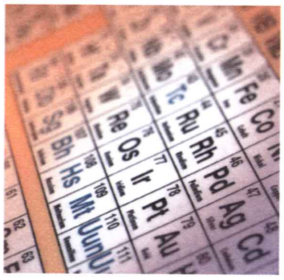
Privately owned and headquartered in Woodstock, Georgia, Sierra Piedmont is a national leader in

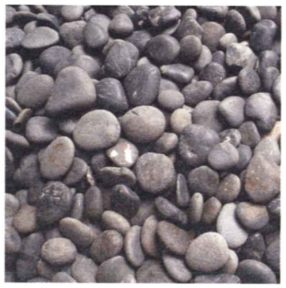
environmental consulting, site assessments, compliance and remediation.

Our commitment to clients, client relationships, the markets we serve and proven solutions to environmental problems has been

our focus since 1996. Businesses from Fortune 100 companies to regional firms in 48 states rely on our advice, guidance and support to solve their environmental problems and limit



liability. Our services have recently expanded to include strategic



planning and consultation with clients on environmental issues in addition to our core business of environmental site assessments, remediation and compliance work.

LIMITED SUBSURFACE INVESTIGATION

AT

UPS-UNION GAP
501 WEST VALLEY MALL BOULEVARD
UNION GAP,
YAKIMA COUNTY,
WASHINGTON

FSID#14724678
UST#3704

October 7, 2010

PREPARED FOR:

Mr. Jason Shira
State of Washington
Department of Ecology
15 W. Yakima Ave
Suite 200
Yakima, WA 98902
(509) 575-2490

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October 7, 2010

Mr. Jason Shira
State of Washington
Department of Ecology
15 W. Yakima Ave., Suite #200
Yakima, Washington 98902

UPSS10118.00

RE: ***Limited Subsurface Investigation at UPS- Union Gap, 501 West Valley Mall Boulevard, Union Gap, Yakima County, Washington; FSID#14724678, UST#3704***

Dear Mr. Shira:

Sierra Piedmont®, Inc. (Sierra) has completed a Limited Subsurface Investigation (LSI) at the above-referenced site. A Work Plan outlining the LSI was provided to the Washington Department of Ecology (WDOE) for review and the WDOE approved the Work Plan (with two minor revisions) via correspondence dated April 26, 2010. The LSI was conducted in response to a previous Early Notice Letter issued by the WDOE on October 29, 2007. The purpose of the LSI is to evaluate current subsurface soil and groundwater conditions in relation to a former gasoline underground storage tank (UST) and to properly abandon two groundwater monitoring wells located on-site. This report documents the findings of the LSI as compared to the WDOE Model Toxics Control Act (MTCA) guidance.

BACKGROUND

The subject property is owned by Robert & Naomi M. Kuhns and is located west of the intersection of Main Street (also known as State Highway No. 3) and Valley Mall Boulevard. The physical address is 501 West Valley Mall Boulevard in Union Gap, Yakima County, Washington. This property parcel (Number 19133234011) is zoned as commercial and is listed as 1.74 acres in area. The area for investigation on the property is along the south central side adjacent to Valley Mall Boulevard. Figure 1 is an area map of the site and surroundings.

On June 28, 1990, a release of petroleum (not otherwise identified) was reported observed during upgrade of a gasoline UST. The tank was in the process of being lined and new, double-wall fuel lines were being installed. Excavated soil was reported as either 40 yards or 15 cubic yards (yds^3) of gasoline-impacted soil and was placed on polyethylene sheeting and stored on-site. Visible evidence (reported as "brownish scum on water-looks like petroleum") of impact to groundwater was also reported. An additional estimated 100 yards of soil was excavated. Four groundwater monitoring/recovery wells of an unknown size were installed to the east, west, and south across West Valley Mall Boulevard.

In September/October 1995, a 10,000-gallon, unleaded gasoline underground storage tank (UST) was reported to be removed from the subject site. Prior to removal, soil borings were advanced around the perimeter of the UST to a depth of 12 feet below ground surface (bgs). Soil samples were obtained and laboratory analayzed for total petroleum hydrocarbons as gasoline (TPH-G) and benzene, toluene, ethylbenzene, and total xylenes (BTEX). Petroleum contaminated soil was excavated and placed on polyethylene sheeting elsewhere on-site. Groundwater samples were obtained and analyzed and TPH-G exceeded the MTCA Method A standard. In addition, excavated soil samples exceeded the MTCA guideline.

On January 31, 1996, soil stockpile samples were obtained by Black & Veatch (B&V) and laboratory analyzed for TPH-G and BTEX. Laboratory analyses indicated the soil stockpile did not contain TPH-G and BTEX above MTCA Method A standards. Groundwater was not sampled during this event due to inclement weather. No additional information is available.

On March 12, 1996, B&V collected groundwater samples from the two permanent groundwater monitoring wells, MW-1 and MW-2. Samples were laboratory analyzed for TPH-G and BTEX and found to be below the MTCA Method A standards.

On October 15, 2002, a 12,000-gallon gasoline UST was reported temporarily closed. Contents of the UST were reported to be removed by pumping. No additional information is available.

On December 4 and 5, 2003, one 12,000-gallon, gasoline UST and the associated gasoline dispenser were reported removed by Environmental Resolutions, Inc. (ERI) of Tuwila, Washington. Soil and groundwater analyses were performed by North Creek Analytical, Inc. (NCA) laboratory in Bothel, Washington. Soil was excavated during the UST and dispenser removal down to 8 to 9 feet bgs. Groundwater was encountered in the base of the excavation at approximately 9 feet bgs and was reportedly sampled using a disposable bailer. Laboratory findings indicate one soil sample containing TPH-G at 42 milligrams per kilogram (mg/kg) which is above the laboratory reporting limit of 5 mg/kg, but below the MTCA Method A applicable Cleanup Level of 100 mg/kg.

On February 20, 2004, a 12,000-gallon gasoline UST was reported to be closed. No additional information is available.

On November 2, 2004, the WDOE issued a Notice of Penalty ($500 fine) to UPS for "Failure to conduct required site assessment" as specified in Revised Code of Washington (RCW), 90.76.020(1)(f) and Washington Administrative Code (WAC), 173-360-390. This site assessment was required at the closure of a regulated UST. The WDOE required the site assessment to be completed in 15 days of receipt of the letter and the report of findings to be submitted within 30 days.

On December 10, 2004, the WDOE issued a letter indicating that neither an appeal nor the $500 fine had been received by the WDOE. The fine was subsequently paid on January 4, 2005.

On October 29, 2007, the WDOE issued an Early Notice letter indicating that a) the subject property previously presented evidence of groundwater impact above WDOE cleanup levels, b) the subject property would be listed on a WDOE database of confirmed or suspected contaminated sites, and c) independent assessment and cleanup may be required.

On April 20, 2010, Sierra (on behalf of UPS) submitted a LSI Work Plan to WDOE for review and approval. This Work Plan involved evaluating current subsurface conditions as they relate to the former gasoline UST. The scope of work included the installation of three soil borings (in the vicinity of the former gasoline UST and dispenser) with soil sampling and subsequent conversion of each to a groundwater monitoring well with groundwater sampling. Laboratory analyses for petroleum constituents in soil and groundwater was included.

The scope of work also included abandonment of two existing groundwater monitoring wells (MW-1 and MW-2); however, these wells could not be located in the field and it is highly likely that they were previously abandoned by others or covered by new asphalt paving at the former locations indicated in file materials.

April 26, 2010, WDOE approved the LSI work plan with two minor modifications, 1) constructing the new groundwater monitoring wells with screens placed within 5 feet of the ground surface and 2) waiting 48 hours after well development to commence groundwater sampling activities.

FIELD ACTIVITIES

Sierra's representative, Mr. Robert Mangum, mobilized to the subject site on July 27, 2010. Pacific Northwest Probe & Drilling of Milton, Washington (PNPD) arrived on-site with a direct push technology (DPT) probe rig to provide soil probing and monitoring well installation services. Sierra conducted a site walk-over inspection, safety briefing, and an overview of site activities with PNPD personnel prior to initiating probing and sampling activities. A Health and Safety Plan (HASP) for site sampling activities was prepared in advance by Sierra. Prior to the commencement of fieldwork, Sierra reviewed the HASP with PNPD personnel and secured signatures acknowledging full understanding of the HASP and its requirements.

The Northwest Utility Notification Center public utility locator was notified prior to initiating subsurface work and subsurface utilities were marked with paint. In addition, Sierra visually noted locations of subsurface and aboveground utilities prior to advancing each boring and adjusted locations as necessary to avoid utility disturbance.

Sierra advanced three soil borings (through asphalt) down to refusal using DPT methods. There was no physical evidence on the ground surface to indicate the exact locations of the former UST and dispenser. However, the soil borings were advanced in close proximity to the estimated locations of the former UST and dispenser as described in available file materials. Borings were placed in the anticipated upgradient, downgradient and sidegradient directions of the former UST and dispenser. Refer to Figure 2 for boring locations and Attachment A for photographs of boring locations. Soil borings were advanced to a maximum depth of 15 feet bgs. The borings were designated SB-01 through SB-03. The following table indicates the depth, location, and purpose of each boring:

Boring	Depth	Purpose and location of boring
SB-01	15 ft	Assess subsurface conditions downgradient of the active UST pit
SB-02	14 ft	Assess subsurface conditions sidegradient of the active UST pit
SB-03	14ft	Assess subsurface conditions upgradient of the former UST and dispenser

Refer to Figure 2 for a potentiometric surface map.

Sampling Procedure

Soil samples were collected continuously during probing at 4 ft intervals in each boring. Soil samples were placed directly into laboratory-supplied sample containers and placed in an ice-filled cooler. A portion of each sample was allowed to volatilize inside new, sealed polyethylene bags to measure total organic vapors (TOV). The ambient background TOV reading recorded during this field event was 0.0 parts per million (ppm) using a Photovac 2020Combo Pro® organic vapor analyzer (OVA). TOV readings for individual soil sample intervals were recorded on soil boring logs in the field. Reusable sampling equipment was decontaminated with potable water and Alconox™ soap before and between each use in borings.

Typical soils encountered within each boring were described and classified using the Unified Soil Classification System. The soils observed from the on-site borings appeared to be dark gray to brown to red, sandy silty gravel and cobbles classified as GM. Sample recovery ranged from 28% to 40%. Soils were logged down to boring termination. Refer to Attachment II for the boring logs.

Sample Selection & Transport

A soil sample was selected from each boring and submitted for laboratory analyses based on TOV readings as well as visual and olfactory examination. The soil samples were submitted to the laboratory for analysis of the following contaminants of concern (COC):

- Benzene
- Toluene
- Ethylbenzene
- Total xylenes
- n-Hexane
- 1,2-Dibromomethane
- 1,2-Dichloroethane
- Methyl tertiary butyl ether
- Total lead
- Naphthalenes
- NWTPH-Gx
- NWTPH-Dx

All soil borings encountered refusal on bedrock at the depths indicated. Soil cuttings were containerized on-site in a steel, 55-gallon drum. The following table indicates depth, TOV reading, and type of laboratory analysis completed for each sample:

Soil Boring	Sample Depth (ft)	TOV Reading (ppm)	Laboratory Analysis
SB-01	7-8	2,000	BTEX, Hexane, EDB, EDC, MtBE, Lead, Naphthalenes, and NWTPH-Gx and Dx
SB-02	7-8	27	BTEX, Hexane, EDB, EDC, MtBE, Lead, Naphthalenes, and NWTPH-Gx and Dx
SB-03	7-8	1.2	BTEX, Hexane, EDB, EDC, MtBE, Lead, Naphthalenes, and NWTPH-Gx and Dx

Ground water was encountered in all three soil borings. Each soil boring was subsequently converted to a 2-inch diameter, polyvinyl chloride (PVC) groundwater monitoring well. Each pre-pack, groundwater monitoring well was constructed with 2-inch diameter, PVC riser with approximately 10 feet of 0.010-inch slotted well screen. Well screens were positioned (as suggested by WDOE in correspondence) within 5 feet of the ground surface in the subsurface to accommodate irrigation/seasonal fluctuations of the water table.

The newly installed monitoring wells were developed by removing groundwater using a peristaltic pump and new, decontaminated, Masterflex® silicone tubing and new, decontaminated, Teflon®-lined polyethylene tubing. Development water was containerized on-site in a steel, 55-gallon drum.

The top of casing of the new wells was surveyed for vertical and horizontal control using standard level and stadia rod techniques. Wells were surveyed relative to each other and a temporary benchmark (southwest corner of the site building). Survey results and the measured depth to groundwater indicates the generalized groundwater flow direction is toward the south. This flow direction appears consistent with previous flow direction indicated by other consultants. A potentiomteric surface map is presented as Figure 3. Photographs of the field activities are provided in Attachment I and copies of the boring logs and monitoring well construction data are presented in Attachment II.

All soil and groundwater (considered to be investigation-derived waste, IDW) from soil borings, equipment decontamination, and monitoring well development/purging was containerized on-site in steel 55-gallon drums. The drums were filled manually allowing approximately 5% ullage at the top. Upon completion of filling the drums, the contents of the drums, date filled, well location, and other pertinent information was labeled on the drum's exterior using white, permanent paint sticks. The drums were then staged on concrete paving, on-site, pending laboratory analyses for disposal characterization. Manifests will be provided under separate cover.

Analytical Results

Laboratory analytical results indicated the presence of benzene in soil above the laboratory reporting limit in SB-03, but below the MTCA Method A guidance value for unrestricted land uses. Other detections in soil included lead, naphthalene, and motor oil. All of these detections were also several orders of magnitude below the MTCA Method A guidance.

The groundwater sample MW-01 indicated the presence of lead at 6.5 micrograms per liter (ug/L) in groundwater while the blind duplicate of this sample (labeled MW-11) presented no lead presence above the detection limit 5.0 ug/L. The groundwater sample MW-03 slightly exceeded the MTCA Method A guidance (15 ug/L) for this constituent. Refer to Tables 1 and Table 2 for soil and groundwater analytical results, respectively, and Appendix III for laboratory data sheets and the Chain-of-Custody.

FINDINGS AND CONCLUSIONS

Laboratory analytical results for all of the soil samples collected from soil borings adjacent to the former gasoline UST and dispenser indicate no presence of COCs in soil above the MTCA Method A guidance values. Groundwater sample analytical results indicate one slight exceedance of the MTCA Method A lead guidance value. This exceedance is very likely the result of suspended silt (turbidity) within the groundwater sample from the newly installed monitoring well. Sierra considers this detection to not be truly representative of groundwater conditions or potential impact by petroleum beneath the subject property.

Based on the findings of these samples, Sierra finds no evidence of petroleum impact in the subsurface from the former gasoline UST or dispenser. Sierra, on behalf of UPS, requests that WDOE review this report and issue a No Further Action (NFA) or equivalent status for the subject property, closing the matter. In addition, the two former groundwater monitoring wells intended to be abandoned were not visibly present and therefore not available for abandonment.

Mr. Shira, Sierra appreciates your review of this matter. Should you have any questions, please contact the undersigned ***at (770) 792-5999*** or contact Ms. Julie Straub of UPS at (404) 828-8991.

Sincerely,
Sierra Piedmont®, Inc.

Daniel E. Agramonte, PE
Program Manager

FOR Robert L. Mangum, Jr.
Project Operations Manager

C. Scott Pate, PG
President/CEO
Washington No. 112

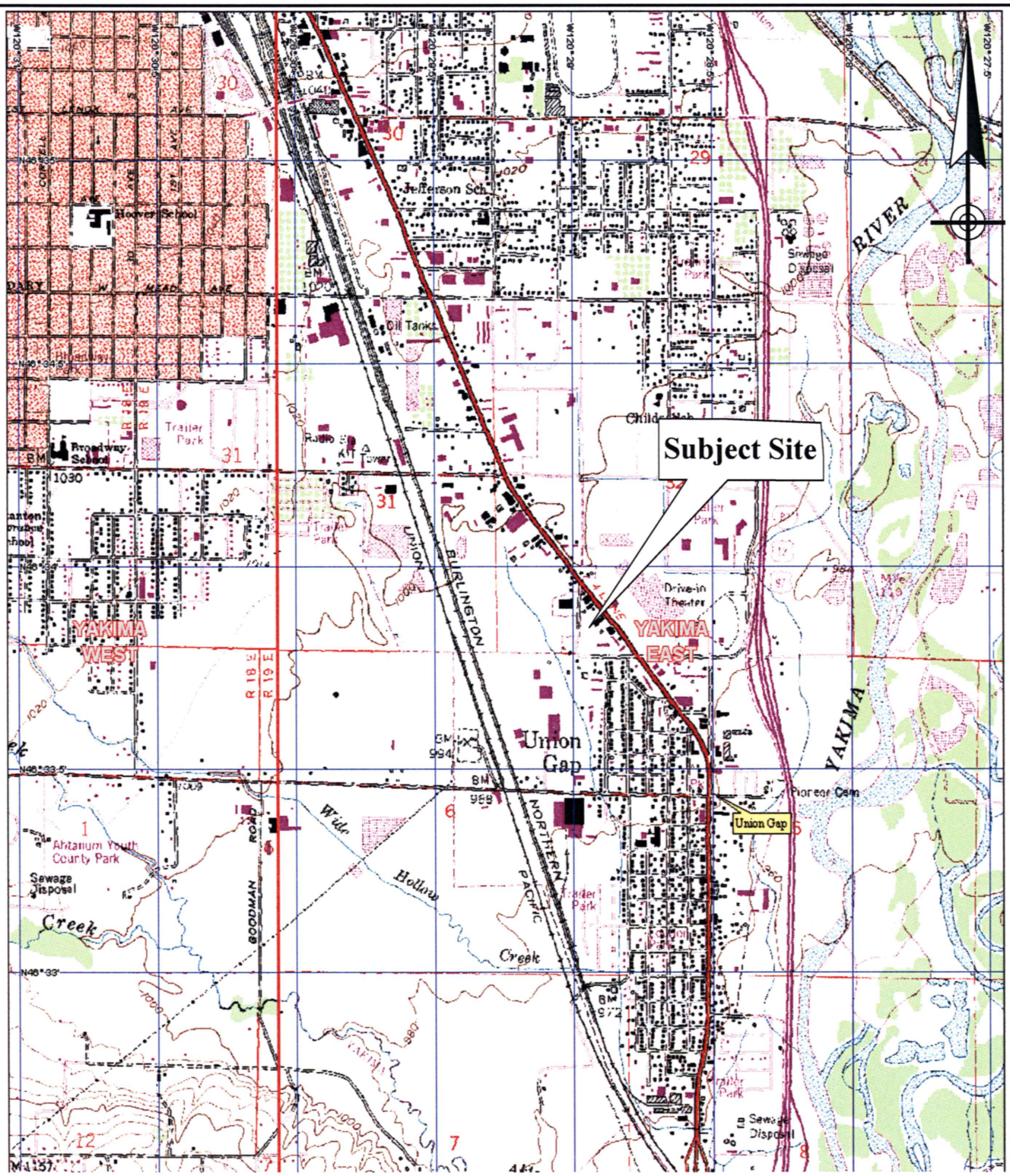
Cc: Julie Straub, UPS
Stacey Byrem, UPS

Figures:
Figure 1 – Area Map
Figure 2 – Site Map and Soil Boring Locations
Figure 3 – Potentiometric Surface Map

Tables:
Table 1 – Summary of Soil Analytical Results
Table 2 – Summary of Groundwater Analytical Results

Attachments:
Attachment I – Photographs
Attachment II – Boring Logs
Attachment III – Laboratory Data Sheets and Chain-of-Custody

FIGURES



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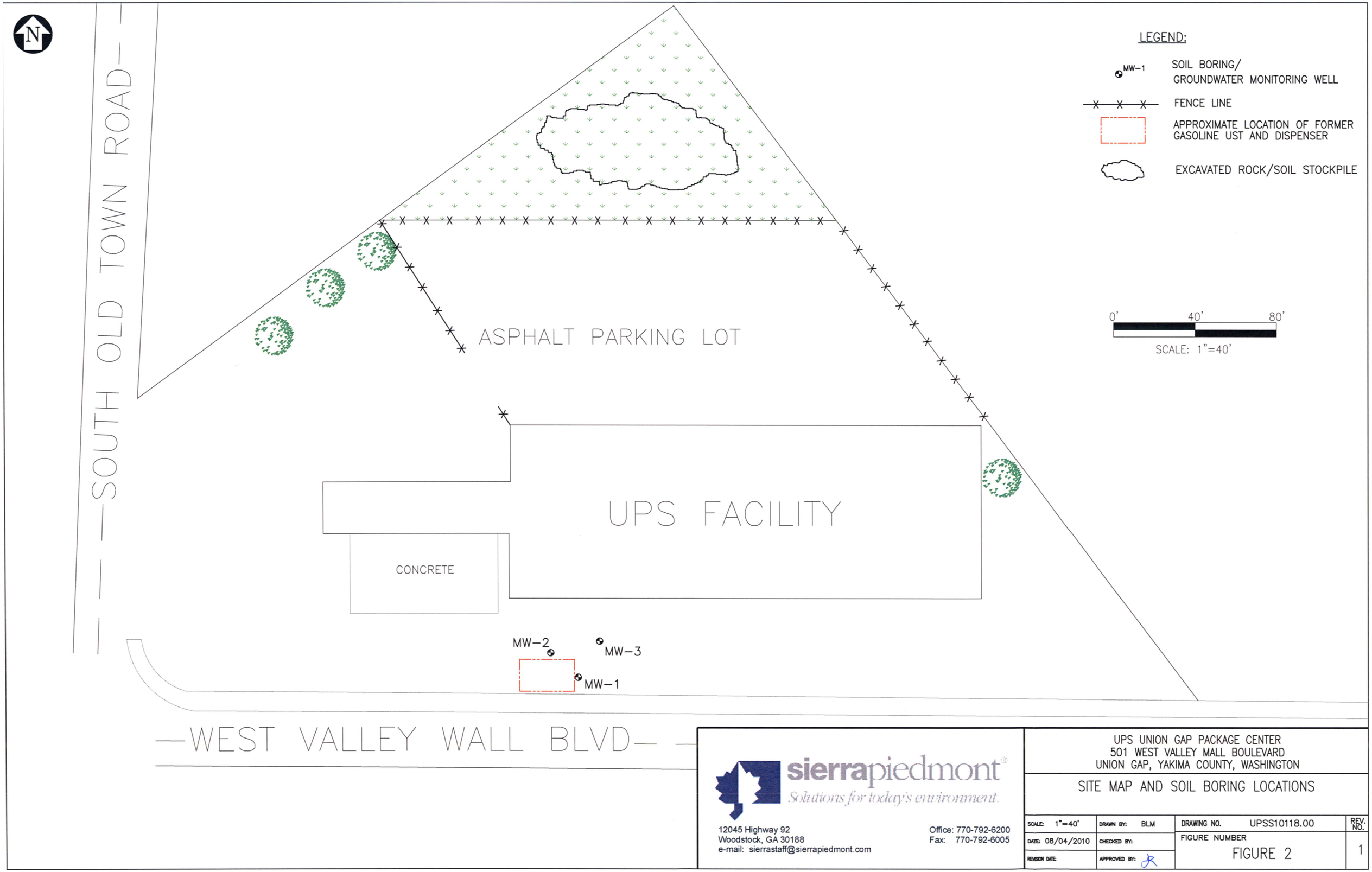
UPS UNION GAP PACKAGE CENTER
501 WEST VALLEY MALL BOULEVARD
UNION GAP, YAKIMA COUNTY, WASHINGTON 98903

AREA MAP

YAKIMA EAST (WA) - ORIG. DATE 1985

SCALE: NTS	DRAWN BY: SAP	DRAWING NO. UPSS10118.00	REV. NO.
DATE: 09/24/2010	CHECKED BY: DEA	FIGURE NUMBER FIGURE 1	X
REVISION DATE:	APPROVED BY: DEA		



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UNION GAP, YAKIMA COUNTY, WASHINGTON

SITE MAP AND SOIL BORING LOCATIONS

SCALE: 1"=40'	DRAWN BY: BLM	DRAWING NO. UPSS10118.00	REV. NO.
DATE: 08/04/2010	CHECKED BY:	FIGURE NUMBER FIGURE 2	1
REVISION DATE:	APPROVED BY: JR		

N

SOUTH OLD TOWN ROAD

ASPHALT PARKING LOT

UPS FACILITY

WEST VALLEY WALL BLVD

LEGEND:

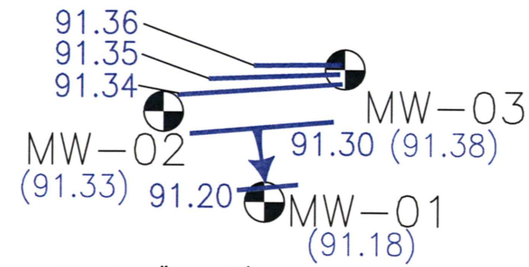
MW-01 GROUNDWATER MONITORING WELL

CONCRETE SURFACE

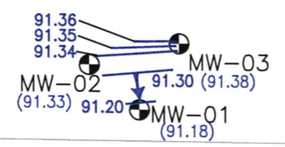
INTERPRETED GROUNDWATER CONTOUR

INTERPRETED GROUNDWATER FLOW DIRECTION

(67.98) GROUNDWATER ELEVATION, FT



SCALE: 1" – 20'



0' 40' 80'

SCALE: 1"=40'

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UNION GAP, YAKIMA COUNTY, WASHINGTON

POTENTIOMETRIC SURFACE MAP

SCALE: 1"=20'	DRAWN BY: BLM	DRAWING NO. UPSS10118.00	REV. NO.
DATE: 08/05/2010	CHECKED BY:	FIGURE NUMBER FIGURE 3	1
REVISION DATE:	APPROVED BY:		

TABLES

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
METAL
(all results in mg/kg)

UPS UNION GAP PACKAGE CENTER
501 WEST VALLEY MALL BLVD
UNION GAP, YAKIMA CITY, WASHINGTON

Boring ID	Depth (ft)	Date Sampled	Lead
SB-01	7-8	07/27/10	2.37
SB-02	7-8	07/27/10	1.46
SB-03	7-8	07/27/10	3.98
Method A Soil Cleanup Levels for Unrestricted Land Uses			**250**

Notes:
(mg/kg) = milligrams per kilogram
ft = feet

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
VOCS, METALS and TPH
(all results in mg/kg)

UPS UNION GAP PACKAGE CENTER
501 WEST VALLEY MALL BLVD
UNION GAP, YAKIMA CITY, WASHINGTON

Boring ID	Date Sampled	Lead
MW-01	07/30/10	0.00650
MW-02	07/30/10	ND
MW-03	07/30/10	**0.0155**
MW-11	07/30/10	ND
Method A Cleanup Levels for Groundwater		**0.015**

Notes:
(mg/kg) = milligrams per kilogram
ND = Non-Detect
Red - Exceeds the Method A Clean-up Level

ATTACHMENT I

Photograph No. 1: View of the probe rig setting upon SB-01/MW-01 location.

Photograph No. 2: View of hand clearing procedures for soil borings.

Photograph No. 3: View of groundwater saturated soil sample at 8 to 12 feet belowground surface in SB-01.

Photograph No. 4: View of groundwater monitoring well MW-01 completion.

Photograph No. 5: View looking west down West Valley Mall Blvd. Note MW-01 is located in the right center of the photograph. Existing subsurface utilities are marked by paint.

Photograph No. 6: View of the former gasoline underground storage tank (UST) and dispenser area. MW-01 is located to right, MW-02 is located to the left, and MW-03 is located in center background.

Photograph No. 7: View of well development equipment setup on MW-02.

Photograph No. 8: View of labeled drums containing soil cuttings and development/decontamination/purge water.

ATTACHMENT II

SIERRA PIEDMONT, INC.

SOIL BORING LOG

Boring/ MW Number:	Project Number:	Client:
SB01/MW01	UPSS10118.00	United Parcel Service, Inc. - Union Gap

City/State:	Borehole Start Date:	07/27/10	Borehole Start Time:	0920	☑ AM ☐ PM
Union Gap, WA	End Date:	07/27/10	End Time:	1035	☑ AM ☐ PM

Driller:	Geologist:	Environmental Scientist/Technician:
Rob with Carlos & Eric	Robert Mangum	NA

Drilling Company:	Surface Thickness (feet):	Borehole Diameter (feet):	Borehole Depth (feet):
Pacific Northwest Probe & Drilling	Asphalt 0.3	0.8	Approximately 15 bgs

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
DPT	Approx. 7-8	8.10	Photovac 2020 Combo Pro ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (feet) / %	SPT Blows (per six inches)	PID Reading	Odor	Time	Depth (feet)	Sample Description (soil type, approximate density, grading, grain size, staining, and other remarks)	USCS Symbol	Moisture Content	Soil & Groundwater Samples (sample number & depth interval)
HA	0-4	NA	NA	27	None	0930	1	Asphalt- Hand clearing using spud bar & posthole diggers Dark brown, gray base layer, crushed stone	GM	Dry	
							2				
							3				
DPT	4-8	1.30	NA	46.7	None	1007	4	Dark gray, silty gravel & stone fragments, moist in base	GM	Dry	
							5				
							6				
							7				Soil: SB01
DPT	8-12	1.50	NA	2,000	None	1011	8	Dark gray to brown, well rounded gravel, wet, some silt	GM	Wet	7-8'
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet

SIERRA PIEDMONT, INC.

SOIL BORING LOG

Boring/MW Number: SB01/MW01	City/State: Union Gap, WA	Project Number: UPSS10118.00	Start Date: 07/27/10 End Date: 07/27/10

Sample Type	Sample Depth Interval (feet)	Sample Recovery (feet)	SPT Blows (per six inches)	PID Reading	Odor	Time	Depth (feet)	Sample Description (soil type, approximate density, grading, grain size, staining, and other remarks)	USCS Symbol	Moisture Content	Soil & Groundwater Samples (sample number & depth interval)
DPT	12-16	1.6	NA	1,725	None	1015	13	Dark gray to brown, well rounded gravel, very wet, some silt	GM	Wet	
							14				
							15	Terminate Boring at 15' bgs. Driving 0.28' O.D. temporary, threaded casing to set the 2" PVC casing through. Setting 2" pre-pack well and riser.			
							16				
							17				
							18				
							19				
							20				
							21				
							22				
							23				
							24				
							25				
							26				
							27				
							28				
							29				
							30				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet

SIERRA PIEDMONT, INC.

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

MW Number:	Site Name:	Project Number:	Installation Date(s):
MW01	UPS - Union Gap	UPSS10118.00	07/27/10

Well Location and Type (check appropriate boxes):
- ☑ On-Site
- ☐ Right-of-Way
- ☐ Off-Site Private Property
- ☐ Above Grade (AG)
- ☑ Flush-to-Grade

If AG, list feet of riser above land surface: NA

Well Intent:
- ☐ Perched Monitoring
- ☑ Shallow (Water-Table) Monitoring
- ☐ Intermediate or Deep Monitoring
- ☐ Remediation or Other (describe)

Installation Method: DPT with temp casing to set pre-pack 2" diameter

Surface Casing Installation: NA

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (feet):	Manhole Diameter (feet):	Well Pad Size:
15 bgs	14.83	0.8	0.7	1.5 feet by 1.5 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2.0 inch PVC pipe	☑ Flush-Threaded ☐ Other (describe)	4.83 feet from 0.0 feet to 4.83 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" diameter pre-pack	0.010"	10 feet from 4.83 feet to 14.83 feet

1st Surface Casing Material:	1st Surface Casing I.D. (feet):	1st Surface Casing Length:
also check: ☐ Permanent ☐ Temporary		____ feet from ____ feet to ____ feet

2nd Surface Casing Material:	2nd Surface Casing I.D. (feet):	2nd Surface Casing Length:
also check: ☐ Permanent ☐ Temporary		____ feet from ____ feet to ____ feet

3rd Surface Casing Material:	3rd Surface Casing I.D. (feet):	3rd Surface Casing Length:
also check: ☐ Permanent ☐ Temporary		____ feet from ____ feet to ____ feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20-40 silica sand	☑ Yes ☐ No	____ feet from ____ feet to ____ feet

Filter Pack Seal Material & Shape:	Filter Pack Seal Length:
Pre-pack	____ feet from ____ feet to ____ feet

Surface Seal Material:	Surface Seal Length:
Hydro® ⅜" bentonite chips	____ feet from ____ feet to ____ feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
07/27/10	☐ Surge/Pump ☑ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check):	Depth to Groundwater (pre-development in feet):
☐ Centrifugal ☑ Peristaltic ☐ Submersible ☐ Other (describe)	8.10 BTOC

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
0.5 to 1	NM	☐ Yes ☑ No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
☑ Continuous ☐ Intermittent	10	80	☑ Yes ☐ No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
Medium gray, no odor	Clear, no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

SIERRA PIEDMONT, INC.

SOIL BORING LOG

Boring/ MW Number:	Project Number:	Client:
SB02/MW02	UPSS10118.00	United Parcel Service, Inc. - Union Gap

City/State:	Borehole Start Date:	07/27/10	Borehole Start Time:	1124	☑ AM ☐ PM
Union Gap, WA	End Date:	07/27/10	End Time:	1240	☐ AM ☑ PM

Driller:	Geologist:	Environmental Scientist/Technician:
Rob with Carlos & Eric	Robert Mangum	NA

Drilling Company:	Surface Thickness (feet):	Borehole Diameter (feet):	Borehole Depth (feet):
Pacific Northwest Probe & Drilling	Asphalt 0.3	0.8	Approximately 14 bgs

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content): Approx. 7-8	Measured Well DTW (in feet after water recharges in well): 7.31	OVA (list model and check type): Photovac 2020 Combo Pro ☐ FID ☑ PID
DPT			

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (feet) / %	SPT Blows (per six inches)	PID Reading	Odor	Time	Depth (feet)	Sample Description (soil type, approximate density, grading, grain size, staining, and other remarks)	USCS Symbol	Moisture Content	Soil & Groundwater Samples (sample number & depth interval)
HA	0-4	NA	NA	NA	None	1124	1	Asphalt- Hand clearing using spud bar, posthole diggers & hand auger Large gravel, 3" to 6" cobbles, well rounded	GM	Dry	
							2				
							3				
DPT	4-8	1.20	NA	11.7	None	1148	4	Small gravel, light gray to medium red, sandy, moist at base	GM	Dry	
							5				
							6				
							7				Soil: SB02
DPT	8-12	1.60	NA	27	None	1201	8	Dark gray to brown, well rounded gravel, wet, some silt	GM	Wet	7-8'
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet

SIERRA PIEDMONT, INC.

SOIL BORING LOG

Boring/MW Number:	City/State:	Project Number:	Start Date: 07/27/10
SB02/MW02	Union Gap, WA	UPSS10118.00	End Date: 07/27/10

Sample Type	Sample Depth Interval (feet)	Sample Recovery (feet)	SPT Blows (per six inches)	PID Reading	Odor	Time	Depth (feet)	Sample Description (soil type, approximate density, grading, grain size, staining, and other remarks)	USCS Symbol	Moisture Content	Soil & Groundwater Samples (sample number & depth interval)
DPT	12-14	0.30	Refusal	NA	None	1205	13	Dark gray to black, basalt gravel, ½" to 1" diameter	GM	Wet	
							14	Hard rock refusal at 14' bgs. Insufficient sample volume for sampling soil. Driving 0.28' O.D. temporary threaded casing to set the 2" PVC casing through. Setting 2" pre-pack well and riser.			
							15				
							16				
							17				
							18				
							19				
							20				
							21				
							22				
							23				
							24				
							25				
							26				
							27				
							28				
							29				
							30				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet

SIERRA PIEDMONT, INC.

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

MW Number:	Site Name:	Project Number:	Installation Date(s):
MW02	UPS - Union Gap	UPSS10118.00	07/27/10

Well Location and Type (check appropriate boxes):
- ☑ On-Site ☐ Right-of-Way
- ☐ Off-Site Private Property
- ☐ Above Grade (AG) ☑ Flush-to-Grade

If AG, list feet of riser above land surface: NA

Well Intent:
- ☐ Perched Monitoring
- ☑ Shallow (Water-Table) Monitoring
- ☐ Intermediate or Deep Monitoring
- ☐ Remediation or Other (describe)

Installation Method: DPT with temp casing to set pre-pack 2" diameter

Surface Casing Installation: NA

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (feet):	Manhole Diameter (feet):	Well Pad Size:
14 bgs	13.48 bgs	0.8	0.7	1.5 feet by 1.5 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2.0 inch PVC pipe	☑ Flush-Threaded ☐ Other (describe)	3.48 feet from 0.0 feet to 3.48 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" diameter pre-pack	0.010"	10 feet from 3.48 feet to 13.48 feet

1st Surface Casing Material:	1st Surface Casing I.D. (feet):	1st Surface Casing Length:
also check: ☐ Permanent ☐ Temporary		____ feet from ____ feet to ____ feet

2nd Surface Casing Material:	2nd Surface Casing I.D. (feet):	2nd Surface Casing Length:
also check: ☐ Permanent ☐ Temporary		____ feet from ____ feet to ____ feet

3rd Surface Casing Material:	3rd Surface Casing I.D. (feet):	3rd Surface Casing Length:
also check: ☐ Permanent ☐ Temporary		____ feet from ____ feet to ____ feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20-40 silica sand	☑ Yes ☐ No	____ feet from ____ feet to ____ feet

Filter Pack Seal Material & Shape:	Filter Pack Seal Length:
Pre-pack	____ feet from ____ feet to ____ feet

Surface Seal Material:	Surface Seal Length:
Hydro® ⅜" bentonite chips	____ feet from ____ feet to ____ feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
07/27/10	☐ Surge/Pump ☑ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check): ☐ Centrifugal ☑ Peristaltic ☐ Submersible ☐ Other (describe)

Depth to Groundwater (pre-development in feet): 7.31 BTOC

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
0.5 to 1	NM	☐ Yes ☑ No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
☑ Continuous ☐ Intermittent	8	75	☑ Yes ☐ No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
Medium gray, no odor	Clear, no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

SIERRA PIEDMONT, INC.

SOIL BORING LOG

Boring/ MW Number:	Project Number:	Client:
SB03/MW03	UPSS10118.00	United Parcel Service, Inc. - Union Gap

City/State:	Borehole Start Date:	07/27/10	Borehole Start Time:	1340	☐ AM ☑ PM
Union Gap, WA	End Date:	07/27/10	End Time:	1430	☐ AM ☑ PM

Driller:	Geologist:	Environmental Scientist/Technician:
Rob with Carlos & Eric	Robert Mangum	NA

Drilling Company:	Surface Thickness (feet):	Borehole Diameter (feet):	Borehole Depth (feet):
Pacific Northwest Probe & Drilling	Asphalt 0.3	0.8	Approximately 14 bgs

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
DPT	Approx. 8 bgs	7.61' BTOC	Photovac 2020 Combo Pro ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Background PID: 0.0

Sample Type	Sample Depth Interval (feet)	Sample Recovery (feet) / %	SPT Blows (per six inches)	PID Reading	Odor	Time	Depth (feet)	Sample Description (soil type, approximate density, grading, grain size, staining, and other remarks)	USCS Symbol	Moisture Content	Soil & Groundwater Samples (sample number & depth interval)
HA	0-4	1.10	NA	0.0	None	1335	1	Asphalt- Hand clearing using hand auger, posthole diggers & spud bar Dark brown to gray, crushed stone base layer	GM	Dry	
							2				
							3				
DPT	4-8	1.20	NA	1.2	None	1350	4	Dark gray, silty gravel, stone fragments, moist in base	GM	Dry	
							5				
							6				
							7				Soil: SB03
DPT	8-12	1.50	NA	0.8	None	1355	8	Dark gray to brown, well rounded gravel, ½" to 1" diameter, wet (saturated)	GM	Wet	7-8'
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet

SIERRA PIEDMONT, INC.

SOIL BORING LOG

Boring/MW Number:	City/State:	Project Number:	Start Date: 07/27/10
SB03/MW03	Union Gap, WA	UPSS10118.00	End Date: 07/27/10

Sample Type	Sample Depth Interval (feet)	Sample Recovery (feet)	SPT Blows (per six inches)	PID Reading	Odor	Time	Depth (feet)	Sample Description (soil type, approximate density, grading, grain size, staining, and other remarks)	USCS Symbol	Moisture Content	Soil & Groundwater Samples (sample number & depth interval)
DPT	12-14	1.50	NA	0.0	None	1359	13	Dark gray to black, basalt gravel, ½" to 1" diameter	GM	Wet	
							14	Terminated boring at 14' bgs due to rock refusal. Driving 0.28" O.D. temporary, threaded casing to set the 2" PVC casing through. Setting 2" pre-pack well and riser.			
							15				
							16				
							17				
							18				
							19				
							20				
							21				
							22				
							23				
							24				
							25				
							26				
							27				
							28				
							29				
							30				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet

SIERRA PIEDMONT, INC.

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

MW Number:	Site Name:	Project Number:	Installation Date(s):
MW03	UPS - Union Gap	UPSS10118.00	07/27/10

Well Location and Type (check appropriate boxes):	Well Intent:	Installation Method:
☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☐ Above Grade (AG) ☑ Flush-to-Grade If AG, list feet of riser above land surface: NA	☐ Perched Monitoring ☑ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)	DPT with temp casing to set pre-pack 2" diameter Surface Casing Installation: NA

Borehole Depth (feet): 14 bgs	Well Depth (feet): 13.51	Borehole Diameter (feet): 0.8	Manhole Diameter (feet): 0.7	Well Pad Size: 1.5 feet by 1.5 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2.0 inch PVC pipe	☑ Flush-Threaded ☐ Other (describe)	3.51 feet from 0.0 feet to 3.51 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" diameter pre-pack	0.010"	10 feet from 3.51 feet to 13.5 feet

1st Surface Casing Material:	1st Surface Casing I.D. (feet):	1st Surface Casing Length:
also check: ☐ Permanent ☐ Temporary		____ feet from ____ feet to ____ feet

2nd Surface Casing Material:	2nd Surface Casing I.D. (feet):	2nd Surface Casing Length:
also check: ☐ Permanent ☐ Temporary		____ feet from ____ feet to ____ feet

3rd Surface Casing Material:	3rd Surface Casing I.D. (feet):	3rd Surface Casing Length:
also check: ☐ Permanent ☐ Temporary		____ feet from ____ feet to ____ feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20-40 silica sand	☑ Yes ☐ No	____ feet from ____ feet to ____ feet

Filter Pack Seal Material & Shape:	Filter Pack Seal Length:
Pre-pack	____ feet from ____ feet to ____ feet

Surface Seal Material:	Surface Seal Length:
Hydro® ⅜" bentonite chips	____ feet from ____ feet to ____ feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
07/27/10	☐ Surge/Pump ☑ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check):	Depth to Groundwater (pre-development in feet):
☐ Centrifugal ☑ Peristaltic ☐ Submersible ☐ Other (describe)	7.61 BTOC

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
0.5 to 1	NM	☐ Yes ☑ No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
☑ Continuous ☐ Intermittent	7	58	☑ Yes ☐ No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
Light brown, no odor	Clear, no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

ATTACHMENT III

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

August 12, 2010 2:46:01PM

Client: Sierra Piedmont Eng & Geol. (2649)
12045 Highway 92
Woodstock, GA 30188
Attn: Dan Agramonte

Work Order: NTG2931
Project Name: UPS - Washington
Project Nbr: Union Gap
P/O Nbr:
Date Received: 07/31/10

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MW-01	NTG2931-01	07/29/10 17:00
MW-11	NTG2931-02	07/29/10 18:45
MW-02	NTG2931-03	07/30/10 06:45
MW-03	NTG2931-04	07/30/10 07:45
Trip Blank	NTG2931-06	07/30/10 00:01
Trip Blank	NTG2931-07	07/30/10 00:01
Trip Blank	NTG2931-08	07/30/10 00:01

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.

Washington Certification Number: C1712

The Chain(s) of Custody, 4 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:

Cathy Gartner

Project Management

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

Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2931
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Dan Agramonte	Received:	07/31/10 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NTG2931-01 (MW-01 - Ground Water) Sampled: 07/29/10 17:00								
Total Metals by EPA Method 6010B								
Lead	**0.00650**		mg/L	0.00500	1	08/03/10 00:22	SW846 6010B	10G5462
Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		ug/L	1.00	1	08/04/10 00:29	SW846 8260B	10H0091
Hexane	ND		ug/L	2.00	1	08/04/10 00:29	SW846 8260B	10H0091
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	08/04/10 00:29	SW846 8260B	10H0091
Ethylbenzene	ND		ug/L	1.00	1	08/04/10 00:29	SW846 8260B	10H0091
1,2-Dichloroethane	ND		ug/L	1.00	1	08/04/10 00:29	SW846 8260B	10H0091
Toluene	ND		ug/L	1.00	1	08/04/10 00:29	SW846 8260B	10H0091
Xylenes, total	ND		ug/L	3.00	1	08/04/10 00:29	SW846 8260B	10H0091
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	08/04/10 00:29	SW846 8260B	10H0091
Surr: 1,2-Dichloroethane-d4 (63-140%)	*112 %*					*08/04/10 00:29*	*SW846 8260B*	*10H0091*
Surr: Dibromofluoromethane (73-131%)	*117 %*					*08/04/10 00:29*	*SW846 8260B*	*10H0091*
Surr: Toluene-d8 (80-120%)	*98 %*					*08/04/10 00:29*	*SW846 8260B*	*10H0091*
Surr: 4-Bromofluorobenzene (79-125%)	*102 %*					*08/04/10 00:29*	*SW846 8260B*	*10H0091*
Polyaromatic Hydrocarbons by EPA 8270C SIM								
1-Methylnaphthalene	ND		ug/L	0.111	1	08/05/10 01:53	SW846 8270CSIM	10H0045
2-Methylnaphthalene	ND		ug/L	0.111	1	08/05/10 01:53	SW846 8270CSIM	10H0045
Naphthalene	ND		ug/L	0.111	1	08/05/10 01:53	SW846 8270CSIM	10H0045
Surr: Nitrobenzene-d5 (27-120%)	*106 %*					*08/05/10 01:53*	*SW846 8270CSIM*	*10H0045*
Surr: 2-Fluorobiphenyl (29-120%)	*73 %*					*08/05/10 01:53*	*SW846 8270CSIM*	*10H0045*
Surr: Terphenyl-d14 (13-120%)	*81 %*					*08/05/10 01:53*	*SW846 8270CSIM*	*10H0045*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12) NW	ND	pH	ug/L	100	1	08/10/10 19:29	NWTPH-Gx	10H1594
Surr: a,a,a-Trifluorotoluene (50-150%)	*79 %*					*08/10/10 19:29*	*NWTPH-Gx*	*10H1594*
Extractable Petroleum Hydrocarbons with Silica Gel Treatment								
Diesel	ND		ug/L	100	1	08/03/10 22:54	NWTPH-Dx	10H0271
Motor Oil	ND		ug/L	100	1	08/03/10 22:54	NWTPH-Dx	10H0271
Surr: o-Terphenyl (50-150%)	*84 %*					*08/03/10 22:54*	*NWTPH-Dx*	*10H0271*

Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2931
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Dan Agramonte	Received:	07/31/10 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NTG2931-02 (MW-11 - Ground Water) Sampled: 07/29/10 18:45								
Total Metals by EPA Method 6010B								
Lead	ND		mg/L	0.00500	1	08/03/10 00:25	SW846 6010B	10G5462
Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		ug/L	1.00	1	08/04/10 00:55	SW846 8260B	10H0091
Hexane	ND		ug/L	2.00	1	08/04/10 00:55	SW846 8260B	10H0091
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	08/04/10 00:55	SW846 8260B	10H0091
Ethylbenzene	ND		ug/L	1.00	1	08/04/10 00:55	SW846 8260B	10H0091
1,2-Dichloroethane	ND		ug/L	1.00	1	08/04/10 00:55	SW846 8260B	10H0091
Toluene	ND		ug/L	1.00	1	08/04/10 00:55	SW846 8260B	10H0091
Xylenes, total	ND		ug/L	3.00	1	08/04/10 00:55	SW846 8260B	10H0091
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	08/04/10 00:55	SW846 8260B	10H0091
Surr: 1,2-Dichloroethane-d4 (63-140%)	*119 %*					*08/04/10 00:55*	*SW846 8260B*	*10H0091*
Surr: Dibromofluoromethane (73-131%)	*120 %*					*08/04/10 00:55*	*SW846 8260B*	*10H0091*
Surr: Toluene-d8 (80-120%)	*98 %*					*08/04/10 00:55*	*SW846 8260B*	*10H0091*
Surr: 4-Bromofluorobenzene (79-125%)	*98 %*					*08/04/10 00:55*	*SW846 8260B*	*10H0091*
Polyaromatic Hydrocarbons by EPA 8270C SIM								
1-Methylnaphthalene	ND		ug/L	0.105	1	08/05/10 02:16	SW846 8270CSIM	10H0045
2-Methylnaphthalene	ND		ug/L	0.105	1	08/05/10 02:16	SW846 8270CSIM	10H0045
Naphthalene	ND		ug/L	0.105	1	08/05/10 02:16	SW846 8270CSIM	10H0045
Surr: Nitrobenzene-d5 (27-120%)	*77 %*					*08/05/10 02:16*	*SW846 8270CSIM*	*10H0045*
Surr: 2-Fluorobiphenyl (29-120%)	*54 %*					*08/05/10 02:16*	*SW846 8270CSIM*	*10H0045*
Surr: Terphenyl-d14 (13-120%)	*61 %*					*08/05/10 02:16*	*SW846 8270CSIM*	*10H0045*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12) NW	ND		ug/L	100	1	08/05/10 23:48	NWTPH-Gx	10H0785
Surr: a,a,a-Trifluorotoluene (50-150%)	*86 %*					*08/05/10 23:48*	*NWTPH-Gx*	*10H0785*
Extractable Petroleum Hydrocarbons with Silica Gel Treatment								
Diesel	ND		ug/L	100	1	08/03/10 23:14	NWTPH-Dx	10H0271
Motor Oil	ND		ug/L	100	1	08/03/10 23:14	NWTPH-Dx	10H0271
Surr: o-Terphenyl (50-150%)	*90 %*					*08/03/10 23:14*	*NWTPH-Dx*	*10H0271*

Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2931
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Dan Agramonte	Received:	07/31/10 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NTG2931-03 (MW-02 - Ground Water) Sampled: 07/30/10 06:45								
Total Metals by EPA Method 6010B								
Lead	ND		mg/L	0.00500	1	08/03/10 00:28	SW846 6010B	10G5462
Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		ug/L	1.00	1	08/04/10 01:20	SW846 8260B	10H0091
Hexane	ND		ug/L	2.00	1	08/04/10 01:20	SW846 8260B	10H0091
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	08/04/10 01:20	SW846 8260B	10H0091
Ethylbenzene	ND		ug/L	1.00	1	08/04/10 01:20	SW846 8260B	10H0091
1,2-Dichloroethane	ND		ug/L	1.00	1	08/04/10 01:20	SW846 8260B	10H0091
Toluene	ND		ug/L	1.00	1	08/04/10 01:20	SW846 8260B	10H0091
Xylenes, total	ND		ug/L	3.00	1	08/04/10 01:20	SW846 8260B	10H0091
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	08/04/10 01:20	SW846 8260B	10H0091
Surr: 1,2-Dichloroethane-d4 (63-140%)	*122 %*					*08/04/10 01:20*	*SW846 8260B*	*10H0091*
Surr: Dibromofluoromethane (73-131%)	*118 %*					*08/04/10 01:20*	*SW846 8260B*	*10H0091*
Surr: Toluene-d8 (80-120%)	*97 %*					*08/04/10 01:20*	*SW846 8260B*	*10H0091*
Surr: 4-Bromofluorobenzene (79-125%)	*100 %*					*08/04/10 01:20*	*SW846 8260B*	*10H0091*
Polyaromatic Hydrocarbons by EPA 8270C SIM								
1-Methylnaphthalene	ND		ug/L	0.0962	1	08/05/10 02:40	SW846 8270CSIM	10H0045
2-Methylnaphthalene	ND		ug/L	0.0962	1	08/05/10 02:40	SW846 8270CSIM	10H0045
Naphthalene	ND		ug/L	0.0962	1	08/05/10 02:40	SW846 8270CSIM	10H0045
Surr: Nitrobenzene-d5 (27-120%)	*55 %*					*08/05/10 02:40*	*SW846 8270CSIM*	*10H0045*
Surr: 2-Fluorobiphenyl (29-120%)	*40 %*					*08/05/10 02:40*	*SW846 8270CSIM*	*10H0045*
Surr: Terphenyl-d14 (13-120%)	*42 %*					*08/05/10 02:40*	*SW846 8270CSIM*	*10H0045*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12) NW	ND		ug/L	100	1	08/06/10 00:18	NWTPH-Gx	10H0785
Surr: a,a,a-Trifluorotoluene (50-150%)	*86 %*					*08/06/10 00:18*	*NWTPH-Gx*	*10H0785*
Extractable Petroleum Hydrocarbons with Silica Gel Treatment								
Diesel	ND		ug/L	100	1	08/03/10 23:33	NWTPH-Dx	10H0271
Motor Oil	ND		ug/L	100	1	08/03/10 23:33	NWTPH-Dx	10H0271
Surr: o-Terphenyl (50-150%)	*100 %*					*08/03/10 23:33*	*NWTPH-Dx*	*10H0271*

Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2931
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Dan Agramonte	Received:	07/31/10 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NTG2931-04 (MW-03 - Ground Water) Sampled: 07/30/10 07:45								
Total Metals by EPA Method 6010B								
Lead	**0.0155**		mg/L	0.00500	1	08/03/10 00:31	SW846 6010B	10G5462
Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		ug/L	1.00	1	08/04/10 01:45	SW846 8260B	10H0091
Hexane	ND		ug/L	2.00	1	08/04/10 01:45	SW846 8260B	10H0091
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	08/04/10 01:45	SW846 8260B	10H0091
Ethylbenzene	ND		ug/L	1.00	1	08/04/10 01:45	SW846 8260B	10H0091
1,2-Dichloroethane	ND		ug/L	1.00	1	08/04/10 01:45	SW846 8260B	10H0091
Toluene	ND		ug/L	1.00	1	08/04/10 01:45	SW846 8260B	10H0091
Xylenes, total	ND		ug/L	3.00	1	08/04/10 01:45	SW846 8260B	10H0091
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	08/04/10 01:45	SW846 8260B	10H0091
Surr: 1,2-Dichloroethane-d4 (63-140%)	*119 %*					*08/04/10 01:45*	*SW846 8260B*	*10H0091*
Surr: Dibromofluoromethane (73-131%)	*117 %*					*08/04/10 01:45*	*SW846 8260B*	*10H0091*
Surr: Toluene-d8 (80-120%)	*97 %*					*08/04/10 01:45*	*SW846 8260B*	*10H0091*
Surr: 4-Bromofluorobenzene (79-125%)	*98 %*					*08/04/10 01:45*	*SW846 8260B*	*10H0091*
Polyaromatic Hydrocarbons by EPA 8270C SIM								
1-Methylnaphthalene	ND		ug/L	0.0943	1	08/05/10 03:03	SW846 8270CSIM	10H0045
2-Methylnaphthalene	ND		ug/L	0.0943	1	08/05/10 03:03	SW846 8270CSIM	10H0045
Naphthalene	ND		ug/L	0.0943	1	08/05/10 03:03	SW846 8270CSIM	10H0045
Surr: Nitrobenzene-d5 (27-120%)	*96 %*					*08/05/10 03:03*	*SW846 8270CSIM*	*10H0045*
Surr: 2-Fluorobiphenyl (29-120%)	*68 %*					*08/05/10 03:03*	*SW846 8270CSIM*	*10H0045*
Surr: Terphenyl-d14 (13-120%)	*74 %*					*08/05/10 03:03*	*SW846 8270CSIM*	*10H0045*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12) NW	ND		ug/L	100	1	08/06/10 00:49	NWTPH-Gx	10H0785
Surr: a,a,a-Trifluorotoluene (50-150%)	*88 %*					*08/06/10 00:49*	*NWTPH-Gx*	*10H0785*
Extractable Petroleum Hydrocarbons with Silica Gel Treatment								
Diesel	ND		ug/L	100	1	08/03/10 23:52	NWTPH-Dx	10H0271
Motor Oil	ND		ug/L	100	1	08/03/10 23:52	NWTPH-Dx	10H0271
Surr: o-Terphenyl (50-150%)	*102 %*					*08/03/10 23:52*	*NWTPH-Dx*	*10H0271*

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

Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2931
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Dan Agramonte	Received:	07/31/10 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NTG2931-06 (Trip Blank - Water) Sampled: 07/30/10 00:01								
Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		ug/L	1.00	1	08/03/10 18:34	SW846 8260B	10H0091
Hexane	ND		ug/L	2.00	1	08/03/10 18:34	SW846 8260B	10H0091
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	08/03/10 18:34	SW846 8260B	10H0091
Ethylbenzene	ND		ug/L	1.00	1	08/03/10 18:34	SW846 8260B	10H0091
1,2-Dichloroethane	ND		ug/L	1.00	1	08/03/10 18:34	SW846 8260B	10H0091
Toluene	ND		ug/L	1.00	1	08/03/10 18:34	SW846 8260B	10H0091
Xylenes, total	ND		ug/L	3.00	1	08/03/10 18:34	SW846 8260B	10H0091
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	08/03/10 18:34	SW846 8260B	10H0091
Surr: 1,2-Dichloroethane-d4 (63-140%)	*119 %*					*08/03/10 18:34*	*SW846 8260B*	*10H0091*
Surr: Dibromofluoromethane (73-131%)	*118 %*					*08/03/10 18:34*	*SW846 8260B*	*10H0091*
Surr: Toluene-d8 (80-120%)	*97 %*					*08/03/10 18:34*	*SW846 8260B*	*10H0091*
Surr: 4-Bromofluorobenzene (79-125%)	*102 %*					*08/03/10 18:34*	*SW846 8260B*	*10H0091*

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

Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2931
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Dan Agramonte	Received:	07/31/10 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NTG2931-07 (Trip Blank - Water) Sampled: 07/30/10 00:01								
Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		ug/L	1.00	1	08/03/10 18:59	SW846 8260B	10H0091
Hexane	ND		ug/L	2.00	1	08/03/10 18:59	SW846 8260B	10H0091
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	08/03/10 18:59	SW846 8260B	10H0091
Ethylbenzene	ND		ug/L	1.00	1	08/03/10 18:59	SW846 8260B	10H0091
1,2-Dichloroethane	ND		ug/L	1.00	1	08/03/10 18:59	SW846 8260B	10H0091
Toluene	ND		ug/L	1.00	1	08/03/10 18:59	SW846 8260B	10H0091
Xylenes, total	ND		ug/L	3.00	1	08/03/10 18:59	SW846 8260B	10H0091
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	08/03/10 18:59	SW846 8260B	10H0091
Surr: 1,2-Dichloroethane-d4 (63-140%)	*119 %*					*08/03/10 18:59*	*SW846 8260B*	*10H0091*
Surr: Dibromofluoromethane (73-131%)	*120 %*					*08/03/10 18:59*	*SW846 8260B*	*10H0091*
Surr: Toluene-d8 (80-120%)	*95 %*					*08/03/10 18:59*	*SW846 8260B*	*10H0091*
Surr: 4-Bromofluorobenzene (79-125%)	*101 %*					*08/03/10 18:59*	*SW846 8260B*	*10H0091*

Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2931
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Dan Agramonte	Received:	07/31/10 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NTG2931-08 (Trip Blank - Water) Sampled: 07/30/10 00:01								
Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		ug/L	1.00	1	08/03/10 19:25	SW846 8260B	10H0091
Hexane	ND		ug/L	2.00	1	08/03/10 19:25	SW846 8260B	10H0091
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	08/03/10 19:25	SW846 8260B	10H0091
Ethylbenzene	ND		ug/L	1.00	1	08/03/10 19:25	SW846 8260B	10H0091
1,2-Dichloroethane	ND		ug/L	1.00	1	08/03/10 19:25	SW846 8260B	10H0091
Toluene	ND		ug/L	1.00	1	08/03/10 19:25	SW846 8260B	10H0091
Xylenes, total	ND		ug/L	3.00	1	08/03/10 19:25	SW846 8260B	10H0091
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	08/03/10 19:25	SW846 8260B	10H0091
Surr: 1,2-Dichloroethane-d4 (63-140%)	*121 %*					*08/03/10 19:25*	*SW846 8260B*	*10H0091*
Surr: Dibromofluoromethane (73-131%)	*116 %*					*08/03/10 19:25*	*SW846 8260B*	*10H0091*
Surr: Toluene-d8 (80-120%)	*96 %*					*08/03/10 19:25*	*SW846 8260B*	*10H0091*
Surr: 4-Bromofluorobenzene (79-125%)	*99 %*					*08/03/10 19:25*	*SW846 8260B*	*10H0091*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12) NW	ND		ug/L	100	1	08/05/10 17:13	NWTPH-Gx	10H0785
Surr: a,a,a-Trifluorotoluene (50-150%)	*89 %*					*08/05/10 17:13*	*NWTPH-Gx*	*10H0785*

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Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2931
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Dan Agramonte	Received:	07/31/10 08:30

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Extractable Petroleum Hydrocarbons with Silica Gel Treatment							
NWTPH-Dx	10H0271	NTG2931-01	1000.00	1.00	08/03/10 13:00	DXP	EPA 3510C
NWTPH-Dx	10H0271	NTG2931-02	1000.00	1.00	08/03/10 13:00	DXP	EPA 3510C
NWTPH-Dx	10H0271	NTG2931-03	1000.00	1.00	08/03/10 13:00	DXP	EPA 3510C
NWTPH-Dx	10H0271	NTG2931-04	1000.00	1.00	08/03/10 13:00	DXP	EPA 3510C
Polyaromatic Hydrocarbons by EPA 8270C SIM							
SW846 8270CSIM	10H0045	NTG2931-01	900.00	1.00	08/02/10 14:05	MAH	EPA 3510C
SW846 8270CSIM	10H0045	NTG2931-02	950.00	1.00	08/02/10 14:05	MAH	EPA 3510C
SW846 8270CSIM	10H0045	NTG2931-03	1040.00	1.00	08/02/10 14:05	MAH	EPA 3510C
SW846 8270CSIM	10H0045	NTG2931-04	1060.00	1.00	08/02/10 14:05	MAH	EPA 3510C
Total Metals by EPA Method 6010B							
SW846 6010B	10G5462	NTG2931-01	50.00	50.00	08/02/10 12:30	JWD	EPA 3010A / 6010
SW846 6010B	10G5462	NTG2931-02	50.00	50.00	08/02/10 12:30	JWD	EPA 3010A / 6010
SW846 6010B	10G5462	NTG2931-03	50.00	50.00	08/02/10 12:30	JWD	EPA 3010A / 6010
SW846 6010B	10G5462	NTG2931-04	50.00	50.00	08/02/10 12:30	JWD	EPA 3010A / 6010

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Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2931
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Dan Agramonte	Received:	07/31/10 08:30

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Total Metals by EPA Method 6010B						
10G5462-BLK1						
Lead	<0.00290		mg/L	10G5462	10G5462-BLK1	08/02/10 23:38
Volatile Organic Compounds by EPA Method 8260B						
10H0091-BLK1						
Benzene	<0.270		ug/L	10H0091	10H0091-BLK1	08/03/10 17:43
Hexane	<0.220		ug/L	10H0091	10H0091-BLK1	08/03/10 17:43
1,2-Dibromoethane (EDB)	<0.340		ug/L	10H0091	10H0091-BLK1	08/03/10 17:43
Ethylbenzene	<0.320		ug/L	10H0091	10H0091-BLK1	08/03/10 17:43
1,2-Dichloroethane	<0.380		ug/L	10H0091	10H0091-BLK1	08/03/10 17:43
Toluene	<0.330		ug/L	10H0091	10H0091-BLK1	08/03/10 17:43
Xylenes, total	<0.870		ug/L	10H0091	10H0091-BLK1	08/03/10 17:43
Methyl tert-Butyl Ether	<0.320		ug/L	10H0091	10H0091-BLK1	08/03/10 17:43
Surrogate: 1,2-Dichloroethane-d4	117%			10H0091	10H0091-BLK1	08/03/10 17:43
Surrogate: Dibromofluoromethane	116%			10H0091	10H0091-BLK1	08/03/10 17:43
Surrogate: Toluene-d8	96%			10H0091	10H0091-BLK1	08/03/10 17:43
Surrogate: 4-Bromofluorobenzene	98%			10H0091	10H0091-BLK1	08/03/10 17:43
Polyaromatic Hydrocarbons by EPA 8270C SIM						
10H0045-BLK1						
1-Methylnaphthalene	<0.0220		ug/L	10H0045	10H0045-BLK1	08/04/10 18:14
2-Methylnaphthalene	<0.0340		ug/L	10H0045	10H0045-BLK1	08/04/10 18:14
Naphthalene	<0.0250		ug/L	10H0045	10H0045-BLK1	08/04/10 18:14
Surrogate: 2,4,6-Tribromophenol	0%			10H0045	10H0045-BLK1	08/04/10 18:14
Surrogate: Nitrobenzene-d5	89%			10H0045	10H0045-BLK1	08/04/10 18:14
Surrogate: Phenol-d5	0%			10H0045	10H0045-BLK1	08/04/10 18:14
Surrogate: 2-Fluorobiphenyl	71%			10H0045	10H0045-BLK1	08/04/10 18:14
Surrogate: 2-Fluorophenol	0%			10H0045	10H0045-BLK1	08/04/10 18:14
Surrogate: Terphenyl-d14	87%			10H0045	10H0045-BLK1	08/04/10 18:14
Purgeable Petroleum Hydrocarbons						
10H0785-BLK1						
GRO (C4-C12) NW	<33.0		ug/L	10H0785	10H0785-BLK1	08/05/10 16:19
Surrogate: a,a,a-Trifluorotoluene	97%			10H0785	10H0785-BLK1	08/05/10 16:19
10H0785-BLK2						
GRO (C4-C12) NW	<33.0		ug/L	10H0785	10H0785-BLK2	08/06/10 08:42
Surrogate: a,a,a-Trifluorotoluene	95%			10H0785	10H0785-BLK2	08/06/10 08:42
10H1594-BLK1						
GRO (C4-C12) NW	<33.0		ug/L	10H1594	10H1594-BLK1	08/10/10 18:59
Surrogate: a,a,a-Trifluorotoluene	83%			10H1594	10H1594-BLK1	08/10/10 18:59

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Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2931
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Dan Agramonte	Received:	07/31/10 08:30

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Extractable Petroleum Hydrocarbons with Silica Gel Treatment						
10H0271-BLK1						
Diesel	34.3		ug/L	10H0271	10H0271-BLK1	08/03/10 20:52
Motor Oil	35.9		ug/L	10H0271	10H0271-BLK1	08/03/10 20:52
Surrogate: o-Terphenyl	79%			10H0271	10H0271-BLK1	08/03/10 20:52

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	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Dan Agramonte	Received:	07/31/10 08:30

PROJECT QUALITY CONTROL DATA

Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
Purgeable Petroleum Hydrocarbons										
10H0785-DUP1										
GRO (C4-C12) NW	ND	ND		ug/L		37	10H0785	NTG2931-02		08/09/10 16:51
Surrogate: a,a,a-Trifluorotoluene		17.0		ug/L			10H0785	NTG2931-02	85%	08/09/10 16:51

TestAmerica
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	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Dan Agramonte	Received:	07/31/10 08:30

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Total Metals by EPA Method 6010B								
10G5462-BS1								
Lead	0.0500	0.0489		mg/L	98%	80 - 120	10G5462	08/02/10 23:41
Volatile Organic Compounds by EPA Method 8260B								
10H0091-BS1								
Benzene	20.0	21.0		ug/L	105%	80 - 121	10H0091	08/03/10 16:52
Hexane	20.0	22.8		ug/L	114%	70 - 130	10H0091	08/03/10 16:52
1,2-Dibromoethane (EDB)	20.0	22.2		ug/L	111%	80 - 135	10H0091	08/03/10 16:52
Ethylbenzene	20.0	20.7		ug/L	104%	78 - 133	10H0091	08/03/10 16:52
1,2-Dichloroethane	20.0	24.6		ug/L	123%	70 - 134	10H0091	08/03/10 16:52
Toluene	20.0	20.4		ug/L	102%	78 - 125	10H0091	08/03/10 16:52
Xylenes, total	60.0	62.6		ug/L	104%	78 - 134	10H0091	08/03/10 16:52
Methyl tert-Butyl Ether	20.0	22.5		ug/L	113%	76 - 120	10H0091	08/03/10 16:52
Surrogate: 1,2-Dichloroethane-d4	30.0	33.0			110%	63 - 140	10H0091	08/03/10 16:52
Surrogate: Dibromofluoromethane	30.0	34.2			114%	73 - 131	10H0091	08/03/10 16:52
Surrogate: Toluene-d8	30.0	28.7			96%	80 - 120	10H0091	08/03/10 16:52
Surrogate: 4-Bromofluorobenzene	30.0	28.1			94%	79 - 125	10H0091	08/03/10 16:52
Polyaromatic Hydrocarbons by EPA 8270C SIM								
10H0045-BS1								
1-Methylnaphthalene	1.00	0.610		ug/L	61%	37 - 126	10H0045	08/04/10 19:03
2-Methylnaphthalene	1.00	0.660		ug/L	66%	41 - 121	10H0045	08/04/10 19:03
Naphthalene	1.00	0.650		ug/L	65%	38 - 120	10H0045	08/04/10 19:03
Surrogate: 2,4,6-Tribromophenol	1.00	0.00			0%	29 - 132	10H0045	08/04/10 19:03
Surrogate: Nitrobenzene-d5	1.00	0.860			86%	27 - 120	10H0045	08/04/10 19:03
Surrogate: Phenol-d5	1.00	0.00			0%	10 - 120	10H0045	08/04/10 19:03
Surrogate: 2-Fluorobiphenyl	1.00	0.690			69%	29 - 120	10H0045	08/04/10 19:03
Surrogate: 2-Fluorophenol	1.00	0.00			0%	10 - 120	10H0045	08/04/10 19:03
Surrogate: Terphenyl-d14	1.00	0.850			85%	13 - 120	10H0045	08/04/10 19:03
Purgeable Petroleum Hydrocarbons								
10H0785-BS1								
GRO (C4-C12) NW	1000	821		ug/L	82%	70 - 130	10H0785	08/06/10 07:42
Surrogate: a,a,a-Trifluorotoluene	20.0	22.9			114%	50 - 150	10H0785	08/06/10 07:42
10H0785-BS2								
GRO (C4-C12) NW	1000	755		ug/L	76%	70 - 130	10H0785	08/07/10 00:55
Surrogate: a,a,a-Trifluorotoluene	20.0	22.9			115%	50 - 150	10H0785	08/07/10 00:55
10H1594-BS1								
GRO (C4-C12) NW	1000	1260	MNR1	ug/L	126%	70 - 130	10H1594	08/11/10 00:03
Surrogate: a,a,a-Trifluorotoluene	20.0	17.1			85%	50 - 150	10H1594	08/11/10 00:03

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

Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2931
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Dan Agramonte	Received:	07/31/10 08:30

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Extractable Petroleum Hydrocarbons with Silica Gel Treatment								
10H0271-BS1								
Diesel	1000	899		ug/L	90%	57 - 132	10H0271	08/03/10 21:14
Surrogate: o-Terphenyl	20.0	19.9			100%	50 - 150	10H0271	08/03/10 21:14

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Attn	Dan Agramonte	Received:	07/31/10 08:30

PROJECT QUALITY CONTROL DATA

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Total Metals by EPA Method 6010B												
10G5462-BSD1												
Lead		0.0476		mg/L	0.0500	95%	80 - 120	3	20	10G5462		08/02/10 23:44
Polyaromatic Hydrocarbons by EPA 8270C SIM												
10H0045-BSD1												
1-Methylnaphthalene		0.620		ug/L	1.00	62%	37 - 126	2	27	10H0045		08/04/10 19:51
2-Methylnaphthalene		0.670		ug/L	1.00	67%	41 - 121	2	29	10H0045		08/04/10 19:51
Naphthalene		0.670		ug/L	1.00	67%	38 - 120	3	32	10H0045		08/04/10 19:51
Surrogate: 2,4,6-Tribromophenol		0.00		ug/L	1.00	0%	29 - 132			10H0045		08/04/10 19:51
Surrogate: Nitrobenzene-d5		0.910		ug/L	1.00	91%	27 - 120			10H0045		08/04/10 19:51
Surrogate: Phenol-d5		0.00		ug/L	1.00	0%	10 - 120			10H0045		08/04/10 19:51
Surrogate: 2-Fluorobiphenyl		0.720		ug/L	1.00	72%	29 - 120			10H0045		08/04/10 19:51
Surrogate: 2-Fluorophenol		0.00		ug/L	1.00	0%	10 - 120			10H0045		08/04/10 19:51
Surrogate: Terphenyl-d14		0.820		ug/L	1.00	82%	13 - 120			10H0045		08/04/10 19:51
Purgeable Petroleum Hydrocarbons												
10H0785-BSD2												
GRO (C4-C12) NW		797		ug/L	1000	80%	70 - 130	5	37	10H0785		08/07/10 01:25
Surrogate: a,a,a-Trifluorotoluene		23.0		ug/L	20.0	115%	50 - 150			10H0785		08/07/10 01:25

Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2931
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Dan Agramonte	Received:	07/31/10 08:30

PROJECT QUALITY CONTROL DATA
Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Total Metals by EPA Method 6010B										
10G5462-MS1										
Lead	0.0155	0.0643		mg/L	0.0500	98%	75 - 125	10G5462	NTG2931-04	08/03/10 00:34
Volatile Organic Compounds by EPA Method 8260B										
10H0091-MS1										
Benzene	ND	53.6		ug/L	50.0	107%	65 - 151	10H0091	NTG2931-04	08/04/10 02:11
Hexane	ND	54.3		ug/L	50.0	109%	39 - 167	10H0091	NTG2931-04	08/04/10 02:11
1,2-Dibromoethane (EDB)	ND	53.4		ug/L	50.0	107%	70 - 152	10H0091	NTG2931-04	08/04/10 02:11
Ethylbenzene	ND	54.2		ug/L	50.0	108%	68 - 157	10H0091	NTG2931-04	08/04/10 02:11
1,2-Dichloroethane	ND	63.6		ug/L	50.0	127%	72 - 137	10H0091	NTG2931-04	08/04/10 02:11
Toluene	ND	52.5		ug/L	50.0	105%	61 - 153	10H0091	NTG2931-04	08/04/10 02:11
Xylenes, total	ND	167		ug/L	150	112%	68 - 158	10H0091	NTG2931-04	08/04/10 02:11
Methyl tert-Butyl Ether	ND	52.0		ug/L	50.0	104%	56 - 152	10H0091	NTG2931-04	08/04/10 02:11
Surrogate: 1,2-Dichloroethane-d4		34.1		ug/L	30.0	114%	63 - 140	10H0091	NTG2931-04	08/04/10 02:11
Surrogate: Dibromofluoromethane		35.3		ug/L	30.0	118%	73 - 131	10H0091	NTG2931-04	08/04/10 02:11
Surrogate: Toluene-d8		28.5		ug/L	30.0	95%	80 - 120	10H0091	NTG2931-04	08/04/10 02:11
Surrogate: 4-Bromofluorobenzene		27.2		ug/L	30.0	91%	79 - 125	10H0091	NTG2931-04	08/04/10 02:11
Polyaromatic Hydrocarbons by EPA 8270C SIM										
10H0045-MS1										
1-Methylnaphthalene	ND	0.689		ug/L	1.11	62%	37 - 126	10H0045	NTG2931-04	08/04/10 20:39
2-Methylnaphthalene	ND	0.744		ug/L	1.11	67%	29 - 127	10H0045	NTG2931-04	08/04/10 20:39
Naphthalene	ND	0.789		ug/L	1.11	71%	24 - 120	10H0045	NTG2931-04	08/04/10 20:39
Surrogate: 2,4,6-Tribromophenol		0.00		ug/L	1.11	0%	29 - 132	10H0045	NTG2931-04	08/04/10 20:39
Surrogate: Nitrobenzene-d5		0.956		ug/L	1.11	86%	27 - 120	10H0045	NTG2931-04	08/04/10 20:39
Surrogate: Phenol-d5		0.00		ug/L	1.11	0%	10 - 120	10H0045	NTG2931-04	08/04/10 20:39
Surrogate: 2-Fluorobiphenyl		0.756		ug/L	1.11	68%	29 - 120	10H0045	NTG2931-04	08/04/10 20:39
Surrogate: 2-Fluorophenol		0.00		ug/L	1.11	0%	10 - 120	10H0045	NTG2931-04	08/04/10 20:39
Surrogate: Terphenyl-d14		0.833		ug/L	1.11	75%	13 - 120	10H0045	NTG2931-04	08/04/10 20:39
Purgeable Petroleum Hydrocarbons										
10H0785-MS1										
GRO (C4-C12) NW	ND	728		ug/L	1000	73%	58 - 139	10H0785	NTG2931-04	08/07/10 02:26
Surrogate: a,a,a-Trifluorotoluene		18.8		ug/L	20.0	94%	50 - 150	10H0785	NTG2931-04	08/07/10 02:26
10H0785-MS2										
GRO (C4-C12) NW	759	1560		ug/L	1000	80%	58 - 139	10H0785	NTH0283-05	08/07/10 03:26
Surrogate: a,a,a-Trifluorotoluene		19.1		ug/L	20.0	96%	50 - 150	10H0785	NTH0283-05	08/07/10 03:26
Extractable Petroleum Hydrocarbons with Silica Gel Treatment										

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	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Dan Agramonte	Received:	07/31/10 08:30

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
10H0271-MS1										
Diesel	29.7	668		ug/L	952	67%	30 - 140	10H0271	NTG2931-04	08/03/10 21:34
Surrogate: o-Terphenyl		14.7		ug/L	19.0	77%	50 - 150	10H0271	NTG2931-04	08/03/10 21:34

Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2931
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
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PROJECT QUALITY CONTROL DATA

Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Total Metals by EPA Method 6010B												
10G5462-MSD1												
Lead	0.0155	0.0653		mg/L	0.0500	100%	75 - 125	2	20	10G5462	NTG2931-04	08/03/10 00:37
Volatile Organic Compounds by EPA Method 8260B												
10H0091-MSD1												
Benzene	ND	55.9		ug/L	50.0	112%	65 - 151	4	12	10H0091	NTG2931-04	08/04/10 02:36
Hexane	ND	55.9		ug/L	50.0	112%	39 - 167	3	13	10H0091	NTG2931-04	08/04/10 02:36
1,2-Dibromoethane (EDB)	ND	52.1		ug/L	50.0	104%	70 - 152	2	10	10H0091	NTG2931-04	08/04/10 02:36
Ethylbenzene	ND	54.0		ug/L	50.0	108%	68 - 157	0.5	12	10H0091	NTG2931-04	08/04/10 02:36
1,2-Dichloroethane	ND	63.6		ug/L	50.0	127%	72 - 137	0.03	25	10H0091	NTG2931-04	08/04/10 02:36
Toluene	ND	53.5		ug/L	50.0	107%	61 - 153	2	35	10H0091	NTG2931-04	08/04/10 02:36
Xylenes, total	ND	166		ug/L	150	111%	68 - 158	0.9	18	10H0091	NTG2931-04	08/04/10 02:36
Methyl tert-Butyl Ether	ND	53.3		ug/L	50.0	107%	56 - 152	3	32	10H0091	NTG2931-04	08/04/10 02:36
Surrogate: 1,2-Dichloroethane-d4		34.4		ug/L	30.0	115%	63 - 140			10H0091	NTG2931-04	08/04/10 02:36
Surrogate: Dibromofluoromethane		35.7		ug/L	30.0	119%	73 - 131			10H0091	NTG2931-04	08/04/10 02:36
Surrogate: Toluene-d8		28.2		ug/L	30.0	94%	80 - 120			10H0091	NTG2931-04	08/04/10 02:36
Surrogate: 4-Bromofluorobenzene		26.9		ug/L	30.0	90%	79 - 125			10H0091	NTG2931-04	08/04/10 02:36
Polyaromatic Hydrocarbons by EPA 8270C SIM												
10H0045-MSD1												
1-Methylnaphthalene	ND	0.514	R	ug/L	0.952	54%	37 - 126	29	27	10H0045	NTG2931-04	08/04/10 21:04
2-Methylnaphthalene	ND	0.552	R	ug/L	0.952	58%	29 - 127	30	29	10H0045	NTG2931-04	08/04/10 21:04
Naphthalene	ND	0.552	R	ug/L	0.952	58%	24 - 120	35	32	10H0045	NTG2931-04	08/04/10 21:04
Surrogate: 2,4,6-Tribromophenol		0.00		ug/L	0.952	0%	29 - 132			10H0045	NTG2931-04	08/04/10 21:04
Surrogate: Nitrobenzene-d5		0.724		ug/L	0.952	76%	27 - 120			10H0045	NTG2931-04	08/04/10 21:04
Surrogate: Phenol-d5		0.00		ug/L	0.952	0%	10 - 120			10H0045	NTG2931-04	08/04/10 21:04
Surrogate: 2-Fluorobiphenyl		0.562		ug/L	0.952	59%	29 - 120			10H0045	NTG2931-04	08/04/10 21:04
Surrogate: 2-Fluorophenol		0.00		ug/L	0.952	0%	10 - 120			10H0045	NTG2931-04	08/04/10 21:04
Surrogate: Terphenyl-d14		0.648		ug/L	0.952	68%	13 - 120			10H0045	NTG2931-04	08/04/10 21:04
Purgeable Petroleum Hydrocarbons												
10H0785-MSD1												
GRO (C4-C12) NW	ND	818		ug/L	1000	82%	58 - 139	12	37	10H0785	NTG2931-04	08/07/10 02:56
Surrogate: a,a,a-Trifluorotoluene		19.0		ug/L	20.0	95%	50 - 150			10H0785	NTG2931-04	08/07/10 02:56
10H0785-MSD2												
GRO (C4-C12) NW	759	1560		ug/L	1000	80%	58 - 139	0.2	37	10H0785	NTH0283-05	08/07/10 03:57
Surrogate: a,a,a-Trifluorotoluene		19.0		ug/L	20.0	95%	50 - 150			10H0785	NTH0283-05	08/07/10 03:57
Extractable Petroleum Hydrocarbons with Silica Gel Treatment												
10H0271-MSD1												
Diesel	29.7	867		ug/L	1000	84%	30 - 140	26	41	10H0271	NTG2931-04	08/03/10 21:54

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	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Dan Agramonte	Received:	07/31/10 08:30

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Extractable Petroleum Hydrocarbons with Silica Gel Treatment												
10H0271-MSD1												
Surrogate: o-Terphenyl		19.0		ug/L	20.0	95%	50 - 150			10H0271	NTG2931-04	08/03/10 21:54

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CERTIFICATION SUMMARY

TestAmerica Nashville

Method	Matrix	AIHA	Nelac	Washington
NWTPH-Dx	Water	N/A		X
NWTPH-Gx	Water	N/A	X	X
SW846 6010B	Water	N/A	X	X
SW846 8260B	Water	N/A	X	X
SW846 8270CSIM	Water	N/A	X	X

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DATA QUALIFIERS AND DEFINITIONS

MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.
pH	pH >2
R	The RPD exceeded the method control limit. The individual analyte QA/QC recoveries, however, were within 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 RECEIPT

NTG2931

1 of 3

Cooler Received/Opened On 7/31/2010 @ 0830

1. Tracking # 3530 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID Raynger

2. Temperature of rep. sample or temp blank when opened: 3.4 *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: 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) M

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 # 1 (2 v)

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

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) M

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) M

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

21. Were there Non-Conformance issues at login? (YES)...NO Was a PIPE generated? (YES)...NO...# 57719

ms/msd which sample?

-01
-02

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 6/24/09

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

COOLER RECEIPT FORM

NTG2931
08/16/10 23:59

2 of 3

Cooler Received/Opened On_07/31/10 @ 08:30

1. Tracking # 3596 (last 4 digits, FedEx)

Courier: ___FED-EX   IR Gun ID___97310166

2. Temperature of rep. sample or temp blank when opened: 1.5 Degrees Celsius
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES...NO...NA (NA circled)
4. Were custody seals on outside of cooler? (YES circled)...NO...NA

   If yes, how many and where: 1-FRONT
5. Were the seals intact, signed, and dated correctly? (YES circled)...NO...NA
6. Were custody papers inside cooler? YES...(NO circled)...NA

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

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

   Were these signed and dated correctly? YES...NO...(NA circled)
8. Packing mat'l used? (Bubblewrap circled) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
9. Cooling process: (Ice circled) Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)? (YES circled)...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)? (YES circled)...NO...NA
12. Did all container labels and tags agree with custody papers? (YES circled)...NO...NA

13a. Were VOA vials received? (YES circled)...NO...NA

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

14. Was there a Trip Blank in this cooler? (YES circled)...NO...NA If multiple coolers, sequence # 2 (2v)

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

-03
-05
(except -05 1st vial, liter)
and -04 1st vial liter is in this cooler

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

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

16. Was residual chlorine present? YES...(NO circled)...NA

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

17. Were custody papers properly filled out (ink, signed, etc)? (YES circled)...NO...NA
18. Did you sign the custody papers in the appropriate place? (YES circled)...NO...NA
19. Were correct containers used for the analysis requested? (YES circled)...NO...NA
20. Was sufficient amount of sample sent in each container? (YES circled)...NO...NA

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

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

21. Were there Non-Conformance issues at login? YES...(NO circled) Was a PIPE generated? YES...(NO circled)...#________

BIS = Broken in shipment
Cooler Receipt Form.doc

Revised 9/6/07

TestAmerica
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Nashville, TN

COOLER RECEIPT FORM

NTG2931
08/16/10 23:59

3 of 3

Cooler Received/Opened On_07/31/10 @ 08:30

1. Tracking #_____3611_____(last 4 digits, FedEx)

Courier: ___FED-EX IR Gun ID___97310166

2. Temperature of rep. sample or temp blank when opened: 3.4 *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: 2-FRONT/BACK

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 # 3 (1 of 3)

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)...# _____

Most of -01 (see 2 of 3) for exceptions

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 9/5/07

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton Drive * Nashville TN 37204
Phone: (800) 765-0980 / (615) 726-0177 Fax:(615) 726-3404
","Reg District (CA)")

Client: Sierra Piedmont Eng & Geol. (2649)
Address: 12045 Highway 92
City, State, Zip: Woodstock GA 30188
Client Invoice Contact: Dan Agramonte
Client Project Mgr: Dan Agramonte
Client Telephone#: (770) 792-6200 Fax: (770) 792-6005
Sampler Name (Print) Robert Mangum
SamplerSignature: Robert Mangum

TA Account #: 1408604 PO #:
Invoice to: Sierra Piedmont Eng & Geol. (2649)
Report to: Dan Agramonte
Project Name: UPS - Washington
Facility ID: N/A
Reg District (CA):
Site Address:
City,State,Zip: Union Gap Washington

NTG2931
08/16/10 23:59

Sample ID	Date Sampled	Time Sampled	# Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	(Blue Label) HCL	(Orange Label) NaOH	(Yellow Label) Plastic H2SO4	(Yellow Label) Glass H2SO4	(Red Label) HNO3	(Black Label) None	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	(specify) Other	Analyze for: 8260B BTEX + Oxygenates (7)	8260B Single - Hexane	8270C SIM Polyaromatic Hydrocarb	Lead Total EPA 6010B	Solids Percent Dry Weight	TPH - Diesel Range by NWTPH-Dx (	TPH - NWTPH-Gx	RUSH TAT (Pre Schedule)*
MW-01	7-29-10	1700	11	✓					✓				✓		✓						✓	✓	✓	✓		✓	✓	
MW-11	7-29-10	1845	11	✓					✓				✓		✓						✓	✓	✓	✓		✓	✓	
MW-02	7-30-10	0645	11	✓					✓				✓		✓						✓	✓	✓	✓		✓	✓	
MW-03	7-30-10	0745	11	✓					✓				✓		✓						✓	✓	✓	✓		✓	✓	
MS/MSD	7-30-10	1200	11	✓					✓				✓		✓						✓	✓	✓	✓		✓	✓	

1 2 3 4 5

COMMENTS: All turn around times are calculated from the time of receipt at TestAmerica.

* Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments;additional charges may be assessed.

There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES/SPECIAL INSTRUCTIONS: *BO # 20575*

8260 Oxys are EDB, 1,2-DCA, MTBE only. 8270 SIMS are 2, & 3/4 MN and Nap only

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Relinquished by:	Date:	Time:
Robert J. Mangum Jr	7/30/10	1150	Tom Blankinship	7/30/10	1150	Tom Blankinship	7/30/10	12:15
Shipped Via:			Shipped Via:					
Received for TestAmerica by:	Date:	Time:	Temperature Upon Receipt:	Sample Containers Intact? Y N		QC Deliverables (Please Circle One): Level 2 Level 3 Level 4 Site Specific (If site specific, please pre-schedule w/ TestAmerica Project Manager or attach specific instructions)	Date Due of Report:	
	7/31/10	0830		VOCs Free of Headspace? Y N				

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

August 17, 2010 8:25:53AM

Client: Sierra Piedmont Eng & Geol. (2649)
12045 Highway 92
Woodstock, GA 30188
Attn: Robert Mangum

Work Order: NTG2827
Project Name: UPS - Washington
Project Nbr: Union Gap
P/O Nbr:
Date Received: 07/30/10

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
SB-01 (7'-8')	NTG2827-03	07/27/10 10:07
SB-02 (7'-8')	NTG2827-04	07/27/10 12:01
SB-03 (7'-8')	NTG2827-05	07/27/10 13:50
Trip Blank	NTG2827-06	07/29/10 00:01

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.

Additional Laboratory Comments:
Revised Report 8/17/10

Changed Project number. This replaces the final report generated on 8/10/10 at 1125.

Revised Report 8/10/10

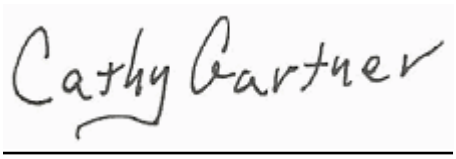
Changed Project number. This replaces the final report generated on 8/10/10 at 1125.

Washington Certification Number: C1712

The Chain(s) of Custody, 3 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:



Cathy Gartner

Project Management

Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2827
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Robert Mangum	Received:	07/30/10 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NTG2827-03 (SB-01 (7'-8') - Soil) Sampled: 07/27/10 10:07								
General Chemistry Parameters								
% Dry Solids	**94.8**		%	0.500	1	08/03/10 08:23	SW-846	10H0111
Total Metals by EPA Method 6010B								
Lead	**2.37**		mg/kg dry	1.01	1	08/03/10 00:25	SW846 6010B	10G5401
Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00176	1	08/07/10 19:29	SW846 8260B	10G5348
Hexane	ND		mg/kg dry	0.00879	1	08/07/10 19:29	SW846 8260B	10G5348
Ethylbenzene	ND		mg/kg dry	0.00176	1	08/07/10 19:29	SW846 8260B	10G5348
Methyl tert-Butyl Ether	ND		mg/kg dry	0.00176	1	08/07/10 19:29	SW846 8260B	10G5348
Toluene	ND		mg/kg dry	0.00176	1	08/07/10 19:29	SW846 8260B	10G5348
1,2-Dichloroethane	ND		mg/kg dry	0.00176	1	08/07/10 19:29	SW846 8260B	10G5348
Xylenes, total	ND		mg/kg dry	0.00439	1	08/07/10 19:29	SW846 8260B	10G5348
1,2-Dibromoethane (EDB)	ND		mg/kg dry	0.00176	1	08/07/10 19:29	SW846 8260B	10G5348
Surr: 1,2-Dichloroethane-d4 (67-138%)	*107 %*					*08/07/10 19:29*	*SW846 8260B*	*10G5348*
Surr: Dibromofluoromethane (75-125%)	*102 %*					*08/07/10 19:29*	*SW846 8260B*	*10G5348*
Surr: Toluene-d8 (76-129%)	*101 %*					*08/07/10 19:29*	*SW846 8260B*	*10G5348*
Surr: 4-Bromofluorobenzene (67-147%)	*108 %*					*08/07/10 19:29*	*SW846 8260B*	*10G5348*
Polyaromatic Hydrocarbons by EPA 8270C SIM								
1-Methylnaphthalene	ND		mg/kg dry	0.00342	1	08/06/10 04:41	SW846 8270CSIM	10G5350
2-Methylnaphthalene	ND		mg/kg dry	0.00342	1	08/06/10 04:41	SW846 8270CSIM	10G5350
Naphthalene	ND		mg/kg dry	0.00342	1	08/06/10 04:41	SW846 8270CSIM	10G5350
Surr: Nitrobenzene-d5 (17-120%)	*136 %*	*Z2*				*08/06/10 04:41*	*SW846 8270CSIM*	*10G5350*
Surr: 2-Fluorobiphenyl (14-120%)	*82 %*					*08/06/10 04:41*	*SW846 8270CSIM*	*10G5350*
Surr: Terphenyl-d14 (18-120%)	*80 %*					*08/06/10 04:41*	*SW846 8270CSIM*	*10G5350*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12) NW	ND		mg/kg dry	6.76	50	08/02/10 22:01	NWTPH-Gx	10G5392
Surr: a,a,a-Trifluorotoluene (50-150%)	*77 %*					*08/02/10 22:01*	*NWTPH-Gx*	*10G5392*
Extractable Petroleum Hydrocarbons with Silica Gel Treatment								
Diesel	ND		mg/kg dry	4.20	1	08/04/10 04:42	NWTPH-Dx	10H0043
Motor Oil	ND		mg/kg dry	4.20	1	08/04/10 04:42	NWTPH-Dx	10H0043
Surr: o-Terphenyl (50-150%)	*85 %*					*08/04/10 04:42*	*NWTPH-Dx*	*10H0043*

Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2827
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Robert Mangum	Received:	07/30/10 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NTG2827-04 (SB-02 (7'-8') - Soil) Sampled: 07/27/10 12:01								
General Chemistry Parameters								
% Dry Solids	**85.9**		%	0.500	1	08/03/10 08:23	SW-846	10H0111
Total Metals by EPA Method 6010B								
Lead	**1.46**		mg/kg dry	1.16	1	08/03/10 00:28	SW846 6010B	10G5401
Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00221	1	08/07/10 19:59	SW846 8260B	10G5348
Hexane	ND		mg/kg dry	0.0110	1	08/07/10 19:59	SW846 8260B	10G5348
Ethylbenzene	ND		mg/kg dry	0.00221	1	08/07/10 19:59	SW846 8260B	10G5348
Methyl tert-Butyl Ether	ND		mg/kg dry	0.00221	1	08/07/10 19:59	SW846 8260B	10G5348
Toluene	ND		mg/kg dry	0.00221	1	08/07/10 19:59	SW846 8260B	10G5348
1,2-Dichloroethane	ND		mg/kg dry	0.00221	1	08/07/10 19:59	SW846 8260B	10G5348
Xylenes, total	ND		mg/kg dry	0.00552	1	08/07/10 19:59	SW846 8260B	10G5348
1,2-Dibromoethane (EDB)	ND		mg/kg dry	0.00221	1	08/07/10 19:59	SW846 8260B	10G5348
Surr: 1,2-Dichloroethane-d4 (67-138%)	*108 %*					*08/07/10 19:59*	*SW846 8260B*	*10G5348*
Surr: Dibromofluoromethane (75-125%)	*102 %*					*08/07/10 19:59*	*SW846 8260B*	*10G5348*
Surr: Toluene-d8 (76-129%)	*99 %*					*08/07/10 19:59*	*SW846 8260B*	*10G5348*
Surr: 4-Bromofluorobenzene (67-147%)	*104 %*					*08/07/10 19:59*	*SW846 8260B*	*10G5348*
Polyaromatic Hydrocarbons by EPA 8270C SIM								
1-Methylnaphthalene	ND		mg/kg dry	0.00381	1	08/06/10 05:04	SW846 8270CSIM	10G5350
2-Methylnaphthalene	ND		mg/kg dry	0.00381	1	08/06/10 05:04	SW846 8270CSIM	10G5350
Naphthalene	ND		mg/kg dry	0.00381	1	08/06/10 05:04	SW846 8270CSIM	10G5350
Surr: Nitrobenzene-d5 (17-120%)	*94 %*					*08/06/10 05:04*	*SW846 8270CSIM*	*10G5350*
Surr: 2-Fluorobiphenyl (14-120%)	*55 %*					*08/06/10 05:04*	*SW846 8270CSIM*	*10G5350*
Surr: Terphenyl-d14 (18-120%)	*61 %*					*08/06/10 05:04*	*SW846 8270CSIM*	*10G5350*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12) NW	ND		mg/kg dry	5.87	50	08/02/10 22:19	NWTPH-Gx	10G5392
Surr: a,a,a-Trifluorotoluene (50-150%)	*80 %*					*08/02/10 22:19*	*NWTPH-Gx*	*10G5392*
Extractable Petroleum Hydrocarbons with Silica Gel Treatment								
Diesel	ND		mg/kg dry	4.65	1	08/04/10 05:01	NWTPH-Dx	10H0043
Motor Oil	ND		mg/kg dry	4.65	1	08/04/10 05:01	NWTPH-Dx	10H0043
Surr: o-Terphenyl (50-150%)	*62 %*					*08/04/10 05:01*	*NWTPH-Dx*	*10H0043*

Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2827
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Robert Mangum	Received:	07/30/10 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NTG2827-05 (SB-03 (7'-8') - Soil) Sampled: 07/27/10 13:50								
General Chemistry Parameters								
% Dry Solids	**92.6**		%	0.500	1	08/03/10 08:23	SW-846	10H0111
Total Metals by EPA Method 6010B								
Lead	**3.98**		mg/kg dry	1.09	1	08/03/10 00:31	SW846 6010B	10G5401
Volatile Organic Compounds by EPA Method 8260B								
Benzene	**0.00331**		mg/kg dry	0.00159	1	08/07/10 20:29	SW846 8260B	10G5348
Hexane	ND		mg/kg dry	0.00793	1	08/07/10 20:29	SW846 8260B	10G5348
Ethylbenzene	ND		mg/kg dry	0.00159	1	08/07/10 20:29	SW846 8260B	10G5348
Methyl tert-Butyl Ether	ND		mg/kg dry	0.00159	1	08/07/10 20:29	SW846 8260B	10G5348
Toluene	ND		mg/kg dry	0.00159	1	08/07/10 20:29	SW846 8260B	10G5348
1,2-Dichloroethane	ND		mg/kg dry	0.00159	1	08/07/10 20:29	SW846 8260B	10G5348
Xylenes, total	ND		mg/kg dry	0.00396	1	08/07/10 20:29	SW846 8260B	10G5348
1,2-Dibromoethane (EDB)	ND		mg/kg dry	0.00159	1	08/07/10 20:29	SW846 8260B	10G5348
Surr: 1,2-Dichloroethane-d4 (67-138%)	*115 %*					*08/07/10 20:29*	*SW846 8260B*	*10G5348*
Surr: Dibromofluoromethane (75-125%)	*104 %*					*08/07/10 20:29*	*SW846 8260B*	*10G5348*
Surr: Toluene-d8 (76-129%)	*97 %*					*08/07/10 20:29*	*SW846 8260B*	*10G5348*
Surr: 4-Bromofluorobenzene (67-147%)	*97 %*					*08/07/10 20:29*	*SW846 8260B*	*10G5348*
Polyaromatic Hydrocarbons by EPA 8270C SIM								
1-Methylnaphthalene	ND		mg/kg dry	0.00357	1	08/08/10 01:48	SW846 8270CSIM	10H0898
2-Methylnaphthalene	ND		mg/kg dry	0.00357	1	08/08/10 01:48	SW846 8270CSIM	10H0898
Naphthalene	**0.0150**		mg/kg dry	0.00357	1	08/08/10 01:48	SW846 8270CSIM	10H0898
Surr: Nitrobenzene-d5 (17-120%)	*84 %*					*08/08/10 01:48*	*SW846 8270CSIM*	*10H0898*
Surr: 2-Fluorobiphenyl (14-120%)	*56 %*					*08/08/10 01:48*	*SW846 8270CSIM*	*10H0898*
Surr: Terphenyl-d14 (18-120%)	*62 %*					*08/08/10 01:48*	*SW846 8270CSIM*	*10H0898*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12) NW	ND		mg/kg dry	4.76	50	08/02/10 22:36	NWTPH-Gx	10G5392
Surr: a,a,a-Trifluorotoluene (50-150%)	*75 %*					*08/02/10 22:36*	*NWTPH-Gx*	*10G5392*
Extractable Petroleum Hydrocarbons with Silica Gel Treatment								
Diesel	ND		mg/kg dry	4.19	1	08/04/10 05:20	NWTPH-Dx	10H0043
Motor Oil	**8.81**	QP6	mg/kg dry	4.19	1	08/04/10 05:20	NWTPH-Dx	10H0043
Surr: o-Terphenyl (50-150%)	*98 %*					*08/04/10 05:20*	*NWTPH-Dx*	*10H0043*

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

Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2827
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Robert Mangum	Received:	07/30/10 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NTG2827-06 (Trip Blank - Water) Sampled: 07/29/10 00:01								
Volatile Organic Compounds by EPA Method 8260B								
Tert-Amyl Methyl Ether	ND		ug/L	1.00	1	08/03/10 14:40	SW846 8260B	10H0263
Benzene	ND		ug/L	1.00	1	08/03/10 14:40	SW846 8260B	10H0263
Hexane	ND		ug/L	2.00	1	08/03/10 14:40	SW846 8260B	10H0263
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	08/03/10 14:40	SW846 8260B	10H0263
Ethylbenzene	ND		ug/L	1.00	1	08/03/10 14:40	SW846 8260B	10H0263
1,2-Dichloroethane	ND		ug/L	1.00	1	08/03/10 14:40	SW846 8260B	10H0263
Toluene	ND		ug/L	1.00	1	08/03/10 14:40	SW846 8260B	10H0263
Xylenes, total	ND		ug/L	3.00	1	08/03/10 14:40	SW846 8260B	10H0263
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	08/03/10 14:40	SW846 8260B	10H0263
Surr: 1,2-Dichloroethane-d4 (63-140%)	*115 %*					*08/03/10 14:40*	*SW846 8260B*	*10H0263*
Surr: Dibromofluoromethane (73-131%)	*107 %*					*08/03/10 14:40*	*SW846 8260B*	*10H0263*
Surr: Toluene-d8 (80-120%)	*98 %*					*08/03/10 14:40*	*SW846 8260B*	*10H0263*
Surr: 4-Bromofluorobenzene (79-125%)	*90 %*					*08/03/10 14:40*	*SW846 8260B*	*10H0263*

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

Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2827
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Robert Mangum	Received:	07/30/10 08:00

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Extractable Petroleum Hydrocarbons with Silica Gel Treatment							
NWTPH-Dx	10H0043	NTG2827-03	25.12	1.00	08/03/10 07:00	SAS	EPA 3550B
NWTPH-Dx	10H0043	NTG2827-04	25.04	1.00	08/03/10 07:00	SAS	EPA 3550B
NWTPH-Dx	10H0043	NTG2827-05	25.77	1.00	08/03/10 07:00	SAS	EPA 3550B
Polyaromatic Hydrocarbons by EPA 8270C SIM							
SW846 8270CSIM	10G5350	NTG2827-03	30.78	1.00	07/31/10 07:30	CAG	EPA 3550B
SW846 8270CSIM	10G5350	NTG2827-04	30.53	1.00	07/31/10 07:30	CAG	EPA 3550B
SW846 8270CSIM	10G5350	NTG2827-05	30.94	1.00	07/31/10 07:30	CAG	EPA 3550B
SW846 8270CSIM	10H0898	NTG2827-05RE1	30.20	1.00	08/06/10 11:45	CAG	EPA 3550B
Purgeable Petroleum Hydrocarbons							
NWTPH-Gx	10G5392	NTG2827-03	3.90	5.00	07/27/10 10:07	JRL	EPA 5035A (GC)
NWTPH-Gx	10G5392	NTG2827-04	4.96	5.00	07/27/10 12:01	JRL	EPA 5035A (GC)
NWTPH-Gx	10G5392	NTG2827-05	5.67	5.00	07/27/10 13:50	JRL	EPA 5035A (GC)
Total Metals by EPA Method 6010B							
SW846 6010B	10G5401	NTG2827-03	0.52	100.00	08/02/10 08:30	JWD	EPA 3051A/6010
SW846 6010B	10G5401	NTG2827-04	0.50	100.00	08/02/10 08:30	JWD	EPA 3051A/6010
SW846 6010B	10G5401	NTG2827-05	0.50	100.00	08/02/10 08:30	JWD	EPA 3051A/6010
Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	10G5348	NTG2827-03	6.00	5.00	07/27/10 10:07	JRL	EPA 5035
SW846 8260B	10G5348	NTG2827-03	6.00	5.00	07/27/10 10:07	JRL	EPA 5035
SW846 8260B	10G5348	NTG2827-03	6.00	5.00	07/27/10 10:07	JRL	EPA 5035
SW846 8260B	10G5348	NTG2827-04	5.27	5.00	07/27/10 12:01	JRL	EPA 5035
SW846 8260B	10G5348	NTG2827-04	5.27	5.00	07/27/10 12:01	JRL	EPA 5035
SW846 8260B	10G5348	NTG2827-04	5.27	5.00	07/27/10 12:01	JRL	EPA 5035
SW846 8260B	10G5348	NTG2827-05	6.81	5.00	07/27/10 13:50	JRL	EPA 5035
SW846 8260B	10G5348	NTG2827-05	6.81	5.00	07/27/10 13:50	JRL	EPA 5035
SW846 8260B	10G5348	NTG2827-05	6.81	5.00	07/27/10 13:50	JRL	EPA 5035

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

Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2827
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Robert Mangum	Received:	07/30/10 08:00

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Total Metals by EPA Method 6010B						
10G5401-BLK1						
Lead	<0.571		mg/kg wet	10G5401	10G5401-BLK1	08/02/10 23:51
Volatile Organic Compounds by EPA Method 8260B						
10G5348-BLK1						
Benzene	<0.00110		mg/kg wet	10G5348	10G5348-BLK1	08/07/10 15:48
Hexane	<0.00110		mg/kg wet	10G5348	10G5348-BLK1	08/07/10 15:48
Ethylbenzene	<0.000980		mg/kg wet	10G5348	10G5348-BLK1	08/07/10 15:48
Methyl tert-Butyl Ether	<0.000670		mg/kg wet	10G5348	10G5348-BLK1	08/07/10 15:48
Toluene	<0.000890		mg/kg wet	10G5348	10G5348-BLK1	08/07/10 15:48
1,2-Dichloroethane	<0.000510		mg/kg wet	10G5348	10G5348-BLK1	08/07/10 15:48
Xylenes, total	<0.00190		mg/kg wet	10G5348	10G5348-BLK1	08/07/10 15:48
1,2-Dibromoethane (EDB)	<0.000670		mg/kg wet	10G5348	10G5348-BLK1	08/07/10 15:48
Surrogate: 1,2-Dichloroethane-d4	105%			10G5348	10G5348-BLK1	08/07/10 15:48
Surrogate: Dibromofluoromethane	102%			10G5348	10G5348-BLK1	08/07/10 15:48
Surrogate: Toluene-d8	99%			10G5348	10G5348-BLK1	08/07/10 15:48
Surrogate: 4-Bromofluorobenzene	98%			10G5348	10G5348-BLK1	08/07/10 15:48
10G5348-BLK2						
Benzene	<0.0550		mg/kg wet	10G5348	10G5348-BLK2	08/07/10 16:18
Hexane	<0.0550		mg/kg wet	10G5348	10G5348-BLK2	08/07/10 16:18
Ethylbenzene	<0.0490		mg/kg wet	10G5348	10G5348-BLK2	08/07/10 16:18
Methyl tert-Butyl Ether	<0.0335		mg/kg wet	10G5348	10G5348-BLK2	08/07/10 16:18
Toluene	<0.0445		mg/kg wet	10G5348	10G5348-BLK2	08/07/10 16:18
1,2-Dichloroethane	<0.0255		mg/kg wet	10G5348	10G5348-BLK2	08/07/10 16:18
Xylenes, total	<0.0950		mg/kg wet	10G5348	10G5348-BLK2	08/07/10 16:18
1,2-Dibromoethane (EDB)	<0.0335		mg/kg wet	10G5348	10G5348-BLK2	08/07/10 16:18
Surrogate: 1,2-Dichloroethane-d4	98%			10G5348	10G5348-BLK2	08/07/10 16:18
Surrogate: Dibromofluoromethane	100%			10G5348	10G5348-BLK2	08/07/10 16:18
Surrogate: Toluene-d8	101%			10G5348	10G5348-BLK2	08/07/10 16:18
Surrogate: 4-Bromofluorobenzene	98%			10G5348	10G5348-BLK2	08/07/10 16:18
10H0263-BLK1						
Benzene	<0.270		ug/L	10H0263	10H0263-BLK1	08/03/10 14:14
Hexane	<0.220		ug/L	10H0263	10H0263-BLK1	08/03/10 14:14
1,2-Dibromoethane (EDB)	<0.340		ug/L	10H0263	10H0263-BLK1	08/03/10 14:14
Ethylbenzene	<0.320		ug/L	10H0263	10H0263-BLK1	08/03/10 14:14
1,2-Dichloroethane	<0.380		ug/L	10H0263	10H0263-BLK1	08/03/10 14:14
Toluene	<0.330		ug/L	10H0263	10H0263-BLK1	08/03/10 14:14
Xylenes, total	<0.870		ug/L	10H0263	10H0263-BLK1	08/03/10 14:14
Methyl tert-Butyl Ether	<0.320		ug/L	10H0263	10H0263-BLK1	08/03/10 14:14
Surrogate: 1,2-Dichloroethane-d4	115%			10H0263	10H0263-BLK1	08/03/10 14:14
Surrogate: Dibromofluoromethane	107%			10H0263	10H0263-BLK1	08/03/10 14:14

Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2827
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Robert Mangum	Received:	07/30/10 08:00

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
10H0263-BLK1						
Surrogate: Toluene-d8	99%			10H0263	10H0263-BLK1	08/03/10 14:14
Surrogate: 4-Bromofluorobenzene	97%			10H0263	10H0263-BLK1	08/03/10 14:14
Polyaromatic Hydrocarbons by EPA 8270C SIM						
10G5350-BLK1						
1-Methylnaphthalene	<0.000600		mg/kg wet	10G5350	10G5350-BLK1	08/06/10 02:25
2-Methylnaphthalene	<0.000800		mg/kg wet	10G5350	10G5350-BLK1	08/06/10 02:25
Naphthalene	<0.000600		mg/kg wet	10G5350	10G5350-BLK1	08/06/10 02:25
Surrogate: Nitrobenzene-d5	104%			10G5350	10G5350-BLK1	08/06/10 02:25
Surrogate: 2-Fluorobiphenyl	69%			10G5350	10G5350-BLK1	08/06/10 02:25
Surrogate: Terphenyl-d14	72%			10G5350	10G5350-BLK1	08/06/10 02:25
10H0898-BLK1						
1-Methylnaphthalene	<0.000600		mg/kg wet	10H0898	10H0898-BLK1	08/08/10 14:28
2-Methylnaphthalene	<0.000800		mg/kg wet	10H0898	10H0898-BLK1	08/08/10 14:28
Naphthalene	<0.000600		mg/kg wet	10H0898	10H0898-BLK1	08/08/10 14:28
Surrogate: Nitrobenzene-d5	81%			10H0898	10H0898-BLK1	08/08/10 14:28
Surrogate: 2-Fluorobiphenyl	73%			10H0898	10H0898-BLK1	08/08/10 14:28
Surrogate: Terphenyl-d14	71%			10H0898	10H0898-BLK1	08/08/10 14:28
Purgeable Petroleum Hydrocarbons						
10G5392-BLK1						
GRO (C4-C12) NW	1.69		mg/kg wet	10G5392	10G5392-BLK1	08/02/10 15:46
Surrogate: a,a,a-Trifluorotoluene	81%			10G5392	10G5392-BLK1	08/02/10 15:46
10G5392-BLK2						
GRO (C4-C12) NW	1.72		mg/kg wet	10G5392	10G5392-BLK2	08/02/10 16:04
Surrogate: a,a,a-Trifluorotoluene	81%			10G5392	10G5392-BLK2	08/02/10 16:04
Extractable Petroleum Hydrocarbons with Silica Gel Treatment						
10H0043-BLK1						
Diesel	0.788		mg/kg wet	10H0043	10H0043-BLK1	08/04/10 02:48
Motor Oil	1.37		mg/kg wet	10H0043	10H0043-BLK1	08/04/10 02:48
Surrogate: o-Terphenyl	102%			10H0043	10H0043-BLK1	08/04/10 02:48

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Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2827
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Robert Mangum	Received:	07/30/10 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										
10H0111-DUP1										
% Dry Solids	93.6	92.3		%	1	20	10H0111	NTG2827-01		08/03/10 08:23
Purgeable Petroleum Hydrocarbons										
10G5392-DUP1										
GRO (C4-C12) NW	1.45	1.19		mg/kg dry	20	50	10G5392	NTG2827-05		08/02/10 22:54
Surrogate: a,a,a-Trifluorotoluene		16.0		ug/L			10G5392	NTG2827-05	80%	08/02/10 22:54

Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2827
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
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PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Total Metals by EPA Method 6010B								
10G5401-BS1								
Lead	19.5	18.4		mg/kg wet	94%	80 - 120	10G5401	08/02/10 23:54
Volatile Organic Compounds by EPA Method 8260B								
10G5348-BS1								
Benzene	50.0	52.5		ug/kg	105%	78 - 126	10G5348	08/07/10 14:18
Hexane	50.0	56.0		ug/kg	112%	55 - 136	10G5348	08/07/10 14:18
Ethylbenzene	50.0	54.9		ug/kg	110%	79 - 130	10G5348	08/07/10 14:18
Methyl tert-Butyl Ether	50.0	58.1		ug/kg	116%	70 - 128	10G5348	08/07/10 14:18
Toluene	50.0	54.0		ug/kg	108%	76 - 126	10G5348	08/07/10 14:18
1,2-Dichloroethane	50.0	53.9		ug/kg	108%	70 - 139	10G5348	08/07/10 14:18
Xylenes, total	150	175		ug/kg	116%	80 - 130	10G5348	08/07/10 14:18
1,2-Dibromoethane (EDB)	50.0	54.7		ug/kg	109%	80 - 131	10G5348	08/07/10 14:18
Surrogate: 1,2-Dichloroethane-d4	50.0	51.0			102%	67 - 138	10G5348	08/07/10 14:18
Surrogate: Dibromofluoromethane	50.0	50.8			102%	75 - 125	10G5348	08/07/10 14:18
Surrogate: Toluene-d8	50.0	49.8			100%	76 - 129	10G5348	08/07/10 14:18
Surrogate: 4-Bromofluorobenzene	50.0	50.7			101%	67 - 147	10G5348	08/07/10 14:18
10H0263-BS1								
Benzene	50.0	55.6		ug/L	111%	80 - 121	10H0263	08/03/10 12:28
Hexane	50.0	52.6		ug/L	105%	70 - 130	10H0263	08/03/10 12:28
1,2-Dibromoethane (EDB)	50.0	52.8		ug/L	106%	80 - 135	10H0263	08/03/10 12:28
Ethylbenzene	50.0	54.6		ug/L	109%	78 - 133	10H0263	08/03/10 12:28
1,2-Dichloroethane	50.0	58.5		ug/L	117%	70 - 134	10H0263	08/03/10 12:28
Toluene	50.0	54.7		ug/L	109%	78 - 125	10H0263	08/03/10 12:28
Xylenes, total	150	155		ug/L	104%	78 - 134	10H0263	08/03/10 12:28
Methyl tert-Butyl Ether	50.0	53.9		ug/L	108%	76 - 120	10H0263	08/03/10 12:28
Surrogate: 1,2-Dichloroethane-d4	25.0	26.5			106%	63 - 140	10H0263	08/03/10 12:28
Surrogate: Dibromofluoromethane	25.0	26.0			104%	73 - 131	10H0263	08/03/10 12:28
Surrogate: Toluene-d8	25.0	24.3			97%	80 - 120	10H0263	08/03/10 12:28
Surrogate: 4-Bromofluorobenzene	25.0	24.6			98%	79 - 125	10H0263	08/03/10 12:28
10H0263-BS2								
Benzene	50.0	59.3		ug/L	119%	80 - 121	10H0263	08/04/10 10:52
Hexane	50.0	60.4		ug/L	121%	70 - 130	10H0263	08/04/10 10:52
1,2-Dibromoethane (EDB)	50.0	54.2		ug/L	108%	80 - 135	10H0263	08/04/10 10:52
Ethylbenzene	50.0	56.3		ug/L	113%	78 - 133	10H0263	08/04/10 10:52
1,2-Dichloroethane	50.0	57.3		ug/L	115%	70 - 134	10H0263	08/04/10 10:52
Toluene	50.0	56.7		ug/L	113%	78 - 125	10H0263	08/04/10 10:52
Xylenes, total	150	162		ug/L	108%	78 - 134	10H0263	08/04/10 10:52
Methyl tert-Butyl Ether	50.0	54.0		ug/L	108%	76 - 120	10H0263	08/04/10 10:52
Surrogate: 1,2-Dichloroethane-d4	25.0	25.2			101%	63 - 140	10H0263	08/04/10 10:52
Surrogate: Dibromofluoromethane	25.0	25.7			103%	73 - 131	10H0263	08/04/10 10:52

Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2827
	12045 Highway 92	Project Name:	UPS - Washington
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Attn	Robert Mangum	Received:	07/30/10 08:00

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
10H0263-BS2								
Surrogate: Toluene-d8	25.0	24.0			96%	80 - 120	10H0263	08/04/10 10:52
Surrogate: 4-Bromofluorobenzene	25.0	23.4			94%	79 - 125	10H0263	08/04/10 10:52
Polyaromatic Hydrocarbons by EPA 8270C SIM								
10G5350-BS1								
1-Methylnaphthalene	0.0333	0.0213		mg/kg wet	64%	41 - 120	10G5350	08/06/10 02:48
2-Methylnaphthalene	0.0333	0.0227		mg/kg wet	68%	48 - 121	10G5350	08/06/10 02:48
Naphthalene	0.0333	0.0227		mg/kg wet	68%	42 - 120	10G5350	08/06/10 02:48
Surrogate: Nitrobenzene-d5	0.0333	0.0360			108%	17 - 120	10G5350	08/06/10 02:48
Surrogate: 2-Fluorobiphenyl	0.0333	0.0240			72%	14 - 120	10G5350	08/06/10 02:48
Surrogate: Terphenyl-d14	0.0333	0.0240			72%	18 - 120	10G5350	08/06/10 02:48
10H0898-BS1								
1-Methylnaphthalene	0.0333	0.0193		mg/kg wet	58%	41 - 120	10H0898	08/08/10 14:52
2-Methylnaphthalene	0.0333	0.0213		mg/kg wet	64%	48 - 121	10H0898	08/08/10 14:52
Naphthalene	0.0333	0.0213		mg/kg wet	64%	42 - 120	10H0898	08/08/10 14:52
Surrogate: Nitrobenzene-d5	0.0333	0.0227			68%	17 - 120	10H0898	08/08/10 14:52
Surrogate: 2-Fluorobiphenyl	0.0333	0.0200			60%	14 - 120	10H0898	08/08/10 14:52
Surrogate: Terphenyl-d14	0.0333	0.0213			64%	18 - 120	10H0898	08/08/10 14:52
Purgeable Petroleum Hydrocarbons								
10G5392-BS1								
GRO (C4-C12) NW	10.0	10.0		mg/kg wet	100%	60 - 123	10G5392	08/03/10 00:21
Surrogate: a,a,a-Trifluorotoluene	20.0	20.0			100%	50 - 150	10G5392	08/03/10 00:21
10G5392-BS2								
GRO (C4-C12) NW	10.0	10.3		mg/kg wet	103%	60 - 123	10G5392	08/03/10 00:39
Surrogate: a,a,a-Trifluorotoluene	20.0	20.9			104%	50 - 150	10G5392	08/03/10 00:39
Extractable Petroleum Hydrocarbons with Silica Gel Treatment								
10H0043-BS1								
Diesel	40.0	37.5		mg/kg wet	94%	55 - 123	10H0043	08/04/10 03:07
Surrogate: o-Terphenyl	0.800	0.749			94%	50 - 150	10H0043	08/04/10 03:07

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Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2827
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Robert Mangum	Received:	07/30/10 08:00

PROJECT QUALITY CONTROL DATA

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
10G5348-BSD1												
Benzene		51.2		ug/kg	50.0	102%	78 - 126	3	50	10G5348		08/07/10 14:48
Hexane		51.8		ug/kg	50.0	104%	55 - 136	8	48	10G5348		08/07/10 14:48
Ethylbenzene		53.0		ug/kg	50.0	106%	79 - 130	3	50	10G5348		08/07/10 14:48
Methyl tert-Butyl Ether		56.8		ug/kg	50.0	114%	70 - 128	2	50	10G5348		08/07/10 14:48
Toluene		51.5		ug/kg	50.0	103%	76 - 126	5	50	10G5348		08/07/10 14:48
1,2-Dichloroethane		51.8		ug/kg	50.0	104%	70 - 139	4	50	10G5348		08/07/10 14:48
Xylenes, total		173		ug/kg	150	116%	80 - 130	0.7	50	10G5348		08/07/10 14:48
1,2-Dibromoethane (EDB)		52.9		ug/kg	50.0	106%	80 - 131	3	45	10G5348		08/07/10 14:48
Surrogate: 1,2-Dichloroethane-d4		50.5		ug/kg	50.0	101%	67 - 138			10G5348		08/07/10 14:48
Surrogate: Dibromofluoromethane		50.2		ug/kg	50.0	100%	75 - 125			10G5348		08/07/10 14:48
Surrogate: Toluene-d8		48.9		ug/kg	50.0	98%	76 - 129			10G5348		08/07/10 14:48
Surrogate: 4-Bromofluorobenzene		51.8		ug/kg	50.0	104%	67 - 147			10G5348		08/07/10 14:48
10H0263-BSD1												
Benzene		54.5		ug/L	50.0	109%	80 - 121	2	12	10H0263		08/03/10 12:54
Hexane		51.3		ug/L	50.0	103%	70 - 130	2	13	10H0263		08/03/10 12:54
1,2-Dibromoethane (EDB)		54.0		ug/L	50.0	108%	80 - 135	2	10	10H0263		08/03/10 12:54
Ethylbenzene		53.8		ug/L	50.0	108%	78 - 133	1	12	10H0263		08/03/10 12:54
1,2-Dichloroethane		58.4		ug/L	50.0	117%	70 - 134	0.2	25	10H0263		08/03/10 12:54
Toluene		52.6		ug/L	50.0	105%	78 - 125	4	35	10H0263		08/03/10 12:54
Xylenes, total		154		ug/L	150	103%	78 - 134	0.9	18	10H0263		08/03/10 12:54
Methyl tert-Butyl Ether		56.0		ug/L	50.0	112%	76 - 120	4	32	10H0263		08/03/10 12:54
Surrogate: 1,2-Dichloroethane-d4		26.4		ug/L	25.0	106%	63 - 140			10H0263		08/03/10 12:54
Surrogate: Dibromofluoromethane		25.9		ug/L	25.0	104%	73 - 131			10H0263		08/03/10 12:54
Surrogate: Toluene-d8		23.9		ug/L	25.0	96%	80 - 120			10H0263		08/03/10 12:54
Surrogate: 4-Bromofluorobenzene		22.0		ug/L	25.0	88%	79 - 125			10H0263		08/03/10 12:54
10H0263-BSD2												
Benzene		50.1	R2	ug/L	50.0	100%	80 - 121	17	12	10H0263		08/04/10 12:02
Hexane		53.4		ug/L	50.0	107%	70 - 130	12	13	10H0263		08/04/10 12:02
1,2-Dibromoethane (EDB)		46.4	R2	ug/L	50.0	93%	80 - 135	16	10	10H0263		08/04/10 12:02
Ethylbenzene		47.3	R2	ug/L	50.0	95%	78 - 133	18	12	10H0263		08/04/10 12:02
1,2-Dichloroethane		48.7		ug/L	50.0	97%	70 - 134	16	25	10H0263		08/04/10 12:02
Toluene		49.1		ug/L	50.0	98%	78 - 125	14	35	10H0263		08/04/10 12:02
Xylenes, total		138		ug/L	150	92%	78 - 134	16	18	10H0263		08/04/10 12:02
Methyl tert-Butyl Ether		46.8		ug/L	50.0	94%	76 - 120	14	32	10H0263		08/04/10 12:02
Surrogate: 1,2-Dichloroethane-d4		24.6		ug/L	25.0	99%	63 - 140			10H0263		08/04/10 12:02
Surrogate: Dibromofluoromethane		25.6		ug/L	25.0	102%	73 - 131			10H0263		08/04/10 12:02
Surrogate: Toluene-d8		24.4		ug/L	25.0	98%	80 - 120			10H0263		08/04/10 12:02
Surrogate: 4-Bromofluorobenzene		21.7		ug/L	25.0	87%	79 - 125			10H0263		08/04/10 12:02

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Attn	Robert Mangum	Received:	07/30/10 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
Total Metals by EPA Method 6010B										
10G5401-MS1										
Lead	12.6	40.8		mg/kg dry	27.3	104%	75 - 125	10G5401	NTG2543-01	08/03/10 00:12
Volatile Organic Compounds by EPA Method 8260B										
10G5348-MS1										
Benzene	ND	0.0521		mg/kg dry	0.0530	98%	42 - 141	10G5348	NTH0343-02	08/07/10 23:56
Hexane	0.00166	0.0577		mg/kg dry	0.0530	106%	10 - 180	10G5348	NTH0343-02	08/07/10 23:56
Ethylbenzene	ND	0.0540		mg/kg dry	0.0530	102%	21 - 165	10G5348	NTH0343-02	08/07/10 23:56
Methyl tert-Butyl Ether	ND	0.0537		mg/kg dry	0.0530	101%	34 - 154	10G5348	NTH0343-02	08/07/10 23:56
Toluene	ND	0.0536		mg/kg dry	0.0530	101%	45 - 145	10G5348	NTH0343-02	08/07/10 23:56
1,2-Dichloroethane	ND	0.0543		mg/kg dry	0.0530	102%	32 - 155	10G5348	NTH0343-02	08/07/10 23:56
Xylenes, total	ND	0.174		mg/kg dry	0.159	109%	31 - 159	10G5348	NTH0343-02	08/07/10 23:56
1,2-Dibromoethane (EDB)	ND	0.0521		mg/kg dry	0.0530	98%	30 - 155	10G5348	NTH0343-02	08/07/10 23:56
Surrogate: 1,2-Dichloroethane-d4		51.7		ug/kg	50.0	103%	67 - 138	10G5348	NTH0343-02	08/07/10 23:56
Surrogate: Dibromofluoromethane		50.4		ug/kg	50.0	101%	75 - 125	10G5348	NTH0343-02	08/07/10 23:56
Surrogate: Toluene-d8		49.0		ug/kg	50.0	98%	76 - 129	10G5348	NTH0343-02	08/07/10 23:56
Surrogate: 4-Bromofluorobenzene		49.4		ug/kg	50.0	99%	67 - 147	10G5348	NTH0343-02	08/07/10 23:56
10H0263-MS1										
Benzene	ND	56.6		ug/L	50.0	113%	65 - 151	10H0263	NTG2919-08	08/04/10 13:34
Hexane	ND	52.8		ug/L	50.0	106%	39 - 167	10H0263	NTG2919-08	08/04/10 13:34
1,2-Dibromoethane (EDB)	ND	52.5		ug/L	50.0	105%	70 - 152	10H0263	NTG2919-08	08/04/10 13:34
Ethylbenzene	ND	53.7		ug/L	50.0	107%	68 - 157	10H0263	NTG2919-08	08/04/10 13:34
1,2-Dichloroethane	0.390	56.1		ug/L	50.0	111%	72 - 137	10H0263	NTG2919-08	08/04/10 13:34
Toluene	ND	53.9		ug/L	50.0	108%	61 - 153	10H0263	NTG2919-08	08/04/10 13:34
Xylenes, total	ND	153		ug/L	150	102%	68 - 158	10H0263	NTG2919-08	08/04/10 13:34
Methyl tert-Butyl Ether	0.750	57.2		ug/L	50.0	113%	56 - 152	10H0263	NTG2919-08	08/04/10 13:34
Surrogate: 1,2-Dichloroethane-d4		25.6		ug/L	25.0	103%	63 - 140	10H0263	NTG2919-08	08/04/10 13:34
Surrogate: Dibromofluoromethane		26.2		ug/L	25.0	105%	73 - 131	10H0263	NTG2919-08	08/04/10 13:34
Surrogate: Toluene-d8		24.5		ug/L	25.0	98%	80 - 120	10H0263	NTG2919-08	08/04/10 13:34
Surrogate: 4-Bromofluorobenzene		21.9		ug/L	25.0	88%	79 - 125	10H0263	NTG2919-08	08/04/10 13:34
Polyaromatic Hydrocarbons by EPA 8270C SIM										
10G5350-MS1										
1-Methylnaphthalene	0.00524	0.0214		mg/kg dry	0.0357	45%	20 - 120	10G5350	NTG2827-05	08/06/10 03:11
2-Methylnaphthalene	0.00558	0.0236		mg/kg dry	0.0357	50%	28 - 124	10G5350	NTG2827-05	08/06/10 03:11
Naphthalene	0.00419	0.0232		mg/kg dry	0.0357	53%	10 - 135	10G5350	NTG2827-05	08/06/10 03:11
Surrogate: Nitrobenzene-d5		0.0350		mg/kg dry	0.0357	98%	17 - 120	10G5350	NTG2827-05	08/06/10 03:11
Surrogate: 2-Fluorobiphenyl		0.0225		mg/kg dry	0.0357	63%	14 - 120	10G5350	NTG2827-05	08/06/10 03:11

Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2827
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Robert Mangum	Received:	07/30/10 08:00

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270C SIM										
10G5350-MS1										
Surrogate: Terphenyl-d14		0.0239		mg/kg dry	0.0357	67%	18 - 120	10G5350	NTG2827-05	08/06/10 03:11
10H0898-MS1										
1-Methylnaphthalene	ND	0.0209		mg/kg wet	0.0331	63%	20 - 120	10H0898	NTG2834-01RE1	08/08/10 15:15
2-Methylnaphthalene	ND	0.0222		mg/kg wet	0.0331	67%	28 - 124	10H0898	NTG2834-01RE1	08/08/10 15:15
Naphthalene	ND	0.0219		mg/kg wet	0.0331	66%	10 - 135	10H0898	NTG2834-01RE1	08/08/10 15:15
Surrogate: Nitrobenzene-d5		0.0238		mg/kg wet	0.0331	72%	17 - 120	10H0898	NTG2834-01RE1	08/08/10 15:15
Surrogate: 2-Fluorobiphenyl		0.0189		mg/kg wet	0.0331	57%	14 - 120	10H0898	NTG2834-01RE1	08/08/10 15:15
Surrogate: Terphenyl-d14		0.0182		mg/kg wet	0.0331	55%	18 - 120	10H0898	NTG2834-01RE1	08/08/10 15:15
Purgeable Petroleum Hydrocarbons										
10G5392-MS1										
GRO (C4-C12) NW	2.93	467		mg/kg wet	475	98%	59 - 130	10G5392	NTG2863-07	08/03/10 01:31
Surrogate: a,a,a-Trifluorotoluene		19.6		ug/L	20.0	98%	50 - 150	10G5392	NTG2863-07	08/03/10 01:31
10G5392-MS2										
GRO (C4-C12) NW	2.67	528		mg/kg dry	519	101%	59 - 130	10G5392	NTG2912-04	08/03/10 02:06
Surrogate: a,a,a-Trifluorotoluene		20.1		ug/L	20.0	100%	50 - 150	10G5392	NTG2912-04	08/03/10 02:06
Extractable Petroleum Hydrocarbons with Silica Gel Treatment										
10H0043-MS1										
Diesel	2.64	38.1		mg/kg dry	42.9	83%	34 - 138	10H0043	NTG2827-02	08/04/10 03:26
Surrogate: o-Terphenyl		0.811		mg/kg dry	0.859	94%	50 - 150	10H0043	NTG2827-02	08/04/10 03:26

Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2827
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Robert Mangum	Received:	07/30/10 08:00

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Total Metals by EPA Method 6010B												
10G5401-MSD1												
Lead	12.6	38.6		mg/kg dry	27.6	94%	75 - 125	6	20	10G5401	NTG2543-01	08/03/10 00:15
Volatile Organic Compounds by EPA Method 8260B												
10G5348-MSD1												
Benzene	ND	0.0527		mg/kg dry	0.0532	99%	42 - 141	1	50	10G5348	NTH0343-02	08/08/10 00:26
Hexane	0.00166	0.0612		mg/kg dry	0.0532	112%	10 - 180	6	48	10G5348	NTH0343-02	08/08/10 00:26
Ethylbenzene	ND	0.0544		mg/kg dry	0.0532	102%	21 - 165	0.9	50	10G5348	NTH0343-02	08/08/10 00:26
Methyl tert-Butyl Ether	ND	0.0567		mg/kg dry	0.0532	107%	34 - 154	5	50	10G5348	NTH0343-02	08/08/10 00:26
Toluene	ND	0.0538		mg/kg dry	0.0532	101%	45 - 145	0.3	50	10G5348	NTH0343-02	08/08/10 00:26
1,2-Dichloroethane	ND	0.0531		mg/kg dry	0.0532	100%	32 - 155	2	50	10G5348	NTH0343-02	08/08/10 00:26
Xylenes, total	ND	0.173		mg/kg dry	0.160	109%	31 - 159	0.2	50	10G5348	NTH0343-02	08/08/10 00:26
1,2-Dibromoethane (EDB)	ND	0.0528		mg/kg dry	0.0532	99%	30 - 155	1	45	10G5348	NTH0343-02	08/08/10 00:26
Surrogate: 1,2-Dichloroethane-d4		52.2		ug/kg	50.0	104%	67 - 138			10G5348	NTH0343-02	08/08/10 00:26
Surrogate: Dibromofluoromethane		50.9		ug/kg	50.0	102%	75 - 125			10G5348	NTH0343-02	08/08/10 00:26
Surrogate: Toluene-d8		49.8		ug/kg	50.0	100%	76 - 129			10G5348	NTH0343-02	08/08/10 00:26
Surrogate: 4-Bromofluorobenzene		49.7		ug/kg	50.0	99%	67 - 147			10G5348	NTH0343-02	08/08/10 00:26
10H0263-MSD1												
Benzene	ND	50.1		ug/L	50.0	100%	65 - 151	12	12	10H0263	NTG2919-08	08/04/10 14:00
Hexane	ND	45.2	R2	ug/L	50.0	90%	39 - 167	16	13	10H0263	NTG2919-08	08/04/10 14:00
1,2-Dibromoethane (EDB)	ND	47.1	R2	ug/L	50.0	94%	70 - 152	11	10	10H0263	NTG2919-08	08/04/10 14:00
Ethylbenzene	ND	48.9		ug/L	50.0	98%	68 - 157	9	12	10H0263	NTG2919-08	08/04/10 14:00
1,2-Dichloroethane	0.390	49.3		ug/L	50.0	98%	72 - 137	13	25	10H0263	NTG2919-08	08/04/10 14:00
Toluene	ND	49.2		ug/L	50.0	98%	61 - 153	9	35	10H0263	NTG2919-08	08/04/10 14:00
Xylenes, total	ND	139		ug/L	150	93%	68 - 158	10	18	10H0263	NTG2919-08	08/04/10 14:00
Methyl tert-Butyl Ether	0.750	50.7		ug/L	50.0	100%	56 - 152	12	32	10H0263	NTG2919-08	08/04/10 14:00
Surrogate: 1,2-Dichloroethane-d4		24.4		ug/L	25.0	98%	63 - 140			10H0263	NTG2919-08	08/04/10 14:00
Surrogate: Dibromofluoromethane		25.4		ug/L	25.0	102%	73 - 131			10H0263	NTG2919-08	08/04/10 14:00
Surrogate: Toluene-d8		24.3		ug/L	25.0	97%	80 - 120			10H0263	NTG2919-08	08/04/10 14:00
Surrogate: 4-Bromofluorobenzene		22.0		ug/L	25.0	88%	79 - 125			10H0263	NTG2919-08	08/04/10 14:00
Polyaromatic Hydrocarbons by EPA 8270C SIM												
10G5350-MSD1												
1-Methylnaphthalene	0.00524	0.0241		mg/kg dry	0.0354	53%	20 - 120	12	35	10G5350	NTG2827-05	08/06/10 03:33
2-Methylnaphthalene	0.00558	0.0255		mg/kg dry	0.0354	56%	28 - 124	8	38	10G5350	NTG2827-05	08/06/10 03:33
Naphthalene	0.00419	0.0255		mg/kg dry	0.0354	60%	10 - 135	9	36	10G5350	NTG2827-05	08/06/10 03:33
Surrogate: Nitrobenzene-d5		0.0401		mg/kg dry	0.0354	113%	17 - 120			10G5350	NTG2827-05	08/06/10 03:33
Surrogate: 2-Fluorobiphenyl		0.0248		mg/kg dry	0.0354	70%	14 - 120			10G5350	NTG2827-05	08/06/10 03:33
Surrogate: Terphenyl-d14		0.0245		mg/kg dry	0.0354	69%	18 - 120			10G5350	NTG2827-05	08/06/10 03:33
10H0898-MSD1												

Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2827
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Robert Mangum	Received:	07/30/10 08:00

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270C SIM												
10H0898-MSD1												
1-Methylnaphthalene	ND	0.0210		mg/kg wet	0.0328	64%	20 - 120	0.6	35	10H0898	NTG2834-01R E1	08/08/10 15:39
2-Methylnaphthalene	ND	0.0233		mg/kg wet	0.0328	71%	28 - 124	5	38	10H0898	NTG2834-01R E1	08/08/10 15:39
Naphthalene	ND	0.0308		mg/kg wet	0.0328	94%	10 - 135	34	36	10H0898	NTG2834-01R E1	08/08/10 15:39
Surrogate: Nitrobenzene-d5		0.0236		mg/kg wet	0.0328	72%	17 - 120			10H0898	NTG2834-01R E1	08/08/10 15:39
Surrogate: 2-Fluorobiphenyl		0.0177		mg/kg wet	0.0328	54%	14 - 120			10H0898	NTG2834-01R E1	08/08/10 15:39
Surrogate: Terphenyl-d14		0.0180		mg/kg wet	0.0328	55%	18 - 120			10H0898	NTG2834-01R E1	08/08/10 15:39
Purgeable Petroleum Hydrocarbons												
10G5392-MSD1												
GRO (C4-C12) NW	2.93	477		mg/kg wet	475	100%	59 - 130	2	50	10G5392	NTG2863-07	08/03/10 01:49
Surrogate: a,a,a-Trifluorotoluene		20.6		ug/L	20.0	103%	50 - 150			10G5392	NTG2863-07	08/03/10 01:49
10G5392-MSD2												
GRO (C4-C12) NW	2.67	539		mg/kg dry	519	103%	59 - 130	2	50	10G5392	NTG2912-04	08/03/10 02:23
Surrogate: a,a,a-Trifluorotoluene		20.8		ug/L	20.0	104%	50 - 150			10G5392	NTG2912-04	08/03/10 02:23
Extractable Petroleum Hydrocarbons with Silica Gel Treatment												
10H0043-MSD1												
Diesel	2.64	47.6		mg/kg dry	43.3	104%	34 - 138	22	43	10H0043	NTG2827-02	08/04/10 03:45
Surrogate: o-Terphenyl		0.907		mg/kg dry	0.866	105%	50 - 150			10H0043	NTG2827-02	08/04/10 03:45

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2827
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Robert Mangum	Received:	07/30/10 08:00

CERTIFICATION SUMMARY

TestAmerica Nashville

Method	Matrix	AIHA	Nelac	Washington
NWTPH-Dx	Soil	N/A		X
NWTPH-Gx	Soil	N/A	X	X
SW846 6010B	Soil	N/A	X	X
SW846 8260B	Soil	N/A	X	X
SW846 8260B	Water	N/A	X	X
SW846 8270CSIM	Soil	N/A	X	X
SW-846	Soil			

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Client	Sierra Piedmont Eng & Geol. (2649)	Work Order:	NTG2827
	12045 Highway 92	Project Name:	UPS - Washington
	Woodstock, GA 30188	Project Number:	Union Gap
Attn	Robert Mangum	Received:	07/30/10 08:00

DATA QUALIFIERS AND DEFINITIONS

QP6	The contamination did not match any standards in our library.
R2	The RPD exceeded the acceptance limit.
Z2	Surrogate recovery was above the acceptance limits. Data not impacted.
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 RE

NTG2827

Cooler Received/Opened On 7/30/2010 @ 0800

1. Tracking # 3365 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID Raynger

2. Temperature of rep. sample or temp blank when opened: 1-2 *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 #_____

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton Drive * Nashville TN 37204
Phone: (800) 765-0980 / (615) 726-0177 Fax:(615) 726-3404
","Reg District (CA)")

Client: Sierra Piedmont Eng & Geol. (2649)
Address: 12045 Highway 92
City, State, Zip: Woodstock GA 30188
Client Invoice Contact: Dan Agramonte
Client Project Mgr: Dan Agramonte
Client Telephone#: (770) 792-6200 Fax: (770) 792-6005
Sampler Name (Print) Robert Mangum
SamplerSignature: Robert Mangum

TA Account #: 1408604 PO #:
Invoice to: Sierra Piedmont Eng & Geol. (2649)
Report to: Dan Agramonte
Project Name: UPS - Washington
Facility ID: N/A
Reg District (CA):
Site Address:
City,State,Zip: Spokane Washington

Sample ID	Date Sampled	Time Sampled	# Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	(Blue Label) HCL	(Orange Label) NaOH	(Yellow Label) Plastic H2SO4	(Yellow Label) Glass H2SO4	(Red Label) HNO3	(Black Label) None	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	(specify) Other	Analyze for: 8260B BTEX + Oxygenates (7)	8260B Single - Hexane	8270C SIM Polyaromatic Hydrocarb	Lead Total EPA 6010B	Solids Percent Dry Weight	TPH - Diesel Range by NWTPH-Dx (	TPH - NWTPH-Gx	JTG2827 3/13/10 23:59	RUSH TAT (Pre Schedule)*
SB-01 (15')	7-28-10	1015	8	✓			✓	✓											✓		✓	✓	✓	✓	✓	✓	✓		
SB-02 (20')	7-28-10	1425	8	✓			✓	✓											✓		✓	✓	✓	✓	✓	✓	✓		

COMMENTS: All turn around times are calculated from the time of receipt at TestAmerica.

* Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments;additional charges may be assessed.

There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES/SPECIAL INSTRUCTIONS: BO # 20575

8260 Oxys are EDB, 1,2-DCA, MTBE only. 8270 SIMS are 2, & 3/4 MN and Nap only

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Relinquished by:	Date:	Time:
Robert Mangum	7/29/10	0750	Client Sub	7.29.10	07:50			
Shipped Via:			Shipped Via:					
Received for TestAmerica by:	Date:	Time:	Temperature Upon Receipt: 1.2	Sample Containers Intact? Y N		QC Deliverables (Please Circle One): Level 2 Level 3 Level 4 Site Specific (If site specific, please pre-schedule w/ TestAmerica Project Manager or attach specific instructions)	Date Due of Report:	
	7/30/10	8:10		VOCs Free of Headspace? Y N				

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton Drive * Nashville TN 37204
Phone: (800) 765-0980 / (615) 726-0177 Fax: (615) 726-3404
","Reg District (CA)")

Client: Sierra Piedmont Eng & Geol. (2649)
Address: 12045 Highway 92
City, State, Zip: Woodstock GA 30188
Client Invoice Contact: Dan Agramonte
Client Project Mgr: Dan Agramonte
Client Telephone#: (770) 792-6200 Fax: (770) 792-6005
Sampler Name (Print) Robert Mangum
SamplerSignature: Robert Mangum

TA Account #: 1408604 PO #:
Invoice to: Sierra Piedmont Eng & Geol. (2649)
Report to: Dan Agramonte
Project Name: UPS - Washington
Facility ID: N/A
Reg District (CA):
Site Address:
City,State,Zip: Union Gap Washington

Sample ID	Date Sampled	Time Sampled	# Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	(Blue Label) HCL	(Orange Label) NaOH	(Yellow Label) Plastic H2SO4	(Yellow Label) Glass H2SO4	(Red Label) HNO3	(Black Label) None	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	(specify) Other	Analyze for: 8260B BTEX + Oxygenates (7)	8260B Single - Hexane	8270C SIM Polyaromatic Hydrocarb	Lead Total EPA 6010B	Solids Percent Dry Weight	TPH - Diesel Range by NWTPH-Dx (	TPH - NWTPH-Gx	RUSH TAT (Pre Schedule)*
SB-01 (7'-8')	7-27-10	1007	8	✓			✓	✓											✓		✓	✓	✓	✓	✓	✓	✓	
SB-02 (7'-8')	7-27-10	1201	8	✓			✓	✓											✓		✓	✓	✓	✓	✓	✓	✓	
SB-03 (7'-8')	7-27-10	1350	8	✓			✓	✓											✓		✓	✓	✓	✓	✓	✓	✓	

03
04
05

COMMENTS: All turn around times are calculated from the time of receipt at TestAmerica.

* Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments;additional charges may be assessed.

There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES/SPECIAL INSTRUCTIONS: *BO # 20575*

8260 Oxys are EDB, 1,2-DCA, MTBE only. 8270 SIMS are 2, & 3/4 MN and Nap only

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Relinquished by:	Date:	Time:
Robert Mangum	7/29/10	0750	Matt Sada	7-29-10	07:50			
Shipped Via:			Shipped Via:					
Received for TestAmerica by:	Date:	Time:	Temperature Upon Receipt: 1.2	Sample Containers Intact? Y N		VOCs Free of Headspace? Y N		

QC Deliverables (Please Circle One) :
Level 2 Level 3 Level 4 Site Specific
(If site specific, please pre-schedule w/ TestAmerica Project Manager or attach specific instructions)

Date Due of Report: