIELD OBSERVATIONS / MEASUREMENTS.
2. NS= NOT SAMPLED; ND = NOT DETECTED

TITLE
SUMP PIT B & C
SOIL ASSESSMENT MAP

PROJECT
FORMER VOLVO CONSTRUCTION EQUIPMENT
ASHEVILLE, NORTH CAROLINA

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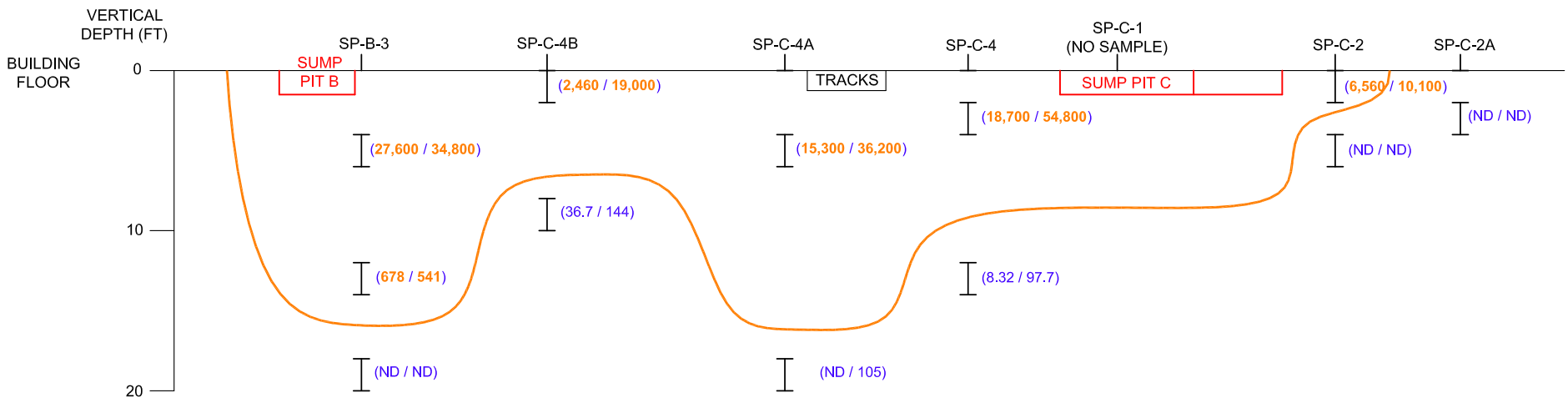
DATE: 9–22–11	REVISION NO. 0
JOB NO. PPA–040	FIGURE NO. 3



LEGEND

SAMPLE LOCATION

(39,700 / 56.9) TPH-DRO / O&G CONCENTRATIONS (MG/KG) (BOLD ORANGE INDICATES CONCENTRATION ABOVE DENR ACTION LEVEL)

ESTIMATED EXTENT OF SOIL IMPACTED ABOVE DENR ACTION LEVEL

APPROXIMATE
0 10 20
HORIZONTAL SCALE IN FEET

TITLE
CROSS-SECTION A-A'
SUMP PITS B AND C

PROJECT
FORMER VOLVO CONSTRUCTION EQUIPMENT
ASHEVILLE, NORTH CAROLINA

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DATE: 09–28–11	REVISION NO. 0
JOB NO. PPA–040	FIGURE NO. 4

Appendix A

Soil Sample PID Readings

PID Readings from Sump Pit Assessment
Former Volvo
Asheville, NC
H&H Job No. PPA-040

DEPTH	0-2	2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20	20-22	22-24
SUMP-A												
HH-10	12.1	32.5	4.9	3.1	2	1.8	2	2	NC	NC	NC	NC
SP-A-2	1.6	1.1	1.5	1.5	1.8	1.6	1.8	0.7	NC	NC	NC	NC
SP-A-3	11.5	11.0	2.3	8.7	4.1	2.6	2.9	1.7	0.8	NC	NC	NC
SP-A-3A	1.5	1.4	0.9	0.7	1.1	1.6	0.8	1.2	NC	NC	NC	NC
SP-A-4	1.4	2.4	2.6	2.8	2.3	2.0	2.3	2.2	NC	NC	NC	NC
SP-A-5	29.7	12.4	9.5	7.9	19.9	4.5	16.3	3.0	NC	NC	NC	NC
SP-A-5A	1.1	1.7	2.0	1.8	2.3	2.6	2.9	2.5	NC	NC	NC	NC
SUMP-B												
HH-4	40.2	17.1	7.8	5.1	3.7	4.0	2.8	33	NC	NC	NC	NC
SP-B-2	11.9	12.1	6.2	8.7	5.6	2.4	1.8	1.3	NC	NC	NC	NC
SP-B-2A	0.5	1.5	2.0	1.9	0.4	0.8	1.1	0.3	NC	NC	NC	NC
SP-B-2B	50.3	21	4.5	3.3	4.4	4.4	4.2	4.0	2.9	2.4	NC	NC
SP-B-3	2.5	10.6	34.6	17.1	12.1	21.5	5.0	2.5	3.2	2.8	NC	NC
SP-B-3A	2.6	23.3	36.2	15.7	7.5	6.4	3.3	4.2	NC	NC	NC	NC
SP-B-3B	0.8	1.1	0.7	0.3	0.5	0.3	0.9	0.7	NC	NC	NC	NC
SP-B-4	0.9	1.0	0.5	1.2	1.0	1.0	0.7	0.8	NC	NC	NC	NC
SP-B-5	1.7	14.3	4.6	3.7	3.6	2.8	2.5	2.5	NC	NC	NC	NC
SP-B-5A	2.4	2.2	3.0	3.1	2.3	3.2	2.4	2.4	NC	NC	NC	NC
SUMP-C												
HH-3	112	146	10.5	8.1	12.1	35.1	45	22	NC	NC	NC	NC
SP-C-2	42.2	8.0	2.8	2.1	1.9	4.9	3.1	2.4	NC	NC	NC	NC
SP-C-2A	1.5	1.8	1.0	1.1	0.8	0.7	NC	NC	NC	NC	NC	NC
SP-C-3	10.5	20.9	3.8	13.8	22.7	16.3	18.7	20.6	20.5	26.8	6.6	1.9
SP-C-3A	100.5	107.1	13.3	4.1	14.1	3.0	3.2	3.4	NC	NC	NC	NC
SP-C-3B	0.2	0.4	0.7	0.4	0.3	0.3	0.5	0.4	NC	NC	NC	NC
SP-C-4	132.8	265.8	10.5	6.1	6.3	5.2	2.6	3.3	NC	NC	NC	NC
SP-C-4A	787	51	208	175	104.7	190	27.6	11.6	18.6	3.1	NC	NC
SP-C-4B	31.2	10.4	4.3	1.8	3.4	2.5	2.9	2.3	NC	NC	NC	NC
SP-C-5	170.4	271.4	258	177	52	36	20.4	7.1	NC	NC	NC	NC
SP-C-5A	32.8	49.2	141.3	180.1	12.5	6.1	5.1	4.1	NC	NC	NC	NC
SP-C-5B	39.7	59.6	47.8	14.9	5.6	8.2	4.4	2.1	NC	NC	NC	NC
SP-C-5C	3.7	3.7	3.9	3.8	3.5	3.4	3.0	2.1	NC	NC	NC	NC
SP-C-6	2.2	1.3	2.9	2.5	2.8	2.5	2.2	1.2	NC	NC	NC	NC
SP-C-6A	4.0	3.3	4.2	1.2	2.1	2.4	2.7	1.8	NC	NC	NC	NC
SP-C-6B	2.1	3.7	3.4	3.5	3.8	3.6	3.5	2.3	NC	NC	NC	NC
SP-D-2	2.4	3.2	3.1	2.9	2.8	2.9	2.8	2.5	NC	NC	NC	NC
SP-D-3	NR	2.2	3.4	3.8	3.6	3.7	3.7	3.7	NR	2.6	NC	NC
SP-D-3A	3.3	3.6	2.6	3.0	3.2	2.7	3.1	2.6	NC	NC	NC	NC

Notes
Soil sample submitted for laboratory analysis
DRO= Total Petroleum Hydro carbons Diesel Range Organics (mg/kg)
O&G = Oil and Grease values (mg/kg)
PID readings in parts per million (ppm)
NC = Not Collected
NR = No Sample Recovery

Appendix B

Laboratory Analytical Data

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NUH3820
Client Project/Site: PPA-040
Client Project Description: Volvo - Ashville, NC

For:
Hart & Hickman (2162)
2923 South Tryon Street, Suite 100
Charlotte, NC 28203-5449

Attn: Steve Hart

Authorized for release by:
09/06/2011 02:28:41 PM

Ken A. Hayes
Senior Project Manager
ken.hayes@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Definitions 4
Client Sample Results 5
QC Sample Results 16
QC Association 19
Chronicle 25
Method Summary 34
Certification Summary 35
Chain of Custody 36

Sample Summary

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUH3820-01	SP-B-2A (4-6)	Soil	08/25/11 10:25	08/27/11 08:15
NUH3820-02	SP-B-2 (8-10)	Soil	08/25/11 10:50	08/27/11 08:15
NUH3820-03	SP-B-3 (4-6)	Soil	08/25/11 11:10	08/27/11 08:15
NUH3820-04	SP-B-3 (12-14)	Soil	08/25/11 11:15	08/27/11 08:15
NUH3820-05	SP-B-4 (6-8)	Soil	08/25/11 11:30	08/27/11 08:15
NUH3820-06	SP-B-5 (2-4)	Soil	08/25/11 11:50	08/27/11 08:15
NUH3820-07	SP-B-5 (6-8)	Soil	08/25/11 11:55	08/27/11 08:15
NUH3820-08	SP-C-3A (10-12)	Soil	08/25/11 17:00	08/27/11 08:15
NUH3820-09	SP-C-3A (2-4)	Soil	08/25/11 17:05	08/27/11 08:15
NUH3820-10	SP-C-4 (2-4)	Soil	08/25/11 17:45	08/27/11 08:15
NUH3820-11	SP-C-4 (12-14)	Soil	08/25/11 17:50	08/27/11 08:15
NUH3820-12	SP-C-3 (18-20)	Soil	08/26/11 09:00	08/27/11 08:15
NUH3820-13	SP-C-3 (22-24)	Soil	08/26/11 09:05	08/27/11 08:15
NUH3820-14	SP-C-2 (0-2)	Soil	08/26/11 09:50	08/27/11 08:15
NUH3820-15	SP-C-2 (4-6)	Soil	08/26/11 09:55	08/27/11 08:15
NUH3820-16	SP-C-4A (4-6)	Soil	08/26/11 10:25	08/27/11 08:15
NUH3820-17	SP-C-4A (18-20)	Soil	08/26/11 10:30	08/27/11 08:15
NUH3820-18	SP-C-4B (8-10)	Soil	08/26/11 10:50	08/27/11 08:15
NUH3820-19	SP-C-4B (0-2)	Soil	08/26/11 11:10	08/27/11 08:15
NUH3820-20	SP-C-2A (2-4)	Soil	08/26/11 11:35	08/27/11 08:15
NUH3820-21	SP-B-3A (4-6)	Soil	08/26/11 12:05	08/27/11 08:15
NUH3820-22	SP-C-3B (4-6)	Soil	08/26/11 12:30	08/27/11 08:15
NUH3820-23	SP-C-5 (2-4)	Soil	08/26/11 12:55	08/27/11 08:15
NUH3820-24	SP-C-5 (14-16)	Soil	08/26/11 13:00	08/27/11 08:15
NUH3820-25	SP-B-3B (2-4)	Soil	08/26/11 13:15	08/27/11 08:15
NUH3820-26	SP-B-3A (8-10)	Soil	08/26/11 12:15	08/27/11 08:15
NUH3820-27	SP-C-5A (6-8)	Soil	08/26/11 14:45	08/27/11 08:15
NUH3820-28	SP-C-5A (14-16)	Soil	08/26/11 14:50	08/27/11 08:15
NUH3820-30	SP-A-5 (0-2)	Soil	08/26/11 15:30	08/27/11 08:15
NUH3820-31	SP-A-5 (14-16)	Soil	08/26/11 15:35	08/27/11 08:15
NUH3820-32	SP-A-2 (4-6)	Soil	08/26/11 14:00	08/27/11 08:15
NUH3820-33	SP-A-3A (2-4)	Soil	08/26/11 16:15	08/27/11 08:15

Definitions/Glossary

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Qualifiers

GC Semivolatiles

Qualifier	Qualifier Description
MNR	No results were reported for the MS/MSD. The sample used for the MS/MSD required dilution due to the sample matrix. Because of this, the spike compounds were diluted below the detection limit.
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
CF6	Results confirmed by reanalysis.
QP	Hydrocarbon result partly due to individual peak(s) in quantitation range.

Extractions

Qualifier	Qualifier Description
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Client Sample ID: SP-B-2A (4-6)

Lab Sample ID: NUH3820-01
Date Collected: 08/25/11 10:25
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 74

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	57.1		6.58		mg/kg dry	☼	08/30/11 11:08	09/01/11 14:06	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*53 - 140*	*08/30/11 11:08*	*09/01/11 14:06*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	209		67.6		mg/kg dry	☼	08/29/11 09:32	08/31/11 15:38	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	74.0		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample ID: SP-B-2 (8-10)

Lab Sample ID: NUH3820-02
Date Collected: 08/25/11 10:50
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 90.2

Method: SW846 8015C - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	732		53.7		mg/kg dry	☼	08/30/11 11:08	09/02/11 14:19	10.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*150*	*Z3*	*53 - 140*	*08/30/11 11:08*	*09/02/11 14:19*	*10.0*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	1190		55.4		mg/kg dry	☼	08/29/11 09:32	08/31/11 15:38	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	90.2		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample ID: SP-B-3 (4-6)

Lab Sample ID: NUH3820-03
Date Collected: 08/25/11 11:10
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 74

Method: SW846 8015C - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	27600		1350		mg/kg dry	☼	08/30/11 11:08	09/02/11 16:45	100

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*12600*	*Z3*	*53 - 140*	*08/30/11 11:08*	*09/02/11 16:45*	*100*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	34800		67.6		mg/kg dry	☼	08/29/11 09:32	08/31/11 15:38	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	74.0		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample Results

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Client Sample ID: SP-B-3 (12-14)

Lab Sample ID: NUH3820-04
Date Collected: 08/25/11 11:15
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 90.2

Method: SW846 8015C - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	678		54.3		mg/kg dry	☼	08/30/11 11:08	09/02/11 14:43	10.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*103*	*Z3*	*53 - 140*	*08/30/11 11:08*	*09/02/11 14:43*	*10.0*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	541		55.4		mg/kg dry	☼	08/29/11 09:32	08/31/11 15:38	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	90.2		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample ID: SP-B-4 (6-8)

Lab Sample ID: NUH3820-05
Date Collected: 08/25/11 11:30
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 85

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	9.74		5.74		mg/kg dry	☼	08/30/11 11:08	09/02/11 11:04	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*53 - 140*	*08/30/11 11:08*	*09/02/11 11:04*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	152		58.8		mg/kg dry	☼	08/29/11 09:32	08/31/11 15:38	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	85.0		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample ID: SP-B-5 (2-4)

Lab Sample ID: NUH3820-06
Date Collected: 08/25/11 11:50
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 70.2

Method: SW846 8015C - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	418		13.9		mg/kg dry	☼	08/30/11 11:08	09/02/11 13:54	2.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*124*		*53 - 140*	*08/30/11 11:08*	*09/02/11 13:54*	*2.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	514		71.2		mg/kg dry	☼	08/29/11 09:32	08/31/11 15:38	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	70.2		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample Results

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Client Sample ID: SP-B-5 (6-8)

Lab Sample ID: NUH3820-07
Date Collected: 08/25/11 11:55
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 73.2

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND	CF6 QP	6.76		mg/kg dry	☼	08/30/11 11:08	09/01/11 16:32	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*53 - 140*	*08/30/11 11:08*	*09/01/11 16:32*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	**226**		68.3		mg/kg dry	☼	08/29/11 09:32	08/31/11 15:38	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**73.2**		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample ID: SP-C-3A (10-12)

Lab Sample ID: NUH3820-08
Date Collected: 08/25/11 17:00
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 86.3

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**11.8**		5.74		mg/kg dry	☼	08/30/11 11:08	09/01/11 16:57	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*53 - 140*	*08/30/11 11:08*	*09/01/11 16:57*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	**122**		58.0		mg/kg dry	☼	08/29/11 09:32	08/31/11 15:38	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**86.3**		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample ID: SP-C-3A (2-4)

Lab Sample ID: NUH3820-09
Date Collected: 08/25/11 17:05
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 80.6

Method: SW846 8015C - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**12900**		1230		mg/kg dry	☼	08/30/11 11:08	09/02/11 17:09	100

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*6110*	*Z3*	*53 - 140*	*08/30/11 11:08*	*09/02/11 17:09*	*100*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	**41700**		62.0		mg/kg dry	☼	08/29/11 09:32	08/31/11 15:38	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**80.6**		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample Results

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Client Sample ID: SP-C-4 (2-4)

Lab Sample ID: NUH3820-10
Date Collected: 08/25/11 17:45
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 86.8

Method: SW846 8015C - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	18700		1120		mg/kg dry	☼	08/30/11 11:08	09/02/11 17:33	100

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*11000*	*Z3*	*53 - 140*	*08/30/11 11:08*	*09/02/11 17:33*	*100*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	54800		57.6		mg/kg dry	☼	08/29/11 09:32	08/31/11 15:38	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	86.8		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample ID: SP-C-4 (12-14)

Lab Sample ID: NUH3820-11
Date Collected: 08/25/11 17:50
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 87.8

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	8.32		5.59		mg/kg dry	☼	08/30/11 11:08	09/02/11 12:42	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*53 - 140*	*08/30/11 11:08*	*09/02/11 12:42*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	97.7		56.9		mg/kg dry	☼	08/29/11 09:32	08/31/11 15:38	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	87.8		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample ID: SP-C-3 (18-20)

Lab Sample ID: NUH3820-12
Date Collected: 08/26/11 09:00
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 76.3

Method: SW846 8015C - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	4640		326		mg/kg dry	☼	08/30/11 11:08	09/02/11 16:20	50.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*3640*	*Z3*	*53 - 140*	*08/30/11 11:08*	*09/02/11 16:20*	*50.0*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	5530		65.6		mg/kg dry	☼	08/29/11 09:32	08/31/11 15:38	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	76.3		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample Results

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Client Sample ID: SP-C-3 (22-24)

Lab Sample ID: NUH3820-13
Date Collected: 08/26/11 09:05
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 87.9

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		5.61		mg/kg dry	☼	08/30/11 11:08	09/02/11 11:29	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*53 - 140*	*08/30/11 11:08*	*09/02/11 11:29*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		56.9		mg/kg dry	☼	08/29/11 09:32	08/31/11 15:38	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**87.9**		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample ID: SP-C-2 (0-2)

Lab Sample ID: NUH3820-14
Date Collected: 08/26/11 09:50
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 82.7

Method: SW846 8015C - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**6560**		1170		mg/kg dry	☼	08/30/11 11:08	09/02/11 18:22	200

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*5930*	*Z3*	*53 - 140*	*08/30/11 11:08*	*09/02/11 18:22*	*200*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	**10100**		60.5		mg/kg dry	☼	08/29/11 09:31	08/30/11 15:23	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**82.7**		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample ID: SP-C-2 (4-6)

Lab Sample ID: NUH3820-15
Date Collected: 08/26/11 09:55
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 75.9

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		6.42		mg/kg dry	☼	08/30/11 11:08	09/02/11 12:17	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*53 - 140*	*08/30/11 11:08*	*09/02/11 12:17*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		65.9		mg/kg dry	☼	08/29/11 09:31	08/30/11 15:23	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**75.9**		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample Results

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Client Sample ID: SP-C-4A (4-6)

Lab Sample ID: NUH3820-16
Date Collected: 08/26/11 10:25
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 79.9

Method: SW846 8015C - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	15300		1240		mg/kg dry	☼	08/30/11 11:08	09/02/11 17:57	100

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*7750*	*Z3*	*53 - 140*	*08/30/11 11:08*	*09/02/11 17:57*	*100*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	36200		62.6		mg/kg dry	☼	08/29/11 09:31	08/30/11 15:23	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	79.9		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample ID: SP-C-4A (18-20)

Lab Sample ID: NUH3820-17
Date Collected: 08/26/11 10:30
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 88.6

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		5.44		mg/kg dry	☼	08/30/11 11:08	09/02/11 11:53	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*53 - 140*	*08/30/11 11:08*	*09/02/11 11:53*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	105		56.4		mg/kg dry	☼	08/29/11 09:31	08/30/11 15:23	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	88.6		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample ID: SP-C-4B (8-10)

Lab Sample ID: NUH3820-18
Date Collected: 08/26/11 10:50
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 85.8

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	36.7		5.79		mg/kg dry	☼	08/30/11 11:08	09/02/11 13:30	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*53 - 140*	*08/30/11 11:08*	*09/02/11 13:30*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	144		58.3		mg/kg dry	☼	08/29/11 09:31	08/30/11 15:23	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	85.8		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample Results

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Client Sample ID: SP-C-4B (0-2)

Lab Sample ID: NUH3820-19
Date Collected: 08/26/11 11:10
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 85.6

Method: SW846 8015C - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	2460		116		mg/kg dry	☼	08/30/11 11:08	09/02/11 15:56	20.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*166*	*Z3*	*53 - 140*	*08/30/11 11:08*	*09/02/11 15:56*	*20.0*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	19000		58.4		mg/kg dry	☼	08/29/11 09:31	08/30/11 15:23	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	85.6		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample ID: SP-C-2A (2-4)

Lab Sample ID: NUH3820-20
Date Collected: 08/26/11 11:35
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 77.3

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		6.39		mg/kg dry	☼	08/30/11 11:08	09/02/11 13:06	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*53 - 140*	*08/30/11 11:08*	*09/02/11 13:06*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		64.7		mg/kg dry	☼	08/29/11 09:31	08/30/11 15:23	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	77.3		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample ID: SP-B-3A (4-6)

Lab Sample ID: NUH3820-21
Date Collected: 08/26/11 12:05
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 67.1

Method: SW846 8015C - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	24700		3660		mg/kg dry	☼	08/30/11 09:00	08/31/11 09:21	250

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl		*Z3*	*53 - 140*	*08/30/11 09:00*	*08/31/11 09:21*	*250*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	60400		74.5		mg/kg dry	☼	08/29/11 09:31	08/30/11 15:23	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	67.1		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample Results

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Client Sample ID: SP-C-3B (4-6)

Lab Sample ID: NUH3820-22
Date Collected: 08/26/11 12:30
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 86.7

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		5.70		mg/kg dry	☼	08/30/11 09:00	08/30/11 23:37	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*53 - 140*	*08/30/11 09:00*	*08/30/11 23:37*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		57.7		mg/kg dry	☼	08/29/11 09:31	08/30/11 15:23	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**86.7**		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample ID: SP-C-5 (2-4)

Lab Sample ID: NUH3820-23
Date Collected: 08/26/11 12:55
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 86.7

Method: SW846 8015C - Extractable Petroleum Hydrocarbons - RE2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**409**		56.7		mg/kg dry	☼	08/30/11 09:00	08/31/11 22:08	10.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*	*Z3*	*53 - 140*	*08/30/11 09:00*	*08/31/11 22:08*	*10.0*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	**1110**		57.7		mg/kg dry	☼	08/29/11 09:31	08/30/11 15:23	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**86.7**		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample ID: SP-C-5 (14-16)

Lab Sample ID: NUH3820-24
Date Collected: 08/26/11 13:00
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 88.4

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**111**		5.46		mg/kg dry	☼	08/30/11 09:00	08/31/11 02:20	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*53 - 140*	*08/30/11 09:00*	*08/31/11 02:20*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	**209**		56.6		mg/kg dry	☼	08/29/11 09:31	08/30/11 15:23	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**88.4**		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample Results

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Client Sample ID: SP-B-3B (2-4)

Lab Sample ID: NUH3820-25
Date Collected: 08/26/11 13:15
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 87.2

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	17.1		5.65		mg/kg dry	☼	08/30/11 09:00	08/31/11 02:36	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*53 - 140*	*08/30/11 09:00*	*08/31/11 02:36*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		57.3		mg/kg dry	☼	08/29/11 09:31	08/30/11 15:23	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	87.2		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample ID: SP-B-3A (8-10)

Lab Sample ID: NUH3820-26
Date Collected: 08/26/11 12:15
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 86.1

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	8.42		5.74		mg/kg dry	☼	08/30/11 09:00	08/31/11 00:10	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*53 - 140*	*08/30/11 09:00*	*08/31/11 00:10*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		58.1		mg/kg dry	☼	08/29/11 09:31	08/30/11 15:23	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	86.1		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample ID: SP-C-5A (6-8)

Lab Sample ID: NUH3820-27
Date Collected: 08/26/11 14:45
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 83.3

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	39700		1450		mg/kg dry	☼	08/30/11 09:00	08/31/11 03:24	50.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*33700*	*Z3*	*53 - 140*	*08/30/11 09:00*	*08/31/11 03:24*	*50.0*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	9200		60.0		mg/kg dry	☼	08/29/11 09:31	08/30/11 15:23	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	83.3		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample Results

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Client Sample ID: SP-C-5A (14-16)

Lab Sample ID: NUH3820-28
Date Collected: 08/26/11 14:50
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 91.1

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	56.9		5.42		mg/kg dry	☼	08/30/11 09:00	08/31/11 00:26	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*53 - 140*	*08/30/11 09:00*	*08/31/11 00:26*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	114		54.9		mg/kg dry	☼	08/29/11 09:31	08/30/11 15:23	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	91.1		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample ID: SP-A-5 (0-2)

Lab Sample ID: NUH3820-30
Date Collected: 08/26/11 15:30
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 89.5

Method: SW846 8015C - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	15000		2200		mg/kg dry	☼	08/30/11 09:00	08/31/11 09:04	200

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*10000*	*Z3*	*53 - 140*	*08/30/11 09:00*	*08/31/11 09:04*	*200*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	51800		55.9		mg/kg dry	☼	08/29/11 09:31	08/30/11 15:23	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	89.5		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample ID: SP-A-5 (14-16)

Lab Sample ID: NUH3820-31
Date Collected: 08/26/11 15:35
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 83.4

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	42.5		5.89		mg/kg dry	☼	08/30/11 09:00	08/31/11 01:31	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*53 - 140*	*08/30/11 09:00*	*08/31/11 01:31*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	105		59.9		mg/kg dry	☼	08/29/11 09:31	08/30/11 15:23	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	83.4		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample Results

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Client Sample ID: SP-A-2 (4-6)

Lab Sample ID: NUH3820-32

Date Collected: 08/26/11 14:00
Date Received: 08/27/11 08:15

Matrix: Soil
Percent Solids: 71.3

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		6.96		mg/kg dry	☼	08/30/11 09:00	08/31/11 01:47	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*53 - 140*	*08/30/11 09:00*	*08/31/11 01:47*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		70.2		mg/kg dry	☼	08/29/11 09:31	08/30/11 15:23	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**71.3**		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

Client Sample ID: SP-A-3A (2-4)

Lab Sample ID: NUH3820-33

Date Collected: 08/26/11 16:15
Date Received: 08/27/11 08:15

Matrix: Soil
Percent Solids: 67.8

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		7.28		mg/kg dry	☼	08/30/11 09:00	08/31/11 02:03	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*53 - 140*	*08/30/11 09:00*	*08/31/11 02:03*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		73.7		mg/kg dry	☼	08/29/11 09:31	08/30/11 15:23	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**67.8**		0.500		%		08/30/11 10:27	08/31/11 09:04	1.00

QC Sample Results

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Lab Sample ID: 11H6468-BLK1 — **Client Sample ID: Method Blank**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: U015425 — **Prep Batch: 11H6468_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		5.00		mg/kg wet		08/30/11 09:00	08/30/11 23:05	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*53 - 140*	*08/30/11 09:00*	*08/30/11 23:05*	*1.00*

Lab Sample ID: 11H6468-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: U015425 — **Prep Batch: 11H6468_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Diesel	40.0	47.8	MNR	mg/kg wet		119	65 - 127

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*89*		*53 - 140*

Lab Sample ID: 11H6469-BLK1 — **Client Sample ID: Method Blank**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: U015572 — **Prep Batch: 11H6469_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		5.00		mg/kg wet		08/30/11 11:08	09/01/11 12:29	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*53 - 140*	*08/30/11 11:08*	*09/01/11 12:29*	*1.00*

Lab Sample ID: 11H6469-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: U015572 — **Prep Batch: 11H6469_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Diesel	40.0	28.9		mg/kg wet		72	65 - 127

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*64*		*53 - 140*

Lab Sample ID: 11H6469-MS1 — **Client Sample ID: SP-B-2A (4-6)**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: U015572 — **Prep Batch: 11H6469_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Diesel	57.1		53.4	244	M1	mg/kg dry	☼	350	23 - 138

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
o-Terphenyl	*66*		*53 - 140*

QC Sample Results

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Method: SW846 8015C - Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: 11H6469-MSD1 — **Client Sample ID: SP-B-2A (4-6)**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: U015572 — **Prep Batch: 11H6469_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Diesel	57.1		52.3	180	M1	mg/kg dry	☼	234	23 - 138	30	40

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
o-Terphenyl	*67*		*53 - 140*

Method: SW-846 - General Chemistry Parameters

Lab Sample ID: 11H6763-DUP1 — **Client Sample ID: SP-C-2 (0-2)**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11H6763 — **Prep Batch: 11H6763_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
% Dry Solids	82.7			82.8		%				0.2	20

Lab Sample ID: 11H6764-DUP1 — **Client Sample ID: SP-B-2A (4-6)**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11H6764 — **Prep Batch: 11H6764_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
% Dry Solids	74.0			73.7		%				0.4	20

Method: SW846 9071B - General Chemistry Parameters

Lab Sample ID: 11H6586-BLK1 — **Client Sample ID: Method Blank**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11H6586 — **Prep Batch: 11H6586_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		50.0		mg/kg wet		08/29/11 09:31	08/30/11 15:23	1.00

Lab Sample ID: 11H6586-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11H6586 — **Prep Batch: 11H6586_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Oil & Grease (HEM)			4000	4620		mg/kg		116	75 - 117		

Lab Sample ID: 11H6586-MS1 — **Client Sample ID: SP-C-2 (0-2)**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11H6586 — **Prep Batch: 11H6586_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
Oil & Grease (HEM)	8380		4000	10700	M8	mg/kg	☼	57	66 - 117		

Lab Sample ID: 11H6586-DUP1 — **Client Sample ID: SP-C-2 (0-2)**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11H6586 — **Prep Batch: 11H6586_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Oil & Grease (HEM)	10100			14800		mg/kg dry	☼			37	50

QC Sample Results

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Method: SW846 9071B - General Chemistry Parameters (Continued)

Lab Sample ID: 11H6589-BLK1 — **Client Sample ID: Method Blank**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11H6589 — **Prep Batch: 11H6589_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		50.0		mg/kg wet		08/29/11 09:32	08/31/11 15:38	1.00

Lab Sample ID: 11H6589-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11H6589 — **Prep Batch: 11H6589_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Oil & Grease (HEM)			4000	4010		mg/kg		100	72 - 117		

Lab Sample ID: 11H6589-MS1 — **Client Sample ID: SP-B-2A (4-6)**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11H6589 — **Prep Batch: 11H6589_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
Oil & Grease (HEM)	155		4000	3270		mg/kg	☼	78	67 - 114		

Lab Sample ID: 11H6589-DUP1 — **Client Sample ID: SP-B-2A (4-6)**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11H6589 — **Prep Batch: 11H6589_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Oil & Grease (HEM)	209			203		mg/kg dry	☼			3	20

QC Association Summary

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

GC Semivolatiles

Analysis Batch: U015425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H6468-BLK1	Method Blank	Total	Soil	SW846 8015C	11H6468_P
11H6468-BS1	Lab Control Sample	Total	Soil	SW846 8015C	11H6468_P
NUH3820-21 - RE1	SP-B-3A (4-6)	Total	Soil	SW846 8015C	11H6468_P
NUH3820-22	SP-C-3B (4-6)	Total	Soil	SW846 8015C	11H6468_P
NUH3820-24	SP-C-5 (14-16)	Total	Soil	SW846 8015C	11H6468_P
NUH3820-25	SP-B-3B (2-4)	Total	Soil	SW846 8015C	11H6468_P
NUH3820-26	SP-B-3A (8-10)	Total	Soil	SW846 8015C	11H6468_P
NUH3820-27	SP-C-5A (6-8)	Total	Soil	SW846 8015C	11H6468_P
NUH3820-28	SP-C-5A (14-16)	Total	Soil	SW846 8015C	11H6468_P
NUH3820-30 - RE1	SP-A-5 (0-2)	Total	Soil	SW846 8015C	11H6468_P
NUH3820-31	SP-A-5 (14-16)	Total	Soil	SW846 8015C	11H6468_P
NUH3820-32	SP-A-2 (4-6)	Total	Soil	SW846 8015C	11H6468_P
NUH3820-33	SP-A-3A (2-4)	Total	Soil	SW846 8015C	11H6468_P

Analysis Batch: U015525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUH3820-23 - RE2	SP-C-5 (2-4)	Total	Soil	SW846 8015C	11H6468_P

Analysis Batch: U015572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H6469-BLK1	Method Blank	Total	Soil	SW846 8015C	11H6469_P
11H6469-BS1	Lab Control Sample	Total	Soil	SW846 8015C	11H6469_P
11H6469-MS1	SP-B-2A (4-6)	Total	Soil	SW846 8015C	11H6469_P
11H6469-MSD1	SP-B-2A (4-6)	Total	Soil	SW846 8015C	11H6469_P
NUH3820-01	SP-B-2A (4-6)	Total	Soil	SW846 8015C	11H6469_P
NUH3820-07	SP-B-5 (6-8)	Total	Soil	SW846 8015C	11H6469_P
NUH3820-08	SP-C-3A (10-12)	Total	Soil	SW846 8015C	11H6469_P

Analysis Batch: U015656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUH3820-02 - RE1	SP-B-2 (8-10)	Total	Soil	SW846 8015C	11H6469_P
NUH3820-03 - RE1	SP-B-3 (4-6)	Total	Soil	SW846 8015C	11H6469_P
NUH3820-04 - RE1	SP-B-3 (12-14)	Total	Soil	SW846 8015C	11H6469_P
NUH3820-05	SP-B-4 (6-8)	Total	Soil	SW846 8015C	11H6469_P
NUH3820-06 - RE1	SP-B-5 (2-4)	Total	Soil	SW846 8015C	11H6469_P
NUH3820-09 - RE1	SP-C-3A (2-4)	Total	Soil	SW846 8015C	11H6469_P
NUH3820-10 - RE1	SP-C-4 (2-4)	Total	Soil	SW846 8015C	11H6469_P
NUH3820-11	SP-C-4 (12-14)	Total	Soil	SW846 8015C	11H6469_P
NUH3820-12 - RE1	SP-C-3 (18-20)	Total	Soil	SW846 8015C	11H6469_P
NUH3820-13	SP-C-3 (22-24)	Total	Soil	SW846 8015C	11H6469_P
NUH3820-14 - RE1	SP-C-2 (0-2)	Total	Soil	SW846 8015C	11H6469_P
NUH3820-15	SP-C-2 (4-6)	Total	Soil	SW846 8015C	11H6469_P
NUH3820-16 - RE1	SP-C-4A (4-6)	Total	Soil	SW846 8015C	11H6469_P
NUH3820-17	SP-C-4A (18-20)	Total	Soil	SW846 8015C	11H6469_P
NUH3820-18	SP-C-4B (8-10)	Total	Soil	SW846 8015C	11H6469_P
NUH3820-19 - RE1	SP-C-4B (0-2)	Total	Soil	SW846 8015C	11H6469_P
NUH3820-20	SP-C-2A (2-4)	Total	Soil	SW846 8015C	11H6469_P

Prep Batch: 11H6468_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H6468-BLK1	Method Blank	Total	Soil	EPA 3550B	
11H6468-BS1	Lab Control Sample	Total	Soil	EPA 3550B	

GC Semivolatiles (Continued)

Prep Batch: 11H6468_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUH3820-21 - RE1	SP-B-3A (4-6)	Total	Soil	EPA 3550B	
NUH3820-22	SP-C-3B (4-6)	Total	Soil	EPA 3550B	
NUH3820-23 - RE2	SP-C-5 (2-4)	Total	Soil	EPA 3550B	
NUH3820-24	SP-C-5 (14-16)	Total	Soil	EPA 3550B	
NUH3820-25	SP-B-3B (2-4)	Total	Soil	EPA 3550B	
NUH3820-26	SP-B-3A (8-10)	Total	Soil	EPA 3550B	
NUH3820-27	SP-C-5A (6-8)	Total	Soil	EPA 3550B	
NUH3820-28	SP-C-5A (14-16)	Total	Soil	EPA 3550B	
NUH3820-30 - RE1	SP-A-5 (0-2)	Total	Soil	EPA 3550B	
NUH3820-31	SP-A-5 (14-16)	Total	Soil	EPA 3550B	
NUH3820-32	SP-A-2 (4-6)	Total	Soil	EPA 3550B	
NUH3820-33	SP-A-3A (2-4)	Total	Soil	EPA 3550B	

Prep Batch: 11H6469_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H6469-BLK1	Method Blank	Total	Soil	EPA 3550B	
11H6469-BS1	Lab Control Sample	Total	Soil	EPA 3550B	
11H6469-MS1	SP-B-2A (4-6)	Total	Soil	EPA 3550B	
11H6469-MSD1	SP-B-2A (4-6)	Total	Soil	EPA 3550B	
NUH3820-01	SP-B-2A (4-6)	Total	Soil	EPA 3550B	
NUH3820-02 - RE1	SP-B-2 (8-10)	Total	Soil	EPA 3550B	
NUH3820-03 - RE1	SP-B-3 (4-6)	Total	Soil	EPA 3550B	
NUH3820-04 - RE1	SP-B-3 (12-14)	Total	Soil	EPA 3550B	
NUH3820-05	SP-B-4 (6-8)	Total	Soil	EPA 3550B	
NUH3820-06 - RE1	SP-B-5 (2-4)	Total	Soil	EPA 3550B	
NUH3820-07	SP-B-5 (6-8)	Total	Soil	EPA 3550B	
NUH3820-08	SP-C-3A (10-12)	Total	Soil	EPA 3550B	
NUH3820-09 - RE1	SP-C-3A (2-4)	Total	Soil	EPA 3550B	
NUH3820-10 - RE1	SP-C-4 (2-4)	Total	Soil	EPA 3550B	
NUH3820-11	SP-C-4 (12-14)	Total	Soil	EPA 3550B	
NUH3820-12 - RE1	SP-C-3 (18-20)	Total	Soil	EPA 3550B	
NUH3820-13	SP-C-3 (22-24)	Total	Soil	EPA 3550B	
NUH3820-14 - RE1	SP-C-2 (0-2)	Total	Soil	EPA 3550B	
NUH3820-15	SP-C-2 (4-6)	Total	Soil	EPA 3550B	
NUH3820-16 - RE1	SP-C-4A (4-6)	Total	Soil	EPA 3550B	
NUH3820-17	SP-C-4A (18-20)	Total	Soil	EPA 3550B	
NUH3820-18	SP-C-4B (8-10)	Total	Soil	EPA 3550B	
NUH3820-19 - RE1	SP-C-4B (0-2)	Total	Soil	EPA 3550B	
NUH3820-20	SP-C-2A (2-4)	Total	Soil	EPA 3550B	

Extractions

Analysis Batch: 11H6586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H6586-BLK1	Method Blank	Total	Soil	SW846 9071B	11H6586_P
11H6586-BS1	Lab Control Sample	Total	Soil	SW846 9071B	11H6586_P
11H6586-DUP1	SP-C-2 (0-2)	Total	Soil	SW846 9071B	11H6586_P
11H6586-MS1	SP-C-2 (0-2)	Total	Soil	SW846 9071B	11H6586_P
NUH3820-14	SP-C-2 (0-2)	Total	Soil	SW846 9071B	11H6586_P
NUH3820-15	SP-C-2 (4-6)	Total	Soil	SW846 9071B	11H6586_P
NUH3820-16	SP-C-4A (4-6)	Total	Soil	SW846 9071B	11H6586_P
NUH3820-17	SP-C-4A (18-20)	Total	Soil	SW846 9071B	11H6586_P

Extractions (Continued)

Analysis Batch: 11H6586 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUH3820-18	SP-C-4B (8-10)	Total	Soil	SW846 9071B	11H6586_P
NUH3820-19	SP-C-4B (0-2)	Total	Soil	SW846 9071B	11H6586_P
NUH3820-20	SP-C-2A (2-4)	Total	Soil	SW846 9071B	11H6586_P
NUH3820-21	SP-B-3A (4-6)	Total	Soil	SW846 9071B	11H6586_P
NUH3820-22	SP-C-3B (4-6)	Total	Soil	SW846 9071B	11H6586_P
NUH3820-23	SP-C-5 (2-4)	Total	Soil	SW846 9071B	11H6586_P
NUH3820-24	SP-C-5 (14-16)	Total	Soil	SW846 9071B	11H6586_P
NUH3820-25	SP-B-3B (2-4)	Total	Soil	SW846 9071B	11H6586_P
NUH3820-26	SP-B-3A (8-10)	Total	Soil	SW846 9071B	11H6586_P
NUH3820-27	SP-C-5A (6-8)	Total	Soil	SW846 9071B	11H6586_P
NUH3820-28	SP-C-5A (14-16)	Total	Soil	SW846 9071B	11H6586_P
NUH3820-30	SP-A-5 (0-2)	Total	Soil	SW846 9071B	11H6586_P
NUH3820-31	SP-A-5 (14-16)	Total	Soil	SW846 9071B	11H6586_P
NUH3820-32	SP-A-2 (4-6)	Total	Soil	SW846 9071B	11H6586_P
NUH3820-33	SP-A-3A (2-4)	Total	Soil	SW846 9071B	11H6586_P

Analysis Batch: 11H6589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H6589-BLK1	Method Blank	Total	Soil	SW846 9071B	11H6589_P
11H6589-BS1	Lab Control Sample	Total	Soil	SW846 9071B	11H6589_P
11H6589-DUP1	SP-B-2A (4-6)	Total	Soil	SW846 9071B	11H6589_P
11H6589-MS1	SP-B-2A (4-6)	Total	Soil	SW846 9071B	11H6589_P
NUH3820-01	SP-B-2A (4-6)	Total	Soil	SW846 9071B	11H6589_P
NUH3820-02	SP-B-2 (8-10)	Total	Soil	SW846 9071B	11H6589_P
NUH3820-03	SP-B-3 (4-6)	Total	Soil	SW846 9071B	11H6589_P
NUH3820-04	SP-B-3 (12-14)	Total	Soil	SW846 9071B	11H6589_P
NUH3820-05	SP-B-4 (6-8)	Total	Soil	SW846 9071B	11H6589_P
NUH3820-06	SP-B-5 (2-4)	Total	Soil	SW846 9071B	11H6589_P
NUH3820-07	SP-B-5 (6-8)	Total	Soil	SW846 9071B	11H6589_P
NUH3820-08	SP-C-3A (10-12)	Total	Soil	SW846 9071B	11H6589_P
NUH3820-09	SP-C-3A (2-4)	Total	Soil	SW846 9071B	11H6589_P
NUH3820-10	SP-C-4 (2-4)	Total	Soil	SW846 9071B	11H6589_P
NUH3820-11	SP-C-4 (12-14)	Total	Soil	SW846 9071B	11H6589_P
NUH3820-12	SP-C-3 (18-20)	Total	Soil	SW846 9071B	11H6589_P
NUH3820-13	SP-C-3 (22-24)	Total	Soil	SW846 9071B	11H6589_P

Analysis Batch: 11H6763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H6763-DUP1	SP-C-2 (0-2)	Total	Soil	SW-846	11H6763_P
NUH3820-14	SP-C-2 (0-2)	Total	Soil	SW-846	11H6763_P
NUH3820-15	SP-C-2 (4-6)	Total	Soil	SW-846	11H6763_P
NUH3820-16	SP-C-4A (4-6)	Total	Soil	SW-846	11H6763_P
NUH3820-17	SP-C-4A (18-20)	Total	Soil	SW-846	11H6763_P
NUH3820-18	SP-C-4B (8-10)	Total	Soil	SW-846	11H6763_P
NUH3820-19	SP-C-4B (0-2)	Total	Soil	SW-846	11H6763_P
NUH3820-20	SP-C-2A (2-4)	Total	Soil	SW-846	11H6763_P
NUH3820-21	SP-B-3A (4-6)	Total	Soil	SW-846	11H6763_P
NUH3820-22	SP-C-3B (4-6)	Total	Soil	SW-846	11H6763_P
NUH3820-23	SP-C-5 (2-4)	Total	Soil	SW-846	11H6763_P
NUH3820-24	SP-C-5 (14-16)	Total	Soil	SW-846	11H6763_P
NUH3820-25	SP-B-3B (2-4)	Total	Soil	SW-846	11H6763_P
NUH3820-26	SP-B-3A (8-10)	Total	Soil	SW-846	11H6763_P

QC Association Summary

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Extractions (Continued)

Analysis Batch: 11H6763 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUH3820-27	SP-C-5A (6-8)	Total	Soil	SW-846	11H6763_P
NUH3820-28	SP-C-5A (14-16)	Total	Soil	SW-846	11H6763_P
NUH3820-30	SP-A-5 (0-2)	Total	Soil	SW-846	11H6763_P
NUH3820-31	SP-A-5 (14-16)	Total	Soil	SW-846	11H6763_P
NUH3820-32	SP-A-2 (4-6)	Total	Soil	SW-846	11H6763_P
NUH3820-33	SP-A-3A (2-4)	Total	Soil	SW-846	11H6763_P

Analysis Batch: 11H6764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H6764-DUP1	SP-B-2A (4-6)	Total	Soil	SW-846	11H6764_P
NUH3820-01	SP-B-2A (4-6)	Total	Soil	SW-846	11H6764_P
NUH3820-02	SP-B-2 (8-10)	Total	Soil	SW-846	11H6764_P
NUH3820-03	SP-B-3 (4-6)	Total	Soil	SW-846	11H6764_P
NUH3820-04	SP-B-3 (12-14)	Total	Soil	SW-846	11H6764_P
NUH3820-05	SP-B-4 (6-8)	Total	Soil	SW-846	11H6764_P
NUH3820-06	SP-B-5 (2-4)	Total	Soil	SW-846	11H6764_P
NUH3820-07	SP-B-5 (6-8)	Total	Soil	SW-846	11H6764_P
NUH3820-08	SP-C-3A (10-12)	Total	Soil	SW-846	11H6764_P
NUH3820-09	SP-C-3A (2-4)	Total	Soil	SW-846	11H6764_P
NUH3820-10	SP-C-4 (2-4)	Total	Soil	SW-846	11H6764_P
NUH3820-11	SP-C-4 (12-14)	Total	Soil	SW-846	11H6764_P
NUH3820-12	SP-C-3 (18-20)	Total	Soil	SW-846	11H6764_P
NUH3820-13	SP-C-3 (22-24)	Total	Soil	SW-846	11H6764_P

Prep Batch: 11H6586_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H6586-BLK1	Method Blank	Total	Soil	EPA 9071B-Soil	
11H6586-BS1	Lab Control Sample	Total	Soil	EPA 9071B-Soil	
11H6586-DUP1	SP-C-2 (0-2)	Total	Soil	EPA 9071B-Soil	
11H6586-MS1	SP-C-2 (0-2)	Total	Soil	EPA 9071B-Soil	
NUH3820-14	SP-C-2 (0-2)	Total	Soil	EPA 9071B-Soil	
NUH3820-15	SP-C-2 (4-6)	Total	Soil	EPA 9071B-Soil	
NUH3820-16	SP-C-4A (4-6)	Total	Soil	EPA 9071B-Soil	
NUH3820-17	SP-C-4A (18-20)	Total	Soil	EPA 9071B-Soil	
NUH3820-18	SP-C-4B (8-10)	Total	Soil	EPA 9071B-Soil	
NUH3820-19	SP-C-4B (0-2)	Total	Soil	EPA 9071B-Soil	
NUH3820-20	SP-C-2A (2-4)	Total	Soil	EPA 9071B-Soil	
NUH3820-21	SP-B-3A (4-6)	Total	Soil	EPA 9071B-Soil	
NUH3820-22	SP-C-3B (4-6)	Total	Soil	EPA 9071B-Soil	
NUH3820-23	SP-C-5 (2-4)	Total	Soil	EPA 9071B-Soil	
NUH3820-24	SP-C-5 (14-16)	Total	Soil	EPA 9071B-Soil	
NUH3820-25	SP-B-3B (2-4)	Total	Soil	EPA 9071B-Soil	
NUH3820-26	SP-B-3A (8-10)	Total	Soil	EPA 9071B-Soil	
NUH3820-27	SP-C-5A (6-8)	Total	Soil	EPA 9071B-Soil	
NUH3820-28	SP-C-5A (14-16)	Total	Soil	EPA 9071B-Soil	
NUH3820-30	SP-A-5 (0-2)	Total	Soil	EPA 9071B-Soil	
NUH3820-31	SP-A-5 (14-16)	Total	Soil	EPA 9071B-Soil	
NUH3820-32	SP-A-2 (4-6)	Total	Soil	EPA 9071B-Soil	
NUH3820-33	SP-A-3A (2-4)	Total	Soil	EPA 9071B-Soil	

Extractions (Continued)

Prep Batch: 11H6589_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H6589-BLK1	Method Blank	Total	Soil	EPA 9071B-Soil	
11H6589-BS1	Lab Control Sample	Total	Soil	EPA 9071B-Soil	
11H6589-DUP1	SP-B-2A (4-6)	Total	Soil	EPA 9071B-Soil	
11H6589-MS1	SP-B-2A (4-6)	Total	Soil	EPA 9071B-Soil	
NUH3820-01	SP-B-2A (4-6)	Total	Soil	EPA 9071B-Soil	
NUH3820-02	SP-B-2 (8-10)	Total	Soil	EPA 9071B-Soil	
NUH3820-03	SP-B-3 (4-6)	Total	Soil	EPA 9071B-Soil	
NUH3820-04	SP-B-3 (12-14)	Total	Soil	EPA 9071B-Soil	
NUH3820-05	SP-B-4 (6-8)	Total	Soil	EPA 9071B-Soil	
NUH3820-06	SP-B-5 (2-4)	Total	Soil	EPA 9071B-Soil	
NUH3820-07	SP-B-5 (6-8)	Total	Soil	EPA 9071B-Soil	
NUH3820-08	SP-C-3A (10-12)	Total	Soil	EPA 9071B-Soil	
NUH3820-09	SP-C-3A (2-4)	Total	Soil	EPA 9071B-Soil	
NUH3820-10	SP-C-4 (2-4)	Total	Soil	EPA 9071B-Soil	
NUH3820-11	SP-C-4 (12-14)	Total	Soil	EPA 9071B-Soil	
NUH3820-12	SP-C-3 (18-20)	Total	Soil	EPA 9071B-Soil	
NUH3820-13	SP-C-3 (22-24)	Total	Soil	EPA 9071B-Soil	

Prep Batch: 11H6763_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H6763-DUP1	SP-C-2 (0-2)	Total	Soil	% Solids	
NUH3820-14	SP-C-2 (0-2)	Total	Soil	% Solids	
NUH3820-15	SP-C-2 (4-6)	Total	Soil	% Solids	
NUH3820-16	SP-C-4A (4-6)	Total	Soil	% Solids	
NUH3820-17	SP-C-4A (18-20)	Total	Soil	% Solids	
NUH3820-18	SP-C-4B (8-10)	Total	Soil	% Solids	
NUH3820-19	SP-C-4B (0-2)	Total	Soil	% Solids	
NUH3820-20	SP-C-2A (2-4)	Total	Soil	% Solids	
NUH3820-21	SP-B-3A (4-6)	Total	Soil	% Solids	
NUH3820-22	SP-C-3B (4-6)	Total	Soil	% Solids	
NUH3820-23	SP-C-5 (2-4)	Total	Soil	% Solids	
NUH3820-24	SP-C-5 (14-16)	Total	Soil	% Solids	
NUH3820-25	SP-B-3B (2-4)	Total	Soil	% Solids	
NUH3820-26	SP-B-3A (8-10)	Total	Soil	% Solids	
NUH3820-27	SP-C-5A (6-8)	Total	Soil	% Solids	
NUH3820-28	SP-C-5A (14-16)	Total	Soil	% Solids	
NUH3820-30	SP-A-5 (0-2)	Total	Soil	% Solids	
NUH3820-31	SP-A-5 (14-16)	Total	Soil	% Solids	
NUH3820-32	SP-A-2 (4-6)	Total	Soil	% Solids	
NUH3820-33	SP-A-3A (2-4)	Total	Soil	% Solids	

Prep Batch: 11H6764_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H6764-DUP1	SP-B-2A (4-6)	Total	Soil	% Solids	
NUH3820-01	SP-B-2A (4-6)	Total	Soil	% Solids	
NUH3820-02	SP-B-2 (8-10)	Total	Soil	% Solids	
NUH3820-03	SP-B-3 (4-6)	Total	Soil	% Solids	
NUH3820-04	SP-B-3 (12-14)	Total	Soil	% Solids	
NUH3820-05	SP-B-4 (6-8)	Total	Soil	% Solids	
NUH3820-06	SP-B-5 (2-4)	Total	Soil	% Solids	
NUH3820-07	SP-B-5 (6-8)	Total	Soil	% Solids	
NUH3820-08	SP-C-3A (10-12)	Total	Soil	% Solids	

Extractions (Continued)

Prep Batch: 11H6764_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUH3820-09	SP-C-3A (2-4)	Total	Soil	% Solids	
NUH3820-10	SP-C-4 (2-4)	Total	Soil	% Solids	
NUH3820-11	SP-C-4 (12-14)	Total	Soil	% Solids	
NUH3820-12	SP-C-3 (18-20)	Total	Soil	% Solids	
NUH3820-13	SP-C-3 (22-24)	Total	Soil	% Solids	

Lab Chronicle

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Client Sample ID: SP-B-2A (4-6)

Lab Sample ID: NUH3820-01

Date Collected: 08/25/11 10:25
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 74

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.974	11H6469_P	08/30/11 11:08	AMJ	TAL NSH
Total	Analysis	SW846 8015C		1.00	U015572	09/01/11 14:06	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6589_P	08/29/11 09:32	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6589	08/31/11 15:38	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6764_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6764	08/31/11 09:04	RRS	TAL NSH

Client Sample ID: SP-B-2 (8-10)

Lab Sample ID: NUH3820-02

Date Collected: 08/25/11 10:50
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B	RE1	0.970	11H6469_P	08/30/11 11:08	AMJ	TAL NSH
Total	Analysis	SW846 8015C	RE1	10.0	U015656	09/02/11 14:19	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6589_P	08/29/11 09:32	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6589	08/31/11 15:38	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6764_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6764	08/31/11 09:04	RRS	TAL NSH

Client Sample ID: SP-B-3 (4-6)

Lab Sample ID: NUH3820-03

Date Collected: 08/25/11 11:10
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 74

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B	RE1	2.00	11H6469_P	08/30/11 11:08	AMJ	TAL NSH
Total	Analysis	SW846 8015C	RE1	100	U015656	09/02/11 16:45	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6589_P	08/29/11 09:32	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6589	08/31/11 15:38	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6764_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6764	08/31/11 09:04	RRS	TAL NSH

Client Sample ID: SP-B-3 (12-14)

Lab Sample ID: NUH3820-04

Date Collected: 08/25/11 11:15
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B	RE1	0.980	11H6469_P	08/30/11 11:08	AMJ	TAL NSH
Total	Analysis	SW846 8015C	RE1	10.0	U015656	09/02/11 14:43	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6589_P	08/29/11 09:32	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6589	08/31/11 15:38	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6764_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6764	08/31/11 09:04	RRS	TAL NSH

Lab Chronicle

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Client Sample ID: SP-B-4 (6-8)

Lab Sample ID: NUH3820-05

Date Collected: 08/25/11 11:30
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 85

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.975	11H6469_P	08/30/11 11:08	AMJ	TAL NSH
Total	Analysis	SW846 8015C		1.00	U015656	09/02/11 11:04	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6589_P	08/29/11 09:32	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6589	08/31/11 15:38	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6764_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6764	08/31/11 09:04	RRS	TAL NSH

Client Sample ID: SP-B-5 (2-4)

Lab Sample ID: NUH3820-06

Date Collected: 08/25/11 11:50
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 70.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B	RE1	0.977	11H6469_P	08/30/11 11:08	AMJ	TAL NSH
Total	Analysis	SW846 8015C	RE1	2.00	U015656	09/02/11 13:54	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6589_P	08/29/11 09:32	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6589	08/31/11 15:38	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6764_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6764	08/31/11 09:04	RRS	TAL NSH

Client Sample ID: SP-B-5 (6-8)

Lab Sample ID: NUH3820-07

Date Collected: 08/25/11 11:55
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 73.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.990	11H6469_P	08/30/11 11:08	AMJ	TAL NSH
Total	Analysis	SW846 8015C		1.00	U015572	09/01/11 16:32	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6589_P	08/29/11 09:32	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6589	08/31/11 15:38	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6764_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6764	08/31/11 09:04	RRS	TAL NSH

Client Sample ID: SP-C-3A (10-12)

Lab Sample ID: NUH3820-08

Date Collected: 08/25/11 17:00
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.990	11H6469_P	08/30/11 11:08	AMJ	TAL NSH
Total	Analysis	SW846 8015C		1.00	U015572	09/01/11 16:57	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6589_P	08/29/11 09:32	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6589	08/31/11 15:38	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6764_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6764	08/31/11 09:04	RRS	TAL NSH

Lab Chronicle

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Client Sample ID: SP-C-3A (2-4)

Lab Sample ID: NUH3820-09

Date Collected: 08/25/11 17:05
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B	RE1	1.99	11H6469_P	08/30/11 11:08	AMJ	TAL NSH
Total	Analysis	SW846 8015C	RE1	100	U015656	09/02/11 17:09	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6589_P	08/29/11 09:32	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6589	08/31/11 15:38	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6764_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6764	08/31/11 09:04	RRS	TAL NSH

Client Sample ID: SP-C-4 (2-4)

Lab Sample ID: NUH3820-10

Date Collected: 08/25/11 17:45
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B	RE1	1.95	11H6469_P	08/30/11 11:08	AMJ	TAL NSH
Total	Analysis	SW846 8015C	RE1	100	U015656	09/02/11 17:33	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6589_P	08/29/11 09:32	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6589	08/31/11 15:38	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6764_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6764	08/31/11 09:04	RRS	TAL NSH

Client Sample ID: SP-C-4 (12-14)

Lab Sample ID: NUH3820-11

Date Collected: 08/25/11 17:50
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.982	11H6469_P	08/30/11 11:08	AMJ	TAL NSH
Total	Analysis	SW846 8015C		1.00	U015656	09/02/11 12:42	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6589_P	08/29/11 09:32	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6589	08/31/11 15:38	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6764_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6764	08/31/11 09:04	RRS	TAL NSH

Client Sample ID: SP-C-3 (18-20)

Lab Sample ID: NUH3820-12

Date Collected: 08/26/11 09:00
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B	RE1	0.994	11H6469_P	08/30/11 11:08	AMJ	TAL NSH
Total	Analysis	SW846 8015C	RE1	50.0	U015656	09/02/11 16:20	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6589_P	08/29/11 09:32	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6589	08/31/11 15:38	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6764_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6764	08/31/11 09:04	RRS	TAL NSH

Lab Chronicle

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Client Sample ID: SP-C-3 (22-24)

Lab Sample ID: NUH3820-13

Date Collected: 08/26/11 09:05
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.986	11H6469_P	08/30/11 11:08	AMJ	TAL NSH
Total	Analysis	SW846 8015C		1.00	U015656	09/02/11 11:29	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6589_P	08/29/11 09:32	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6589	08/31/11 15:38	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6764_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6764	08/31/11 09:04	RRS	TAL NSH

Client Sample ID: SP-C-2 (0-2)

Lab Sample ID: NUH3820-14

Date Collected: 08/26/11 09:50
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B	RE1	0.970	11H6469_P	08/30/11 11:08	AMJ	TAL NSH
Total	Analysis	SW846 8015C	RE1	200	U015656	09/02/11 18:22	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6586_P	08/29/11 09:31	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6586	08/30/11 15:23	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6763_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6763	08/31/11 09:04	RRS	TAL NSH

Client Sample ID: SP-C-2 (4-6)

Lab Sample ID: NUH3820-15

Date Collected: 08/26/11 09:55
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 75.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.975	11H6469_P	08/30/11 11:08	AMJ	TAL NSH
Total	Analysis	SW846 8015C		1.00	U015656	09/02/11 12:17	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6586_P	08/29/11 09:31	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6586	08/30/11 15:23	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6763_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6763	08/31/11 09:04	RRS	TAL NSH

Client Sample ID: SP-C-4A (4-6)

Lab Sample ID: NUH3820-16

Date Collected: 08/26/11 10:25
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B	RE1	1.98	11H6469_P	08/30/11 11:08	AMJ	TAL NSH
Total	Analysis	SW846 8015C	RE1	100	U015656	09/02/11 17:57	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6586_P	08/29/11 09:31	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6586	08/30/11 15:23	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6763_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6763	08/31/11 09:04	RRS	TAL NSH

Lab Chronicle

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Client Sample ID: SP-C-4A (18-20)

Lab Sample ID: NUH3820-17

Date Collected: 08/26/11 10:30
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.965	11H6469_P	08/30/11 11:08	AMJ	TAL NSH
Total	Analysis	SW846 8015C		1.00	U015656	09/02/11 11:53	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6586_P	08/29/11 09:31	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6586	08/30/11 15:23	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6763_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6763	08/31/11 09:04	RRS	TAL NSH

Client Sample ID: SP-C-4B (8-10)

Lab Sample ID: NUH3820-18

Date Collected: 08/26/11 10:50
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.994	11H6469_P	08/30/11 11:08	AMJ	TAL NSH
Total	Analysis	SW846 8015C		1.00	U015656	09/02/11 13:30	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6586_P	08/29/11 09:31	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6586	08/30/11 15:23	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6763_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6763	08/31/11 09:04	RRS	TAL NSH

Client Sample ID: SP-C-4B (0-2)

Lab Sample ID: NUH3820-19

Date Collected: 08/26/11 11:10
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B	RE1	0.995	11H6469_P	08/30/11 11:08	AMJ	TAL NSH
Total	Analysis	SW846 8015C	RE1	20.0	U015656	09/02/11 15:56	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6586_P	08/29/11 09:31	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6586	08/30/11 15:23	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6763_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6763	08/31/11 09:04	RRS	TAL NSH

Client Sample ID: SP-C-2A (2-4)

Lab Sample ID: NUH3820-20

Date Collected: 08/26/11 11:35
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 77.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.987	11H6469_P	08/30/11 11:08	AMJ	TAL NSH
Total	Analysis	SW846 8015C		1.00	U015656	09/02/11 13:06	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6586_P	08/29/11 09:31	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6586	08/30/11 15:23	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6763_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6763	08/31/11 09:04	RRS	TAL NSH

Lab Chronicle

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Client Sample ID: SP-B-3A (4-6)

Lab Sample ID: NUH3820-21

Date Collected: 08/26/11 12:05
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 67.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B	RE1	1.96	11H6468_P	08/30/11 09:00	AMJ	TAL NSH
Total	Analysis	SW846 8015C	RE1	250	U015425	08/31/11 09:21	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6586_P	08/29/11 09:31	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6586	08/30/11 15:23	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6763_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6763	08/31/11 09:04	RRS	TAL NSH

Client Sample ID: SP-C-3B (4-6)

Lab Sample ID: NUH3820-22

Date Collected: 08/26/11 12:30
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.988	11H6468_P	08/30/11 09:00	AMJ	TAL NSH
Total	Analysis	SW846 8015C		1.00	U015425	08/30/11 23:37	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6586_P	08/29/11 09:31	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6586	08/30/11 15:23	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6763_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6763	08/31/11 09:04	RRS	TAL NSH

Client Sample ID: SP-C-5 (2-4)

Lab Sample ID: NUH3820-23

Date Collected: 08/26/11 12:55
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B	RE2	0.982	11H6468_P	08/30/11 09:00	AMJ	TAL NSH
Total	Analysis	SW846 8015C	RE2	10.0	U015525	08/31/11 22:08	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6586_P	08/29/11 09:31	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6586	08/30/11 15:23	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6763_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6763	08/31/11 09:04	RRS	TAL NSH

Client Sample ID: SP-C-5 (14-16)

Lab Sample ID: NUH3820-24

Date Collected: 08/26/11 13:00
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.965	11H6468_P	08/30/11 09:00	AMJ	TAL NSH
Total	Analysis	SW846 8015C		1.00	U015425	08/31/11 02:20	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6586_P	08/29/11 09:31	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6586	08/30/11 15:23	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6763_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6763	08/31/11 09:04	RRS	TAL NSH

Lab Chronicle

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Client Sample ID: SP-B-3B (2-4)

Lab Sample ID: NUH3820-25

Date Collected: 08/26/11 13:15
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.986	11H6468_P	08/30/11 09:00	AMJ	TAL NSH
Total	Analysis	SW846 8015C		1.00	U015425	08/31/11 02:36	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6586_P	08/29/11 09:31	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6586	08/30/11 15:23	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6763_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6763	08/31/11 09:04	RRS	TAL NSH

Client Sample ID: SP-B-3A (8-10)

Lab Sample ID: NUH3820-26

Date Collected: 08/26/11 12:15
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.988	11H6468_P	08/30/11 09:00	AMJ	TAL NSH
Total	Analysis	SW846 8015C		1.00	U015425	08/31/11 00:10	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6586_P	08/29/11 09:31	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6586	08/30/11 15:23	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6763_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6763	08/31/11 09:04	RRS	TAL NSH

Client Sample ID: SP-C-5A (6-8)

Lab Sample ID: NUH3820-27

Date Collected: 08/26/11 14:45
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		4.84	11H6468_P	08/30/11 09:00	AMJ	TAL NSH
Total	Analysis	SW846 8015C		50.0	U015425	08/31/11 03:24	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6586_P	08/29/11 09:31	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6586	08/30/11 15:23	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6763_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6763	08/31/11 09:04	RRS	TAL NSH

Client Sample ID: SP-C-5A (14-16)

Lab Sample ID: NUH3820-28

Date Collected: 08/26/11 14:50
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.988	11H6468_P	08/30/11 09:00	AMJ	TAL NSH
Total	Analysis	SW846 8015C		1.00	U015425	08/31/11 00:26	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6586_P	08/29/11 09:31	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6586	08/30/11 15:23	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6763_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6763	08/31/11 09:04	RRS	TAL NSH

Lab Chronicle

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Client Sample ID: SP-A-5 (0-2)

Lab Sample ID: NUH3820-30

Date Collected: 08/26/11 15:30
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B	RE1	1.97	11H6468_P	08/30/11 09:00	AMJ	TAL NSH
Total	Analysis	SW846 8015C	RE1	200	U015425	08/31/11 09:04	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6586_P	08/29/11 09:31	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6586	08/30/11 15:23	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6763_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6763	08/31/11 09:04	RRS	TAL NSH

Client Sample ID: SP-A-5 (14-16)

Lab Sample ID: NUH3820-31

Date Collected: 08/26/11 15:35
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.983	11H6468_P	08/30/11 09:00	AMJ	TAL NSH
Total	Analysis	SW846 8015C		1.00	U015425	08/31/11 01:31	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6586_P	08/29/11 09:31	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6586	08/30/11 15:23	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6763_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6763	08/31/11 09:04	RRS	TAL NSH

Client Sample ID: SP-A-2 (4-6)

Lab Sample ID: NUH3820-32

Date Collected: 08/26/11 14:00
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 71.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.992	11H6468_P	08/30/11 09:00	AMJ	TAL NSH
Total	Analysis	SW846 8015C		1.00	U015425	08/31/11 01:47	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6586_P	08/29/11 09:31	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6586	08/30/11 15:23	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6763_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6763	08/31/11 09:04	RRS	TAL NSH

Client Sample ID: SP-A-3A (2-4)

Lab Sample ID: NUH3820-33

Date Collected: 08/26/11 16:15
Matrix: Soil
Date Received: 08/27/11 08:15
Percent Solids: 67.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.987	11H6468_P	08/30/11 09:00	AMJ	TAL NSH
Total	Analysis	SW846 8015C		1.00	U015425	08/31/11 02:03	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11H6586_P	08/29/11 09:31	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11H6586	08/30/11 15:23	JJR	TAL NSH
Total	Prep	% Solids		1.00	11H6763_P	08/30/11 10:27	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H6763	08/31/11 09:04	RRS	TAL NSH

Lab Chronicle

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Method Summary

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Method	Method Description	Protocol	Laboratory
SW-846	General Chemistry Parameters		TAL NSH
SW846 9071B	General Chemistry Parameters		TAL NSH
SW846 8015C	Extractable Petroleum Hydrocarbons		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Certification Summary

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUH3820

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
TestAmerica Nashville	AIHA	IHLAP		100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	CALA	CALA		3744
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	NELAC Secondary AB	3	460152
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

COOLER RE(

NUH3820

Cooler Received/Opened On 8/27/2011 @ 0815

1. Tracking # 4109 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 97460373

2. Temperature of rep. sample or temp blank when opened: 2.6 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1 (front)

5. Were the seals intact, signed, and dated correctly? Rubbed off. YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) DA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) DA

I certify that I attached a label with the unique LIMS number to each container (intial) DA

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#_____

BIS = Broken in shipment

Cooler Receipt Form.doc

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOL

NUH3820
09/06/11 23 59

Cooler Received/Opened On 8/27/2011 @ 0815

1. Tracking # 4110 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 97310166

2. Temperature of rep. sample or temp blank when opened: 5.6 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: one front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA DA 8-27-11

I certify that I opened the cooler and answered questions 1-6 (intial) DA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None DA 8-27-11

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) DA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) DA

I certify that I attached a label with the unique LIMS number to each container (intial) DA

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
Revised 6/24/09

[redacted]

Chain of Custody Record

NUH3820
09/06/11 23 59

TAL-4124 (1007)

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

09/06/2011

Client: Hart + Hickman

Address: 2923 S Tryon ST

City: Charlotte | State: NC | Zip Code: 28203

Project Manager: Steve Hart cc jlopez@hathickman.com shart@hathickman.com

Telephone Number (Area Code)/Fax Number: 704-376 0007

Site Contact: SRC

Lab Contact:

Date:

Lab Number:

Chain of Custody Number: 18291A

Page 1 of 3

Project Name and Location (State): Volvo Asheville NC

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.: PPA-040

Analysis (Attach list if more space is needed): TPH-DRO 8015; 046 9071B

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TPH-DRO 8015	046 9071B
1 SP-B-2A (4-6)	82511	1025				X	X						X	X
2 SP-B-2 (8-10)		1050				X	X						X	X
3 SP-B-3 (4-6)		1110				X	X						X	X
4 SP-B-3 (12-14)		1115				X	X						X	X
5 SP-B-4 (6-8)		1130				X	X						X	X
6 SP-B-5 (2-4)		1150				X	X						X	X
7 SP-B-5 (6-8)		1155				X	X						X	X
8 SP-C-3A (10-12)		1700				X	X						X	X
9 SP-C-3A (2-4)		1705				X	X						X	X
10 SP-C-4 (2-4)		1745				X	X						X	X
11 SP-C-4 (12-14)		1750				X	X						X	X

Special Instructions/Conditions of Receipt: Complete all by STD 5 day TAT

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 5 day STD

QC Requirements (Specify):

	Date	Time
1. Relinquished By	82611	1730
2. Relinquished By		
3. Relinquished By		

	Date	Time
1. Received By		
2. Received By		
3. Received By	8-27-11	0815

Comments: Temp 5.6 and 2.6

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

[redacted]

Chain of Custody Record

NUH3820
09/06/11 23 59

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

09/06/2011

TAL 4124 (1007)

Client: Hart + Hickman

Address:

City: | State: | Zip Code:

Project Manager:

Telephone Number (Area Code) Fax Number:

Site Contact: | Lab Contact:

Date:

Chain of Custody Number:

Lab Number:

Page 2 of 3

Project Name and Location (State): Volvo

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.: SPA-040

Analysis (Attach list if more space is needed): TPH DRO 8015 / OHG 9071B

Special Instructions/ Conditions of Receipt

	Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	TPH DRO 8015	OHG 9071B
12	~~AH~~ SP-C-3 (18-20)	82611	900				X	X						X	X
13	SP-C-3 (22-24)	↓	905				X	X						X	X
14	SP-C-2 (0-2)		950				X	X						X	X
15	SP-C-2 (4-6)		955				X	X						X	X
16	SP-C-4A (4-6)		1025				X	X						X	X
17	SP-C-4A (18-20)		1030				X	X						X	X
18	SP-C-4B (8-10)		1050				X	X						X	X
19	SP-C-4B (0-2)		1110				X	X						X	X
20	SP-C-2A (2-4)		1135				X	X						X	X
21	SP-B-3A (4-6)		1205				X	X						X	X
22	SP-C-3B (4-6)		1230				X	X						X	X
23	SP-C-5 (2-4)		1255				X	X						X	X

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 5 day

QC Requirements (Specify):

		Date	Time
1. Relinquished By	[signature]	82611	1730
2. Relinquished By			
3. Relinquished By			

		Date	Time
1. Received By			
2. Received By			
3. Received By	[signature] / TA	8-27-11	0815

Comments: Temp 5.6 and 2.6

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

NUH3820
09/06/11 23 59

~~Temperature on Receipt~~ _____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

09/06/2011

TAL-4124 (1007)

Client: Hart Hickman

Project Manager:

Date:

Chain of Custody Number:

Address:

Telephone Number (Area Code)/Fax Number:

Lab Number:

City: State: Zip Code:

Site Contact:

Lab Contact:

Page 3 of 3

Project Name and Location (State): Utah

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.: PPA-040

Analysis (Attach list if more space is needed): TPH DRO 8015; 8021 B

Special Instructions/ Conditions of Receipt

	Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	TPH DRO 8015	8021 B
24	SP-C-5 (14-16)	8/26/11	1300				X	X						X	X
25	SP-B-3B (2-4)	8/26/11	1315				X	X						X	X
26	SP-B-3A (8-10)	↓	1215				X	X						X	X
27	SP-C-5A (6-8)		1445				X	X						X	X
28	SP-C-5A (14-16)		1450				X	X						X	X
29	SP-B-4A (4-6)		1515				X	X						X	X
30	SP-A-5 (0-2)		1530				X	X						X	X
31	SP-A-5 (14-16)		1535				X	X						X	X
32	SP-A-2 (4-6)		1400				X	X						X	X
33	SP-A-3A (2-4)	↓	1615				X	X						X	X

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 5 day

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By	8/26/11	1730	1. Received By		
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By	8-27-11	0815

Comments: Temp 5.6 and 2.6

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

September 07, 2011 3:43:49PM

Client: Hart & Hickman (2162)
2923 South Tryon Street, Suite 100
Charlotte, NC 28203-5449
Attn: Steve Hart

Work Order: NUH4042
Project Name: Volvo - Ashville, NC
Project Nbr: PPA-040
P/O Nbr:
Date Received: 08/30/11

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
SPA-3 (8-10)	NUH4042-01	08/26/11 17:30

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

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North Carolina Certification Number: 387

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.
Estimated uncertainty is available upon request.
This report has been electronically signed.
Report Approved By:

Roxanne L. Connor

Roxanne Connor

Program Manager - Conventional Accounts

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Hart & Hickman (2162)	Work Order:	NUH4042
	2923 South Tryon Street, Suite 100	Project Name:	Volvo - Ashville, NC
	Charlotte, NC 28203-5449	Project Number:	PPA-040
Attn	Steve Hart	Received:	08/30/11 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NUH4042-01 (SPA-3 (8-10) - Soil) Sampled: 08/26/11 17:30								
General Chemistry Parameters								
% Dry Solids	**84.5**		%	0.500	1	08/31/11 12:55	SW-846	11H7043
Oil & Grease (HEM)	**395**		mg/kg dry	59.2	1	09/06/11 14:53	SW846 9071B	11H6172
Extractable Petroleum Hydrocarbons								
Diesel	**116**		mg/kg dry	5.88	1	09/02/11 05:18	SW846 8015C	11H6929
Surr: o-Terphenyl (53-140%)	*48 %*	*ZX*				*09/02/11 05:18*	*SW846 8015C*	*11H6929*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Hart & Hickman (2162)	Work Order:	NUH4042
	2923 South Tryon Street, Suite 100	Project Name:	Volvo - Ashville, NC
	Charlotte, NC 28203-5449	Project Number:	PPA-040
Attn	Steve Hart	Received:	08/30/11 08:00

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extract Vol	Date	Analyst	Extraction Method
Extractable Petroleum Hydrocarbons							
SW846 8015C	11H6929	NUH4042-01	25.14	1.00	08/31/11 08:13	JJR	EPA 3550B
General Chemistry Parameters							
SW846 9071B	11H6172	NUH4042-01	10.00	1.00	09/03/11 13:05	JJR	EPA 9071B-Soil

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Hart & Hickman (2162)	Work Order:	NUH4042
	2923 South Tryon Street, Suite 100	Project Name:	Volvo - Ashville, NC
	Charlotte, NC 28203-5449	Project Number:	PPA-040
Attn	Steve Hart	Received:	08/30/11 08:00

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
General Chemistry Parameters						
11H6172-BLK1						
Oil & Grease (HEM)	<33.0		mg/kg wet	11H6172	11H6172-BLK1	09/06/11 14:53
Extractable Petroleum Hydrocarbons						
11H6929-BLK1						
Diesel	1.32		mg/kg wet	11H6929	11H6929-BLK1	09/02/11 04:30
Surrogate: o-Terphenyl	89%			11H6929	11H6929-BLK1	09/02/11 04:30

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Hart & Hickman (2162)	Work Order:	NUH4042
	2923 South Tryon Street, Suite 100	Project Name:	Volvo - Ashville, NC
	Charlotte, NC 28203-5449	Project Number:	PPA-040
Attn	Steve Hart	Received:	08/30/11 08:00

PROJECT QUALITY CONTROL DATA
Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
General Chemistry Parameters										
11H6172-DUP1										
Oil & Grease (HEM)	331	228	R2	mg/kg wet	37	20	11H6172	NUH3476-01		09/06/11 14:53
11H7043-DUP1										
% Dry Solids	79.8	79.1		%	0.8	20	11H7043	NUH2894-09		08/31/11 12:55

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Hart & Hickman (2162)	Work Order:	NUH4042
	2923 South Tryon Street, Suite 100	Project Name:	Volvo - Ashville, NC
	Charlotte, NC 28203-5449	Project Number:	PPA-040
Attn	Steve Hart	Received:	08/30/11 08:00

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
General Chemistry Parameters								
11H6172-BS1								
Oil & Grease (HEM)	4000	3790		mg/kg	95%	72 - 117	11H6172	09/06/11 14:53
Extractable Petroleum Hydrocarbons								
11H6929-BS1								
Diesel	40.0	38.0	MNR	mg/kg wet	95%	65 - 127	11H6929	09/02/11 04:54
Surrogate: o-Terphenyl	0.800	0.616			77%	53 - 140	11H6929	09/02/11 04:54

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Hart & Hickman (2162)	Work Order:	NUH4042
	2923 South Tryon Street, Suite 100	Project Name:	Volvo - Ashville, NC
	Charlotte, NC 28203-5449	Project Number:	PPA-040
Attn	Steve Hart	Received:	08/30/11 08:00

PROJECT QUALITY CONTROL DATA
Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
General Chemistry Parameters										
11H6172-MS1										
Oil & Grease (HEM)	331	3460		mg/kg	4000	78%	67 - 114	11H6172	NUH3476-01	09/06/11 14:53

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Hart & Hickman (2162)	Work Order:	NUH4042
	2923 South Tryon Street, Suite 100	Project Name:	Volvo - Ashville, NC
	Charlotte, NC 28203-5449	Project Number:	PPA-040
Attn	Steve Hart	Received:	08/30/11 08:00

CERTIFICATION SUMMARY

TestAmerica Nashville

Method	Matrix	AIHA	Nelac	North Carolina
SW846 8015C	Soil		X	X
SW846 9071B	Soil	N/A	X	X
SW-846	Soil			

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Hart & Hickman (2162)	Work Order:	NUH4042
	2923 South Tryon Street, Suite 100	Project Name:	Volvo - Ashville, NC
	Charlotte, NC 28203-5449	Project Number:	PPA-040
Attn	Steve Hart	Received:	08/30/11 08:00

DATA QUALIFIERS AND DEFINITIONS

MNR	No results were reported for the MS/MSD. The sample used for the MS/MSD required dilution due to the sample matrix. Because of this, the spike compounds were diluted below the detection limit.
R2	The RPD exceeded the acceptance limit.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
ND	Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

COOLER REC

NUH4042

Cooler Received/Opened On 8/30/2011 @ 0800

1. Tracking # 1075 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 97460373

2. Temperature of rep. sample or temp blank when opened: 2.4 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) EB

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) EB

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) EB

I certify that I attached a label with the unique LIMS number to each container (intial) EB

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#_____

BIS = Broken in shipment

Cooler Receipt Form.doc

LF-1

End of Form

Revised 6/24/09

[redacted]

Chain of Custody Record

NUH4042
09/07/11 23 59

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL 4124 (1007)

Client: Hart + Hickman	Project Manager: Steve Hart	Date:	Chain of Custody Number: 19[illegible]
Address: 2923 S Tryon St	Telephone Number (Area Code)/Fax Number:	Lab Number:	Page _____ of _____
City: Charlotte; State: NC; Zip Code: 28203	Site Contact: SRI	Lab Contact:	
Project Name and Location (State): Volvo Asheville NC	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: PPA040			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): TPH DRO	Oil + Grease										Special Instructions/ Conditions of Receipt
SPA-3 (6-10)	8/26/11	1730				X		X							X	X										
															X	X										

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: [signature]	8/29/11	1530	1. Received By: Lydia Crawford	8/29/11	16:15
2. Relinquished By: Lydia Crawford	8/29/11	16:15	2. Received By:		
3. Relinquished By:			3. Received By: James Brothers	8/30/11	8:00

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NUI1514
Client Project/Site: PPA-040
Client Project Description: Volvo - Ashville, NC

For:
Hart & Hickman (2162)
2923 South Tryon Street, Suite 100
Charlotte, NC 28203-5449

Attn: Steve Hart

Authorized for release by:
09/23/2011 03:46:33 PM

Ken A. Hayes
Senior Project Manager
ken.hayes@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Definitions 4
Client Sample Results 5
QC Sample Results 12
QC Association 15
Chronicle 19
Method Summary 24
Certification Summary 25
Chain of Custody 26

Sample Summary

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUI1514

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUI1514-01	SP-A-5A (4-6)	Soil	09/09/11 09:15	09/13/11 08:35
NUI1514-02	SP-A-4 (6-8)	Soil	09/09/11 09:50	09/13/11 08:35
NUI1514-03	SP-C-5B (2-4)	Soil	09/09/11 10:40	09/13/11 08:35
NUI1514-04	SP-C-5B (14-15)	Soil	09/09/11 10:45	09/13/11 08:35
NUI1514-05	SP-D-2 (2-4)	Soil	09/09/11 11:40	09/13/11 08:35
NUI1514-06	SP-D-3 (6-8)	Soil	09/09/11 12:05	09/13/11 08:35
NUI1514-07	SP-D-3 (18-20)	Soil	09/09/11 12:55	09/13/11 08:35
NUI1514-08	SP-B-2B (0-2)	Soil	09/09/11 13:15	09/13/11 08:35
NUI1514-09	SP-B-2B (18-20)	Soil	09/09/11 13:20	09/13/11 08:35
NUI1514-10	SP-C-5C (4-6)	Soil	09/09/11 13:40	09/13/11 08:35
NUI1514-11	SP-C-5C (14-16)	Soil	09/09/11 13:45	09/13/11 08:35
NUI1514-12	SP-C-6A (4-6)	Soil	09/09/11 14:05	09/13/11 08:35
NUI1514-13	SP-C-6A (8-10)	Soil	09/09/11 14:10	09/13/11 08:35
NUI1514-14	SP-B-5A (4-6)	Soil	09/09/11 14:25	09/13/11 08:35
NUI1514-15	SP-B-3 (18-20)	Soil	09/09/11 14:55	09/13/11 08:35
NUI1514-16	SP-C-6 (8-10)	Soil	09/09/11 16:00	09/13/11 08:35
NUI1514-17	SP-C-6 (14-16)	Soil	09/09/11 16:05	09/13/11 08:35
NUI1514-18	SP-B-6B (2-4)	Soil	09/09/11 16:15	09/13/11 08:35
NUI1514-19	SP-D-3A (2-4)	Soil	09/09/11 16:40	09/13/11 08:35

Definitions/Glossary

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUI1514

Qualifiers

GC Semivolatiles

Qualifier	Qualifier Description
B	Analyte was detected in the associated Method Blank.
B1	Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUI1514

Client Sample ID: SP-A-5A (4-6)

Lab Sample ID: NUI1514-01
Date Collected: 09/09/11 09:15
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 92.7

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND	B	5.36		mg/kg dry	☼	09/14/11 12:49	09/14/11 18:15	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*50 - 150*	*09/14/11 12:49*	*09/14/11 18:15*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		53.9		mg/kg dry	☼	09/21/11 10:45	09/23/11 14:57	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**92.7**		0.500		%		09/14/11 09:58	09/15/11 08:03	1.00

Client Sample ID: SP-A-4 (6-8)

Lab Sample ID: NUI1514-02
Date Collected: 09/09/11 09:50
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 73.6

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND	B	6.63		mg/kg dry	☼	09/14/11 12:49	09/14/11 18:31	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*50 - 150*	*09/14/11 12:49*	*09/14/11 18:31*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		67.9		mg/kg dry	☼	09/14/11 10:09	09/19/11 12:22	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**73.6**		0.500		%		09/14/11 09:58	09/15/11 08:03	1.00

Client Sample ID: SP-C-5B (2-4)

Lab Sample ID: NUI1514-03
Date Collected: 09/09/11 10:40
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 75.2

Method: SW846 8015C - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**14700**	**B1 B**	1310		mg/kg dry	☼	09/14/11 12:49	09/15/11 09:11	100

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl		*Z3*	*50 - 150*	*09/14/11 12:49*	*09/15/11 09:11*	*100*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	**31100**		66.5		mg/kg dry	☼	09/14/11 10:09	09/19/11 12:22	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**75.2**		0.500		%		09/14/11 09:58	09/15/11 08:03	1.00

Client Sample Results

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUI1514

Client Sample ID: SP-C-5B (14-15)

Lab Sample ID: NUI1514-04
Date Collected: 09/09/11 10:45
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 68.3

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND	B	7.17		mg/kg dry	☼	09/14/11 12:49	09/15/11 08:23	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*50 - 150*	*09/14/11 12:49*	*09/15/11 08:23*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		73.3		mg/kg dry	☼	09/14/11 10:09	09/19/11 12:22	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**68.3**		0.500		%		09/14/11 09:58	09/15/11 08:03	1.00

Client Sample ID: SP-D-2 (2-4)

Lab Sample ID: NUI1514-05
Date Collected: 09/09/11 11:40
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 72

Method: SW846 8015C - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**16.0**		6.87		mg/kg dry	☼	09/16/11 09:59	09/16/11 20:41	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*50 - 150*	*09/16/11 09:59*	*09/16/11 20:41*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		69.4		mg/kg dry	☼	09/14/11 10:09	09/19/11 12:22	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**72.0**		0.500		%		09/14/11 09:58	09/15/11 08:03	1.00

Client Sample ID: SP-D-3 (6-8)

Lab Sample ID: NUI1514-06
Date Collected: 09/09/11 12:05
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 80.4

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND	B	6.18		mg/kg dry	☼	09/14/11 12:49	09/14/11 19:35	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*50 - 150*	*09/14/11 12:49*	*09/14/11 19:35*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		62.2		mg/kg dry	☼	09/14/11 10:09	09/19/11 12:22	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**80.4**		0.500		%		09/14/11 09:58	09/15/11 08:03	1.00

Client Sample Results

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUI1514

Client Sample ID: SP-D-3 (18-20)

Lab Sample ID: NUI1514-07
Date Collected: 09/09/11 12:55
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 72.8

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND	B	6.84		mg/kg dry	☼	09/14/11 12:49	09/14/11 19:51	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*50 - 150*	*09/14/11 12:49*	*09/14/11 19:51*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		68.7		mg/kg dry	☼	09/14/11 10:09	09/19/11 12:22	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**72.8**		0.500		%		09/14/11 09:58	09/15/11 08:03	1.00

Client Sample ID: SP-B-2B (0-2)

Lab Sample ID: NUI1514-08
Date Collected: 09/09/11 13:15
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 76.2

Method: SW846 8015C - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**1100**	**B1 B**	160		mg/kg dry	☼	09/14/11 12:49	09/15/11 09:27	25.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*707*	*Z3*	*50 - 150*	*09/14/11 12:49*	*09/15/11 09:27*	*25.0*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	**874**		65.6		mg/kg dry	☼	09/14/11 10:09	09/19/11 12:22	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**76.2**		0.500		%		09/14/11 09:58	09/15/11 08:03	1.00

Client Sample ID: SP-B-2B (18-20)

Lab Sample ID: NUI1514-09
Date Collected: 09/09/11 13:20
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 73.7

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND	B	6.67		mg/kg dry	☼	09/14/11 12:49	09/15/11 08:55	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*50 - 150*	*09/14/11 12:49*	*09/15/11 08:55*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		67.9		mg/kg dry	☼	09/14/11 10:09	09/19/11 12:22	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**73.7**		0.500		%		09/14/11 09:58	09/15/11 08:03	1.00

Client Sample Results

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUI1514

Client Sample ID: SP-C-5C (4-6)

Lab Sample ID: NUI1514-10
Date Collected: 09/09/11 13:40
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 70

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND	B	7.09		mg/kg dry	☼	09/14/11 12:49	09/14/11 20:39	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*09/14/11 12:49*	*09/14/11 20:39*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	**650**		71.5		mg/kg dry	☼	09/14/11 10:09	09/19/11 12:22	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**70.0**		0.500		%		09/14/11 09:58	09/15/11 08:03	1.00

Client Sample ID: SP-C-5C (14-16)

Lab Sample ID: NUI1514-11
Date Collected: 09/09/11 13:45
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 74.9

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND	B	6.52		mg/kg dry	☼	09/14/11 12:49	09/14/11 21:27	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*50 - 150*	*09/14/11 12:49*	*09/14/11 21:27*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		66.8		mg/kg dry	☼	09/14/11 10:09	09/19/11 12:22	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**74.9**		0.500		%		09/14/11 09:58	09/15/11 08:03	1.00

Client Sample ID: SP-C-6A (4-6)

Lab Sample ID: NUI1514-12
Date Collected: 09/09/11 14:05
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 74.1

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND	B	6.72		mg/kg dry	☼	09/14/11 12:49	09/14/11 21:43	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*50 - 150*	*09/14/11 12:49*	*09/14/11 21:43*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		67.5		mg/kg dry	☼	09/14/11 10:09	09/19/11 12:22	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**74.1**		0.500		%		09/14/11 09:58	09/15/11 08:03	1.00

Client Sample Results

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUI1514

Client Sample ID: SP-C-6A (8-10)

Lab Sample ID: NUI1514-13
Date Collected: 09/09/11 14:10
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 67.6

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND	B	7.11		mg/kg dry	☼	09/14/11 12:49	09/14/11 21:59	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*50 - 150*	*09/14/11 12:49*	*09/14/11 21:59*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		73.9		mg/kg dry	☼	09/14/11 10:09	09/19/11 12:22	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**67.6**		0.500		%		09/14/11 09:58	09/15/11 08:03	1.00

Client Sample ID: SP-B-5A (4-6)

Lab Sample ID: NUI1514-14
Date Collected: 09/09/11 14:25
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 70.5

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND	B	6.99		mg/kg dry	☼	09/14/11 12:49	09/14/11 22:16	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*09/14/11 12:49*	*09/14/11 22:16*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		71.0		mg/kg dry	☼	09/14/11 10:09	09/19/11 12:22	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**70.5**		0.500		%		09/14/11 09:58	09/15/11 08:03	1.00

Client Sample ID: SP-B-3 (18-20)

Lab Sample ID: NUI1514-15
Date Collected: 09/09/11 14:55
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 66.8

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND	B	7.46		mg/kg dry	☼	09/14/11 12:49	09/14/11 22:32	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*50 - 150*	*09/14/11 12:49*	*09/14/11 22:32*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		74.8		mg/kg dry	☼	09/14/11 10:09	09/19/11 12:22	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**66.8**		0.500		%		09/14/11 09:58	09/15/11 08:03	1.00

Client Sample Results

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUI1514

Client Sample ID: SP-C-6 (8-10)

Lab Sample ID: NUI1514-16
Date Collected: 09/09/11 16:00
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 72.2

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND	B	6.80		mg/kg dry	☼	09/14/11 12:49	09/14/11 22:48	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*50 - 150*	*09/14/11 12:49*	*09/14/11 22:48*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		69.2		mg/kg dry	☼	09/14/11 10:09	09/19/11 12:22	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**72.2**		0.500		%		09/14/11 09:58	09/15/11 08:03	1.00

Client Sample ID: SP-C-6 (14-16)

Lab Sample ID: NUI1514-17
Date Collected: 09/09/11 16:05
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 70.6

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND	B	6.91		mg/kg dry	☼	09/14/11 12:49	09/14/11 23:04	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*09/14/11 12:49*	*09/14/11 23:04*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		70.9		mg/kg dry	☼	09/14/11 10:09	09/19/11 12:22	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**70.6**		0.500		%		09/14/11 09:58	09/15/11 08:03	1.00

Client Sample ID: SP-B-6B (2-4)

Lab Sample ID: NUI1514-18
Date Collected: 09/09/11 16:15
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 69

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND	B	7.10		mg/kg dry	☼	09/14/11 12:49	09/14/11 23:20	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*50 - 150*	*09/14/11 12:49*	*09/14/11 23:20*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		72.5		mg/kg dry	☼	09/14/11 10:09	09/19/11 12:22	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**69.0**		0.500		%		09/14/11 09:58	09/15/11 08:03	1.00

Client Sample Results

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUI1514

Client Sample ID: SP-D-3A (2-4)

Date Collected: 09/09/11 16:40
Date Received: 09/13/11 08:35

Lab Sample ID: NUI1514-19

Matrix: Soil
Percent Solids: 79.9

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND	B	6.22		mg/kg dry	☼	09/14/11 12:49	09/14/11 23:36	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*09/14/11 12:49*	*09/14/11 23:36*	*1.00*

Method: SW846 9071B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	**73.7**		62.6		mg/kg dry	☼	09/14/11 10:09	09/19/11 12:22	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**79.9**		0.500		%		09/14/11 09:58	09/15/11 08:03	1.00

QC Sample Results

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUI1514

Method: SW846 8015C - Extractable Petroleum Hydrocarbons

Lab Sample ID: 11I2561-BLK1 — **Client Sample ID: Method Blank**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: U016280 — **Prep Batch: 11I2561_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	9.37	B	5.00		mg/kg wet		09/14/11 12:49	09/15/11 08:07	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*50 - 150*	*09/14/11 12:49*	*09/15/11 08:07*	*1.00*

Lab Sample ID: 11I2561-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: U016280 — **Prep Batch: 11I2561_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Diesel			40.0	40.8	B	mg/kg wet		102	54 - 130		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*93*		*50 - 150*

Lab Sample ID: 11I2561-MS1 — **Client Sample ID: SP-A-5A (4-6)**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: U016280 — **Prep Batch: 11I2561_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
Diesel	ND	B	42.5	38.9	B	mg/kg dry	☼	91	10 - 142		

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
o-Terphenyl	*76*		*50 - 150*

Lab Sample ID: 11I2561-MSD1 — **Client Sample ID: SP-A-5A (4-6)**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: U016280 — **Prep Batch: 11I2561_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Diesel	ND	B	42.6	42.2	B	mg/kg dry	☼	99	10 - 142	8	47

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
o-Terphenyl	*82*		*50 - 150*

Lab Sample ID: 11I3063-BLK1 — **Client Sample ID: Method Blank**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: U016414 — **Prep Batch: 11I3063_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		5.00		mg/kg wet		09/16/11 09:59	09/16/11 19:05	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*50 - 150*	*09/16/11 09:59*	*09/16/11 19:05*	*1.00*

Method: SW846 8015C - Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: 11I3063-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: U016414 — **Prep Batch: 11I3063_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Diesel			40.0	36.0		mg/kg wet		90	54 - 130		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*69*		*50 - 150*

Lab Sample ID: 11I3063-MS1 — **Client Sample ID: SP-D-2 (2-4)**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: U016414 — **Prep Batch: 11I3063_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
Diesel	16.0		54.2	61.1		mg/kg dry	☼	83	10 - 142		

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
o-Terphenyl	*78*		*50 - 150*

Lab Sample ID: 11I3063-MSD1 — **Client Sample ID: SP-D-2 (2-4)**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: U016414 — **Prep Batch: 11I3063_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Diesel	16.0		54.0	54.1		mg/kg dry	☼	71	10 - 142	12	47

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
o-Terphenyl	*73*		*50 - 150*

Method: SW-846 - General Chemistry Parameters

Lab Sample ID: 11I2477-DUP1 — **Client Sample ID: Duplicate**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11I2477 — **Prep Batch: 11I2477_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
% Dry Solids	81.4			80.4		%				1	20

Lab Sample ID: 11I2478-DUP1 — **Client Sample ID: Duplicate**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11I2478 — **Prep Batch: 11I2478_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
% Dry Solids	86.2			86.3		%				0.1	20

Method: SW846 9071B - General Chemistry Parameters

Lab Sample ID: 11I2549-BLK1 — **Client Sample ID: Method Blank**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11I2549 — **Prep Batch: 11I2549_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		50.0		mg/kg wet		09/14/11 10:09	09/19/11 12:22	1.00

QC Sample Results

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUI1514

Lab Sample ID: 11I2549-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11I2549 — **Prep Batch: 11I2549_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Oil & Grease (HEM)	4000	3620		mg/kg		90	72 - 117

Lab Sample ID: 11I2549-MS1 — **Client Sample ID: SP-C-6 (14-16)**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11I2549 — **Prep Batch: 11I2549_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Oil & Grease (HEM)	37.4		4000	3790		mg/kg	☼	94	67 - 114

Lab Sample ID: 11I2549-DUP1 — **Client Sample ID: SP-C-6 (14-16)**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11I2549 — **Prep Batch: 11I2549_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Oil & Grease (HEM)	53.1		ND		mg/kg dry	☼		20

Lab Sample ID: 11I4043-BLK1 — **Client Sample ID: Method Blank**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11I4043 — **Prep Batch: 11I4043_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		50.0		mg/kg wet		09/21/11 10:45	09/23/11 14:57	1.00

Lab Sample ID: 11I4043-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11I4043 — **Prep Batch: 11I4043_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Oil & Grease (HEM)	4000	3650		mg/kg		91	72 - 117

Lab Sample ID: 11I4043-MS1 — **Client Sample ID: SP-A-5A (4-6)**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11I4043 — **Prep Batch: 11I4043_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Oil & Grease (HEM)	ND		4000	3290		mg/kg	☼	82	67 - 114

Lab Sample ID: 11I4043-DUP1 — **Client Sample ID: SP-A-5A (4-6)**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11I4043 — **Prep Batch: 11I4043_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Oil & Grease (HEM)	ND		99.5		mg/kg dry	☼		20

QC Association Summary

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUI1514

GC Semivolatiles

Analysis Batch: U016280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I2561-BLK1	Method Blank	Total	Soil	SW846 8015C	11I2561_P
11I2561-BS1	Lab Control Sample	Total	Soil	SW846 8015C	11I2561_P
11I2561-MS1	SP-A-5A (4-6)	Total	Soil	SW846 8015C	11I2561_P
11I2561-MSD1	SP-A-5A (4-6)	Total	Soil	SW846 8015C	11I2561_P
NUI1514-01	SP-A-5A (4-6)	Total	Soil	SW846 8015C	11I2561_P
NUI1514-02	SP-A-4 (6-8)	Total	Soil	SW846 8015C	11I2561_P
NUI1514-03 - RE1	SP-C-5B (2-4)	Total	Soil	SW846 8015C	11I2561_P
NUI1514-04	SP-C-5B (14-15)	Total	Soil	SW846 8015C	11I2561_P
NUI1514-06	SP-D-3 (6-8)	Total	Soil	SW846 8015C	11I2561_P
NUI1514-07	SP-D-3 (18-20)	Total	Soil	SW846 8015C	11I2561_P
NUI1514-08 - RE1	SP-B-2B (0-2)	Total	Soil	SW846 8015C	11I2561_P
NUI1514-09	SP-B-2B (18-20)	Total	Soil	SW846 8015C	11I2561_P
NUI1514-10	SP-C-5C (4-6)	Total	Soil	SW846 8015C	11I2561_P
NUI1514-11	SP-C-5C (14-16)	Total	Soil	SW846 8015C	11I2561_P
NUI1514-12	SP-C-6A (4-6)	Total	Soil	SW846 8015C	11I2561_P
NUI1514-13	SP-C-6A (8-10)	Total	Soil	SW846 8015C	11I2561_P
NUI1514-14	SP-B-5A (4-6)	Total	Soil	SW846 8015C	11I2561_P
NUI1514-15	SP-B-3 (18-20)	Total	Soil	SW846 8015C	11I2561_P
NUI1514-16	SP-C-6 (8-10)	Total	Soil	SW846 8015C	11I2561_P
NUI1514-17	SP-C-6 (14-16)	Total	Soil	SW846 8015C	11I2561_P
NUI1514-18	SP-B-6B (2-4)	Total	Soil	SW846 8015C	11I2561_P
NUI1514-19	SP-D-3A (2-4)	Total	Soil	SW846 8015C	11I2561_P

Analysis Batch: U016414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I3063-BLK1	Method Blank	Total	Soil	SW846 8015C	11I3063_P
11I3063-BS1	Lab Control Sample	Total	Soil	SW846 8015C	11I3063_P
11I3063-MS1	SP-D-2 (2-4)	Total	Soil	SW846 8015C	11I3063_P
11I3063-MSD1	SP-D-2 (2-4)	Total	Soil	SW846 8015C	11I3063_P
NUI1514-05 - RE1	SP-D-2 (2-4)	Total	Soil	SW846 8015C	11I3063_P

Prep Batch: 11I2561_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I2561-BLK1	Method Blank	Total	Soil	EPA 3550C	
11I2561-BS1	Lab Control Sample	Total	Soil	EPA 3550C	
11I2561-MS1	SP-A-5A (4-6)	Total	Soil	EPA 3550C	
11I2561-MSD1	SP-A-5A (4-6)	Total	Soil	EPA 3550C	
NUI1514-01	SP-A-5A (4-6)	Total	Soil	EPA 3550C	
NUI1514-02	SP-A-4 (6-8)	Total	Soil	EPA 3550C	
NUI1514-03 - RE1	SP-C-5B (2-4)	Total	Soil	EPA 3550C	
NUI1514-04	SP-C-5B (14-15)	Total	Soil	EPA 3550C	
NUI1514-06	SP-D-3 (6-8)	Total	Soil	EPA 3550C	
NUI1514-07	SP-D-3 (18-20)	Total	Soil	EPA 3550C	
NUI1514-08 - RE1	SP-B-2B (0-2)	Total	Soil	EPA 3550C	
NUI1514-09	SP-B-2B (18-20)	Total	Soil	EPA 3550C	
NUI1514-10	SP-C-5C (4-6)	Total	Soil	EPA 3550C	
NUI1514-11	SP-C-5C (14-16)	Total	Soil	EPA 3550C	
NUI1514-12	SP-C-6A (4-6)	Total	Soil	EPA 3550C	
NUI1514-13	SP-C-6A (8-10)	Total	Soil	EPA 3550C	
NUI1514-14	SP-B-5A (4-6)	Total	Soil	EPA 3550C	
NUI1514-15	SP-B-3 (18-20)	Total	Soil	EPA 3550C	
NUI1514-16	SP-C-6 (8-10)	Total	Soil	EPA 3550C	

QC Association Summary

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUI1514

GC Semivolatiles (Continued)

Prep Batch: 11I2561_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUI1514-17	SP-C-6 (14-16)	Total	Soil	EPA 3550C	
NUI1514-18	SP-B-6B (2-4)	Total	Soil	EPA 3550C	
NUI1514-19	SP-D-3A (2-4)	Total	Soil	EPA 3550C	

Prep Batch: 11I3063_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I3063-BLK1	Method Blank	Total	Soil	EPA 3550C	
11I3063-BS1	Lab Control Sample	Total	Soil	EPA 3550C	
11I3063-MS1	SP-D-2 (2-4)	Total	Soil	EPA 3550C	
11I3063-MSD1	SP-D-2 (2-4)	Total	Soil	EPA 3550C	
NUI1514-05 - RE1	SP-D-2 (2-4)	Total	Soil	EPA 3550C	

Extractions

Analysis Batch: 11I2477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I2477-DUP1	Duplicate	Total	Soil	SW-846	11I2477_P
NUI1514-08	SP-B-2B (0-2)	Total	Soil	SW-846	11I2477_P
NUI1514-09	SP-B-2B (18-20)	Total	Soil	SW-846	11I2477_P
NUI1514-10	SP-C-5C (4-6)	Total	Soil	SW-846	11I2477_P
NUI1514-11	SP-C-5C (14-16)	Total	Soil	SW-846	11I2477_P
NUI1514-12	SP-C-6A (4-6)	Total	Soil	SW-846	11I2477_P
NUI1514-13	SP-C-6A (8-10)	Total	Soil	SW-846	11I2477_P
NUI1514-14	SP-B-5A (4-6)	Total	Soil	SW-846	11I2477_P
NUI1514-15	SP-B-3 (18-20)	Total	Soil	SW-846	11I2477_P
NUI1514-16	SP-C-6 (8-10)	Total	Soil	SW-846	11I2477_P
NUI1514-17	SP-C-6 (14-16)	Total	Soil	SW-846	11I2477_P
NUI1514-18	SP-B-6B (2-4)	Total	Soil	SW-846	11I2477_P
NUI1514-19	SP-D-3A (2-4)	Total	Soil	SW-846	11I2477_P

Analysis Batch: 11I2478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I2478-DUP1	Duplicate	Total	Soil	SW-846	11I2478_P
NUI1514-01	SP-A-5A (4-6)	Total	Soil	SW-846	11I2478_P
NUI1514-02	SP-A-4 (6-8)	Total	Soil	SW-846	11I2478_P
NUI1514-03	SP-C-5B (2-4)	Total	Soil	SW-846	11I2478_P
NUI1514-04	SP-C-5B (14-15)	Total	Soil	SW-846	11I2478_P
NUI1514-05	SP-D-2 (2-4)	Total	Soil	SW-846	11I2478_P
NUI1514-06	SP-D-3 (6-8)	Total	Soil	SW-846	11I2478_P
NUI1514-07	SP-D-3 (18-20)	Total	Soil	SW-846	11I2478_P

Analysis Batch: 11I2549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I2549-BLK1	Method Blank	Total	Soil	SW846 9071B	11I2549_P
11I2549-BS1	Lab Control Sample	Total	Soil	SW846 9071B	11I2549_P
11I2549-DUP1	SP-C-6 (14-16)	Total	Soil	SW846 9071B	11I2549_P
11I2549-MS1	SP-C-6 (14-16)	Total	Soil	SW846 9071B	11I2549_P
NUI1514-02	SP-A-4 (6-8)	Total	Soil	SW846 9071B	11I2549_P
NUI1514-03	SP-C-5B (2-4)	Total	Soil	SW846 9071B	11I2549_P
NUI1514-04	SP-C-5B (14-15)	Total	Soil	SW846 9071B	11I2549_P
NUI1514-05	SP-D-2 (2-4)	Total	Soil	SW846 9071B	11I2549_P
NUI1514-06	SP-D-3 (6-8)	Total	Soil	SW846 9071B	11I2549_P

Extractions (Continued)

Analysis Batch: 11I2549 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUI1514-07	SP-D-3 (18-20)	Total	Soil	SW846 9071B	11I2549_P
NUI1514-08	SP-B-2B (0-2)	Total	Soil	SW846 9071B	11I2549_P
NUI1514-09	SP-B-2B (18-20)	Total	Soil	SW846 9071B	11I2549_P
NUI1514-10	SP-C-5C (4-6)	Total	Soil	SW846 9071B	11I2549_P
NUI1514-11	SP-C-5C (14-16)	Total	Soil	SW846 9071B	11I2549_P
NUI1514-12	SP-C-6A (4-6)	Total	Soil	SW846 9071B	11I2549_P
NUI1514-13	SP-C-6A (8-10)	Total	Soil	SW846 9071B	11I2549_P
NUI1514-14	SP-B-5A (4-6)	Total	Soil	SW846 9071B	11I2549_P
NUI1514-15	SP-B-3 (18-20)	Total	Soil	SW846 9071B	11I2549_P
NUI1514-16	SP-C-6 (8-10)	Total	Soil	SW846 9071B	11I2549_P
NUI1514-17	SP-C-6 (14-16)	Total	Soil	SW846 9071B	11I2549_P
NUI1514-18	SP-B-6B (2-4)	Total	Soil	SW846 9071B	11I2549_P
NUI1514-19	SP-D-3A (2-4)	Total	Soil	SW846 9071B	11I2549_P

Analysis Batch: 11I4043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I4043-BLK1	Method Blank	Total	Soil	SW846 9071B	11I4043_P
11I4043-BS1	Lab Control Sample	Total	Soil	SW846 9071B	11I4043_P
11I4043-DUP1	SP-A-5A (4-6)	Total	Soil	SW846 9071B	11I4043_P
11I4043-MS1	SP-A-5A (4-6)	Total	Soil	SW846 9071B	11I4043_P
NUI1514-01	SP-A-5A (4-6)	Total	Soil	SW846 9071B	11I4043_P

Prep Batch: 11I2477_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I2477-DUP1	Duplicate	Total	Soil	% Solids	
NUI1514-08	SP-B-2B (0-2)	Total	Soil	% Solids	
NUI1514-09	SP-B-2B (18-20)	Total	Soil	% Solids	
NUI1514-10	SP-C-5C (4-6)	Total	Soil	% Solids	
NUI1514-11	SP-C-5C (14-16)	Total	Soil	% Solids	
NUI1514-12	SP-C-6A (4-6)	Total	Soil	% Solids	
NUI1514-13	SP-C-6A (8-10)	Total	Soil	% Solids	
NUI1514-14	SP-B-5A (4-6)	Total	Soil	% Solids	
NUI1514-15	SP-B-3 (18-20)	Total	Soil	% Solids	
NUI1514-16	SP-C-6 (8-10)	Total	Soil	% Solids	
NUI1514-17	SP-C-6 (14-16)	Total	Soil	% Solids	
NUI1514-18	SP-B-6B (2-4)	Total	Soil	% Solids	
NUI1514-19	SP-D-3A (2-4)	Total	Soil	% Solids	

Prep Batch: 11I2478_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I2478-DUP1	Duplicate	Total	Soil	% Solids	
NUI1514-01	SP-A-5A (4-6)	Total	Soil	% Solids	
NUI1514-02	SP-A-4 (6-8)	Total	Soil	% Solids	
NUI1514-03	SP-C-5B (2-4)	Total	Soil	% Solids	
NUI1514-04	SP-C-5B (14-15)	Total	Soil	% Solids	
NUI1514-05	SP-D-2 (2-4)	Total	Soil	% Solids	
NUI1514-06	SP-D-3 (6-8)	Total	Soil	% Solids	
NUI1514-07	SP-D-3 (18-20)	Total	Soil	% Solids	

Prep Batch: 11I2549_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I2549-BLK1	Method Blank	Total	Soil	EPA 9071B-Soil	

Extractions (Continued)

Prep Batch: 11I2549_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I2549-BS1	Lab Control Sample	Total	Soil	EPA 9071B-Soil	
11I2549-DUP1	SP-C-6 (14-16)	Total	Soil	EPA 9071B-Soil	
11I2549-MS1	SP-C-6 (14-16)	Total	Soil	EPA 9071B-Soil	
NUI1514-02	SP-A-4 (6-8)	Total	Soil	EPA 9071B-Soil	
NUI1514-03	SP-C-5B (2-4)	Total	Soil	EPA 9071B-Soil	
NUI1514-04	SP-C-5B (14-15)	Total	Soil	EPA 9071B-Soil	
NUI1514-05	SP-D-2 (2-4)	Total	Soil	EPA 9071B-Soil	
NUI1514-06	SP-D-3 (6-8)	Total	Soil	EPA 9071B-Soil	
NUI1514-07	SP-D-3 (18-20)	Total	Soil	EPA 9071B-Soil	
NUI1514-08	SP-B-2B (0-2)	Total	Soil	EPA 9071B-Soil	
NUI1514-09	SP-B-2B (18-20)	Total	Soil	EPA 9071B-Soil	
NUI1514-10	SP-C-5C (4-6)	Total	Soil	EPA 9071B-Soil	
NUI1514-11	SP-C-5C (14-16)	Total	Soil	EPA 9071B-Soil	
NUI1514-12	SP-C-6A (4-6)	Total	Soil	EPA 9071B-Soil	
NUI1514-13	SP-C-6A (8-10)	Total	Soil	EPA 9071B-Soil	
NUI1514-14	SP-B-5A (4-6)	Total	Soil	EPA 9071B-Soil	
NUI1514-15	SP-B-3 (18-20)	Total	Soil	EPA 9071B-Soil	
NUI1514-16	SP-C-6 (8-10)	Total	Soil	EPA 9071B-Soil	
NUI1514-17	SP-C-6 (14-16)	Total	Soil	EPA 9071B-Soil	
NUI1514-18	SP-B-6B (2-4)	Total	Soil	EPA 9071B-Soil	
NUI1514-19	SP-D-3A (2-4)	Total	Soil	EPA 9071B-Soil	

Prep Batch: 11I4043_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I4043-BLK1	Method Blank	Total	Soil	EPA 9071B-Soil	
11I4043-BS1	Lab Control Sample	Total	Soil	EPA 9071B-Soil	
11I4043-DUP1	SP-A-5A (4-6)	Total	Soil	EPA 9071B-Soil	
11I4043-MS1	SP-A-5A (4-6)	Total	Soil	EPA 9071B-Soil	
NUI1514-01	SP-A-5A (4-6)	Total	Soil	EPA 9071B-Soil	

Lab Chronicle

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUI1514

Client Sample ID: SP-A-5A (4-6)

Lab Sample ID: NUI1514-01
Date Collected: 09/09/11 09:15
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550C		0.994	11I2561_P	09/14/11 12:49	MSR	TAL NSH
Total	Analysis	SW846 8015C		1.00	U016280	09/14/11 18:15	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11I4043_P	09/21/11 10:45	JJR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11I4043	09/23/11 14:57	JJR	TAL NSH
Total	Prep	% Solids		1.00	11I2478_P	09/14/11 09:58	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11I2478	09/15/11 08:03	RRS	TAL NSH

Client Sample ID: SP-A-4 (6-8)

Lab Sample ID: NUI1514-02
Date Collected: 09/09/11 09:50
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 73.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550C		0.977	11I2561_P	09/14/11 12:49	MSR	TAL NSH
Total	Analysis	SW846 8015C		1.00	U016280	09/14/11 18:31	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11I2549_P	09/14/11 10:09	MSR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11I2549	09/19/11 12:22	MSR	TAL NSH
Total	Prep	% Solids		1.00	11I2478_P	09/14/11 09:58	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11I2478	09/15/11 08:03	RRS	TAL NSH

Client Sample ID: SP-C-5B (2-4)

Lab Sample ID: NUI1514-03
Date Collected: 09/09/11 10:40
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550C	RE1	1.96	11I2561_P	09/14/11 12:49	MSR	TAL NSH
Total	Analysis	SW846 8015C	RE1	100	U016280	09/15/11 09:11	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11I2549_P	09/14/11 10:09	MSR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11I2549	09/19/11 12:22	MSR	TAL NSH
Total	Prep	% Solids		1.00	11I2478_P	09/14/11 09:58	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11I2478	09/15/11 08:03	RRS	TAL NSH

Client Sample ID: SP-C-5B (14-15)

Lab Sample ID: NUI1514-04
Date Collected: 09/09/11 10:45
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 68.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550C		0.979	11I2561_P	09/14/11 12:49	MSR	TAL NSH
Total	Analysis	SW846 8015C		1.00	U016280	09/15/11 08:23	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11I2549_P	09/14/11 10:09	MSR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11I2549	09/19/11 12:22	MSR	TAL NSH
Total	Prep	% Solids		1.00	11I2478_P	09/14/11 09:58	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11I2478	09/15/11 08:03	RRS	TAL NSH

Lab Chronicle

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUI1514

Client Sample ID: SP-D-2 (2-4)

Lab Sample ID: NUI1514-05

Date Collected: 09/09/11 11:40
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 72

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550C	RE1	0.989	11I3063_P	09/16/11 09:59	MSR	TAL NSH
Total	Analysis	SW846 8015C	RE1	1.00	U016414	09/16/11 20:41	GMH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11I2549_P	09/14/11 10:09	MSR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11I2549	09/19/11 12:22	MSR	TAL NSH
Total	Prep	% Solids		1.00	11I2478_P	09/14/11 09:58	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11I2478	09/15/11 08:03	RRS	TAL NSH

Client Sample ID: SP-D-3 (6-8)

Lab Sample ID: NUI1514-06

Date Collected: 09/09/11 12:05
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550C		0.994	11I2561_P	09/14/11 12:49	MSR	TAL NSH
Total	Analysis	SW846 8015C		1.00	U016280	09/14/11 19:35	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11I2549_P	09/14/11 10:09	MSR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11I2549	09/19/11 12:22	MSR	TAL NSH
Total	Prep	% Solids		1.00	11I2478_P	09/14/11 09:58	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11I2478	09/15/11 08:03	RRS	TAL NSH

Client Sample ID: SP-D-3 (18-20)

Lab Sample ID: NUI1514-07

Date Collected: 09/09/11 12:55
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 72.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550C		0.996	11I2561_P	09/14/11 12:49	MSR	TAL NSH
Total	Analysis	SW846 8015C		1.00	U016280	09/14/11 19:51	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11I2549_P	09/14/11 10:09	MSR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11I2549	09/19/11 12:22	MSR	TAL NSH
Total	Prep	% Solids		1.00	11I2478_P	09/14/11 09:58	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11I2478	09/15/11 08:03	RRS	TAL NSH

Client Sample ID: SP-B-2B (0-2)

Lab Sample ID: NUI1514-08

Date Collected: 09/09/11 13:15
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550C	RE1	0.978	11I2561_P	09/14/11 12:49	MSR	TAL NSH
Total	Analysis	SW846 8015C	RE1	25.0	U016280	09/15/11 09:27	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11I2549_P	09/14/11 10:09	MSR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11I2549	09/19/11 12:22	MSR	TAL NSH
Total	Prep	% Solids		1.00	11I2477_P	09/14/11 09:58	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11I2477	09/15/11 08:03	RRS	TAL NSH

Lab Chronicle

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUI1514

Client Sample ID: SP-B-2B (18-20)

Lab Sample ID: NUI1514-09

Date Collected: 09/09/11 13:20
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 73.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550C		0.982	11I2561_P	09/14/11 12:49	MSR	TAL NSH
Total	Analysis	SW846 8015C		1.00	U016280	09/15/11 08:55	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11I2549_P	09/14/11 10:09	MSR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11I2549	09/19/11 12:22	MSR	TAL NSH
Total	Prep	% Solids		1.00	11I2477_P	09/14/11 09:58	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11I2477	09/15/11 08:03	RRS	TAL NSH

Client Sample ID: SP-C-5C (4-6)

Lab Sample ID: NUI1514-10

Date Collected: 09/09/11 13:40
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 70

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550C		0.992	11I2561_P	09/14/11 12:49	MSR	TAL NSH
Total	Analysis	SW846 8015C		1.00	U016280	09/14/11 20:39	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11I2549_P	09/14/11 10:09	MSR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11I2549	09/19/11 12:22	MSR	TAL NSH
Total	Prep	% Solids		1.00	11I2477_P	09/14/11 09:58	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11I2477	09/15/11 08:03	RRS	TAL NSH

Client Sample ID: SP-C-5C (14-16)

Lab Sample ID: NUI1514-11

Date Collected: 09/09/11 13:45
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 74.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550C		0.976	11I2561_P	09/14/11 12:49	MSR	TAL NSH
Total	Analysis	SW846 8015C		1.00	U016280	09/14/11 21:27	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11I2549_P	09/14/11 10:09	MSR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11I2549	09/19/11 12:22	MSR	TAL NSH
Total	Prep	% Solids		1.00	11I2477_P	09/14/11 09:58	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11I2477	09/15/11 08:03	RRS	TAL NSH

Client Sample ID: SP-C-6A (4-6)

Lab Sample ID: NUI1514-12

Date Collected: 09/09/11 14:05
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 74.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550C		0.997	11I2561_P	09/14/11 12:49	MSR	TAL NSH
Total	Analysis	SW846 8015C		1.00	U016280	09/14/11 21:43	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11I2549_P	09/14/11 10:09	MSR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11I2549	09/19/11 12:22	MSR	TAL NSH
Total	Prep	% Solids		1.00	11I2477_P	09/14/11 09:58	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11I2477	09/15/11 08:03	RRS	TAL NSH

Lab Chronicle

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUI1514

Client Sample ID: SP-C-6A (8-10)

Lab Sample ID: NUI1514-13

Date Collected: 09/09/11 14:10
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 67.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550C		0.962	11I2561_P	09/14/11 12:49	MSR	TAL NSH
Total	Analysis	SW846 8015C		1.00	U016280	09/14/11 21:59	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11I2549_P	09/14/11 10:09	MSR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11I2549	09/19/11 12:22	MSR	TAL NSH
Total	Prep	% Solids		1.00	11I2477_P	09/14/11 09:58	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11I2477	09/15/11 08:03	RRS	TAL NSH

Client Sample ID: SP-B-5A (4-6)

Lab Sample ID: NUI1514-14

Date Collected: 09/09/11 14:25
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 70.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550C		0.986	11I2561_P	09/14/11 12:49	MSR	TAL NSH
Total	Analysis	SW846 8015C		1.00	U016280	09/14/11 22:16	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11I2549_P	09/14/11 10:09	MSR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11I2549	09/19/11 12:22	MSR	TAL NSH
Total	Prep	% Solids		1.00	11I2477_P	09/14/11 09:58	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11I2477	09/15/11 08:03	RRS	TAL NSH

Client Sample ID: SP-B-3 (18-20)

Lab Sample ID: NUI1514-15

Date Collected: 09/09/11 14:55
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 66.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550C		0.998	11I2561_P	09/14/11 12:49	MSR	TAL NSH
Total	Analysis	SW846 8015C		1.00	U016280	09/14/11 22:32	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11I2549_P	09/14/11 10:09	MSR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11I2549	09/19/11 12:22	MSR	TAL NSH
Total	Prep	% Solids		1.00	11I2477_P	09/14/11 09:58	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11I2477	09/15/11 08:03	RRS	TAL NSH

Client Sample ID: SP-C-6 (8-10)

Lab Sample ID: NUI1514-16

Date Collected: 09/09/11 16:00
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 72.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550C		0.982	11I2561_P	09/14/11 12:49	MSR	TAL NSH
Total	Analysis	SW846 8015C		1.00	U016280	09/14/11 22:48	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11I2549_P	09/14/11 10:09	MSR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11I2549	09/19/11 12:22	MSR	TAL NSH
Total	Prep	% Solids		1.00	11I2477_P	09/14/11 09:58	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11I2477	09/15/11 08:03	RRS	TAL NSH

Lab Chronicle

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUI1514

Client Sample ID: SP-C-6 (14-16)

Lab Sample ID: NUI1514-17

Date Collected: 09/09/11 16:05
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 70.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550C		0.975	11I2561_P	09/14/11 12:49	MSR	TAL NSH
Total	Analysis	SW846 8015C		1.00	U016280	09/14/11 23:04	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11I2549_P	09/14/11 10:09	MSR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11I2549	09/19/11 12:22	MSR	TAL NSH
Total	Prep	% Solids		1.00	11I2477_P	09/14/11 09:58	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11I2477	09/15/11 08:03	RRS	TAL NSH

Client Sample ID: SP-B-6B (2-4)

Lab Sample ID: NUI1514-18

Date Collected: 09/09/11 16:15
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 69

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550C		0.980	11I2561_P	09/14/11 12:49	MSR	TAL NSH
Total	Analysis	SW846 8015C		1.00	U016280	09/14/11 23:20	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11I2549_P	09/14/11 10:09	MSR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11I2549	09/19/11 12:22	MSR	TAL NSH
Total	Prep	% Solids		1.00	11I2477_P	09/14/11 09:58	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11I2477	09/15/11 08:03	RRS	TAL NSH

Client Sample ID: SP-D-3A (2-4)

Lab Sample ID: NUI1514-19

Date Collected: 09/09/11 16:40
Matrix: Soil
Date Received: 09/13/11 08:35
Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550C		0.994	11I2561_P	09/14/11 12:49	MSR	TAL NSH
Total	Analysis	SW846 8015C		1.00	U016280	09/14/11 23:36	KKH	TAL NSH
Total	Prep	EPA 9071B-Soil		1.00	11I2549_P	09/14/11 10:09	MSR	TAL NSH
Total	Analysis	SW846 9071B		1.00	11I2549	09/19/11 12:22	MSR	TAL NSH
Total	Prep	% Solids		1.00	11I2477_P	09/14/11 09:58	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11I2477	09/15/11 08:03	RRS	TAL NSH

Laboratory References:
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Method Summary

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUI1514

Method	Method Description	Protocol	Laboratory
SW-846	General Chemistry Parameters		TAL NSH
SW846 9071B	General Chemistry Parameters		TAL NSH
SW846 8015C	Extractable Petroleum Hydrocarbons		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Certification Summary

Client: Hart & Hickman (2162)
Project/Site: PPA-040

TestAmerica Job ID: NUI1514

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
TestAmerica Nashville	AIHA	IHLAP		100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	CALA	CALA		3744
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	NELAC Secondary AB	3	460152
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER REC

NUI1514

Cooler Received/Opened On 9/13/2011 @ 0835

1. Tracking # 1190 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 14740456

2. Temperature of rep. sample or temp blank when opened: 3.3 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
Revised 6/24/09

[redacted] NUI1514

09/20/11 23:59

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

09/23/2011

Client: Hart + Hickman	Project Manager: Steve Hart shart@harthickman.com cc jlopez@harthickman.com	Date	Chain of Custody Number: 193978
Address: 2923 S. Tryon St	Telephone Number (Area Code)/Fax Number: 704 566 0001	Lab Number	Page 1 of 2
City: Charlotte; State: NC; Zip Code: 28203	Site Contact: SRC	Lab Contact	
Project Name and Location (State): Former Volvo, Asheville NC	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: PPA-040			

Analysis (Attach list if more space is needed): TPH DRO 8015M; 8021B; 0+G

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TPH DRO 8015M	0+G 8021B
1 SP-A-5A (4-6)	9/9/11	0915				X							X	X
2 SP-A-4 (6-8)		0950				X							X	X
3 SP-C-5B (2-4)		1040				X							X	X
4 SP-C-5B (14-15)		1045				X							X	X
5 SP-D-2 (2-4)		1140				X							X	X
6 SP-D-3 (6-8)		1205				X							X	X
7 SP-D-3 (18-20)		1255				X							X	X
8 SP-B-2B (0-2)		1315				X							X	X
9 SP-B-2B (18-20)		1320				X							X	X
10 SP-C-5C (4-6)		1340				X							X	X
11 SP-C-5C (14-16)		1345				X							X	X
12 SP-C-6A (4-6)		1405				X							X	X

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____ STD

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]			1. Received By: Lupha Crawford	9/12/11	12:17
2. Relinquished By: Lupha Crawford	9/12/11	16:41	2. Received By:		
3. Relinquished By:			3. Received By: [signature]	9-13-11	08:35

Comments

3.B

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Ct NUI1514
Cu 09/20/11 23 59

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

09/23/2011

TAL-4124 (1007)

Client: Hart + Hickman

Project Manager: Steve Hart

Date:

Chain of Custody Number: 193780

Address: 2923 S Tryon St

Telephone Number (Area Code)/Fax Number: 704 586 0007

Lab Number:

Page 2 of 2

City: Charlotte | State: NC | Zip Code: 28203

Site Contact: JRL

Lab Contact:

Project Name and Location (State): Former Volvo, Asheville NC

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.: PPA 040

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TPH DRO 8015M	9071B O+G
SP-C-6A (8-10)	9/9/11	1410				X	X						X	X
SP-B-5A (4-6)	9/9/11	1425				X	X						X	X
SP-B-3 (18-20)	9/9/11	1455				X	X						X	X
SP-C-6 (8-10)	9/9/11	1600				X	X						X	X
SP-C-6 (14-16)	9/9/11	1605				X	X						X	X
SP-B-6B (2-4)	9/9/11	1615				X	X						X	X
SP-D-3A (2-4)	9/9/11	1640				X	X						X	X

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: STD ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify):

	Date	Time
1. Relinquished By: [signature]		
2. Relinquished By: Lupha Crawford	9/12/11	16:41
3. Relinquished By:		

	Date	Time
1. Received By: Lupha Crawford	9/12/11	12:17
2. Received By:		
3. Received By: [signature]	9-13-11	8:35

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy