#140274D

Environmental Engineers, Scientists, & Planners

water & air RESEARCH, INC.

August 1, 2012

Sam Bridges
Land Rights Coordinator
City of Gainesville
PO Box 490
Gainesville, FL 32602

Re: Soil and Groundwater Testing Report for Layton Army Reserve Center
1125 NE 8th Avenue
Gainesville, Florida
Project No. 12-5373-04

Dear Mr. Bridges:

Water & Air Research, Inc. (Water & Air) is pleased to present this Limited Environmental Site Assessment Phase II Report summarizing results and findings of recent soil and groundwater testing completed at the Layton Army Reserve Center (LARC) site. The reported property uses included storage of fuels and maintaining an oil/water separator.

1 SITE BACKGROUND

Based on documentation provided by The City of Gainesville (The City) and forwarded by the Army Reserve, the site was developed in the early 1950s as an Army Reserve base. Site operations included training of personnel, storage of equipment, vehicles, chemicals, and fuels. The facility maintained several underground storage tanks (USTs) and aboveground storage tanks (ASTs), operated an oil/water separator, and reportedly had some minor leaks and spills during operations. The documentation showed closure activities, including testing, were completed to show if any impacts such as a spill or leak had occurred for all potential impact areas, except for two areas.

An UST was discovered during the decommissioning of the oil/water separator. The tank was removed, and soil samples were screened for petroleum vapors. The screening showed that no contaminants had leaked from the tank; however, no groundwater sample had been collected, and no samples were taken down gradient from the former UST and oil water separator system.

A former heating oil AST was in use for the property on the south side of the structure. The tank had been removed, but no soil or shallow groundwater testing was found.

The following work scope was completed in the two areas identified with potential recognized environmental concerns (RECs).

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2 PHASE II ENVIRONMENTAL SITE ASSESSMENT ACTIVITIES

Soil and groundwater testing was completed at the LARC site to determine if impacts from the former oil/water separator system and the former fuel oil tank used at the property had occurred.

The site assessment work scope included:

- Completing nine soil borings into the water table or refusal,
- collecting soil samples for field testing using an organic vapor meter (OVM),
- analyzing select soil samples for laboratory testing, and
- collecting groundwater samples for analytical laboratory testing.

2.1 Soil Sampling, Field Testing, and Analytical Methods

On July 20, 2012, Water & Air completed nine soil borings at depths ranging between six and 13 feet below land surface (bls). Soil samples were collected in accordance with Florida Department of Environmental Protection (FDEP) Standard Operating Procedures (SOPs). Soil borings OSW-1 through OSW-4 were completed around the former oil/water separator system. Soil borings HO-1 through HO-5 were completed around the former aboveground heating oil tank pad.

Soil borings were advanced using a hand auger. Soil samples were collected at two-foot vertical intervals for field screening with an OVM equipped photo ionization detector (PID). The PID was calibrated in the field according to manufacturer specifications. Soil samples for OVM field screening were collected above the water table. The water table was encountered at approximately 8.5 to 10 feet bls.

Soil samples for laboratory analysis were collected from the sample interval with the highest recorded reading on the OVM or in the location most likely to have contamination.

None of the soil samples collected registered readings above background levels on the OVM. The soil sample from the area of the oil/water separator (OSW-3-8 was collected above the water table from the boring located in the center of the former UST.

The former heating oil AST location was identified on a map forwarded by The City. The soil sample from the heating oil AST was taken above the water table from the boring located in the expected down gradient south end of the former tank pad.

Soil boring locations OSW-1 through OSW-4 and HO-1 through HO-5 are shown on Figure 2.

Soil sample OSW-3-8 (boring 3 at eight feet bls) was analyzed by EPA Method 8260 (full list) for volatile organic aromatics (VOAs), EPA Method 8270 for semi-volatile organic carbons, FL-PRO for TRPH (total recoverable petroleum hydrocarbons), and EPA Method 6010 for arsenic, cadmium, chromium, and lead.

Soil sample HO-1-8 (boring 1 at eight feet bls) was analyzed for EPA Method 8260 for VOAs, EPA Method 8270 for semi volatile organic carbons, and FL-PRO for TRPH. The field notes, instrument calibration log, and boring logs are provided in Appendix A.

Soil borings OSW-1, OSW-3, HO-1, and HO-4 were further advanced into the water table to depths between 13 and 13.5 feet bls. Temporary monitoring wells were constructed using ten feet of two-inch diameter PVC screens (0.01-inch slot size) attached to 2-inch diameter PVC riser pipe extending to the surface. A 20/30 filter sand pack was placed in the annular space between the borehole and the well screen. The wells were developed using a peristaltic pump until clear.

2.2 Groundwater Sampling and Analytical Methods

On July 23, 2012, groundwater samples were collected from the four temporary monitoring wells. The oil water separator UST wells (OSW-1 and OSW-3) groundwater samples were analyzed by EPA Method 8260, EPA Method 8270, FL-PRO, and EPA Method 6010. The heating oil AST wells (HO-1 and HO-4) groundwater samples were analyzed by EPA Methods, 8270 and FL-PRO. The field notes, instrument calibration log, and groundwater sampling logs are provided in Appendix A.

3.0 SITE ASSESSMENT RESULTS AND FINDINGS

The following section summarizes the results and findings of the additional site assessment technical activities.

3.1 Soil Testing Results and Findings

Soil testing OVM results did not record any reading above background levels.

Soil analytical results from borings installed at the former oil water separator UST OSW-3-8, and heating oil AST HO-1-8 did not identify any parameters above the laboratory practical quantitation limits or the soil cleanup target levels (SCTLs) list in Florida Administrative Code (FAC) 62-777.

The soil analytical laboratory report and chain-of-custody form are provided in Appendix B.

3.2 Groundwater Results and Findings

Groundwater analytical results from oil water separator UST OSW-1, OSW-3, and the heating oil AST HO-1 and HO-4 were reported below the laboratory practical quantitation limits and the groundwater cleanup target levels (GCTLs) set forth in FAC 62-777for the parameters analyzed.

The groundwater analytical laboratory report and chain-of-custody form are provided in Appendix C.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the testing results of soil and groundwater in the REC areas of the former oil/water separator and the former fuel oil AST, no adverse impacts from these two areas were identified.

If you have any questions or need additional information, please contact myself or Simon Cordery.

Sincerely,
Water & air Research, Inc.

Simon Cordery
Scientist II

Attachments:

Figures:
1 Site Layout Showing Soil Boring Locations

Appendices:
A Field Notes, Instrument Calibration Logs, Boring Logs, and Groundwater Sampling Logs
B Soil Laboratory Analytical Report and Chain-of-Custody
C Groundwater Analytical Laboratory Report and Chain-of-Custody

Figure

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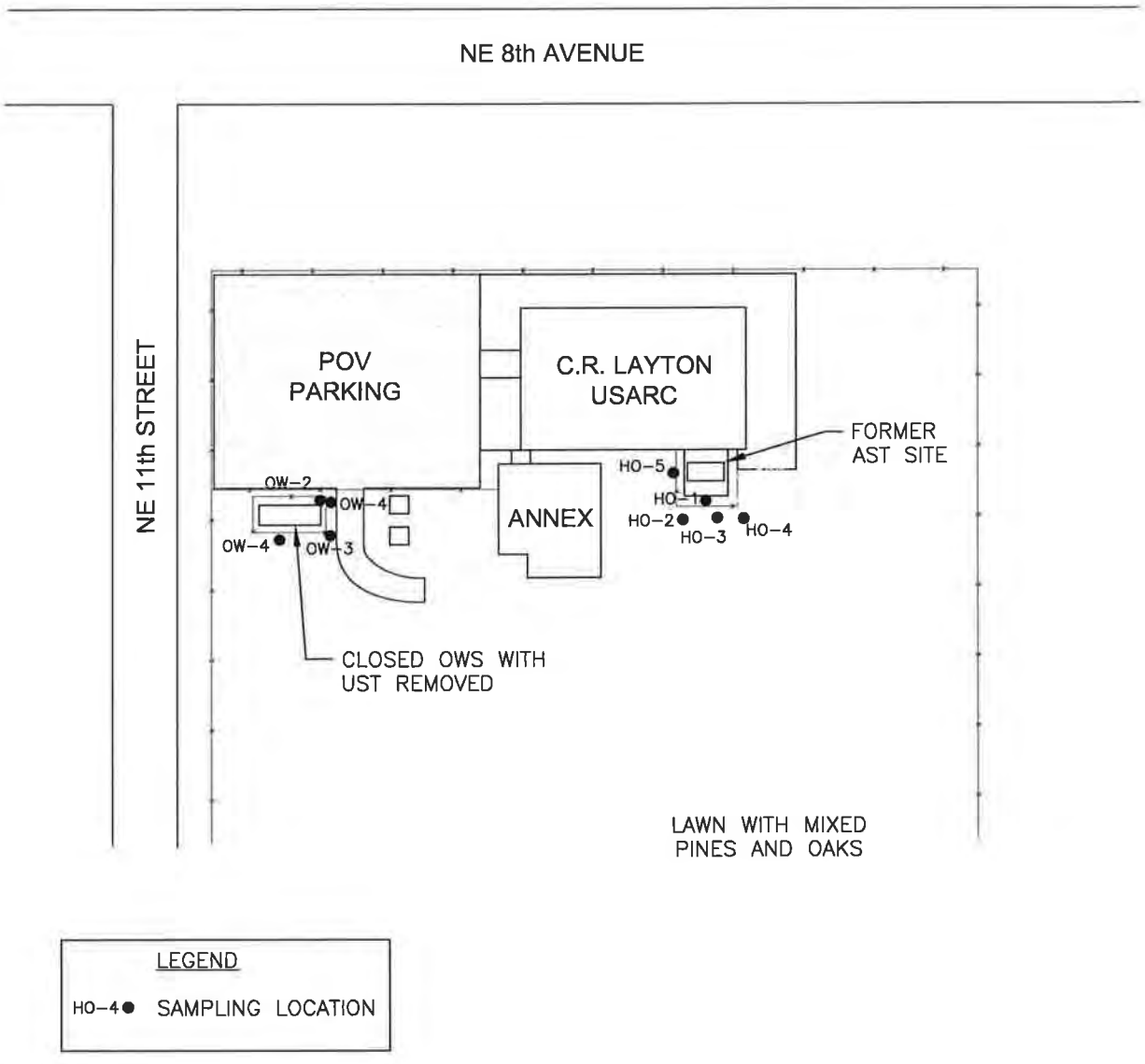

FIGURE 1.
SITE LAYOUT SHOWING SAMPLING LOCATIONS
C.R. LAYTON USARC
GAINESVILLE, FLORIDA

Source: Water & Air Research, Inc., 2012.

water & air RESEARCH, INC.

Appendix A

Field Notes, Instrument Calibration Logs, Boring Logs, and Groundwater Sampling Logs

KRS, SAC, ARK City of Gainesville #140274D 7/30/12
Army Reserve

800 Arrive on site

815 SAC lays out areas for SB & TMW's

820 KRS sanitizes jars; calibrate equipment
KRS ~~SAC~~ ARK begins hand augering

Hit refusal at 6' bls at proposed OSW-4. moved ~4-5' south & hit refusal at 5' bls. Moved 5' west & hit refusal again at 5' bls. Dark red hard rocky layer. ~~South~~ KRS OSW-4

well	depth	OVA	net OVA	
OSW-1	2	0	0	OSW-1 was hand-augered to 13 feet and well was installed.
	4	0	0	
	6	0	0	
	8	0	0	
OSW-3	2	0	0	OSW-3 was hand-augered to 13 feet and well was installed.
	4	0	0	
	6	0	0	
	8	0	0	

Wells were installed using 5 feet of screen & 10 feet of riser (2-inch PVC)

1224 Began developing OSW-3

KRS
Hit refusal at 5.5' bls at proposed OSW-2; moved 5' north and hit refusal at 5.5' bls again. Took OVA data up till refusal.
Installed well at OSW-1 because refusal was not found. Layer might've been broken at installation of oil/water seperator.

Reviewed
AUG 02 2012
BPC

KRS, ARK, SAC — City of Gainesville — #140274D — 7/20/12

Army Reserve

	depth (ft)		reading	Net OVA (ppm)
OSW-2	2	0	0	0
	4	0	0	0
	5 5			

1323 Stopped purging OSW-3

1329 Began purging OSW-1

1500 Finished purging OSW-1

1553 Begn purging HO-4

well	depth (ft)		reading	net OVA (ppm)	
HO-1	~~depth~~ 2	0	0	0	HO-1 was hand augered to 13 5ft & well was installed.
	4	0.7	0.7	0	
	~~5 5~~ 5.5	0.7	0.7	0	
	8	0.7	0.7	0	
HO-2	2	0.7	0.7	0	
	4	0.7	0.7	0	
	6	0	0	0	
	8	0	0	0	
HO-3	2	0.7	0.7	0	
	4	0.7	0.7	0	
	6	0	0	0	
	8	0.7	0.7	0	

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BPL

1635 Stopped purging HO-4, began purging HO-1

HO-4	2	0.7	0.7	0	HO-4 was hand-augered to 13 ft & well was installed.
	4	0.7	0.7	0	
	6	0	0	0	
	8	0.7	0.7	0	
HO-5	2	0.7	0.7	0	
	4	0	0	0	
	6	0.7	0.7	0	
	8	0.7	0.7	0	

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1800 Verify equipment; load truck

1815 Leave site

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Field Instrument Calibration Log

PROJECT NAME: City of Gainesville, Army Reserve PROJECT LOCATION: Gainesville, FL

INSTRUMENT #_____

TURBIDIMETER - SOP FT 1600

	DATE	TIME	EXPIRATION DATE**	STD VALUE (NTU)	INSTRUMENT RESPONSE (NTU)	% DIFF	PASS (Y, N)***		SAMPLER INITIALS	COMMENTS
CCV*										
CCV*										

INSTRUMENT # PID #3

PID - PER MANUFACTURERS REQUEST

	DATE	TIME	EXPIRATION DATE***	STD VALUE (ppm)		INSTRUMENT RESPONSE (ppm)		% DIFF		PASS (Y, N)		RF = 1.8 (Y, N)	SAMPLER INITIALS	COMMENTS
IC*	7/20/12	824	6/2014	0	230	0	408	0	<10	Y	Y	Y	KRS	
ICV*		825	6/2014	0	230	0	413	0	<10	Y	Y	Y	KRS	
CCV*	↓	1800	6/2014	0	230	0	399		<10	Y	Y	Y	KRS	

INSTRUMENT #_____

FID - PER MANUFACTURERS REQUEST

	DATE	TIME	EXPIRATION DATE***	STD VALUE (ppm)		INSTRUMENT RESPONSE (ppm)		% DIFF		PASS (Y, N)			SAMPLER INITIALS	COMMENTS
IC*				0	98									
ICV*				0	98									
CCV*				0	98									

Notes:

* **IC**= Initial Calibration **ICV**= Initial Calibration Verification **CCV**= Continuing Calibration Verification

**Standard Purchased From Hach Company.

*** Standard Purchased From Liquid Technology

**** Acceptance Criteria: **Turbidity**: Theoretical value(NTU) of 0.1-10, within 10%; Theoretical value(NTU) of 11-40, within 8%; Theoretical value(NTU) of 41-100, within 6.5%; Theoretical value(NTU) of >100 within 5% **PID**: ±10% ppm **FID**: ±10% ppm

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BORING LOG

Boring/Well Number: HO-1	Permit Number: NA		FDEP Facility Identification Number: NA
Site Name: City of Gainesville Army Reserve	Borehole Start Date: 7/20/12 End Date:	Borehole Start Time: 1500 ☐ AM ☒ PM End Time: 1600 ☐ AM ☒ PM	
Environmental Contractor: Water & Air	Geologist's Name: NA		Environmental Technician's Name: Caty
Drilling Company: NA	Pavement Thickness (inches): 0	Borehole Diameter (inches): 2	Borehole Depth (feet): 13.5
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 6.0	Measured Well DTW (in feet after water recharges in well): 10.0	OVA (list model and check type): 580B OVM ☒ 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 (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	dark sand	SP		
						0	2	dark sand	SP		
							3	dark sand	SP		
						0	4	tan sand	SC		
							5	clayey sand			
						0	6	6' moist	SC		
							7	reddish clay rocks & sandy clay	CL		
HA	8					0	8				
							9				
							10				
							11				
							12				

Reviewed by AUG 02 2012

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

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

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BORING LOG

Boring/Well Number: HO-2	Permit Number: NA		FDEP Facility Identification Number: NA
Site Name: City of Gainesville Army Reserve	Borehole Start Date: End Date: 7/20/12	Borehole Start Time: 1700 ☐ AM ☒ PM End Time: 1730 ☐ AM ☒ PM	
Environmental Contractor: water & Air	Geologist's Name: NA		Environmental Technician's Name: Adam
Drilling Company: NA	Pavement Thickness (inches): 0	Borehole Diameter (inches): 2	Borehole Depth (feet): 8
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 8	Measured Well DTW (in feet after water recharges in well): NA	OVA (list model and check type): ☒ 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 (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	sand	SP		
							2	sand	SP		
							3	sand	SP		
							4	tan silty sand	SM		
							5	clayey sand	SC		
							6	" "	SC		
							7	" "	SC		
							8	moist			
							9				
							10				
							11				
							12				

Reviewed by:
AUG 02 2012

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

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

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BORING LOG

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Boring/Well Number: HO-3	Permit Number: NA	FDEP Facility Identification Number: NA
Site Name: City of Gainesville Army Reserve	Borehole Start Date: 7/20/12 End Date:	Borehole Start Time: 1600 ☐ AM ☒ PM End Time: 1630 ☐ AM ☒ PM
Environmental Contractor: Water & Air	Geologist's Name: NA	Environmental Technician's Name: Adam
Drilling Company: NA	Pavement Thickness (inches): 0	Borehole Diameter (inches): 2
Borehole Depth (feet): 8.5		
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 8	Measured Well DTW (in feet after water recharges in well):
OVA (list model and check type): ☒ 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 (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	sand	SP		
						0	2	sand	SP		
							3		SM		
						0	4	silty sand			
							5	clayey sand	SC		
						0	6				
							7	clay	CL		
						0	8	clayey sand moist	SC		
							9				
							10				
							11				
							12				

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AUG 02 2012

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

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BORING LOG

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Boring/Well Number: HO-4	Permit Number: NA	FDEP Facility Identification Number: NA
Site Name: City of Gainesville Army Reserve	Borehole Start Date: 7/20/12 End Date: 7/20/12	Borehole Start Time: 1400 ☐ AM ☒ PM End Time: 1500 ☐ AM ☒ PM
Environmental Contractor: Water & Air	Geologist's Name: NA	Environmental Technician's Name: Katy
Drilling Company: NA	Pavement Thickness (inches): 0	Borehole Diameter (inches): 2
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 8.0	Measured Well DTW (in feet after water recharges in well): 9.0

Borehole Depth (feet): ~~8.5~~ 13

OVA (list model and check type): ~~☒~~ 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 (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	sand/dirt	SP		
						0	2	silty sand	SM		
							3	& clayey sand	SC		
						0	4				
							5	clayey sand	SC GC		
						0	6				
							7	sandy clay	CL		
						0	8	clayey sand moist	SC		
							9	"			
							10	"			
							11	"			
							12	EOB at 13'			

Reviewed by:
AUG 02 2012

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

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

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BORING LOG

Boring/Well Number: OSW-1	Permit Number: NA	FDEP Facility Identification Number: NA
Site Name: City of Gainesville Army Reserve	Borehole Start Date: 7/20/12 End Date:	Borehole Start Time: 1100 [X] AM [ ] PM End Time: 1200 [ ] AM [X] PM
Environmental Contractor: Water & Air	Geologist's Name: NA	Environmental Technician's Name: Caty
Drilling Company: NA	Pavement Thickness (inches): 0	Borehole Diameter (inches): 2
Borehole Depth (feet): 13		
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 8.5	Measured Well DTW (in feet after water recharges in well): 8.5
OVA (list model and check type): [ ] FID [X] PID		

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

(describe if other or multiple items are checked):

Borehole Completion (check one): [X] Well [ ] Grout [ ] Bentonite [ ] Backfill [ ] Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	sand (silty)	SM		
						0	2				
							3	sand (beige)	SP		
						0	4				
							5	clayey sand	SC		
						0	6				
							7	clayey sand	SC		
						0	8	clay	CL		
							9	sandy clay 8.5 wet	CL		
							10				
							11				
							12				

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

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

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BORING LOG

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Boring/Well Number: GSW-2	Permit Number: NA	FDEP Facility Identification Number: NA
Site Name: City of Gainesville Army Reserve	Borehole Start Date: 7/20/12 End Date:	Borehole Start Time: 1000 [X] AM [ ] PM End Time: 1100 [X] AM [ ] PM
Environmental Contractor: Water & Air	Geologist's Name: NA	Environmental Technician's Name: Adam
Drilling Company: NA	Pavement Thickness (inches): NA	Borehole Diameter (inches): 2
Borehole Depth (feet): ~~5~~ 6		
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): NA	Measured Well DTW (in feet after water recharges in well): NA
OVA (list model and check type): ~~MINI~~ [X] FID [X] PID		

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

(describe if other or multiple items are checked):

Borehole Completion (check one): [ ] Well [ ] Grout [ ] Bentonite [X] Backfill [ ] Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
						0	1	Grey Dirt	SP		
							2	Grey Tan sand	SP		
						0	3	Brown & Tan Sand	SP		
							4				
						0	5	Sand w/ red rock layer			
							6	refusal at 6.0'			
							7				
							8				
							9				
							10				
							11				
							12				

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

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

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BORING LOG

Boring/Well Number: ~~OVS-3~~ OSW-3	Permit Number: NA	FDEP Facility Identification Number: Na
Site Name: City of Gainesville Army Reserve	Borehole Start Date: 7/20/12 End Date: 7/20/12	Borehole Start Time: 900 [X] AM [ ] PM End Time: 1000 [X] AM [ ] PM
Environmental Contractor: Water & Air	Geologist's Name: NA	Environmental Technician's Name: Katy
Drilling Company: NA	Pavement Thickness (inches): 0	Borehole Diameter (inches): 2
Borehole Depth (feet): 13		
Drilling Method(s): Hand Auger	Apparent Borehole DTW (in feet from soil moisture content): 8.5	Measured Well DTW (in feet after water recharges in well): 8.5
OVA (list model and check type): ~~MSA~~ [ ] FID [X] PID		

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

(describe if other or multiple items are checked):

Borehole Completion (check one): [X] Well [ ] Grout [ ] Bentonite [ ] ~~Backfill~~ ons Backfill [ ] Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA							1	black sand	SM		
						0	2				
							3	white sand	SM		
						0	4	white sand w/ red clay rocks	SP		
							5	~~Sandy clay~~ clayey sand	SC		
						0	6	~~clayey Sand~~ Sandy clay	CL		
							7	clay	CL		
							8	sandy clay	CL		
HA	8					0	9	8.5 moist Saturated sand	SM		
							10				
							11				
							12				

Reviewed by

AUG 02 2012

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

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

#140274D

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Page 1 of 1

Boring/Well Number: OSW-4	Permit Number: NA		FDEP Facility Identification Number: NA
Site Name: City of Gainesville Army Reserve	Borehole Start Date: 7/23/12 End Date:	Borehole Start Time: 1100 [X] AM [ ] PM End Time: 1130 [X] AM [ ] PM	
Environmental Contractor: Water & Air	Geologist's Name: NA		Environmental Technician's Name: KRS
Drilling Company: NA	Pavement Thickness (inches): 0	Borehole Diameter (inches): 2	Borehole Depth (feet): 5.5
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): NA	Measured Well DTW (in feet after water recharges in well): NA	OVA (list model and check type): [X] FID [X] PID

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

(describe if other or multiple items are checked):

Borehole Completion (check one): [ ] Well [ ] Grout [ ] Bentonite [X] Backfill [ ] Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
						0	1	Grey Dirt	SP		
							2	Grey Dark Brown sand	SP		
							3	Tan Light Brown Sand	SP		
						0	4				
							5	Red Hard Pan			
							6				
							7				
							8				
							9				
							10				
							11				
							12				

Reviewed by:

AUG 02 2012

BR

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

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

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: | of |

1566373

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Water and Air	Report To: Jason Corkery	Attention:
Address: 6821 SW Archer Rd.	Copy To: Tammie Cutcher	Company Name:
Gainesville FL 32608		Address:
Email To: Jason Corkery	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: City of Gainesville	Pace Project Manager:
Requested Due Date/TAT:	Project Number: 1125 NE 8th AVE	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location
STATE: _____

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COLLECTED: COMPOSITE START TIME	COLLECTED: COMPOSITE END/GRAB DATE	COLLECTED: COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	Analysis Test	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GW 1 C		SL	G	7/11/12	1115				6										X	X	
2	HCID 1 C		SL	G	7/11/12	1104				6										X	X	
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

Reviewed by:
AUG 02 2012
BE

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
		7/11/12	1800		7/11/12		
HCID PCB's							

#140274D

3

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:						
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):	7/20/12				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

#140274D

KRS City of Gainesville Army Reserve 7/23/12

0900 Arrive on site

0905 Calibrate equipment

0906 Open wells to equilibrate

0917

Well	DTW
OSW-3	8.29
OSW-1	8.30
HO-1	10.32
HO-4	9.86

0929 Began purging first well to sample

SP	depth	reading		net OVA (ppm)
OSW-4	2	0.7	0.7	0
	4	0.7	0.7	0

1242 Finished sampling last well

1250 Verify equipment

1257 Load truck

1320 Leave site

Reviewed by

AUG 02 2012

BR

Field Instrument Calibration Log

PROJECT NAME: City of Gainesville PROJECT LOCATION: Gainesville, FL

INSTRUMENT # YSI-550A-ARK

DISSOLVED OXYGEN - SOP FT 1500

	DATE	TIME	WATER-SATURATED AIR (Y, N)	STD VALUE (%)	STD VALUE (mg/L)	TEMP (°C)	THEORETICAL SATURATION (mg/L)	PASS (Y, N)***	SAMPLER INITIALS	COMMENTS
IC*	7/23/12	905	Y	100	---	---	---	Y	KDS	
ICV*	↓	905	Y	---	8.14	25.5	8.188	Y	↓	
CCV*		1253	Y	---	7.23	32.6	7.2	Y		

INSTRUMENT # Combo-GW2

pH - SOP FT 1100

	DATE	TIME	EXPIRATION DATE**	LOT #	STD VALUE (SU)	INSTRUMENT RESPONSE (SU)	PASS (Y, N)***	SAMPLER INITIALS	COMMENTS
IC*	7/23/12	906	11/2012	110516B	7	7.01	Y	CDS	
		907	3/2013	120312C	4.01	4.00	Y		
ICV*		907	3/2013	110915D	10	9.88	Y		
CCV*	↓	1254	11/2012	110516B	7	7.05	Y		
		1255	3/2013	120312C	4.01	4.05	Y	↓	

INSTRUMENT # Combo-GW2

SPECIFIC CONDUCTANCE - SOP FT 1200

	DATE	TIME	EXPIRATION DATE**	LOT #	STD VALUE (µmhos/cm)	INSTRUMENT RESPONSE (µmhos/cm)	% DIFF	PASS (Y, N)***	SAMPLER INITIALS	COMMENTS
IC*	7/23/12	908	3/2013	120312A	718 / 1413	1443	<5	Y	CDS	
ICV*	↓	909	11/2012	120312B	100	104	<5	Y	↓	
CCV*		1256	3/2013	120312A	718 (1413)	1411	<5	Y		

Notes:

* **IC**= Initial Calibration **ICV**= Initial Calibration Verification **CCV**= Continuing Calibration Verification

** Standard Purchased From Exaxol Chemical Corporation

*** Acceptance Criteria: **Dissolved Oxygen**: ± 0.3 mg/L **pH**: ± 0.2 units **Specific Conductance**: ± 5%

Reviewed by

AUG 02 2012

#1402740

Field Instrument Calibration Log

PROJECT NAME: City of Gainesville PROJECT LOCATION: Gainesville, FL

INSTRUMENT # TB #4

TURBIDIMETER - SOP FT 1600

	DATE	TIME	EXPIRATION DATE**	STD VALUE (NTU)	INSTRUMENT RESPONSE (NTU)	% DIFF	PASS (Y, N)***		SAMPLER INITIALS	COMMENTS
CCV*	7/23/12	910	10/10/12	5.68	5.66	<10	Y		KRS	
		910		55.0	55.0	<6.5	Y			
		911		509	507	<5	Y			
CCV*		1250		5.68	5.87	<10	Y			
		1251		55.0	55.6	<6.5	Y		V	
		1252		509	506	<5	Y			

INSTRUMENT # PID #4

PID - PER MANUFACTURERS REQUEST

	DATE	TIME	EXPIRATION DATE***	STD VALUE (ppm)		INSTRUMENT RESPONSE (ppm)		% DIFF		PASS (Y, N)		RF = 1.8 (Y, N)	SAMPLER INITIALS	COMMENTS
IC*	7/23/12	912	6/2014	0	230	0	395	<0	<5	Y	Y	Y	KRS	
ICV*		913		0	230	0	400	0	<5	Y	Y	Y	KRS	
CCV*	V	1253		0	230	0	413	0	<5	Y	Y	Y	V	

INSTRUMENT # _____

FID - PER MANUFACTURERS REQUEST

	DATE	TIME	EXPIRATION DATE***	STD VALUE (ppm)		INSTRUMENT RESPONSE (ppm)		% DIFF		PASS (Y, N)			SAMPLER INITIALS	COMMENTS
IC*				0	98									
ICV*				0	98									
CCV*				0	98									

Notes:

* **IC**= Initial Calibration **ICV**= Initial Calibration Verification **CCV**= Continuing Calibration Verification

**Standard Purchased From Hach Company.

*** Standard Purchased From Liquid Technology

**** Acceptance Criteria: **Turbidity**: Theoretical value(NTU) of 0.1-10, within 10%; Theoretical value(NTU) of 11-40, within 8%; Theoretical value(NTU) of 41-100, within 6.5%; Theoretical value(NTU) of >100, within 5% **PID**: ±10% ppm **FID**: ±10% ppm

Reviewed by

AUG 02 2012

BTC

#140274D

#140274D

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ~~OSW-1~~ KAS City of Gainesville Army Post		SITE LOCATION: Gainesville, FL	
WELL NO: OSW-1	SAMPLE ID: OSW-1		DATE: 7/23/12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: ~~16~~ 15 feet to ~~18~~ 25 feet	STATIC DEPTH TO WATER (feet): 8.30	PURGE PUMP TYPE OR BAILER: P

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (~~18~~ 15 feet - 8.30 feet) X 0.16 gallons/foot = ~~0.78~~ 1.1 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10.30	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10.30	PURGING INITIATED AT: 1030	PURGING ENDED AT: 1041	TOTAL VOLUME PURGED (gallons): 1.56

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1037	1.0	1.0	0.14	9.51	6.19	26.0	140	3.57	19.0	clear	none
1039	0.28	1.28	0.14	~~9.51~~ 9.51	6.17	26.0	140	3.77	18.5	"	"
1041	0.28	1.56	0.14	9.51	6.16	26.0	137	3.70	17.9	"	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Katy / WAT	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1042	SAMPLING ENDED AT: 1050
PUMP OR TUBING DEPTH IN WELL (feet): 10.30	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
OSW-1	3	CG	40mL	HCl	—	<2	8260	RFPP	~200
OSW-1	2	AG	1L	H_2SO_4	—	<2	EL-PRO	PP	~200
OSW-1	2	AG	1L	Ice	—	<2	8270	PP	~500
OSW-1	1	PE	250mL	HNO_3	—	<2	6010	PP	~500
OSW-1	1	AG	1L	Ice	—	<2	PCBs	PP	~500

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Reviewed by:

Revision Date: February 12, 2009

AUG 02 2012

BFL

#140274D

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: City of Gainesville Army Reserve	SITE LOCATION: Gainesville, FL	
WELL NO: OSW-3	SAMPLE ID: OSW-3	DATE: 7/23/12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 8 feet to ~~13~~ 18 feet	STATIC DEPTH TO WATER (feet): 8.29	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH (feet) – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (~~yes~~ 13.15 feet – 8.29 feet) X 0.16 gallons/foot = ~~0.75~~ 1.425 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10.29	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10.29	PURGING INITIATED AT: 929	PURGING ENDED AT: 942	TOTAL VOLUME PURGED (gallons): 1.84

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
936	1.0	1.0	0.14	9.49	6.17	25.3	262	4.22	16.3	clear	none
938	0.28	1.28	0.14	9.49	6.01	25.3	198	4.64	18.4	"	"
940	0.28	1.56	0.14	9.49	5.87	25.3	197	4.73	11.8	"	"
942	0.28	1.84	0.14	9.49	5.85	25.3	190	4.78	7.47	"	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Katy / WAR	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 943	SAMPLING ENDED AT: 948
PUMP OR TUBING DEPTH IN WELL (feet): 10.29	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
OSW-3	3	CG	40mL	HCl	—	5.85	8260	RFPP	~100
OSW-3	2	AG	1L	Ice	—	5.85	8270	PP	~500
OSW-3	2	AG	1L	H_2SO_4	—	5.85	TRPH	PP	~500
OSW-3	1	PE	250mL	HNO_3	—	5.85	6010	PP	~500
OSW-3	1	AG	1L	Ice	—	5.85	PCBs	PP	~500

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Reviewed by

AUG 02 2012

Revision Date: February 12, 2009

#140274D

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: City of Gainesville Army Reserve		SITE LOCATION: Gainesville, FL	
WELL NO: HO-1	SAMPLE ID: HO-1		DATE: 7/23/12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 10 feet to 15 feet	STATIC DEPTH TO WATER (feet): 10.32	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (15 feet − 10.82 feet) X 0.16 gallons/foot = 0.74 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.32	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~~12.3~~ 14.8	PURGING INITIATED AT: 1115	PURGING ENDED AT: 1139	TOTAL VOLUME PURGED (gallons): 1.46

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1123	0.5	0.50	0.06	14.7	6.68	25.9	211	3.92	96.3	cloudy	none
1125	0.12	0.62	0.06	14.7	6.69	25.9	210	4.05	99.0	"	"
1139	0.84	1.46	0.06	14.7	6.70	25.9	208	3.95	~~10.3~~ 10.3	"	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Katy / WAR	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1140	SAMPLING ENDED AT: 1151
PUMP OR TUBING DEPTH IN WELL (feet): 14.8	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
HO-1	3	CG	40mL	HCl	—	6.70	8260	RFPP	~100
HO-1	2	AG	~~1L~~ 1L	Ice	—	6.70	8310	PP	~500
HO-1	2	AG	2 1L	H_2SO_4	—	6.70	EL-Pro	PP	~500

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Reviewed by

Revision Date: February 12, 2009

AUG 02 2012

VPL

#140274D

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: City of Gainesville Army Reserve		SITE LOCATION: Gainesville, FL	
WELL NO: HO-4	SAMPLE ID: HO-4		DATE: 7/23/12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 10 feet to 15 feet	STATIC DEPTH TO WATER (feet): 9.86	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (15 feet – 9.86 feet) X 0.16 gallons/foot = 0.82 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11.86	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13.5	PURGING INITIATED AT: 1205	PURGING ENDED AT: 1231	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1212	1.0	1.0	0.14	12.93	6.60	25.7	269	1.51	71000	cloudy	none
1227	~~0.71.4~~	2.4	0.14	12.93	6.62	25.6	229	4.98	20.0	"	"
1229	0.28	2.68	0.14	12.93	6.62	25.6	230	5.02	18.7	"	"
1231	0.28	2.96	0.14	12.93	6.63	25.5	230	5.12	18.3	"	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Katy/WAR	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1232	SAMPLING ENDED AT: 1242
PUMP OR TUBING DEPTH IN WELL (feet): 13.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
HO-4	3	CG	40mL	HCl	–	6.63	8260	RFPP	~100
HO-4	2	AG	1L	Ice	–	6.63	8310	PP	~500
HO-4	2	AG	1L	H_2SO_4	–	6.63	FL-PRO	PP	~500

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

AUG 02 2012

BFL

Appendix B

Soil Laboratory Analytical Report and Chain-of-Custody

#140274D
Pace Analytical Services, Inc.
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

July 30, 2012

Tammie Gardner
Water and Air Research
6821 Southwest Archer Road
, 35608

RE: Project: City of Gainesville Phase 2BSA
Pace Project No.: 3562982

Dear Tammie Gardner:
Enclosed are the analytical results for sample(s) received by the laboratory on July 21, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Martha Montero

martha.montero@pacelabs.com
Project Manager

Enclosures

cc: Simon Cordery, Water and Air Research

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Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: City of Gainesville Phase 2BSA
Pace Project No.: 3562982

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Arizona Certification #: AZ0735
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH 0216
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL765
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
U.S. Virgin Islands Certification: FL NELAC Reciprocity
Virginia Certification #: 00432
Virginia Environmental Certificate #: 460165
Washington Certification #: C955
Wyoming Certification: FL NELAC Reciprocity
Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE SUMMARY

Project: City of Gainesville Phase 2BSA
Pace Project No.: 3562982

Lab ID	Sample ID	Matrix	Date Collected	Date Received
3562982001	OSW-3-8	Solid	07/20/12 11:12	07/21/12 11:10
3562982002	HO-1-8	Solid	07/20/12 14:00	07/21/12 11:10

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SAMPLE ANALYTE COUNT

Project: City of Gainesville Phase 2BSA
Pace Project No.: 3562982

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3562982001	**OSW-3-8**	FL-PRO	JTT	3	PASI-O
		EPA 6010	IST	4	PASI-O
		EPA 8270	EAO	67	PASI-O
		EPA 8260	JBH	42	PASI-O
		ASTM D2974-87	WMW	1	PASI-O
3562982002	**HO-1-8**	FL-PRO	JTT	3	PASI-O
		EPA 8270	AJB	21	PASI-O
		EPA 8260	JBH	9	PASI-O
		ASTM D2974-87	WMW	1	PASI-O

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Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: City of Gainesville Phase 2BSA
Pace Project No.: 3562982

Sample: OSW-3-8 **Lab ID: 3562982001** Collected: 07/20/12 11:12 Received: 07/21/12 11:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave	Analytical Method: FL-PRO Preparation Method: EPA 3546								
Petroleum Range Organics	**2.7U**	mg/kg	4.3	2.7	1	07/25/12 16:00	07/26/12 15:35		
Surrogates									
o-Terphenyl (S)	87	%	62-109		1	07/25/12 16:00	07/26/12 15:35	84-15-1	
N-Pentatriacontane (S)	85	%	42-159		1	07/25/12 16:00	07/26/12 15:35	630-07-09	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**0.26U**	mg/kg	0.52	0.26	1	07/23/12 14:01	07/25/12 11:15	7440-38-2	
Cadmium	**0.026U**	mg/kg	0.052	0.026	1	07/23/12 14:01	07/25/12 11:15	7440-43-9	
Chromium	**3.8**	mg/kg	0.26	0.13	1	07/23/12 14:01	07/25/12 11:15	7440-47-3	
Lead	**2.4**	mg/kg	0.52	0.26	1	07/23/12 14:01	07/25/12 11:15	7439-92-1	
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	**21.5U**	ug/kg	182	21.5	1	07/25/12 12:30	07/26/12 18:43	83-32-9	
Acenaphthylene	**21.5U**	ug/kg	182	21.5	1	07/25/12 12:30	07/26/12 18:43	208-96-8	
Anthracene	**21.5U**	ug/kg	182	21.5	1	07/25/12 12:30	07/26/12 18:43	120-12-7	
Benzidine	**20.0U**	ug/kg	891	20.0	1	07/25/12 12:30	07/26/12 18:43	92-87-5	
Benzo(a)anthracene	**21.5U**	ug/kg	182	21.5	1	07/25/12 12:30	07/26/12 18:43	56-55-3	
Benzo(a)pyrene	**21.5U**	ug/kg	182	21.5	1	07/25/12 12:30	07/26/12 18:43	50-32-8	
Benzo(b)fluoranthene	**21.5U**	ug/kg	182	21.5	1	07/25/12 12:30	07/26/12 18:43	205-99-2	
Benzo(g,h,i)perylene	**21.5U**	ug/kg	182	21.5	1	07/25/12 12:30	07/26/12 18:43	191-24-2	
Benzo(k)fluoranthene	**21.5U**	ug/kg	182	21.5	1	07/25/12 12:30	07/26/12 18:43	207-08-9	
4-Bromophenylphenyl ether	**20.9U**	ug/kg	182	20.9	1	07/25/12 12:30	07/26/12 18:43	101-55-3	
Butylbenzylphthalate	**20.5U**	ug/kg	182	20.5	1	07/25/12 12:30	07/26/12 18:43	85-68-7	
4-Chloro-3-methylphenol	**22.1U**	ug/kg	719	22.1	1	07/25/12 12:30	07/26/12 18:43	59-50-7	
4-Chloroaniline	**29.8U**	ug/kg	182	29.8	1	07/25/12 12:30	07/26/12 18:43	106-47-8	
bis(2-Chloroethoxy)methane	**29.3U**	ug/kg	182	29.3	1	07/25/12 12:30	07/26/12 18:43	111-91-1	
bis(2-Chloroethyl) ether	**28.0U**	ug/kg	182	28.0	1	07/25/12 12:30	07/26/12 18:43	111-44-4	
bis(2-Chloroisopropyl) ether	**28.8U**	ug/kg	182	28.8	1	07/25/12 12:30	07/26/12 18:43	108-60-1	
2-Chloronaphthalene	**32.4U**	ug/kg	182	32.4	1	07/25/12 12:30	07/26/12 18:43	91-58-7	
2-Chlorophenol	**27.1U**	ug/kg	182	27.1	1	07/25/12 12:30	07/26/12 18:43	95-57-8	
4-Chlorophenylphenyl ether	**23.0U**	ug/kg	182	23.0	1	07/25/12 12:30	07/26/12 18:43	7005-72-3	
Chrysene	**21.5U**	ug/kg	182	21.5	1	07/25/12 12:30	07/26/12 18:43	218-01-9	
Dibenz(a,h)anthracene	**21.5U**	ug/kg	182	21.5	1	07/25/12 12:30	07/26/12 18:43	53-70-3	
1,2-Dichlorobenzene	**27.1U**	ug/kg	182	27.1	1	07/25/12 12:30	07/26/12 18:43	95-50-1	
1,3-Dichlorobenzene	**25.7U**	ug/kg	182	25.7	1	07/25/12 12:30	07/26/12 18:43	541-73-1	
1,4-Dichlorobenzene	**26.3U**	ug/kg	182	26.3	1	07/25/12 12:30	07/26/12 18:43	106-46-7	
2,4-Dichlorophenol	**24.7U**	ug/kg	182	24.7	1	07/25/12 12:30	07/26/12 18:43	120-83-2	
Diethylphthalate	**25.1U**	ug/kg	182	25.1	1	07/25/12 12:30	07/26/12 18:43	84-66-2	
2,4-Dimethylphenol	**32.8U**	ug/kg	182	32.8	1	07/25/12 12:30	07/26/12 18:43	105-67-9	
Dimethylphthalate	**19.2U**	ug/kg	182	19.2	1	07/25/12 12:30	07/26/12 18:43	131-11-3	
Di-n-butylphthalate	**23.3U**	ug/kg	182	23.3	1	07/25/12 12:30	07/26/12 18:43	84-74-2	
4,6-Dinitro-2-methylphenol	**20.2U**	ug/kg	719	20.2	1	07/25/12 12:30	07/26/12 18:43	534-52-1	
2,4-Dinitrophenol	**18.4U**	ug/kg	719	18.4	1	07/25/12 12:30	07/26/12 18:43	51-28-5	
2,4-Dinitrotoluene	**22.0U**	ug/kg	182	22.0	1	07/25/12 12:30	07/26/12 18:43	121-14-2	
2,6-Dinitrotoluene	**18.2U**	ug/kg	182	18.2	1	07/25/12 12:30	07/26/12 18:43	606-20-2	

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Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: City of Gainesville Phase 2BSA
Pace Project No.: 3562982

Sample: OSW-3-8 **Lab ID: 3562982001** Collected: 07/20/12 11:12 Received: 07/21/12 11:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Di-n-octylphthalate	**18.7U**	ug/kg	182	18.7	1	07/25/12 12:30	07/26/12 18:43	117-84-0	
1,2-Diphenylhydrazine	**19.0U**	ug/kg	182	19.0	1	07/25/12 12:30	07/26/12 18:43	122-66-7	
bis(2-Ethylhexyl)phthalate	**26.6U**	ug/kg	182	26.6	1	07/25/12 12:30	07/26/12 18:43	117-81-7	
Fluoranthene	**21.5U**	ug/kg	182	21.5	1	07/25/12 12:30	07/26/12 18:43	206-44-0	
Fluorene	**21.5U**	ug/kg	182	21.5	1	07/25/12 12:30	07/26/12 18:43	86-73-7	
Hexachloro-1,3-butadiene	**26.0U**	ug/kg	182	26.0	1	07/25/12 12:30	07/26/12 18:43	87-68-3	
Hexachlorobenzene	**20.6U**	ug/kg	182	20.6	1	07/25/12 12:30	07/26/12 18:43	118-74-1	
Hexachlorocyclopentadiene	**25.8U**	ug/kg	719	25.8	1	07/25/12 12:30	07/26/12 18:43	77-47-4	
Hexachloroethane	**33.2U**	ug/kg	182	33.2	1	07/25/12 12:30	07/26/12 18:43	67-72-1	
Indeno(1,2,3-cd)pyrene	**21.5U**	ug/kg	182	21.5	1	07/25/12 12:30	07/26/12 18:43	193-39-5	
Isophorone	**26.9U**	ug/kg	182	26.9	1	07/25/12 12:30	07/26/12 18:43	78-59-1	
1-Methylnaphthalene	**21.5U**	ug/kg	182	21.5	1	07/25/12 12:30	07/26/12 18:43	90-12-0	
2-Methylnaphthalene	**21.5U**	ug/kg	182	21.5	1	07/25/12 12:30	07/26/12 18:43	91-57-6	
2-Methylphenol(o-Cresol)	**26.6U**	ug/kg	182	26.6	1	07/25/12 12:30	07/26/12 18:43	95-48-7	
3&4-Methylphenol(m&p Cresol)	**54.7U**	ug/kg	182	54.7	1	07/25/12 12:30	07/26/12 18:43		
Naphthalene	**21.5U**	ug/kg	182	21.5	1	07/25/12 12:30	07/26/12 18:43	91-20-3	
Nitrobenzene	**28.8U**	ug/kg	182	28.8	1	07/25/12 12:30	07/26/12 18:43	98-95-3	
2-Nitrophenol	**29.5U**	ug/kg	182	29.5	1	07/25/12 12:30	07/26/12 18:43	88-75-5	
4-Nitrophenol	**27.2U**	ug/kg	182	27.2	1	07/25/12 12:30	07/26/12 18:43	100-02-7	
N-Nitrosodimethylamine	**27.3U**	ug/kg	182	27.3	1	07/25/12 12:30	07/26/12 18:43	62-75-9	N2
N-Nitroso-di-n-propylamine	**26.0U**	ug/kg	182	26.0	1	07/25/12 12:30	07/26/12 18:43	621-64-7	
N-Nitrosodiphenylamine	**22.1U**	ug/kg	182	22.1	1	07/25/12 12:30	07/26/12 18:43	86-30-6	
Pentachlorophenol	**23.1U**	ug/kg	719	23.1	1	07/25/12 12:30	07/26/12 18:43	87-86-5	
Phenanthrene	**21.5U**	ug/kg	182	21.5	1	07/25/12 12:30	07/26/12 18:43	85-01-8	
Phenol	**33.7U**	ug/kg	182	33.7	1	07/25/12 12:30	07/26/12 18:43	108-95-2	
Pyrene	**21.5U**	ug/kg	182	21.5	1	07/25/12 12:30	07/26/12 18:43	129-00-0	
1,2,4-Trichlorobenzene	**30.6U**	ug/kg	182	30.6	1	07/25/12 12:30	07/26/12 18:43	120-82-1	
2,4,6-Trichlorophenol	**27.1U**	ug/kg	182	27.1	1	07/25/12 12:30	07/26/12 18:43	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	71	%	10-110		1	07/25/12 12:30	07/26/12 18:43	4165-60-0	
2-Fluorobiphenyl (S)	74	%	18-110		1	07/25/12 12:30	07/26/12 18:43	321-60-8	
Terphenyl-d14 (S)	88	%	10-123		1	07/25/12 12:30	07/26/12 18:43	1718-51-0	
Phenol-d6 (S)	65	%	10-110		1	07/25/12 12:30	07/26/12 18:43	13127-88-3	
2-Fluorophenol (S)	66	%	18-110		1	07/25/12 12:30	07/26/12 18:43	367-12-4	
2,4,6-Tribromophenol (S)	77	%	10-110		1	07/25/12 12:30	07/26/12 18:43	118-79-6	
8260 MSV 5030 Low Level	Analytical Method: EPA 8260								
Acrolein	**38.0U**	ug/kg	53.9	38.0	1		07/24/12 21:46	107-02-8	
Acrylonitrile	**28.9U**	ug/kg	53.9	28.9	1		07/24/12 21:46	107-13-1	
Benzene	**2.8U**	ug/kg	5.4	2.8	1		07/24/12 21:46	71-43-2	
Bromodichloromethane	**2.7U**	ug/kg	5.4	2.7	1		07/24/12 21:46	75-27-4	
Bromoform	**2.7U**	ug/kg	5.4	2.7	1		07/24/12 21:46	75-25-2	
Bromomethane	**2.7U**	ug/kg	5.4	2.7	1		07/24/12 21:46	74-83-9	
Carbon tetrachloride	**2.7U**	ug/kg	5.4	2.7	1		07/24/12 21:46	56-23-5	
Chlorobenzene	**2.7U**	ug/kg	5.4	2.7	1		07/24/12 21:46	108-90-7	

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Pace Analytical Services, Inc.
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: City of Gainesville Phase 2BSA
Pace Project No.: 3562982

Sample: OSW-3-8 **Lab ID: 3562982001** Collected: 07/20/12 11:12 Received: 07/21/12 11:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260								
Chloroethane	**3.9U**	ug/kg	5.4	3.9	1		07/24/12 21:46	75-00-3	
2-Chloroethylvinyl ether	**2.7U**	ug/kg	5.4	2.7	1		07/24/12 21:46	110-75-8	
Chloroform	**3.2U**	ug/kg	5.4	3.2	1		07/24/12 21:46	67-66-3	
Chloromethane	**3.0U**	ug/kg	5.4	3.0	1		07/24/12 21:46	74-87-3	
Dibromochloromethane	**2.7U**	ug/kg	5.4	2.7	1		07/24/12 21:46	124-48-1	
1,2-Dichlorobenzene	**2.7U**	ug/kg	5.4	2.7	1		07/24/12 21:46	95-50-1	
1,3-Dichlorobenzene	**2.7U**	ug/kg	5.4	2.7	1		07/24/12 21:46	541-73-1	
1,4-Dichlorobenzene	**2.7U**	ug/kg	5.4	2.7	1		07/24/12 21:46	106-46-7	
1,1-Dichloroethane	**2.9U**	ug/kg	5.4	2.9	1		07/24/12 21:46	75-34-3	
1,2-Dichloroethane	**2.7U**	ug/kg	5.4	2.7	1		07/24/12 21:46	107-06-2	
1,2-Dichloroethene (Total)	**3.3U**	ug/kg	5.4	3.3	1		07/24/12 21:46	540-59-0	
1,1-Dichloroethene	**2.7U**	ug/kg	5.4	2.7	1		07/24/12 21:46	75-35-4	
cis-1,2-Dichloroethene	**2.7U**	ug/kg	5.4	2.7	1		07/24/12 21:46	156-59-2	
trans-1,2-Dichloroethene	**3.3U**	ug/kg	5.4	3.3	1		07/24/12 21:46	156-60-5	
1,2-Dichloropropane	**2.7U**	ug/kg	5.4	2.7	1		07/24/12 21:46	78-87-5	
cis-1,3-Dichloropropene	**2.7U**	ug/kg	5.4	2.7	1		07/24/12 21:46	10061-01-5	
trans-1,3-Dichloropropene	**2.7U**	ug/kg	5.4	2.7	1		07/24/12 21:46	10061-02-6	
Ethylbenzene	**3.0U**	ug/kg	5.4	3.0	1		07/24/12 21:46	100-41-4	
Methylene Chloride	**2.7U**	ug/kg	5.4	2.7	1		07/24/12 21:46	75-09-2	
1,1,2,2-Tetrachloroethane	**2.7U**	ug/kg	5.4	2.7	1		07/24/12 21:46	79-34-5	
Tetrachloroethene	**2.7U**	ug/kg	5.4	2.7	1		07/24/12 21:46	127-18-4	
Toluene	**2.9U**	ug/kg	5.4	2.9	1		07/24/12 21:46	108-88-3	
1,2,4-Trichlorobenzene	**2.7U**	ug/kg	5.4	2.7	1		07/24/12 21:46	120-82-1	
1,1,1-Trichloroethane	**3.0U**	ug/kg	5.4	3.0	1		07/24/12 21:46	71-55-6	
1,1,2-Trichloroethane	**2.7U**	ug/kg	5.4	2.7	1		07/24/12 21:46	79-00-5	
Trichloroethene	**3.0U**	ug/kg	5.4	3.0	1		07/24/12 21:46	79-01-6	
Vinyl chloride	**2.9U**	ug/kg	5.4	2.9	1		07/24/12 21:46	75-01-4	
Xylene (Total)	**5.5U**	ug/kg	16.2	5.5	1		07/24/12 21:46	1330-20-7	
m&p-Xylene	**5.5U**	ug/kg	10.8	5.5	1		07/24/12 21:46	179601-23-1	
o-Xylene	**2.8U**	ug/kg	5.4	2.8	1		07/24/12 21:46	95-47-6	
Surrogates									
Dibromofluoromethane (S)	98	%	82-115		1		07/24/12 21:46	1868-53-7	
Toluene-d8 (S)	99	%	84-117		1		07/24/12 21:46	2037-26-5	
4-Bromofluorobenzene (S)	104	%	55-148		1		07/24/12 21:46	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-131		1		07/24/12 21:46	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.2**	%	0.10	0.10	1		07/24/12 14:24		

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Pace Analytical Services, Inc.
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: City of Gainesville Phase 2BSA
Pace Project No.: 3562982

Sample: HO-1-8 **Lab ID: 3562982002** Collected: 07/20/12 14:00 Received: 07/21/12 11:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave	Analytical Method: FL-PRO Preparation Method: EPA 3546								
Petroleum Range Organics	**2.7U**	mg/kg	4.3	2.7	1	07/25/12 16:00	07/26/12 16:07		
Surrogates									
o-Terphenyl (S)	87	%	62-109		1	07/25/12 16:00	07/26/12 16:07	84-15-1	
N-Pentatriacontane (S)	85	%	42-159		1	07/25/12 16:00	07/26/12 16:07	630-07-09	
8270 MSSV Short List Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	**21.3U**	ug/kg	181	21.3	1	07/26/12 01:00	07/26/12 22:22	83-32-9	
Acenaphthylene	**21.3U**	ug/kg	181	21.3	1	07/26/12 01:00	07/26/12 22:22	208-96-8	
Anthracene	**21.3U**	ug/kg	181	21.3	1	07/26/12 01:00	07/26/12 22:22	120-12-7	
Benzo(a)anthracene	**46.7 I**	ug/kg	181	21.3	1	07/26/12 01:00	07/26/12 22:22	56-55-3	
Benzo(a)pyrene	**61.7 I**	ug/kg	181	21.3	1	07/26/12 01:00	07/26/12 22:22	50-32-8	
Benzo(b)fluoranthene	**89.2 I**	ug/kg	181	21.3	1	07/26/12 01:00	07/26/12 22:22	205-99-2	
Benzo(g,h,i)perylene	**58.9 I**	ug/kg	181	21.3	1	07/26/12 01:00	07/26/12 22:22	191-24-2	
Benzo(k)fluoranthene	**21.3U**	ug/kg	181	21.3	1	07/26/12 01:00	07/26/12 22:22	207-08-9	
Chrysene	**45.8 I**	ug/kg	181	21.3	1	07/26/12 01:00	07/26/12 22:22	218-01-9	
Dibenz(a,h)anthracene	**24.9 I**	ug/kg	181	21.3	1	07/26/12 01:00	07/26/12 22:22	53-70-3	
Fluoranthene	**89.6 I**	ug/kg	181	21.3	1	07/26/12 01:00	07/26/12 22:22	206-44-0	
Fluorene	**21.3U**	ug/kg	181	21.3	1	07/26/12 01:00	07/26/12 22:22	86-73-7	
Indeno(1,2,3-cd)pyrene	**62.6 I**	ug/kg	181	21.3	1	07/26/12 01:00	07/26/12 22:22	193-39-5	
1-Methylnaphthalene	**21.3U**	ug/kg	181	21.3	1	07/26/12 01:00	07/26/12 22:22	90-12-0	
2-Methylnaphthalene	**21.3U**	ug/kg	181	21.3	1	07/26/12 01:00	07/26/12 22:22	91-57-6	
Naphthalene	**21.3U**	ug/kg	181	21.3	1	07/26/12 01:00	07/26/12 22:22	91-20-3	
Phenanthrene	**53.3 I**	ug/kg	181	21.3	1	07/26/12 01:00	07/26/12 22:22	85-01-8	
Pyrene	**63.3 I**	ug/kg	181	21.3	1	07/26/12 01:00	07/26/12 22:22	129-00-0	
Surrogates									
Nitrobenzene-d5 (S)	81	%	10-110		1	07/26/12 01:00	07/26/12 22:22	4165-60-0	
2-Fluorobiphenyl (S)	83	%	18-110		1	07/26/12 01:00	07/26/12 22:22	321-60-8	
Terphenyl-d14 (S)	96	%	10-123		1	07/26/12 01:00	07/26/12 22:22	1718-51-0	
8260 MSV 5030 Low Level	Analytical Method: EPA 8260								
Benzene	**2.4U**	ug/kg	4.7	2.4	1		07/24/12 22:14	71-43-2	
Ethylbenzene	**2.7U**	ug/kg	4.7	2.7	1		07/24/12 22:14	100-41-4	
Methyl-tert-butyl ether	**2.3U**	ug/kg	4.7	2.3	1		07/24/12 22:14	1634-04-4	
Toluene	**2.5U**	ug/kg	4.7	2.5	1		07/24/12 22:14	108-88-3	
Xylene (Total)	**4.8U**	ug/kg	14.1	4.8	1		07/24/12 22:14	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	97	%	82-115		1		07/24/12 22:14	1868-53-7	
Toluene-d8 (S)	99	%	84-117		1		07/24/12 22:14	2037-26-5	
4-Bromofluorobenzene (S)	100	%	55-148		1		07/24/12 22:14	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-131		1		07/24/12 22:14	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.2**	%	0.10	0.10	1		07/24/12 14:24		

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QUALITY CONTROL DATA

Project: City of Gainesville Phase 2BSA
Pace Project No.: 3562982

QC Batch: MPRP/9526
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 3562982001

METHOD BLANK: 432054
Matrix: Solid
Associated Lab Samples: 3562982001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	0.26U	0.52	07/25/12 09:22	
Cadmium	mg/kg	0.026U	0.052	07/25/12 09:22	
Chromium	mg/kg	0.13U	0.26	07/25/12 09:22	
Lead	mg/kg	0.26U	0.52	07/25/12 09:22	

LABORATORY CONTROL SAMPLE: 432055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	12.9	12.8	99	80-120	
Cadmium	mg/kg	1.3	1.3	104	80-120	
Chromium	mg/kg	12.9	13.9	108	80-120	
Lead	mg/kg	12.9	13.2	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 432056 432057

Parameter	Units	3562868002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg		13.6	13.6	20.6	23.1	88	107	75-125	12	20	
Cadmium	mg/kg		1.4	1.4	157	188	-2740	-430	75-125	18	20	J(M1)
Chromium	mg/kg		13.6	13.6	375	424	-750	-393	75-125	12	20	J(M1)
Lead	mg/kg		13.6	13.6	32.2	23.0	82	14	75-125	33	20	J(D6), J(M1)

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QUALITY CONTROL DATA

Project: City of Gainesville Phase 2BSA
Pace Project No.: 3562982

QC Batch: MSV/6068 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5030 Low
Associated Lab Samples: 3562982001, 3562982002

METHOD BLANK: 433131 Matrix: Solid
Associated Lab Samples: 3562982001, 3562982002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	2.8U	5.1	07/24/12 18:29	
1,1,2,2-Tetrachloroethane	ug/kg	2.5U	5.1	07/24/12 18:29	
1,1,2-Trichloroethane	ug/kg	2.5U	5.1	07/24/12 18:29	
1,1-Dichloroethane	ug/kg	2.8U	5.1	07/24/12 18:29	
1,1-Dichloroethene	ug/kg	2.5U	5.1	07/24/12 18:29	
1,2,4-Trichlorobenzene	ug/kg	2.5U	5.1	07/24/12 18:29	
1,2-Dichlorobenzene	ug/kg	2.5U	5.1	07/24/12 18:29	
1,2-Dichloroethane	ug/kg	2.5U	5.1	07/24/12 18:29	
1,2-Dichloroethene (Total)	ug/kg	3.1U	5.1	07/24/12 18:29	
1,2-Dichloropropane	ug/kg	2.5U	5.1	07/24/12 18:29	
1,3-Dichlorobenzene	ug/kg	2.5U	5.1	07/24/12 18:29	
1,4-Dichlorobenzene	ug/kg	2.5U	5.1	07/24/12 18:29	
2-Chloroethylvinyl ether	ug/kg	2.5U	5.1	07/24/12 18:29	
Acrolein	ug/kg	35.6U	50.5	07/24/12 18:29	
Acrylonitrile	ug/kg	27.1U	50.5	07/24/12 18:29	
Benzene	ug/kg	2.6U	5.1	07/24/12 18:29	
Bromodichloromethane	ug/kg	2.5U	5.1	07/24/12 18:29	
Bromoform	ug/kg	2.5U	5.1	07/24/12 18:29	
Bromomethane	ug/kg	2.5U	5.1	07/24/12 18:29	
Carbon tetrachloride	ug/kg	2.5U	5.1	07/24/12 18:29	
Chlorobenzene	ug/kg	2.5U	5.1	07/24/12 18:29	
Chloroethane	ug/kg	3.6U	5.1	07/24/12 18:29	
Chloroform	ug/kg	3.0U	5.1	07/24/12 18:29	
Chloromethane	ug/kg	2.8U	5.1	07/24/12 18:29	
cis-1,2-Dichloroethene	ug/kg	2.5U	5.1	07/24/12 18:29	
cis-1,3-Dichloropropene	ug/kg	2.5U	5.1	07/24/12 18:29	
Dibromochloromethane	ug/kg	2.5U	5.1	07/24/12 18:29	
Ethylbenzene	ug/kg	2.9U	5.1	07/24/12 18:29	
m&p-Xylene	ug/kg	5.2U	10.1	07/24/12 18:29	
Methyl-tert-butyl ether	ug/kg	2.5U	5.1	07/24/12 18:29	
Methylene Chloride	ug/kg	2.5U	5.1	07/24/12 18:29	
o-Xylene	ug/kg	2.6U	5.1	07/24/12 18:29	
Tetrachloroethene	ug/kg	2.5U	5.1	07/24/12 18:29	
Toluene	ug/kg	2.7U	5.1	07/24/12 18:29	
trans-1,2-Dichloroethene	ug/kg	3.1U	5.1	07/24/12 18:29	
trans-1,3-Dichloropropene	ug/kg	2.5U	5.1	07/24/12 18:29	
Trichloroethene	ug/kg	2.8U	5.1	07/24/12 18:29	
Vinyl chloride	ug/kg	2.7U	5.1	07/24/12 18:29	
Xylene (Total)	ug/kg	5.2U	15.2	07/24/12 18:29	
1,2-Dichloroethane-d4 (S)	%	100	80-131	07/24/12 18:29	
4-Bromofluorobenzene (S)	%	97	55-148	07/24/12 18:29	
Dibromofluoromethane (S)	%	98	82-115	07/24/12 18:29	
Toluene-d8 (S)	%	98	84-117	07/24/12 18:29	

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QUALITY CONTROL DATA

Project: City of Gainesville Phase 2BSA
Pace Project No.: 3562982

LABORATORY CONTROL SAMPLE: 433132

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	19.8	20.9	106	68-130	
1,1,2,2-Tetrachloroethane	ug/kg	19.8	21.0	106	70-130	
1,1,2-Trichloroethane	ug/kg	19.8	20.1	101	70-130	
1,1-Dichloroethane	ug/kg	19.8	19.5	98	69-130	
1,1-Dichloroethene	ug/kg	19.8	20.0	101	67-130	
1,2,4-Trichlorobenzene	ug/kg	19.8	21.6	109	70-130	
1,2-Dichlorobenzene	ug/kg	19.8	20.9	106	70-130	
1,2-Dichloroethane	ug/kg	19.8	20.5	103	70-130	
1,2-Dichloroethene (Total)	ug/kg	39.6	38.6	97	70-130	
1,2-Dichloropropane	ug/kg	19.8	20.4	103	70-130	
1,3-Dichlorobenzene	ug/kg	19.8	20.5	103	70-130	
1,4-Dichlorobenzene	ug/kg	19.8	20.6	104	70-130	
2-Chloroethylvinyl ether	ug/kg	19.8	19.6	99	20-150	
Acrolein	ug/kg	198	208	105	37-163	
Acrylonitrile	ug/kg	198	215	109	70-130	
Benzene	ug/kg	19.8	20.9	106	70-130	
Bromodichloromethane	ug/kg	19.8	20.8	105	70-130	
Bromoform	ug/kg	19.8	19.0	96	70-130	
Bromomethane	ug/kg	19.8	25.0	126	42-156	
Carbon tetrachloride	ug/kg	19.8	20.7	105	65-132	
Chlorobenzene	ug/kg	19.8	20.5	103	70-130	
Chloroethane	ug/kg	19.8	19.6	99	56-146	
Chloroform	ug/kg	19.8	20.6	104	69-130	
Chloromethane	ug/kg	19.8	26.2	132	50-145	
cis-1,2-Dichloroethene	ug/kg	19.8	19.6	99	70-130	
cis-1,3-Dichloropropene	ug/kg	19.8	18.3	92	70-130	
Dibromochloromethane	ug/kg	19.8	19.6	99	70-130	
Ethylbenzene	ug/kg	19.8	20.2	102	70-130	
m&p-Xylene	ug/kg	39.6	41.4	104	70-130	
Methyl-tert-butyl ether	ug/kg	19.8	21.9	110	70-130	
Methylene Chloride	ug/kg	19.8	20.4	103	40-159	
o-Xylene	ug/kg	19.8	20.8	105	70-130	
Tetrachloroethene	ug/kg	19.8	15.7	79	63-130	
Toluene	ug/kg	19.8	20.1	101	70-130	
trans-1,2-Dichloroethene	ug/kg	19.8	19.0	96	70-130	
trans-1,3-Dichloropropene	ug/kg	19.8	21.5	109	70-130	
Trichloroethene	ug/kg	19.8	20.0	101	69-130	
Vinyl chloride	ug/kg	19.8	22.8	115	67-130	
Xylene (Total)	ug/kg	59.4	62.2	105	70-130	
1,2-Dichloroethane-d4 (S)	%			99	80-131	
4-Bromofluorobenzene (S)	%			98	55-148	
Dibromofluoromethane (S)	%			99	82-115	
Toluene-d8 (S)	%			99	84-117	

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Ormond Beach, FL 32174
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QUALITY CONTROL DATA

Project: City of Gainesville Phase 2BSA
Pace Project No.: 3562982

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 433206 433207

Parameter	Units	3563013003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	0.0013 U mg/kg	21.6	20.8	18.0	17.6	83	85	42-131	2	40	
1,1,2,2-Tetrachloroethane	ug/kg	0.0012 U mg/kg	21.6	20.8	18.1	17.7	84	85	50-130	2	40	
1,1,2-Trichloroethane	ug/kg	0.0012 U mg/kg	21.6	20.8	19.5	18.8	90	91	59-130	4	40	
1,1-Dichloroethane	ug/kg	0.0013 U mg/kg	21.6	20.8	16.7	17.7	77	85	50-130	6	40	
1,1-Dichloroethene	ug/kg	0.0012 U mg/kg	21.6	20.8	16.7	17.1	77	82	51-130	3	40	
1,2,4-Trichlorobenzene	ug/kg	0.0012 U mg/kg	21.6	20.8	14.7	14.6	68	70	20-142	.4	40	
1,2-Dichlorobenzene	ug/kg	0.0012 U mg/kg	21.6	20.8	17.6	18.0	81	87	20-134	2	40	
1,2-Dichloroethane	ug/kg	0.0012 U mg/kg	21.6	20.8	17.2	17.3	79	82	57-130	.6	40	
1,2-Dichloroethene (Total)	ug/kg	0.0014 U mg/kg	43.4	41.5	31.8	32.1	73	77	70-130	1	40	
1,2-Dichloropropane	ug/kg	0.0012 U mg/kg	21.6	20.8	18.4	18.3	85	88	52-130	.3	40	
1,3-Dichlorobenzene	ug/kg	0.0012 U mg/kg	21.6	20.8	16.7	16.9	77	82	20-133	1	40	
1,4-Dichlorobenzene	ug/kg	0.0012 U mg/kg	21.6	20.8	16.7	17.0	77	82	20-134	2	40	
2-Chloroethylvinyl ether	ug/kg	0.0012 U mg/kg	21.6	20.8	18.9	18.4	87	89	20-137	3	40	
Acrolein	ug/kg	0.016U mg/kg	216	208	57.7	59.9	27	29	20-152	4	40	
Acrylonitrile	ug/kg	0.012U mg/kg	216	208	168	176	78	85	24-140	4	40	
Benzene	ug/kg	0.0012 U mg/kg	21.6	20.8	18.3	18.4	85	89	24-141	.4	40	
Bromodichloromethane	ug/kg	0.0012 U mg/kg	21.6	20.8	17.3	17.5	80	84	20-155	1	40	
Bromoform	ug/kg	0.0012 U mg/kg	21.6	20.8	16.8	17.4	78	84	30-130	3	40	
Bromomethane	ug/kg	0.0012 U mg/kg	21.6	20.8	19.6	19.4	90	93	22-152	1	40	
Carbon tetrachloride	ug/kg	0.0012 U mg/kg	21.6	20.8	16.4	17.0	76	82	23-141	4	40	
Chlorobenzene	ug/kg	0.0012 U mg/kg	21.6	20.8	18.8	19.0	87	91	34-130	.9	40	
Chloroethane	ug/kg	0.0017 U mg/kg	21.6	20.8	15.3	16.1	71	77	43-146	5	40	
Chloroform	ug/kg	0.0014 U mg/kg	21.6	20.8	17.7	17.5	81	84	42-132	.7	40	
Chloromethane	ug/kg	0.0013 U mg/kg	21.6	20.8	16.0	16.0	74	77	31-144	.2	40	
cis-1,2-Dichloroethene	ug/kg	0.0012 U mg/kg	21.6	20.8	16.4	16.8	76	81	45-131	2	40	
cis-1,3-Dichloropropene	ug/kg	0.0012 U mg/kg	21.6	20.8	14.6	14.7	67	71	33-132	1	40	
Dibromochloromethane	ug/kg	0.0012 U mg/kg	21.6	20.8	17.4	18.1	80	87	20-151	4	40	

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8 East Tower Circle
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QUALITY CONTROL DATA

Project: City of Gainesville Phase 2BSA
Pace Project No.: 3562982

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 433206 433207

Parameter	Units	3563013003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethylbenzene	ug/kg	0.0013 U mg/kg	21.6	20.8	18.5	18.5	85	89	30-130	.05	40	
m&p-Xylene	ug/kg	0.0024 U mg/kg	43.4	41.5	36.9	37.5	85	90	27-150	2	40	
Methyl-tert-butyl ether	ug/kg	0.0012 U mg/kg	21.6	20.8	19.3	19.9	89	96	31-156	3	40	
Methylene Chloride	ug/kg	0.0012 U mg/kg	21.6	20.8	15.5	16.5	72	80	20-150	6	40	
o-Xylene	ug/kg	0.0012 U mg/kg	21.6	20.8	19.7	19.5	91	94	27-150	.7	40	
Tetrachloroethene	ug/kg	0.0012 U mg/kg	21.6	20.8	24.5	24.2	113	117	23-144	1	40	
Toluene	ug/kg	0.0013 U mg/kg	21.6	20.8	19.3	19.3	89	93	24-137	.3	40	
trans-1,2-Dichloroethene	ug/kg	0.0014 U mg/kg	21.6	20.8	15.4	15.3	71	74	50-130	.07	40	
trans-1,3-Dichloropropene	ug/kg	0.0012 U mg/kg	21.6	20.8	18.0	18.1	83	87	33-130	.4	40	
Trichloroethene	ug/kg	0.0013 U mg/kg	21.6	20.8	18.7	18.8	86	90	42-130	.4	40	
Vinyl chloride	ug/kg	0.0012 U mg/kg	21.6	20.8	17.3	18.1	80	87	47-130	5	40	
Xylene (Total)	ug/kg	0.0024 U mg/kg	65	62.3	56.6	57.0	87	91	26-130	.8	40	
1,2-Dichloroethane-d4 (S)	%						95	96	80-131			
4-Bromofluorobenzene (S)	%						98	98	55-148			
Dibromofluoromethane (S)	%						94	95	82-115			
Toluene-d8 (S)	%						96	96	84-117			

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QUALITY CONTROL DATA

Project: City of Gainesville Phase 2BSA
Pace Project No.: 3562982

QC Batch: OEXT/9276
QC Batch Method: EPA 3546
Analysis Method: EPA 8270
Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 3562982001

METHOD BLANK: 432863
Matrix: Solid
Associated Lab Samples: 3562982001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	28.5U	170	07/26/12 09:13	
1,2-Dichlorobenzene	ug/kg	25.2U	170	07/26/12 09:13	
1,2-Diphenylhydrazine	ug/kg	17.7U	170	07/26/12 09:13	
1,3-Dichlorobenzene	ug/kg	23.9U	170	07/26/12 09:13	
1,4-Dichlorobenzene	ug/kg	24.5U	170	07/26/12 09:13	
1-Methylnaphthalene	ug/kg	20.0U	170	07/26/12 09:13	
2,4,6-Trichlorophenol	ug/kg	25.2U	170	07/26/12 09:13	
2,4-Dichlorophenol	ug/kg	23.0U	170	07/26/12 09:13	
2,4-Dimethylphenol	ug/kg	30.6U	170	07/26/12 09:13	
2,4-Dinitrophenol	ug/kg	17.1U	670	07/26/12 09:13	
2,4-Dinitrotoluene	ug/kg	20.5U	170	07/26/12 09:13	
2,6-Dinitrotoluene	ug/kg	17.0U	170	07/26/12 09:13	
2-Chloronaphthalene	ug/kg	30.2U	170	07/26/12 09:13	
2-Chlorophenol	ug/kg	25.2U	170	07/26/12 09:13	
2-Methylnaphthalene	ug/kg	20.0U	170	07/26/12 09:13	
2-Methylphenol(o-Cresol)	ug/kg	24.8U	170	07/26/12 09:13	
2-Nitrophenol	ug/kg	27.5U	170	07/26/12 09:13	
3&4-Methylphenol(m&p Cresol)	ug/kg	51.0U	170	07/26/12 09:13	
4,6-Dinitro-2-methylphenol	ug/kg	18.8U	670	07/26/12 09:13	
4-Bromophenylphenyl ether	ug/kg	19.5U	170	07/26/12 09:13	
4-Chloro-3-methylphenol	ug/kg	20.6U	670	07/26/12 09:13	
4-Chloroaniline	ug/kg	27.8U	170	07/26/12 09:13	
4-Chlorophenylphenyl ether	ug/kg	21.4U	170	07/26/12 09:13	
4-Nitrophenol	ug/kg	25.3U	170	07/26/12 09:13	
Acenaphthene	ug/kg	20.0U	170	07/26/12 09:13	
Acenaphthylene	ug/kg	20.0U	170	07/26/12 09:13	
Anthracene	ug/kg	20.0U	170	07/26/12 09:13	
Benzidine	ug/kg	18.6U	830	07/26/12 09:13	
Benzo(a)anthracene	ug/kg	20.0U	170	07/26/12 09:13	
Benzo(a)pyrene	ug/kg	20.0U	170	07/26/12 09:13	
Benzo(b)fluoranthene	ug/kg	20.0U	170	07/26/12 09:13	
Benzo(g,h,i)perylene	ug/kg	20.0U	170	07/26/12 09:13	
Benzo(k)fluoranthene	ug/kg	20.0U	170	07/26/12 09:13	
bis(2-Chloroethoxy)methane	ug/kg	27.3U	170	07/26/12 09:13	
bis(2-Chloroethyl) ether	ug/kg	26.1U	170	07/26/12 09:13	
bis(2-Chloroisopropyl) ether	ug/kg	26.8U	170	07/26/12 09:13	
bis(2-Ethylhexyl)phthalate	ug/kg	24.8U	170	07/26/12 09:13	
Butylbenzylphthalate	ug/kg	19.1U	170	07/26/12 09:13	
Chrysene	ug/kg	20.0U	170	07/26/12 09:13	
Di-n-butylphthalate	ug/kg	21.7U	170	07/26/12 09:13	
Di-n-octylphthalate	ug/kg	17.4U	170	07/26/12 09:13	
Dibenz(a,h)anthracene	ug/kg	20.0U	170	07/26/12 09:13	
Diethylphthalate	ug/kg	23.4U	170	07/26/12 09:13	

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QUALITY CONTROL DATA

Project: City of Gainesville Phase 2BSA
Pace Project No.: 3562982

METHOD BLANK: 432863 Matrix: Solid

Associated Lab Samples: 3562982001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dimethylphthalate	ug/kg	17.9U	170	07/26/12 09:13	
Fluoranthene	ug/kg	20.0U	170	07/26/12 09:13	
Fluorene	ug/kg	20.0U	170	07/26/12 09:13	
Hexachloro-1,3-butadiene	ug/kg	24.2U	170	07/26/12 09:13	
Hexachlorobenzene	ug/kg	19.2U	170	07/26/12 09:13	
Hexachlorocyclopentadiene	ug/kg	24.0U	670	07/26/12 09:13	
Hexachloroethane	ug/kg	30.9U	170	07/26/12 09:13	
Indeno(1,2,3-cd)pyrene	ug/kg	20.0U	170	07/26/12 09:13	
Isophorone	ug/kg	25.1U	170	07/26/12 09:13	
N-Nitroso-di-n-propylamine	ug/kg	24.2U	170	07/26/12 09:13	
N-Nitrosodimethylamine	ug/kg	25.4U	170	07/26/12 09:13	N2
N-Nitrosodiphenylamine	ug/kg	20.6U	170	07/26/12 09:13	
Naphthalene	ug/kg	20.0U	170	07/26/12 09:13	
Nitrobenzene	ug/kg	26.8U	170	07/26/12 09:13	
Pentachlorophenol	ug/kg	21.5U	670	07/26/12 09:13	
Phenanthrene	ug/kg	20.0U	170	07/26/12 09:13	
Phenol	ug/kg	31.4U	170	07/26/12 09:13	
Pyrene	ug/kg	20.0U	170	07/26/12 09:13	
2,4,6-Tribromophenol (S)	%	78	10-110	07/26/12 09:13	
2-Fluorobiphenyl (S)	%	78	18-110	07/26/12 09:13	
2-Fluorophenol (S)	%	70	18-110	07/26/12 09:13	
Nitrobenzene-d5 (S)	%	74	10-110	07/26/12 09:13	
Phenol-d6 (S)	%	74	10-110	07/26/12 09:13	
Terphenyl-d14 (S)	%	97	10-123	07/26/12 09:13	

LABORATORY CONTROL SAMPLE: 432864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1670	1240	74	51-110	
1,2-Dichlorobenzene	ug/kg	1670	1160	70	51-110	
1,2-Diphenylhydrazine	ug/kg	1670	1470	88	61-111	
1,3-Dichlorobenzene	ug/kg	1670	1160	69	50-110	
1,4-Dichlorobenzene	ug/kg	1670	1170	70	51-110	
1-Methylnaphthalene	ug/kg	1670	1290	77	27-123	
2,4,6-Trichlorophenol	ug/kg	1670	1350	81	58-110	
2,4-Dichlorophenol	ug/kg	1670	1360	82	57-110	
2,4-Dimethylphenol	ug/kg	1670	1330	80	59-110	
2,4-Dinitrophenol	ug/kg	1670	1680	101	39-113	
2,4-Dinitrotoluene	ug/kg	1670	1410	84	68-110	
2,6-Dinitrotoluene	ug/kg	1670	1390	83	66-110	
2-Chloronaphthalene	ug/kg	1670	1280	77	59-110	
2-Chlorophenol	ug/kg	1670	1220	73	51-110	
2-Methylnaphthalene	ug/kg	1670	1280	77	16-137	
2-Methylphenol(o-Cresol)	ug/kg	1670	1250	75	56-110	
2-Nitrophenol	ug/kg	1670	1270	76	56-110	

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QUALITY CONTROL DATA

Project: City of Gainesville Phase 2BSA
Pace Project No.: 3562982

LABORATORY CONTROL SAMPLE: 432864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	1250	75	55-110	
4,6-Dinitro-2-methylphenol	ug/kg	1670	1480	89	55-113	
4-Bromophenylphenyl ether	ug/kg	1670	1420	85	65-110	
4-Chloro-3-methylphenol	ug/kg	1670	1380	83	64-110	
4-Chloroaniline	ug/kg	1670	1310	78	56-110	
4-Chlorophenylphenyl ether	ug/kg	1670	1360	82	58-111	
4-Nitrophenol	ug/kg	1670	1660	99	49-136	
Acenaphthene	ug/kg	1670	1330	80	37-120	
Acenaphthylene	ug/kg	1670	1300	78	41-120	
Anthracene	ug/kg	1670	1390	83	45-120	
Benzidine	ug/kg	1670	1220	73	26-110	
Benzo(a)anthracene	ug/kg	1670	1440	86	44-120	
Benzo(a)pyrene	ug/kg	1670	1410	85	44-123	
Benzo(b)fluoranthene	ug/kg	1670	1330	80	37-124	
Benzo(g,h,i)perylene	ug/kg	1670	1400	84	42-125	
Benzo(k)fluoranthene	ug/kg	1670	1450	87	44-126	
bis(2-Chloroethoxy)methane	ug/kg	1670	1260	76	53-110	
bis(2-Chloroethyl) ether	ug/kg	1670	1240	74	45-110	
bis(2-Chloroisopropyl) ether	ug/kg	1670	1190	71	51-110	
bis(2-Ethylhexyl)phthalate	ug/kg	1670	1390	84	71-110	
Butylbenzylphthalate	ug/kg	1670	1400	84	72-110	
Chrysene	ug/kg	1670	1320	79	45-120	
Di-n-butylphthalate	ug/kg	1670	1420	85	67-115	
Di-n-octylphthalate	ug/kg	1670	1390	83	71-110	
Dibenz(a,h)anthracene	ug/kg	1670	1440	87	43-124	
Diethylphthalate	ug/kg	1670	1360	81	65-112	
Dimethylphthalate	ug/kg	1670	1380	83	63-111	
Fluoranthene	ug/kg	1670	1450	87	45-120	
Fluorene	ug/kg	1670	1340	80	42-120	
Hexachloro-1,3-butadiene	ug/kg	1670	1250	75	51-110	
Hexachlorobenzene	ug/kg	1670	1380	83	65-110	
Hexachlorocyclopentadiene	ug/kg	1670	1170	70	18-112	
Hexachloroethane	ug/kg	1670	1130	68	49-110	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1350	81	43-123	
Isophorone	ug/kg	1670	1300	78	52-110	
N-Nitroso-di-n-propylamine	ug/kg	1670	1230	74	46-110	
N-Nitrosodimethylamine	ug/kg	1670	1230	74	42-110	N2
N-Nitrosodiphenylamine	ug/kg	1670	1430	86	66-110	
Naphthalene	ug/kg	1670	1240	75	40-120	
Nitrobenzene	ug/kg	1670	1270	76	49-110	
Pentachlorophenol	ug/kg	1670	1490	89	49-117	
Phenanthrene	ug/kg	1670	1360	81	36-125	
Phenol	ug/kg	1670	1270	76	52-110	
Pyrene	ug/kg	1670	1390	83	41-123	
2,4,6-Tribromophenol (S)	%			85	10-110	
2-Fluorobiphenyl (S)	%			81	18-110	
2-Fluorophenol (S)	%			69	18-110	
Nitrobenzene-d5 (S)	%			75	10-110	

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QUALITY CONTROL DATA

Project: City of Gainesville Phase 2BSA
Pace Project No.: 3562982

LABORATORY CONTROL SAMPLE: 432864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenol-d6 (S)	%			74	10-110	
Terphenyl-d14 (S)	%			96	10-123	

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QUALITY CONTROL DATA

Project: City of Gainesville Phase 2BSA
Pace Project No.: 3562982

QC Batch: OEXT/9285
QC Batch Method: EPA 3546
Analysis Method: EPA 8270
Analysis Description: 8270 Solid MSSV Microwave Short Spike
Associated Lab Samples: 3562982002

METHOD BLANK: 433604
Matrix: Solid
Associated Lab Samples: 3562982002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	20.0U	170	07/26/12 10:24	
2-Methylnaphthalene	ug/kg	20.0U	170	07/26/12 10:24	
Acenaphthene	ug/kg	20.0U	170	07/26/12 10:24	
Acenaphthylene	ug/kg	20.0U	170	07/26/12 10:24	
Anthracene	ug/kg	20.0U	170	07/26/12 10:24	
Benzo(a)anthracene	ug/kg	20.0U	170	07/26/12 10:24	
Benzo(a)pyrene	ug/kg	20.0U	170	07/26/12 10:24	
Benzo(b)fluoranthene	ug/kg	20.0U	170	07/26/12 10:24	
Benzo(g,h,i)perylene	ug/kg	20.0U	170	07/26/12 10:24	
Benzo(k)fluoranthene	ug/kg	20.0U	170	07/26/12 10:24	
Chrysene	ug/kg	20.0U	170	07/26/12 10:24	
Dibenz(a,h)anthracene	ug/kg	20.0U	170	07/26/12 10:24	
Fluoranthene	ug/kg	20.0U	170	07/26/12 10:24	
Fluorene	ug/kg	20.0U	170	07/26/12 10:24	
Indeno(1,2,3-cd)pyrene	ug/kg	20.0U	170	07/26/12 10:24	
Naphthalene	ug/kg	20.0U	170	07/26/12 10:24	
Phenanthrene	ug/kg	20.0U	170	07/26/12 10:24	
Pyrene	ug/kg	20.0U	170	07/26/12 10:24	
2-Fluorobiphenyl (S)	%	81	18-110	07/26/12 10:24	
Nitrobenzene-d5 (S)	%	76	10-110	07/26/12 10:24	
Terphenyl-d14 (S)	%	95	10-123	07/26/12 10:24	

LABORATORY CONTROL SAMPLE: 433605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	1670	1310	79	27-123	
2-Methylnaphthalene	ug/kg	1670	1310	79	16-137	
Acenaphthene	ug/kg	1670	1320	79	37-120	
Acenaphthylene	ug/kg	1670	1340	80	41-120	
Anthracene	ug/kg	1670	1370	82	45-120	
Benzo(a)anthracene	ug/kg	1670	1350	81	44-120	
Benzo(a)pyrene	ug/kg	1670	1440	86	44-123	
Benzo(b)fluoranthene	ug/kg	1670	1230	74	37-124	
Benzo(g,h,i)perylene	ug/kg	1670	1400	84	42-125	
Benzo(k)fluoranthene	ug/kg	1670	1440	86	44-126	
Chrysene	ug/kg	1670	1300	78	45-120	
Dibenz(a,h)anthracene	ug/kg	1670	1420	85	43-124	
Fluoranthene	ug/kg	1670	1410	85	45-120	
Fluorene	ug/kg	1670	1310	78	42-120	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1390	84	43-123	
Naphthalene	ug/kg	1670	1270	76	40-120	

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QUALITY CONTROL DATA

Project: City of Gainesville Phase 2BSA
Pace Project No.: 3562982

LABORATORY CONTROL SAMPLE: 433605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	1670	1350	81	36-125	
Pyrene	ug/kg	1670	1360	81	41-123	
2-Fluorobiphenyl (S)	%			80	18-110	
Nitrobenzene-d5 (S)	%			77	10-110	
Terphenyl-d14 (S)	%			92	10-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 434229 434230

Parameter	Units	3563005002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	0.021U mg/kg	1750	1750	1360	1310	77	75	27-123	4	40	
2-Methylnaphthalene	ug/kg	0.021U mg/kg	1750	1750	1360	1300	77	74	16-137	5	40	
Acenaphthene	ug/kg	0.021U mg/kg	1750	1750	1360	1300	77	75	37-120	4	40	
Acenaphthylene	ug/kg	0.021U mg/kg	1750	1750	1400	1340	80	77	41-120	5	40	
Anthracene	ug/kg	0.021U mg/kg	1750	1750	1370	1410	78	80	45-120	3	40	
Benzo(a)anthracene	ug/kg	0.021U mg/kg	1750	1750	1500	1350	85	77	44-120	11	40	
Benzo(a)pyrene	ug/kg	0.021U mg/kg	1750	1750	1460	1470	83	84	44-123	.6	40	
Benzo(b)fluoranthene	ug/kg	0.021U mg/kg	1750	1750	1400	1480	80	85	37-124	5	40	
Benzo(g,h,i)perylene	ug/kg	0.021U mg/kg	1750	1750	1420	1420	81	81	42-125	.5	40	
Benzo(k)fluoranthene	ug/kg	0.021U mg/kg	1750	1750	1360	1250	78	72	44-126	8	40	
Chrysene	ug/kg	0.021U mg/kg	1750	1750	1400	1490	79	85	45-120	6	40	
Dibenz(a,h)anthracene	ug/kg	0.021U mg/kg	1750	1750	1410	1440	80	82	43-124	2	40	
Fluoranthene	ug/kg	0.021U mg/kg	1750	1750	1440	1510	82	86	45-120	5	40	
Fluorene	ug/kg	0.021U mg/kg	1750	1750	1380	1350	79	77	42-120	2	40	
Indeno(1,2,3-cd)pyrene	ug/kg	0.021U mg/kg	1750	1750	1410	1460	80	84	43-123	4	40	
Naphthalene	ug/kg	0.021U mg/kg	1750	1750	1320	1280	75	73	40-120	3	40	
Phenanthrene	ug/kg	0.021U mg/kg	1750	1750	1340	1390	76	79	36-125	4	40	
Pyrene	ug/kg	0.021U mg/kg	1750	1750	1400	1380	80	79	41-123	2	40	
2-Fluorobiphenyl (S)	%						79	77	18-110			
Nitrobenzene-d5 (S)	%						74	72	10-110			
Terphenyl-d14 (S)	%						88	91	10-123			

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: City of Gainesville Phase 2BSA
Pace Project No.: 3562982

QC Batch: OEXT/9277
QC Batch Method: EPA 3546
Analysis Method: FL-PRO
Analysis Description: FL-PRO Soil
Associated Lab Samples: 3562982001, 3562982002

METHOD BLANK: 433470 Matrix: Solid
Associated Lab Samples: 3562982001, 3562982002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Petroleum Range Organics	mg/kg	2.5U	4.0	07/26/12 06:56	
N-Pentatriacontane (S)	%	84	42-159	07/26/12 06:56	
o-Terphenyl (S)	%	96	62-109	07/26/12 06:56	

LABORATORY CONTROL SAMPLE: 433471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Petroleum Range Organics	mg/kg	200	199	100	63-153	
N-Pentatriacontane (S)	%			99	42-159	
o-Terphenyl (S)	%			104	62-109	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 433684 433685

Parameter	Units	3563016001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Petroleum Range Organics	mg/kg	172	244	244	337	321	68	61	63-153	5	20	J(M1)
N-Pentatriacontane (S)	%						84	92	42-159			
o-Terphenyl (S)	%						86	88	62-109			

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Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: City of Gainesville Phase 2BSA
Pace Project No.: 3562982

QC Batch: PMST/1270
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 3562982001, 3562982002

SAMPLE DUPLICATE: 432392

Parameter	Units	3562868002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%		5.5	15	10	J(D6)

SAMPLE DUPLICATE: 432393

Parameter	Units	3562872008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.6	10.3	3	10	

SAMPLE DUPLICATE: 432394

Parameter	Units	3562892001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.8	22.1	2	10	

SAMPLE DUPLICATE: 432395

Parameter	Units	3562916001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.8	14.5	2	10	

SAMPLE DUPLICATE: 432396

Parameter	Units	10199534007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.2	9.1	11	10	J(D6)

SAMPLE DUPLICATE: 432397

Parameter	Units	10199534016 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.9	14.9	7	10	

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QUALIFIERS

Project: City of Gainesville Phase 2BSA
Pace Project No.: 3562982

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J(D6)	Estimated Value. The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: City of Gainesville Phase 2BSA
Pace Project No.: 3562982

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3562982001	**OSW-3-8**	EPA 3546	OEXT/9277	FL-PRO	GCSV/6487
3562982002	**HO-1-8**	EPA 3546	OEXT/9277	FL-PRO	GCSV/6487
3562982001	**OSW-3-8**	EPA 3050	MPRP/9526	EPA 6010	ICP/6251
3562982001	**OSW-3-8**	EPA 3546	OEXT/9276	EPA 8270	MSSV/3588
3562982002	**HO-1-8**	EPA 3546	OEXT/9285	EPA 8270	MSSV/3589
3562982001	**OSW-3-8**	EPA 8260	MSV/6068		
3562982002	**HO-1-8**	EPA 8260	MSV/6068		
3562982001	**OSW-3-8**	ASTM D2974-87	PMST/1270		
3562982002	**HO-1-8**	ASTM D2974-87	PMST/1270		

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WO# : 3562982

3562982

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www.pacelabs.com

1566373

Section A Required Client Information:	Section B Required Project Information:		
Company: Water and Air	Report To: Simon Cordery		REGULATORY AGENCY
Address: 6821 SW Archer Rd Gainesville FL 32608	Copy To: Tammie Gardner	Company Name:	☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
Email To: Simon Cordery	Purchase Order No.:	Address:	☐ UST ☐ RCRA ☐ OTHER
Phone: 352-372-1500 Fax: 352-375-1600	Project Name: City of Gainesville Pace2	Pace Quote Reference:	Site Location STATE:
Requested Due Date/TAT:	Project Number:	Pace Project Manager: Pace Profile #:	

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: EPA 8260	EPA 8270	EPA-Pco	EPA 6010	PCB's (Hold)	EPA 8310	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	OSW-3-S	SL	G	7/20/12	1115				6										X	X	X	X	X	X			Hold PCB's
2	HO-1-S	SL	G	7/20/12	1405				6										X	X	X	X	X	X			
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
SAMPLING KIT-EMPTY		7/15/12	1600		7/16/12	700	
HOLD PCB's		7/20/12	1900		7-21-12	1110	35 Y

SAMPLER NAME AND SIGNATURE		Temp °C	Received on Ice (Y/N)	Custody Seal Cooler (Y)	Samps Intact (Y)
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY): 7/20/12				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

#1402740

#140274D

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: September 23, 2011
	Document No.: F-FL-C-007 rev. 04	Issuing Authorities: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Table Number:_____

Client Name: WAR Project # 356 293 6 3562982 PL-7-23-12

ourier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other_____

racking # 8987 6872 5179

ustody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Date and initials of person examining contents:_____

acking Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

hermometer Used 113 Type of Ice: (Wet) Blue None

ooler Temperature °C 3.5 (Visual) 0 (Correction Factor) 3.5 (Actual)

(Temp should be above freezing to 6°C). If below 0°C, then was sample frozen? ☐Yes ☐No

eceipt of samples satisfactory: ☐Yes ☐No **Rush TAT requested on COC:**

Yes, then all conditions below were met:	If no, then mark box & describe issue (use comments area if necessary):
Chain of Custody Present	☐
Chain of Custody Filled Out	☐
Relinquished Signature & Sampler Name COC	☐
Samples Arrived within Hold Time	☐
Sufficient Volume	☐
Correct Containers Used	☐
Containers Intact	☐
Sample Labels match COC (sample IDs & date/time of collection)	☐ No Labels: ☐ No Time/Date on Labels: ☐
Acontainers needing preservation are found to be in compliance with EPA recommendation.	☐
Headspace in VOA Vials (>6mm):	☐

Clnt Notification/ Resolution:

Person Contacted:_____ Date/Time:_____

Comments/ Resolution (use back for additional comments):_____

oject Manager Review:_____ **Date:**_____

Finished Product Information Only

F.PSample ID:_____

Proction Code:_____

DatTime Opened:_____

Numer of Unopened Bottles Remaining:_____

Extra Sample in Shed: Yes No

Size & Qty of Bottles Received

_____ x 5 Gal
_____ x 2.5 Gal
_____ x 1 Gal
_____ x 1 Liter
_____ x 500 mL
_____ x 250 mL
_____ x Other:_____

Appendix C

Groundwater Analytical Laboratory Report and Chain-of-Custody

#140274D
Pace Analytical Services, Inc.
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

July 31, 2012

Tammie Gardner
Water and Air Research
6821 Southwest Archer Road
, 35608

RE: Project: City of Gainesville Army Prese
Pace Project No.: 3563174

Dear Tammie Gardner:
Enclosed are the analytical results for sample(s) received by the laboratory on July 24, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Martha Montero

martha.montero@pacelabs.com
Project Manager

Enclosures

cc: Simon Cordery, Water and Air Research

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CERTIFICATIONS

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Arizona Certification #: AZ0735
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH 0216
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL765
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
U.S.Virgin Islands Certification: FL NELAC Reciprocity
Virginia Certification #: 00432
Virginia Environmental Certificate #: 460165
Washington Certification #: C955
Wyoming Certification: FL NELAC Reciprocity
Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE SUMMARY

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

Lab ID	Sample ID	Matrix	Date Collected	Date Received
3563174001	OSW-3	Water	07/23/12 09:43	07/24/12 10:55
3563174002	OSW-1	Water	07/23/12 10:42	07/24/12 10:55
3563174003	HO-1	Water	07/23/12 10:42	07/24/12 10:55
3563174004	HO-4	Water	07/23/12 12:32	07/24/12 10:55

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SAMPLE ANALYTE COUNT

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3563174001	**OSW-3**	FL-PRO	JTT	3	PASI-O
		EPA 6010	IST	5	PASI-O
		EPA 8270	EAO	86	PASI-O
		EPA 8260	JBH	55	PASI-O
3563174002	**OSW-1**	FL-PRO	JTT	3	PASI-O
		EPA 6010	IST	5	PASI-O
		EPA 8270	EAO	86	PASI-O
		EPA 8260	JBH	55	PASI-O
3563174003	**HO-1**	FL-PRO	JTT	3	PASI-O
		EPA 8270 by SCAN	TWB	20	PASI-O
		EPA 8260	JBH	9	PASI-O
3563174004	**HO-4**	FL-PRO	JTT	3	PASI-O
		EPA 8270 by SCAN	TWB	20	PASI-O
		EPA 8260	JBH	9	PASI-O

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

Sample: OSW-3 **Lab ID: 3563174001** Collected: 07/23/12 09:43 Received: 07/24/12 10:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Water	Analytical Method: FL-PRO Preparation Method: EPA 3510								
Petroleum Range Organics	**0.058U**	mg/L	0.098	0.058	1	07/26/12 03:00	07/26/12 21:32		
Surrogates									
o-Terphenyl (S)	112	%	82-142		1	07/26/12 03:00	07/26/12 21:32	84-15-1	
N-Pentatriacontane (S)	101	%	42-159		1	07/26/12 03:00	07/26/12 21:32	630-07-09	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	**5.0U**	ug/L	15.0	5.0	1	07/26/12 10:44	07/28/12 17:19	7440-36-0	
Arsenic	**5.0U**	ug/L	10.0	5.0	1	07/26/12 10:44	07/28/12 17:19	7440-38-2	
Cadmium	**0.50U**	ug/L	1.0	0.50	1	07/26/12 10:44	07/28/12 17:19	7440-43-9	
Chromium	**2.5U**	ug/L	5.0	2.5	1	07/26/12 10:44	07/28/12 17:19	7440-47-3	
Lead	**5.0U**	ug/L	10.0	5.0	1	07/26/12 10:44	07/28/12 17:19	7439-92-1	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	**0.82U**	ug/L	4.8	0.82	1	07/26/12 01:00	07/26/12 16:40	83-32-9	J(M1)
Acenaphthylene	**0.91U**	ug/L	4.8	0.91	1	07/26/12 01:00	07/26/12 16:40	208-96-8	
Acetophenone	**1.4U**	ug/L	4.8	1.4	1	07/26/12 01:00	07/26/12 16:40	98-86-2	
Aniline	**1.9U**	ug/L	4.8	1.9	1	07/26/12 01:00	07/26/12 16:40	62-53-3	
Anthracene	**0.58U**	ug/L	4.8	0.58	1	07/26/12 01:00	07/26/12 16:40	120-12-7	
Atrazine	**1.3U**	ug/L	4.8	1.3	1	07/26/12 01:00	07/26/12 16:40	1912-24-9	
Benzaldehyde	**1.5U**	ug/L	4.8	1.5	1	07/26/12 01:00	07/26/12 16:40	100-52-7	N2
Benzidine	**0.74U**	ug/L	24.0	0.74	1	07/26/12 01:00	07/26/12 16:40	92-87-5	J(M1)
Benzo(a)anthracene	**0.60U**	ug/L	4.8	0.60	1	07/26/12 01:00	07/26/12 16:40	56-55-3	
Benzo(a)pyrene	**0.56U**	ug/L	0.96	0.56	1	07/26/12 01:00	07/26/12 16:40	50-32-8	
Benzo(b)fluoranthene	**0.59U**	ug/L	1.9	0.59	1	07/26/12 01:00	07/26/12 16:40	205-99-2	J(M1)
Benzo(g,h,i)perylene	**0.65U**	ug/L	4.8	0.65	1	07/26/12 01:00	07/26/12 16:40	191-24-2	J(M1)
Benzo(k)fluoranthene	**0.49U**	ug/L	3.8	0.49	1	07/26/12 01:00	07/26/12 16:40	207-08-9	J(M1)
Biphenyl (Diphenyl)	**0.77U**	ug/L	4.8	0.77	1	07/26/12 01:00	07/26/12 16:40	92-52-4	N2
4-Bromophenylphenyl ether	**0.64U**	ug/L	4.8	0.64	1	07/26/12 01:00	07/26/12 16:40	101-55-3	
Butylbenzylphthalate	**0.69U**	ug/L	4.8	0.69	1	07/26/12 01:00	07/26/12 16:40	85-68-7	
Caprolactam	**1.2U**	ug/L	4.8	1.2	1	07/26/12 01:00	07/26/12 16:40	105-60-2	N2
Carbazole	**0.45U**	ug/L	4.8	0.45	1	07/26/12 01:00	07/26/12 16:40	86-74-8	N2
4-Chloro-3-methylphenol	**0.59U**	ug/L	19.2	0.59	1	07/26/12 01:00	07/26/12 16:40	59-50-7	
4-Chloroaniline	**1.2U**	ug/L	4.8	1.2	1	07/26/12 01:00	07/26/12 16:40	106-47-8	
bis(2-Chloroethoxy)methane	**2.8U**	ug/L	4.8	2.8	1	07/26/12 01:00	07/26/12 16:40	111-91-1	
bis(2-Chloroethyl) ether	**0.72U**	ug/L	3.8	0.72	1	07/26/12 01:00	07/26/12 16:40	111-44-4	
bis(2-Chloroisopropyl) ether	**0.70U**	ug/L	4.8	0.70	1	07/26/12 01:00	07/26/12 16:40	108-60-1	
2-Chloronaphthalene	**0.77U**	ug/L	4.8	0.77	1	07/26/12 01:00	07/26/12 16:40	91-58-7	
2-Chlorophenol	**0.65U**	ug/L	4.8	0.65	1	07/26/12 01:00	07/26/12 16:40	95-57-8	
4-Chlorophenylphenyl ether	**0.60U**	ug/L	4.8	0.60	1	07/26/12 01:00	07/26/12 16:40	7005-72-3	
Chrysene	**0.35U**	ug/L	4.8	0.35	1	07/26/12 01:00	07/26/12 16:40	218-01-9	
Dibenz(a,h)anthracene	**0.62U**	ug/L	1.9	0.62	1	07/26/12 01:00	07/26/12 16:40	53-70-3	J(M1)
Dibenzofuran	**0.64U**	ug/L	4.8	0.64	1	07/26/12 01:00	07/26/12 16:40	132-64-9	
1,2-Dichlorobenzene	**0.65U**	ug/L	4.8	0.65	1	07/26/12 01:00	07/26/12 16:40	95-50-1	
1,3-Dichlorobenzene	**0.73U**	ug/L	4.8	0.73	1	07/26/12 01:00	07/26/12 16:40	541-73-1	
1,4-Dichlorobenzene	**0.74U**	ug/L	4.8	0.74	1	07/26/12 01:00	07/26/12 16:40	106-46-7	
3,3'-Dichlorobenzidine	**0.66U**	ug/L	9.6	0.66	1	07/26/12 01:00	07/26/12 16:40	91-94-1	

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Pace Analytical Services, Inc.
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

Sample: OSW-3 **Lab ID: 3563174001** Collected: 07/23/12 09:43 Received: 07/24/12 10:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
2,4-Dichlorophenol	**0.54U**	ug/L	1.9	0.54	1	07/26/12 01:00	07/26/12 16:40	120-83-2	
Diethylphthalate	**0.49U**	ug/L	4.8	0.49	1	07/26/12 01:00	07/26/12 16:40	84-66-2	J(M1)
2,4-Dimethylphenol	**1.5U**	ug/L	4.8	1.5	1	07/26/12 01:00	07/26/12 16:40	105-67-9	
Dimethylphthalate	**0.61U**	ug/L	4.8	0.61	1	07/26/12 01:00	07/26/12 16:40	131-11-3	
Di-n-butylphthalate	**0.66 I**	ug/L	4.8	0.39	1	07/26/12 01:00	07/26/12 16:40	84-74-2	
4,6-Dinitro-2-methylphenol	**1.3U**	ug/L	19.2	1.3	1	07/26/12 01:00	07/26/12 16:40	534-52-1	
2,4-Dinitrophenol	**1.5U**	ug/L	19.2	1.5	1	07/26/12 01:00	07/26/12 16:40	51-28-5	
2,4-Dinitrotoluene	**0.51U**	ug/L	1.9	0.51	1	07/26/12 01:00	07/26/12 16:40	121-14-2	
2,6-Dinitrotoluene	**1.2U**	ug/L	1.9	1.2	1	07/26/12 01:00	07/26/12 16:40	606-20-2	
Di-n-octylphthalate	**0.86U**	ug/L	4.8	0.86	1	07/26/12 01:00	07/26/12 16:40	117-84-0	
Dinoseb	**0.83U**	ug/L	4.8	0.83	1	07/26/12 01:00	07/26/12 16:40	88-85-7	
1,2-Diphenylhydrazine	**0.63U**	ug/L	4.8	0.63	1	07/26/12 01:00	07/26/12 16:40	122-66-7	
bis(2-Ethylhexyl)phthalate	**0.77U**	ug/L	4.8	0.77	1	07/26/12 01:00	07/26/12 16:40	117-81-7	
Fluoranthene	**0.52U**	ug/L	4.8	0.52	1	07/26/12 01:00	07/26/12 16:40	206-44-0	
Fluorene	**0.54U**	ug/L	4.8	0.54	1	07/26/12 01:00	07/26/12 16:40	86-73-7	J(M1)
Hexachloro-1,3-butadiene	**1.0U**	ug/L	1.9	1.0	1	07/26/12 01:00	07/26/12 16:40	87-68-3	
Hexachlorobenzene	**0.77U**	ug/L	0.96	0.77	1	07/26/12 01:00	07/26/12 16:40	118-74-1	
Hexachlorocyclopentadiene	**1.2U**	ug/L	4.8	1.2	1	07/26/12 01:00	07/26/12 16:40	77-47-4	
Hexachloroethane	**0.68U**	ug/L	4.8	0.68	1	07/26/12 01:00	07/26/12 16:40	67-72-1	
Indeno(1,2,3-cd)pyrene	**0.70U**	ug/L	1.9	0.70	1	07/26/12 01:00	07/26/12 16:40	193-39-5	J(M1)
Isophorone	**0.70U**	ug/L	4.8	0.70	1	07/26/12 01:00	07/26/12 16:40	78-59-1	
1-Methylnaphthalene	**0.96U**	ug/L	4.8	0.96	1	07/26/12 01:00	07/26/12 16:40	90-12-0	
2-Methylnaphthalene	**0.95U**	ug/L	4.8	0.95	1	07/26/12 01:00	07/26/12 16:40	91-57-6	
2-Methylphenol(o-Cresol)	**0.70U**	ug/L	4.8	0.70	1	07/26/12 01:00	07/26/12 16:40	95-48-7	
3&4-Methylphenol(m&p Cresol)	**0.63U**	ug/L	9.6	0.63	1	07/26/12 01:00	07/26/12 16:40		J(L2)
Naphthalene	**0.75U**	ug/L	4.8	0.75	1	07/26/12 01:00	07/26/12 16:40	91-20-3	
2-Nitroaniline	**0.58U**	ug/L	4.8	0.58	1	07/26/12 01:00	07/26/12 16:40	88-74-4	
3-Nitroaniline	**0.95U**	ug/L	4.8	0.95	1	07/26/12 01:00	07/26/12 16:40	99-09-2	
4-Nitroaniline	**0.66U**	ug/L	3.8	0.66	1	07/26/12 01:00	07/26/12 16:40	100-01-6	
Nitrobenzene	**1.0U**	ug/L	3.8	1.0	1	07/26/12 01:00	07/26/12 16:40	98-95-3	
2-Nitrophenol	**0.78U**	ug/L	4.8	0.78	1	07/26/12 01:00	07/26/12 16:40	88-75-5	
4-Nitrophenol	**1.0U**	ug/L	19.2	1.0	1	07/26/12 01:00	07/26/12 16:40	100-02-7	
N-Nitrosodimethylamine	**0.93U**	ug/L	1.9	0.93	1	07/26/12 01:00	07/26/12 16:40	62-75-9	
N-Nitroso-di-n-propylamine	**0.90U**	ug/L	3.8	0.90	1	07/26/12 01:00	07/26/12 16:40	621-64-7	
N-Nitrosodiphenylamine	**0.48U**	ug/L	4.8	0.48	1	07/26/12 01:00	07/26/12 16:40	86-30-6	
Pentachlorophenol	**0.63U**	ug/L	19.2	0.63	1	07/26/12 01:00	07/26/12 16:40	87-86-5	
Phenanthrene	**0.50U**	ug/L	4.8	0.50	1	07/26/12 01:00	07/26/12 16:40	85-01-8	
Phenol	**0.52U**	ug/L	4.8	0.52	1	07/26/12 01:00	07/26/12 16:40	108-95-2	
Pyrene	**0.65U**	ug/L	4.8	0.65	1	07/26/12 01:00	07/26/12 16:40	129-00-0	
Pyridine	**1.4U**	ug/L	4.8	1.4	1	07/26/12 01:00	07/26/12 16:40	110-86-1	J(L2), J(M0)
1,2,4,5-Tetrachlorobenzene	**0.67U**	ug/L	4.8	0.67	1	07/26/12 01:00	07/26/12 16:40	95-94-3	
2,3,4,6-Tetrachlorophenol	**3.7U**	ug/L	4.8	3.7	1	07/26/12 01:00	07/26/12 16:40	58-90-2	
2,3,5,6-Tetrachlorophenol	**0.50U**	ug/L	4.8	0.50	1	07/26/12 01:00	07/26/12 16:40	935-95-5	N2
1,2,4-Trichlorobenzene	**0.80U**	ug/L	4.8	0.80	1	07/26/12 01:00	07/26/12 16:40	120-82-1	
2,4,5-Trichlorophenol	**0.50U**	ug/L	3.8	0.50	1	07/26/12 01:00	07/26/12 16:40	95-95-4	

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Pace Analytical Services, Inc.
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

Sample: OSW-3 **Lab ID: 3563174001** Collected: 07/23/12 09:43 Received: 07/24/12 10:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
2,4,6-Trichlorophenol	**0.66U**	ug/L	1.9	0.66	1	07/26/12 01:00	07/26/12 16:40	88-06-2	
1,3,5-Trinitrobenzene	**1.2U**	ug/L	4.8	1.2	1	07/26/12 01:00	07/26/12 16:40	99-35-4	
Surrogates									
Nitrobenzene-d5 (S)	55	%	10-110		1	07/26/12 01:00	07/26/12 16:40	4165-60-0	
2-Fluorobiphenyl (S)	58	%	18-110		1	07/26/12 01:00	07/26/12 16:40	321-60-8	
Terphenyl-d14 (S)	92	%	10-123		1	07/26/12 01:00	07/26/12 16:40	1718-51-0	
Phenol-d6 (S)	12	%	10-110		1	07/26/12 01:00	07/26/12 16:40	13127-88-3	
2-Fluorophenol (S)	21	%	18-110		1	07/26/12 01:00	07/26/12 16:40	367-12-4	
2,4,6-Tribromophenol (S)	77	%	10-110		1	07/26/12 01:00	07/26/12 16:40	118-79-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**5.0U**	ug/L	10.0	5.0	1		07/25/12 20:28	67-64-1	
Acetonitrile	**5.0U**	ug/L	10.0	5.0	1		07/25/12 20:28	75-05-8	
Benzene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	71-43-2	
Bromochloromethane	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	74-97-5	
Bromodichloromethane	**0.27U**	ug/L	0.60	0.27	1		07/25/12 20:28	75-27-4	
Bromoform	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	75-25-2	
Bromomethane	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	74-83-9	
2-Butanone (MEK)	**5.0U**	ug/L	10.0	5.0	1		07/25/12 20:28	78-93-3	
Carbon disulfide	**5.0U**	ug/L	10.0	5.0	1		07/25/12 20:28	75-15-0	
Carbon tetrachloride	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	56-23-5	
Chlorobenzene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	108-90-7	
Chloroethane	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	75-00-3	
Chloroform	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	67-66-3	
Chloromethane	**0.62U**	ug/L	1.0	0.62	1		07/25/12 20:28	74-87-3	
1,2-Dibromo-3-chloropropane	**1.0U**	ug/L	2.0	1.0	1		07/25/12 20:28	96-12-8	
Dibromochloromethane	**0.26U**	ug/L	0.50	0.26	1		07/25/12 20:28	124-48-1	
1,2-Dibromoethane (EDB)	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	106-93-4	
Dibromomethane	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	74-95-3	
1,2-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	95-50-1	
1,4-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0U**	ug/L	10.0	5.0	1		07/25/12 20:28	110-57-6	
1,1-Dichloroethane	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	75-34-3	
1,2-Dichloroethane	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	107-06-2	
1,2-Dichloroethene (Total)	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	540-59-0	
1,1-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	75-35-4	
cis-1,2-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	156-59-2	
trans-1,2-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	156-60-5	
1,2-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	78-87-5	
cis-1,3-Dichloropropene	**0.25U**	ug/L	0.50	0.25	1		07/25/12 20:28	10061-01-5	
trans-1,3-Dichloropropene	**0.25U**	ug/L	0.50	0.25	1		07/25/12 20:28	10061-02-6	
Ethylbenzene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	100-41-4	
2-Hexanone	**5.0U**	ug/L	10.0	5.0	1		07/25/12 20:28	591-78-6	
Iodomethane	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	74-88-4	
Methylene Chloride	**2.5U**	ug/L	5.0	2.5	1		07/25/12 20:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0U**	ug/L	10.0	5.0	1		07/25/12 20:28	108-10-1	

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ANALYTICAL RESULTS

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

Sample: OSW-3 **Lab ID: 3563174001** Collected: 07/23/12 09:43 Received: 07/24/12 10:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Methyl-tert-butyl ether	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	1634-04-4	
Styrene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12U**	ug/L	0.50	0.12	1		07/25/12 20:28	79-34-5	
Tetrachloroethene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	127-18-4	
Toluene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	108-88-3	
1,1,1-Trichloroethane	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	71-55-6	
1,1,2-Trichloroethane	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	79-00-5	
Trichloroethene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	79-01-6	
Trichlorofluoromethane	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	75-69-4	
1,2,3-Trichloropropane	**0.36U**	ug/L	0.50	0.36	1		07/25/12 20:28	96-18-4	
Vinyl acetate	**1.0U**	ug/L	2.0	1.0	1		07/25/12 20:28	108-05-4	
Vinyl chloride	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	75-01-4	
Xylene (Total)	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	1330-20-7	
m&p-Xylene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	179601-23-1	
o-Xylene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:28	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-114		1		07/25/12 20:28	460-00-4	
Dibromofluoromethane (S)	101	%	88-117		1		07/25/12 20:28	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	86-125		1		07/25/12 20:28	17060-07-0	
Toluene-d8 (S)	100	%	87-113		1		07/25/12 20:28	2037-26-5	

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ANALYTICAL RESULTS

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

Sample: OSW-1 **Lab ID: 3563174002** Collected: 07/23/12 10:42 Received: 07/24/12 10:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Water	Analytical Method: FL-PRO Preparation Method: EPA 3510								
Petroleum Range Organics	**0.058U**	mg/L	0.098	0.058	1	07/26/12 03:00	07/26/12 21:32		
Surrogates									
o-Terphenyl (S)	97	%	82-142		1	07/26/12 03:00	07/26/12 21:32	84-15-1	
N-Pentatriacontane (S)	90	%	42-159		1	07/26/12 03:00	07/26/12 21:32	630-07-09	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	**5.0U**	ug/L	15.0	5.0	1	07/26/12 10:44	07/28/12 17:32	7440-36-0	
Arsenic	**5.0U**	ug/L	10.0	5.0	1	07/26/12 10:44	07/28/12 17:32	7440-38-2	
Cadmium	**0.50U**	ug/L	1.0	0.50	1	07/26/12 10:44	07/28/12 17:32	7440-43-9	
Chromium	**2.5U**	ug/L	5.0	2.5	1	07/26/12 10:44	07/28/12 17:32	7440-47-3	
Lead	**5.0U**	ug/L	10.0	5.0	1	07/26/12 10:44	07/28/12 17:32	7439-92-1	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	**0.84U**	ug/L	4.9	0.84	1	07/26/12 01:00	07/26/12 16:58	83-32-9	
Acenaphthylene	**0.93U**	ug/L	4.9	0.93	1	07/26/12 01:00	07/26/12 16:58	208-96-8	
Acetophenone	**1.4U**	ug/L	4.9	1.4	1	07/26/12 01:00	07/26/12 16:58	98-86-2	
Aniline	**1.9U**	ug/L	4.9	1.9	1	07/26/12 01:00	07/26/12 16:58	62-53-3	
Anthracene	**0.59U**	ug/L	4.9	0.59	1	07/26/12 01:00	07/26/12 16:58	120-12-7	
Atrazine	**1.3U**	ug/L	4.9	1.3	1	07/26/12 01:00	07/26/12 16:58	1912-24-9	
Benzaldehyde	**1.5U**	ug/L	4.9	1.5	1	07/26/12 01:00	07/26/12 16:58	100-52-7	N2
Benzidine	**0.75U**	ug/L	24.4	0.75	1	07/26/12 01:00	07/26/12 16:58	92-87-5	
Benzo(a)anthracene	**0.62U**	ug/L	4.9	0.62	1	07/26/12 01:00	07/26/12 16:58	56-55-3	
Benzo(a)pyrene	**0.57U**	ug/L	0.98	0.57	1	07/26/12 01:00	07/26/12 16:58	50-32-8	
Benzo(b)fluoranthene	**0.61U**	ug/L	2.0	0.61	1	07/26/12 01:00	07/26/12 16:58	205-99-2	
Benzo(g,h,i)perylene	**0.66U**	ug/L	4.9	0.66	1	07/26/12 01:00	07/26/12 16:58	191-24-2	
Benzo(k)fluoranthene	**0.50U**	ug/L	3.9	0.50	1	07/26/12 01:00	07/26/12 16:58	207-08-9	
Biphenyl (Diphenyl)	**0.78U**	ug/L	4.9	0.78	1	07/26/12 01:00	07/26/12 16:58	92-52-4	N2
4-Bromophenylphenyl ether	**0.65U**	ug/L	4.9	0.65	1	07/26/12 01:00	07/26/12 16:58	101-55-3	
Butylbenzylphthalate	**0.70U**	ug/L	4.9	0.70	1	07/26/12 01:00	07/26/12 16:58	85-68-7	
Caprolactam	**1.2U**	ug/L	4.9	1.2	1	07/26/12 01:00	07/26/12 16:58	105-60-2	N2
Carbazole	**0.46U**	ug/L	4.9	0.46	1	07/26/12 01:00	07/26/12 16:58	86-74-8	N2
4-Chloro-3-methylphenol	**0.61U**	ug/L	19.6	0.61	1	07/26/12 01:00	07/26/12 16:58	59-50-7	
4-Chloroaniline	**1.2U**	ug/L	4.9	1.2	1	07/26/12 01:00	07/26/12 16:58	106-47-8	
bis(2-Chloroethoxy)methane	**2.9U**	ug/L	4.9	2.9	1	07/26/12 01:00	07/26/12 16:58	111-91-1	
bis(2-Chloroethyl) ether	**0.73U**	ug/L	3.9	0.73	1	07/26/12 01:00	07/26/12 16:58	111-44-4	
bis(2-Chloroisopropyl) ether	**0.71U**	ug/L	4.9	0.71	1	07/26/12 01:00	07/26/12 16:58	108-60-1	
2-Chloronaphthalene	**0.78U**	ug/L	4.9	0.78	1	07/26/12 01:00	07/26/12 16:58	91-58-7	
2-Chlorophenol	**0.66U**	ug/L	4.9	0.66	1	07/26/12 01:00	07/26/12 16:58	95-57-8	
4-Chlorophenylphenyl ether	**0.62U**	ug/L	4.9	0.62	1	07/26/12 01:00	07/26/12 16:58	7005-72-3	
Chrysene	**0.36U**	ug/L	4.9	0.36	1	07/26/12 01:00	07/26/12 16:58	218-01-9	
Dibenz(a,h)anthracene	**0.64U**	ug/L	2.0	0.64	1	07/26/12 01:00	07/26/12 16:58	53-70-3	
Dibenzofuran	**0.65U**	ug/L	4.9	0.65	1	07/26/12 01:00	07/26/12 16:58	132-64-9	
1,2-Dichlorobenzene	**0.66U**	ug/L	4.9	0.66	1	07/26/12 01:00	07/26/12 16:58	95-50-1	
1,3-Dichlorobenzene	**0.74U**	ug/L	4.9	0.74	1	07/26/12 01:00	07/26/12 16:58	541-73-1	
1,4-Dichlorobenzene	**0.75U**	ug/L	4.9	0.75	1	07/26/12 01:00	07/26/12 16:58	106-46-7	
3,3'-Dichlorobenzidine	**0.67U**	ug/L	9.8	0.67	1	07/26/12 01:00	07/26/12 16:58	91-94-1	

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ANALYTICAL RESULTS

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

Sample: OSW-1 **Lab ID: 3563174002** Collected: 07/23/12 10:42 Received: 07/24/12 10:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
2,4-Dichlorophenol	**0.55U**	ug/L	2.0	0.55	1	07/26/12 01:00	07/26/12 16:58	120-83-2	
Diethylphthalate	**0.50U**	ug/L	4.9	0.50	1	07/26/12 01:00	07/26/12 16:58	84-66-2	
2,4-Dimethylphenol	**1.5U**	ug/L	4.9	1.5	1	07/26/12 01:00	07/26/12 16:58	105-67-9	
Dimethylphthalate	**0.63U**	ug/L	4.9	0.63	1	07/26/12 01:00	07/26/12 16:58	131-11-3	
Di-n-butylphthalate	**0.40U**	ug/L	4.9	0.40	1	07/26/12 01:00	07/26/12 16:58	84-74-2	
4,6-Dinitro-2-methylphenol	**1.3U**	ug/L	19.6	1.3	1	07/26/12 01:00	07/26/12 16:58	534-52-1	
2,4-Dinitrophenol	**1.5U**	ug/L	19.6	1.5	1	07/26/12 01:00	07/26/12 16:58	51-28-5	
2,4-Dinitrotoluene	**0.52U**	ug/L	2.0	0.52	1	07/26/12 01:00	07/26/12 16:58	121-14-2	
2,6-Dinitrotoluene	**1.2U**	ug/L	2.0	1.2	1	07/26/12 01:00	07/26/12 16:58	606-20-2	
Di-n-octylphthalate	**0.88U**	ug/L	4.9	0.88	1	07/26/12 01:00	07/26/12 16:58	117-84-0	
Dinoseb	**0.85U**	ug/L	4.9	0.85	1	07/26/12 01:00	07/26/12 16:58	88-85-7	
1,2-Diphenylhydrazine	**0.65U**	ug/L	4.9	0.65	1	07/26/12 01:00	07/26/12 16:58	122-66-7	
bis(2-Ethylhexyl)phthalate	**0.78U**	ug/L	4.9	0.78	1	07/26/12 01:00	07/26/12 16:58	117-81-7	
Fluoranthene	**0.53U**	ug/L	4.9	0.53	1	07/26/12 01:00	07/26/12 16:58	206-44-0	
Fluorene	**0.55U**	ug/L	4.9	0.55	1	07/26/12 01:00	07/26/12 16:58	86-73-7	
Hexachloro-1,3-butadiene	**1.1U**	ug/L	2.0	1.1	1	07/26/12 01:00	07/26/12 16:58	87-68-3	
Hexachlorobenzene	**0.78U**	ug/L	0.98	0.78	1	07/26/12 01:00	07/26/12 16:58	118-74-1	
Hexachlorocyclopentadiene	**1.3U**	ug/L	4.9	1.3	1	07/26/12 01:00	07/26/12 16:58	77-47-4	
Hexachloroethane	**0.69U**	ug/L	4.9	0.69	1	07/26/12 01:00	07/26/12 16:58	67-72-1	
Indeno(1,2,3-cd)pyrene	**0.71U**	ug/L	2.0	0.71	1	07/26/12 01:00	07/26/12 16:58	193-39-5	
Isophorone	**0.71U**	ug/L	4.9	0.71	1	07/26/12 01:00	07/26/12 16:58	78-59-1	
1-Methylnaphthalene	**0.98U**	ug/L	4.9	0.98	1	07/26/12 01:00	07/26/12 16:58	90-12-0	
2-Methylnaphthalene	**0.97U**	ug/L	4.9	0.97	1	07/26/12 01:00	07/26/12 16:58	91-57-6	
2-Methylphenol(o-Cresol)	**0.71U**	ug/L	4.9	0.71	1	07/26/12 01:00	07/26/12 16:58	95-48-7	
3&4-Methylphenol(m&p Cresol)	**0.65U**	ug/L	9.8	0.65	1	07/26/12 01:00	07/26/12 16:58		J(L2)
Naphthalene	**0.76U**	ug/L	4.9	0.76	1	07/26/12 01:00	07/26/12 16:58	91-20-3	
2-Nitroaniline	**0.59U**	ug/L	4.9	0.59	1	07/26/12 01:00	07/26/12 16:58	88-74-4	
3-Nitroaniline	**0.97U**	ug/L	4.9	0.97	1	07/26/12 01:00	07/26/12 16:58	99-09-2	
4-Nitroaniline	**0.67U**	ug/L	3.9	0.67	1	07/26/12 01:00	07/26/12 16:58	100-01-6	
Nitrobenzene	**1.1U**	ug/L	3.9	1.1	1	07/26/12 01:00	07/26/12 16:58	98-95-3	
2-Nitrophenol	**0.79U**	ug/L	4.9	0.79	1	07/26/12 01:00	07/26/12 16:58	88-75-5	
4-Nitrophenol	**1.1U**	ug/L	19.6	1.1	1	07/26/12 01:00	07/26/12 16:58	100-02-7	
N-Nitrosodimethylamine	**0.95U**	ug/L	2.0	0.95	1	07/26/12 01:00	07/26/12 16:58	62-75-9	
N-Nitroso-di-n-propylamine	**0.92U**	ug/L	3.9	0.92	1	07/26/12 01:00	07/26/12 16:58	621-64-7	
N-Nitrosodiphenylamine	**0.49U**	ug/L	4.9	0.49	1	07/26/12 01:00	07/26/12 16:58	86-30-6	
Pentachlorophenol	**0.65U**	ug/L	19.6	0.65	1	07/26/12 01:00	07/26/12 16:58	87-86-5	
Phenanthrene	**0.51U**	ug/L	4.9	0.51	1	07/26/12 01:00	07/26/12 16:58	85-01-8	
Phenol	**0.53U**	ug/L	4.9	0.53	1	07/26/12 01:00	07/26/12 16:58	108-95-2	
Pyrene	**0.66U**	ug/L	4.9	0.66	1	07/26/12 01:00	07/26/12 16:58	129-00-0	
Pyridine	**1.5U**	ug/L	4.9	1.5	1	07/26/12 01:00	07/26/12 16:58	110-86-1	J(L2)
1,2,4,5-Tetrachlorobenzene	**0.68U**	ug/L	4.9	0.68	1	07/26/12 01:00	07/26/12 16:58	95-94-3	
2,3,4,6-Tetrachlorophenol	**3.8U**	ug/L	4.9	3.8	1	07/26/12 01:00	07/26/12 16:58	58-90-2	
2,3,5,6-Tetrachlorophenol	**0.51U**	ug/L	4.9	0.51	1	07/26/12 01:00	07/26/12 16:58	935-95-5	N2
1,2,4-Trichlorobenzene	**0.81U**	ug/L	4.9	0.81	1	07/26/12 01:00	07/26/12 16:58	120-82-1	
2,4,5-Trichlorophenol	**0.51U**	ug/L	3.9	0.51	1	07/26/12 01:00	07/26/12 16:58	95-95-4	
2,4,6-Trichlorophenol	**0.67U**	ug/L	2.0	0.67	1	07/26/12 01:00	07/26/12 16:58	88-06-2	

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#140274D
Pace Analytical Services, Inc.
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

Sample: OSW-1 **Lab ID: 3563174002** Collected: 07/23/12 10:42 Received: 07/24/12 10:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
1,3,5-Trinitrobenzene	**1.2U**	ug/L	4.9	1.2	1	07/26/12 01:00	07/26/12 16:58	99-35-4	
Surrogates									
Nitrobenzene-d5 (S)	63	%	10-110		1	07/26/12 01:00	07/26/12 16:58	4165-60-0	
2-Fluorobiphenyl (S)	66	%	18-110		1	07/26/12 01:00	07/26/12 16:58	321-60-8	
Terphenyl-d14 (S)	93	%	10-123		1	07/26/12 01:00	07/26/12 16:58	1718-51-0	
Phenol-d6 (S)	13	%	10-110		1	07/26/12 01:00	07/26/12 16:58	13127-88-3	
2-Fluorophenol (S)	22	%	18-110		1	07/26/12 01:00	07/26/12 16:58	367-12-4	
2,4,6-Tribromophenol (S)	76	%	10-110		1	07/26/12 01:00	07/26/12 16:58	118-79-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**5.0U**	ug/L	10.0	5.0	1		07/25/12 20:51	67-64-1	
Acetonitrile	**5.0U**	ug/L	10.0	5.0	1		07/25/12 20:51	75-05-8	
Benzene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	71-43-2	
Bromochloromethane	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	74-97-5	
Bromodichloromethane	**0.27U**	ug/L	0.60	0.27	1		07/25/12 20:51	75-27-4	
Bromoform	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	75-25-2	
Bromomethane	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	74-83-9	
2-Butanone (MEK)	**5.0U**	ug/L	10.0	5.0	1		07/25/12 20:51	78-93-3	
Carbon disulfide	**5.0U**	ug/L	10.0	5.0	1		07/25/12 20:51	75-15-0	
Carbon tetrachloride	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	56-23-5	
Chlorobenzene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	108-90-7	
Chloroethane	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	75-00-3	
Chloroform	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	67-66-3	
Chloromethane	**0.62U**	ug/L	1.0	0.62	1		07/25/12 20:51	74-87-3	
1,2-Dibromo-3-chloropropane	**1.0U**	ug/L	2.0	1.0	1		07/25/12 20:51	96-12-8	
Dibromochloromethane	**0.26U**	ug/L	0.50	0.26	1		07/25/12 20:51	124-48-1	
1,2-Dibromoethane (EDB)	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	106-93-4	
Dibromomethane	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	74-95-3	
1,2-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	95-50-1	
1,4-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0U**	ug/L	10.0	5.0	1		07/25/12 20:51	110-57-6	
1,1-Dichloroethane	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	75-34-3	
1,2-Dichloroethane	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	107-06-2	
1,2-Dichloroethene (Total)	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	540-59-0	
1,1-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	75-35-4	
cis-1,2-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	156-59-2	
trans-1,2-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	156-60-5	
1,2-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	78-87-5	
cis-1,3-Dichloropropene	**0.25U**	ug/L	0.50	0.25	1		07/25/12 20:51	10061-01-5	
trans-1,3-Dichloropropene	**0.25U**	ug/L	0.50	0.25	1		07/25/12 20:51	10061-02-6	
Ethylbenzene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	100-41-4	
2-Hexanone	**5.0U**	ug/L	10.0	5.0	1		07/25/12 20:51	591-78-6	
Iodomethane	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	74-88-4	
Methylene Chloride	**2.5U**	ug/L	5.0	2.5	1		07/25/12 20:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0U**	ug/L	10.0	5.0	1		07/25/12 20:51	108-10-1	
Methyl-tert-butyl ether	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	1634-04-4	

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ANALYTICAL RESULTS

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

Sample: OSW-1 **Lab ID: 3563174002** Collected: 07/23/12 10:42 Received: 07/24/12 10:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Styrene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12U**	ug/L	0.50	0.12	1		07/25/12 20:51	79-34-5	
Tetrachloroethene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	127-18-4	
Toluene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	108-88-3	
1,1,1-Trichloroethane	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	71-55-6	
1,1,2-Trichloroethane	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	79-00-5	
Trichloroethene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	79-01-6	
Trichlorofluoromethane	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	75-69-4	
1,2,3-Trichloropropane	**0.36U**	ug/L	0.50	0.36	1		07/25/12 20:51	96-18-4	
Vinyl acetate	**1.0U**	ug/L	2.0	1.0	1		07/25/12 20:51	108-05-4	
Vinyl chloride	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	75-01-4	
Xylene (Total)	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	1330-20-7	
m&p-Xylene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	179601-23-1	
o-Xylene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 20:51	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-114		1		07/25/12 20:51	460-00-4	
Dibromofluoromethane (S)	103	%	88-117		1		07/25/12 20:51	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	86-125		1		07/25/12 20:51	17060-07-0	
Toluene-d8 (S)	100	%	87-113		1		07/25/12 20:51	2037-26-5	

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8 East Tower Circle
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ANALYTICAL RESULTS

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

Sample: HO-1 **Lab ID: 3563174003** Collected: 07/23/12 10:42 Received: 07/24/12 10:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Water	Analytical Method: FL-PRO Preparation Method: EPA 3510								
Petroleum Range Organics	**0.058U**	mg/L	0.098	0.058	1	07/26/12 03:00	07/26/12 22:04		
Surrogates									
o-Terphenyl (S)	113	%	82-142		1	07/26/12 03:00	07/26/12 22:04	84-15-1	
N-Pentatriacontane (S)	104	%	42-159		1	07/26/12 03:00	07/26/12 22:04	630-07-09	
8270 MSSV PAH by SCAN	Analytical Method: EPA 8270 by SCAN Preparation Method: EPA 3510								
Acenaphthene	**0.019U**	ug/L	1.0	0.019	1	07/26/12 00:00	07/26/12 10:57	83-32-9	
Acenaphthylene	**0.018U**	ug/L	2.0	0.018	1	07/26/12 00:00	07/26/12 10:57	208-96-8	
Anthracene	**0.019U**	ug/L	1.0	0.019	1	07/26/12 00:00	07/26/12 10:57	120-12-7	
Benzo(a)anthracene	**0.013U**	ug/L	0.20	0.013	1	07/26/12 00:00	07/26/12 10:57	56-55-3	
Benzo(a)pyrene	**0.022U**	ug/L	0.20	0.022	1	07/26/12 00:00	07/26/12 10:57	50-32-8	
Benzo(b)fluoranthene	**0.016U**	ug/L	0.10	0.016	1	07/26/12 00:00	07/26/12 10:57	205-99-2	
Benzo(g,h,i)perylene	**0.017U**	ug/L	1.0	0.017	1	07/26/12 00:00	07/26/12 10:57	191-24-2	
Benzo(k)fluoranthene	**0.023U**	ug/L	0.25	0.023	1	07/26/12 00:00	07/26/12 10:57	207-08-9	
Chrysene	**0.015U**	ug/L	1.0	0.015	1	07/26/12 00:00	07/26/12 10:57	218-01-9	
Dibenz(a,h)anthracene	**0.019U**	ug/L	0.20	0.019	1	07/26/12 00:00	07/26/12 10:57	53-70-3	
Fluoranthene	**0.012U**	ug/L	1.0	0.012	1	07/26/12 00:00	07/26/12 10:57	206-44-0	
Fluorene	**0.011U**	ug/L	1.0	0.011	1	07/26/12 00:00	07/26/12 10:57	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.019U**	ug/L	0.15	0.019	1	07/26/12 00:00	07/26/12 10:57	193-39-5	
1-Methylnaphthalene	**0.016U**	ug/L	1.5	0.016	1	07/26/12 00:00	07/26/12 10:57	90-12-0	
2-Methylnaphthalene	**0.013U**	ug/L	1.5	0.013	1	07/26/12 00:00	07/26/12 10:57	91-57-6	
Naphthalene	**0.015U**	ug/L	1.0	0.015	1	07/26/12 00:00	07/26/12 10:57	91-20-3	
Phenanthrene	**0.016U**	ug/L	1.0	0.016	1	07/26/12 00:00	07/26/12 10:57	85-01-8	
Pyrene	**0.010U**	ug/L	1.0	0.010	1	07/26/12 00:00	07/26/12 10:57	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	59	%	43.9-113		1	07/26/12 00:00	07/26/12 10:57	321-60-8	
Terphenyl-d14 (S)	81	%	24.8-144		1	07/26/12 00:00	07/26/12 10:57	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 21:13	71-43-2	
Ethylbenzene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 21:13	100-41-4	
Methyl-tert-butyl ether	**0.50U**	ug/L	1.0	0.50	1		07/25/12 21:13	1634-04-4	
Toluene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 21:13	108-88-3	
Xylene (Total)	**0.50U**	ug/L	1.0	0.50	1		07/25/12 21:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-114		1		07/25/12 21:13	460-00-4	
Dibromofluoromethane (S)	101	%	88-117		1		07/25/12 21:13	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	86-125		1		07/25/12 21:13	17060-07-0	
Toluene-d8 (S)	101	%	87-113		1		07/25/12 21:13	2037-26-5	

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ANALYTICAL RESULTS

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

Sample: HO-4 **Lab ID: 3563174004** Collected: 07/23/12 12:32 Received: 07/24/12 10:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Water	Analytical Method: FL-PRO Preparation Method: EPA 3510								
Petroleum Range Organics	**0.058U**	mg/L	0.098	0.058	1	07/26/12 03:00	07/26/12 22:04		
Surrogates									
o-Terphenyl (S)	105	%	82-142		1	07/26/12 03:00	07/26/12 22:04	84-15-1	
N-Pentatriacontane (S)	108	%	42-159		1	07/26/12 03:00	07/26/12 22:04	630-07-09	
8270 MSSV PAH by SCAN	Analytical Method: EPA 8270 by SCAN Preparation Method: EPA 3510								
Acenaphthene	**0.018U**	ug/L	0.97	0.018	1	07/26/12 00:00	07/26/12 11:18	83-32-9	
Acenaphthylene	**0.017U**	ug/L	1.9	0.017	1	07/26/12 00:00	07/26/12 11:18	208-96-8	
Anthracene	**0.018U**	ug/L	0.97	0.018	1	07/26/12 00:00	07/26/12 11:18	120-12-7	
Benzo(a)anthracene	**0.013U**	ug/L	0.19	0.013	1	07/26/12 00:00	07/26/12 11:18	56-55-3	
Benzo(a)pyrene	**0.021U**	ug/L	0.19	0.021	1	07/26/12 00:00	07/26/12 11:18	50-32-8	
Benzo(b)fluoranthene	**0.015U**	ug/L	0.097	0.015	1	07/26/12 00:00	07/26/12 11:18	205-99-2	
Benzo(g,h,i)perylene	**0.016U**	ug/L	0.97	0.016	1	07/26/12 00:00	07/26/12 11:18	191-24-2	
Benzo(k)fluoranthene	**0.022U**	ug/L	0.24	0.022	1	07/26/12 00:00	07/26/12 11:18	207-08-9	
Chrysene	**0.014U**	ug/L	0.97	0.014	1	07/26/12 00:00	07/26/12 11:18	218-01-9	
Dibenz(a,h)anthracene	**0.018U**	ug/L	0.19	0.018	1	07/26/12 00:00	07/26/12 11:18	53-70-3	
Fluoranthene	**0.012U**	ug/L	0.97	0.012	1	07/26/12 00:00	07/26/12 11:18	206-44-0	
Fluorene	**0.011U**	ug/L	0.97	0.011	1	07/26/12 00:00	07/26/12 11:18	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.018U**	ug/L	0.14	0.018	1	07/26/12 00:00	07/26/12 11:18	193-39-5	
1-Methylnaphthalene	**0.015U**	ug/L	1.4	0.015	1	07/26/12 00:00	07/26/12 11:18	90-12-0	
2-Methylnaphthalene	**0.013U**	ug/L	1.4	0.013	1	07/26/12 00:00	07/26/12 11:18	91-57-6	
Naphthalene	**0.014U**	ug/L	0.97	0.014	1	07/26/12 00:00	07/26/12 11:18	91-20-3	
Phenanthrene	**0.015U**	ug/L	0.97	0.015	1	07/26/12 00:00	07/26/12 11:18	85-01-8	
Pyrene	**0.0097U**	ug/L	0.97	0.0097	1	07/26/12 00:00	07/26/12 11:18	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	57	%	43.9-113		1	07/26/12 00:00	07/26/12 11:18	321-60-8	
Terphenyl-d14 (S)	91	%	24.8-144		1	07/26/12 00:00	07/26/12 11:18	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 21:35	71-43-2	
Ethylbenzene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 21:35	100-41-4	
Methyl-tert-butyl ether	**0.50U**	ug/L	1.0	0.50	1		07/25/12 21:35	1634-04-4	
Toluene	**0.50U**	ug/L	1.0	0.50	1		07/25/12 21:35	108-88-3	
Xylene (Total)	**0.50U**	ug/L	1.0	0.50	1		07/25/12 21:35	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-114		1		07/25/12 21:35	460-00-4	
Dibromofluoromethane (S)	102	%	88-117		1		07/25/12 21:35	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	86-125		1		07/25/12 21:35	17060-07-0	
Toluene-d8 (S)	100	%	87-113		1		07/25/12 21:35	2037-26-5	

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#140274D
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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

QC Batch: MPRP/9583
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 3563174001, 3563174002

METHOD BLANK: 434353
Matrix: Water
Associated Lab Samples: 3563174001, 3563174002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	5.0U	15.0	07/28/12 17:11	
Arsenic	ug/L	5.0U	10.0	07/28/12 17:11	
Cadmium	ug/L	0.50U	1.0	07/28/12 17:11	
Chromium	ug/L	2.5U	5.0	07/28/12 17:11	
Lead	ug/L	5.0U	10.0	07/28/12 17:11	

LABORATORY CONTROL SAMPLE: 434354

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	250	251	100	80-120	
Arsenic	ug/L	250	238	95	80-120	
Cadmium	ug/L	25	24.6	98	80-120	
Chromium	ug/L	250	249	100	80-120	
Lead	ug/L	250	255	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 434355 434356

Parameter	Units	3563174001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	5.0U	250	250	245	249	98	100	75-125	1	20	
Arsenic	ug/L	5.0U	250	250	235	237	94	95	75-125	.6	20	
Cadmium	ug/L	0.50U	25	25	24.0	24.3	96	97	75-125	1	20	
Chromium	ug/L	2.5U	250	250	246	247	98	98	75-125	.3	20	
Lead	ug/L	5.0U	250	250	248	250	99	99	75-125	.6	20	

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QUALITY CONTROL DATA

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

QC Batch: MSV/6082 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3563174001, 3563174002, 3563174003, 3563174004

METHOD BLANK: 434011 Matrix: Water
Associated Lab Samples: 3563174001, 3563174002, 3563174003, 3563174004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50U	1.0	07/25/12 18:16	
1,1,1-Trichloroethane	ug/L	0.50U	1.0	07/25/12 18:16	
1,1,2,2-Tetrachloroethane	ug/L	0.12U	0.50	07/25/12 18:16	
1,1,2-Trichloroethane	ug/L	0.50U	1.0	07/25/12 18:16	
1,1-Dichloroethane	ug/L	0.50U	1.0	07/25/12 18:16	
1,1-Dichloroethene	ug/L	0.50U	1.0	07/25/12 18:16	
1,2,3-Trichloropropane	ug/L	0.36U	0.50	07/25/12 18:16	
1,2-Dibromo-3-chloropropane	ug/L	1.0U	2.0	07/25/12 18:16	
1,2-Dibromoethane (EDB)	ug/L	0.50U	1.0	07/25/12 18:16	
1,2-Dichlorobenzene	ug/L	0.50U	1.0	07/25/12 18:16	
1,2-Dichloroethane	ug/L	0.50U	1.0	07/25/12 18:16	
1,2-Dichloroethene (Total)	ug/L	0.50U	1.0	07/25/12 18:16	
1,2-Dichloropropane	ug/L	0.50U	1.0	07/25/12 18:16	
1,4-Dichlorobenzene	ug/L	0.50U	1.0	07/25/12 18:16	
2-Butanone (MEK)	ug/L	5.0U	10.0	07/25/12 18:16	
2-Hexanone	ug/L	5.0U	10.0	07/25/12 18:16	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0U	10.0	07/25/12 18:16	
Acetone	ug/L	5.0U	10.0	07/25/12 18:16	
Acetonitrile	ug/L	5.0U	10.0	07/25/12 18:16	
Benzene	ug/L	0.50U	1.0	07/25/12 18:16	
Bromochloromethane	ug/L	0.50U	1.0	07/25/12 18:16	
Bromodichloromethane	ug/L	0.27U	0.60	07/25/12 18:16	
Bromoform	ug/L	0.50U	1.0	07/25/12 18:16	
Bromomethane	ug/L	0.50U	1.0	07/25/12 18:16	
Carbon disulfide	ug/L	5.0U	10.0	07/25/12 18:16	
Carbon tetrachloride	ug/L	0.50U	1.0	07/25/12 18:16	
Chlorobenzene	ug/L	0.50U	1.0	07/25/12 18:16	
Chloroethane	ug/L	0.50U	1.0	07/25/12 18:16	
Chloroform	ug/L	0.50U	1.0	07/25/12 18:16	
Chloromethane	ug/L	0.62U	1.0	07/25/12 18:16	
cis-1,2-Dichloroethene	ug/L	0.50U	1.0	07/25/12 18:16	
cis-1,3-Dichloropropene	ug/L	0.25U	0.50	07/25/12 18:16	
Dibromochloromethane	ug/L	0.26U	0.50	07/25/12 18:16	
Dibromomethane	ug/L	0.50U	1.0	07/25/12 18:16	
Ethylbenzene	ug/L	0.50U	1.0	07/25/12 18:16	
Iodomethane	ug/L	0.50U	1.0	07/25/12 18:16	
m&p-Xylene	ug/L	0.50U	1.0	07/25/12 18:16	
Methyl-tert-butyl ether	ug/L	0.50U	1.0	07/25/12 18:16	
Methylene Chloride	ug/L	2.5U	5.0	07/25/12 18:16	
o-Xylene	ug/L	0.50U	1.0	07/25/12 18:16	
Styrene	ug/L	0.50U	1.0	07/25/12 18:16	
Tetrachloroethene	ug/L	0.50U	1.0	07/25/12 18:16	
Toluene	ug/L	0.50U	1.0	07/25/12 18:16	

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QUALITY CONTROL DATA

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

METHOD BLANK: 434011 Matrix: Water

Associated Lab Samples: 3563174001, 3563174002, 3563174003, 3563174004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	0.50U	1.0	07/25/12 18:16	
trans-1,3-Dichloropropene	ug/L	0.25U	0.50	07/25/12 18:16	
trans-1,4-Dichloro-2-butene	ug/L	5.0U	10.0	07/25/12 18:16	
Trichloroethene	ug/L	0.50U	1.0	07/25/12 18:16	
Trichlorofluoromethane	ug/L	0.50U	1.0	07/25/12 18:16	
Vinyl acetate	ug/L	1.0U	2.0	07/25/12 18:16	
Vinyl chloride	ug/L	0.50U	1.0	07/25/12 18:16	
Xylene (Total)	ug/L	0.58 I	1.0	07/25/12 18:16	
1,2-Dichloroethane-d4 (S)	%	105	86-125	07/25/12 18:16	
4-Bromofluorobenzene (S)	%	92	70-114	07/25/12 18:16	
Dibromofluoromethane (S)	%	99	88-117	07/25/12 18:16	
Toluene-d8 (S)	%	99	87-113	07/25/12 18:16	

LABORATORY CONTROL SAMPLE: 434012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.5	93	70-130	
1,1,1-Trichloroethane	ug/L	20	20.3	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.8	99	70-130	
1,1,2-Trichloroethane	ug/L	20	18.1	90	70-130	
1,1-Dichloroethane	ug/L	20	20.1	100	70-130	
1,1-Dichloroethene	ug/L	20	20.5	102	70-130	
1,2,3-Trichloropropane	ug/L	20	19.4	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.3	87	64-130	
1,2-Dibromoethane (EDB)	ug/L	20	18.9	95	70-130	
1,2-Dichlorobenzene	ug/L	20	16.4	82	70-130	
1,2-Dichloroethane	ug/L	20	19.9	99	70-130	
1,2-Dichloroethene (Total)	ug/L	40	40.1	100	70-130	
1,2-Dichloropropane	ug/L	20	19.5	97	70-130	
1,4-Dichlorobenzene	ug/L	20	18.1	90	70-130	
2-Butanone (MEK)	ug/L	20	21.7	109	55-167	
2-Hexanone	ug/L	20	20.0	100	65-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.7	104	70-130	
Acetone	ug/L	20	24.8	124	40-150	
Acetonitrile	ug/L	200	230	115	63-138	
Benzene	ug/L	20	19.7	98	70-130	
Bromochloromethane	ug/L	20	20.2	101	70-130	
Bromodichloromethane	ug/L	20	20.3	101	70-130	
Bromoform	ug/L	20	15.5	78	68-130	
Bromomethane	ug/L	20	15.0	75	38-179	
Carbon disulfide	ug/L	20	21.5	108	51-155	
Carbon tetrachloride	ug/L	20	19.5	97	70-130	
Chlorobenzene	ug/L	20	19.2	96	70-130	
Chloroethane	ug/L	20	20.9	104	59-149	
Chloroform	ug/L	20	19.3	96	70-130	

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QUALITY CONTROL DATA

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

LABORATORY CONTROL SAMPLE: 434012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	14.8	74	68-130	
cis-1,2-Dichloroethene	ug/L	20	20.0	100	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.9	95	70-130	
Dibromochloromethane	ug/L	20	17.5	87	70-130	
Dibromomethane	ug/L	20	19.3	97	70-130	
Ethylbenzene	ug/L	20	19.6	98	70-130	
Iodomethane	ug/L	20	14.1	70	43-160	
m&p-Xylene	ug/L	40	40.6	102	70-130	
Methyl-tert-butyl ether	ug/L	20	20.1	101	70-130	
Methylene Chloride	ug/L	20	22.0	110	70-130	
o-Xylene	ug/L	20	19.5	98	70-130	
Styrene	ug/L	20	19.1	96	70-130	
Tetrachloroethene	ug/L	20	20.3	102	66-133	
Toluene	ug/L	20	19.9	100	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.2	101	70-130	
trans-1,3-Dichloropropene	ug/L	20	18.4	92	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	20.3	102	65-130	
Trichloroethene	ug/L	20	21.0	105	70-130	
Trichlorofluoromethane	ug/L	20	18.0	90	70-131	
Vinyl acetate	ug/L	20	20.1	101	69-135	
Vinyl chloride	ug/L	20	19.7	98	69-140	
Xylene (Total)	ug/L	60	60.2	100	70-130	
1,2-Dichloroethane-d4 (S)	%			98	86-125	
4-Bromofluorobenzene (S)	%			94	70-114	
Dibromofluoromethane (S)	%			99	88-117	
Toluene-d8 (S)	%			101	87-113	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 434013 434014

Parameter	Units	3563087002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	0.50U	20	20	17.5	18.1	87	90	39-130	3	40	
1,1,1-Trichloroethane	ug/L	0.50U	20	20	19.6	20.8	98	104	47-141	6	40	
1,1,2,2-Tetrachloroethane	ug/L	0.12U	20	20	16.6	18.2	83	91	49-131	9	40	
1,1,2-Trichloroethane	ug/L	0.50U	20	20	16.4	17.1	82	85	50-130	4	40	
1,1-Dichloroethane	ug/L	0.50U	20	20	18.6	19.8	93	99	54-137	6	40	
1,1-Dichloroethene	ug/L	0.50U	20	20	20.8	22.1	104	111	45-155	6	40	
1,2,3-Trichloropropane	ug/L	0.36U	20	20	18.1	27.3	90	136	31-132	41	40	J(D6), J(M1)
1,2-Dibromo-3-chloropropane	ug/L	1.0U	20	20	12.3	15.3	62	76	37-130	21	40	
1,2-Dibromoethane (EDB)	ug/L	0.50U	20	20	17.6	18.0	88	90	51-132	3	40	
1,2-Dichlorobenzene	ug/L	0.50U	20	20	14.8	16.6	74	83	43-130	11	40	
1,2-Dichloroethane	ug/L	0.50U	20	20	18.6	20.1	93	100	54-130	8	40	
1,2-Dichloroethene (Total)	ug/L	0.50U	40	40	35.5	37.6	89	94	50-150	6	40	
1,2-Dichloropropane	ug/L	0.50U	20	20	18.0	19.5	90	97	53-130	8	40	
1,4-Dichlorobenzene	ug/L	0.50U	20	20	16.0	17.8	80	89	38-130	11	40	
2-Butanone (MEK)	ug/L	5.0U	20	20	17.5	20.1	88	100	48-138	14	40	

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QUALITY CONTROL DATA

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 434013 434014

Parameter	Units	3563087002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	5.0U	20	20	17.6	18.9	88	95	38-130	7	40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0U	20	20	17.8	18.2	89	91	28-143	2	40	
Acetone	ug/L	5.0U	20	20	24.4	22.7	122	114	20-140	7	40	
Acetonitrile	ug/L	5.0U	200	200	211	223	106	111	44-138	5	40	
Benzene	ug/L	0.50U	20	20	19.2	19.8	96	99	53-132	3	40	
Bromochloromethane	ug/L	0.50U	20	20	20.2	21.3	101	107	54-132	5	40	
Bromodichloromethane	ug/L	0.27U	20	20	18.4	19.5	92	97	46-130	6	40	
Bromoform	ug/L	0.50U	20	20	14.8	16.2	74	81	32-130	9	40	
Bromomethane	ug/L	0.50U	20	20	9.6	14.9	48	75	20-152	44	40	J(D6)
Carbon disulfide	ug/L	5.0U	20	20	22.8	23.4	114	117	28-184	2	40	
Carbon tetrachloride	ug/L	0.50U	20	20	19.6	20.8	98	104	37-137	6	40	
Chlorobenzene	ug/L	0.50U	20	20	18.3	19.0	92	95	46-130	4	40	
Chloroethane	ug/L	0.50U	20	20	23.1	22.5	115	113	48-159	2	40	
Chloroform	ug/L	0.50U	20	20	20.4	21.2	102	106	51-130	4	40	
Chloromethane	ug/L	0.62U	20	20	13.4	15.4	67	77	39-144	14	40	
cis-1,2-Dichloroethene	ug/L	0.50U	20	20	17.7	18.9	89	95	54-130	7	40	
cis-1,3-Dichloropropene	ug/L	0.25U	20	20	16.0	16.9	80	85	45-130	5	40	
Dibromochloromethane	ug/L	0.26U	20	20	16.0	16.8	80	84	43-130	5	40	
Dibromomethane	ug/L	0.50U	20	20	19.3	20.1	96	100	50-130	4	40	
Ethylbenzene	ug/L	0.50U	20	20	18.5	19.4	92	97	43-130	5	40	
Iodomethane	ug/L	0.50U	20	20	13.3	12.0	67	60	20-169	10	40	
m&p-Xylene	ug/L	0.50U	40	40	37.3	39.3	93	97	40-130	5	40	
Methyl-tert-butyl ether	ug/L	0.50U	20	20	19.7	19.6	98	98	20-150	.2	40	
Methylene Chloride	ug/L	2.5U	20	20	21.2	22.2	106	111	51-135	5	40	
o-Xylene	ug/L	0.50U	20	20	17.5	18.5	87	92	45-130	6	40	
Styrene	ug/L	0.50U	20	20	17.4	18.4	87	92	40-130	6	40	
Tetrachloroethene	ug/L	0.50U	20	20	19.0	19.8	95	99	26-130	4	40	
Toluene	ug/L	0.50U	20	20	19.0	19.5	95	97	50-130	3	40	
trans-1,2-Dichloroethene	ug/L	0.50U	20	20	17.7	18.7	89	93	48-142	5	40	
trans-1,3-Dichloropropene	ug/L	0.25U	20	20	18.0	18.4	90	92	45-130	2	40	
trans-1,4-Dichloro-2-butene	ug/L	5.0U	20	20	14.7	15.8	73	79	20-139	8	40	
Trichloroethene	ug/L	0.50U	20	20	20.5	21.0	102	105	42-133	3	40	
Trichlorofluoromethane	ug/L	0.50U	20	20	21.2	22.0	106	110	46-146	4	40	
Vinyl acetate	ug/L	1.0U	20	20	15.4	15.6	77	78	20-165	1	40	
Vinyl chloride	ug/L	0.50U	20	20	19.1	18.8	96	94	57-142	2	40	
Xylene (Total)	ug/L	0.50U	60	60	54.8	57.7	91	96	42-130	5	40	
1,2-Dichloroethane-d4 (S)	%						112	107	86-125			
4-Bromofluorobenzene (S)	%						101	100	70-114			
Dibromofluoromethane (S)	%						101	101	88-117			
Toluene-d8 (S)	%						102	104	87-113			

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#140274D
Pace Analytical Services, Inc.
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

QC Batch: OEXT/9288
QC Batch Method: EPA 3510
Analysis Method: EPA 8270 by SCAN
Analysis Description: 8270 Water CPAH by SCAN MSSV
Associated Lab Samples: 3563174003, 3563174004

METHOD BLANK: 433610 Matrix: Water
Associated Lab Samples: 3563174003, 3563174004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	0.016U	1.5	07/26/12 05:12	
2-Methylnaphthalene	ug/L	0.013U	1.5	07/26/12 05:12	
Acenaphthene	ug/L	0.019U	1.0	07/26/12 05:12	
Acenaphthylene	ug/L	0.018U	2.0	07/26/12 05:12	
Anthracene	ug/L	0.019U	1.0	07/26/12 05:12	
Benzo(a)anthracene	ug/L	0.013U	0.20	07/26/12 05:12	
Benzo(a)pyrene	ug/L	0.022U	0.20	07/26/12 05:12	
Benzo(b)fluoranthene	ug/L	0.016U	0.10	07/26/12 05:12	
Benzo(g,h,i)perylene	ug/L	0.017U	1.0	07/26/12 05:12	
Benzo(k)fluoranthene	ug/L	0.023U	0.25	07/26/12 05:12	
Chrysene	ug/L	0.015U	1.0	07/26/12 05:12	
Dibenz(a,h)anthracene	ug/L	0.019U	0.20	07/26/12 05:12	
Fluoranthene	ug/L	0.012U	1.0	07/26/12 05:12	
Fluorene	ug/L	0.011U	1.0	07/26/12 05:12	
Indeno(1,2,3-cd)pyrene	ug/L	0.019U	0.15	07/26/12 05:12	
Naphthalene	ug/L	0.028 I	1.0	07/26/12 05:12	
Phenanthrene	ug/L	0.016U	1.0	07/26/12 05:12	
Pyrene	ug/L	0.010U	1.0	07/26/12 05:12	
2-Fluorobiphenyl (S)	%	82	43.9-113	07/26/12 05:12	
Terphenyl-d14 (S)	%	91	24.8-144	07/26/12 05:12	

LABORATORY CONTROL SAMPLE: 433611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	5	4.2	84	21-133	
2-Methylnaphthalene	ug/L	5	4.1	82	21-133	
Acenaphthene	ug/L	5	4.1	82	47-145	
Acenaphthylene	ug/L	5	4.2	84	33-145	
Anthracene	ug/L	5	4.2	84	27-133	
Benzo(a)anthracene	ug/L	5	3.9	77	33-143	
Benzo(a)pyrene	ug/L	5	3.8	75	17-163	
Benzo(b)fluoranthene	ug/L	5	4.1	82	24-159	
Benzo(g,h,i)perylene	ug/L	5	2.5	50	10-219	
Benzo(k)fluoranthene	ug/L	5	4.0	80	11-162	
Chrysene	ug/L	5	4.2	84	17-168	
Dibenz(a,h)anthracene	ug/L	5	2.4	47	10-227	
Fluoranthene	ug/L	5	4.6	92	26-137	
Fluorene	ug/L	5	4.3	86	59-130	
Indeno(1,2,3-cd)pyrene	ug/L	5	3.0	59	10-171	
Naphthalene	ug/L	5	4.0	80	21-133	
Phenanthrene	ug/L	5	4.2	84	54-130	

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QUALITY CONTROL DATA

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

LABORATORY CONTROL SAMPLE: 433611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/L	5	4.7	94	52-130	
2-Fluorobiphenyl (S)	%			80	43.9-113	
Terphenyl-d14 (S)	%			96	24.8-144	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 433612 433613

Parameter	Units	3563174003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	0.016U	9.8	9.8	6.7	7.2	68	73	21-133	7	40	
2-Methylnaphthalene	ug/L	0.013U	9.8	9.8	6.6	7.0	67	71	21-133	6	40	
Acenaphthene	ug/L	0.019U	9.8	9.8	6.8	7.2	69	74	47-145	6	40	
Acenaphthylene	ug/L	0.018U	9.8	9.8	6.8	7.3	69	74	33-145	7	40	
Anthracene	ug/L	0.019U	9.8	9.8	7.5	7.3	77	74	27-133	3	40	
Benzo(a)anthracene	ug/L	0.013U	9.8	9.8	6.3	6.3	64	64	33-143	.9	40	
Benzo(a)pyrene	ug/L	0.022U	9.8	9.8	5.7	6.0	58	61	17-163	5	40	
Benzo(b)fluoranthene	ug/L	0.016U	9.8	9.8	6.6	7.0	68	71	24-159	6	40	
Benzo(g,h,i)perylene	ug/L	0.017U	9.8	9.8	4.9	5.3	50	54	10-219	8	40	
Benzo(k)fluoranthene	ug/L	0.023U	9.8	9.8	5.6	6.0	57	61	11-162	8	40	
Chrysene	ug/L	0.015U	9.8	9.8	6.7	7.0	68	71	17-168	5	40	
Dibenz(a,h)anthracene	ug/L	0.019U	9.8	9.8	4.9	5.2	50	53	10-227	7	40	
Fluoranthene	ug/L	0.012U	9.8	9.8	8.7	8.6	88	88	26-137	.6	40	
Fluorene	ug/L	0.011U	9.8	9.8	7.2	7.5	73	76	59-130	3	40	
Indeno(1,2,3-cd)pyrene	ug/L	0.019U	9.8	9.8	5.1	5.4	51	55	10-171	6	40	
Naphthalene	ug/L	0.015U	9.8	9.8	7.2	7.2	73	73	21-133	.2	40	
Phenanthrene	ug/L	0.016U	9.8	9.8	7.5	7.5	76	77	54-130	.2	40	
Pyrene	ug/L	0.010U	9.8	9.8	8.8	8.9	89	91	52-130	1	40	
2-Fluorobiphenyl (S)	%						66	70	43.9-113			
Terphenyl-d14 (S)	%						72	76	24.8-144			

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QUALITY CONTROL DATA

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

QC Batch: OEXT/9284
QC Batch Method: EPA 3510
Analysis Method: EPA 8270
Analysis Description: 8270 Water MSSV
Associated Lab Samples: 3563174001, 3563174002

METHOD BLANK: 433600
Matrix: Water
Associated Lab Samples: 3563174001, 3563174002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4,5-Tetrachlorobenzene	ug/L	0.70U	5.0	07/26/12 08:03	
1,2,4-Trichlorobenzene	ug/L	0.83U	5.0	07/26/12 08:03	
1,2-Dichlorobenzene	ug/L	0.68U	5.0	07/26/12 08:03	
1,2-Diphenylhydrazine	ug/L	0.66U	5.0	07/26/12 08:03	
1,3,5-Trinitrobenzene	ug/L	1.2U	5.0	07/26/12 08:03	
1,3-Dichlorobenzene	ug/L	0.76U	5.0	07/26/12 08:03	
1,4-Dichlorobenzene	ug/L	0.77U	5.0	07/26/12 08:03	
1-Methylnaphthalene	ug/L	1.0U	5.0	07/26/12 08:03	
2,3,4,6-Tetrachlorophenol	ug/L	3.8U	5.0	07/26/12 08:03	
2,3,5,6-Tetrachlorophenol	ug/L	0.52U	5.0	07/26/12 08:03	N2
2,4,5-Trichlorophenol	ug/L	0.52U	4.0	07/26/12 08:03	
2,4,6-Trichlorophenol	ug/L	0.69U	2.0	07/26/12 08:03	
2,4-Dichlorophenol	ug/L	0.56U	2.0	07/26/12 08:03	
2,4-Dimethylphenol	ug/L	1.6U	5.0	07/26/12 08:03	
2,4-Dinitrophenol	ug/L	1.6U	20.0	07/26/12 08:03	
2,4-Dinitrotoluene	ug/L	0.53U	2.0	07/26/12 08:03	
2,6-Dinitrotoluene	ug/L	1.2U	2.0	07/26/12 08:03	
2-Chloronaphthalene	ug/L	0.80U	5.0	07/26/12 08:03	
2-Chlorophenol	ug/L	0.68U	5.0	07/26/12 08:03	
2-Methylnaphthalene	ug/L	0.99U	5.0	07/26/12 08:03	
2-Methylphenol(o-Cresol)	ug/L	0.73U	5.0	07/26/12 08:03	
2-Nitroaniline	ug/L	0.60U	5.0	07/26/12 08:03	
2-Nitrophenol	ug/L	0.81U	5.0	07/26/12 08:03	
3&4-Methylphenol(m&p Cresol)	ug/L	0.66U	10.0	07/26/12 08:03	
3,3'-Dichlorobenzidine	ug/L	0.69U	10.0	07/26/12 08:03	
3-Nitroaniline	ug/L	0.99U	5.0	07/26/12 08:03	
4,6-Dinitro-2-methylphenol	ug/L	1.3U	20.0	07/26/12 08:03	
4-Bromophenylphenyl ether	ug/L	0.67U	5.0	07/26/12 08:03	
4-Chloro-3-methylphenol	ug/L	0.62U	20.0	07/26/12 08:03	
4-Chloroaniline	ug/L	1.2U	5.0	07/26/12 08:03	
4-Chlorophenylphenyl ether	ug/L	0.63U	5.0	07/26/12 08:03	
4-Nitroaniline	ug/L	0.69U	4.0	07/26/12 08:03	
4-Nitrophenol	ug/L	1.1U	20.0	07/26/12 08:03	
Acenaphthene	ug/L	0.86U	5.0	07/26/12 08:03	
Acenaphthylene	ug/L	0.95U	5.0	07/26/12 08:03	
Acetophenone	ug/L	1.4U	5.0	07/26/12 08:03	
Aniline	ug/L	2.0U	5.0	07/26/12 08:03	
Anthracene	ug/L	0.60U	5.0	07/26/12 08:03	
Atrazine	ug/L	1.3U	5.0	07/26/12 08:03	
Benzaldehyde	ug/L	1.6U	5.0	07/26/12 08:03	N2
Benzidine	ug/L	0.77U	25.0	07/26/12 08:03	
Benzo(a)anthracene	ug/L	0.63U	5.0	07/26/12 08:03	
Benzo(a)pyrene	ug/L	0.58U	1.0	07/26/12 08:03	

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QUALITY CONTROL DATA

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

METHOD BLANK: 433600 Matrix: Water

Associated Lab Samples: 3563174001, 3563174002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzo(b)fluoranthene	ug/L	0.62U	2.0	07/26/12 08:03	
Benzo(g,h,i)perylene	ug/L	0.68U	5.0	07/26/12 08:03	
Benzo(k)fluoranthene	ug/L	0.51U	4.0	07/26/12 08:03	
Biphenyl (Diphenyl)	ug/L	0.80U	5.0	07/26/12 08:03	N2
bis(2-Chloroethoxy)methane	ug/L	3.0U	5.0	07/26/12 08:03	
bis(2-Chloroethyl) ether	ug/L	0.75U	4.0	07/26/12 08:03	
bis(2-Chloroisopropyl) ether	ug/L	0.73U	5.0	07/26/12 08:03	
bis(2-Ethylhexyl)phthalate	ug/L	0.80U	5.0	07/26/12 08:03	
Butylbenzylphthalate	ug/L	0.72U	5.0	07/26/12 08:03	
Caprolactam	ug/L	1.3U	5.0	07/26/12 08:03	N2
Carbazole	ug/L	0.47U	5.0	07/26/12 08:03	N2
Chrysene	ug/L	0.37U	5.0	07/26/12 08:03	
Di-n-butylphthalate	ug/L	0.41U	5.0	07/26/12 08:03	
Di-n-octylphthalate	ug/L	0.90U	5.0	07/26/12 08:03	
Dibenz(a,h)anthracene	ug/L	0.65U	2.0	07/26/12 08:03	
Dibenzofuran	ug/L	0.67U	5.0	07/26/12 08:03	
Diethylphthalate	ug/L	0.59 I	5.0	07/26/12 08:03	
Dimethylphthalate	ug/L	0.64U	5.0	07/26/12 08:03	
Dinoseb	ug/L	0.87U	5.0	07/26/12 08:03	
Fluoranthene	ug/L	0.54U	5.0	07/26/12 08:03	
Fluorene	ug/L	0.56U	5.0	07/26/12 08:03	
Hexachloro-1,3-butadiene	ug/L	1.1U	2.0	07/26/12 08:03	
Hexachlorobenzene	ug/L	0.80U	1.0	07/26/12 08:03	
Hexachlorocyclopentadiene	ug/L	1.3U	5.0	07/26/12 08:03	
Hexachloroethane	ug/L	0.71U	5.0	07/26/12 08:03	
Indeno(1,2,3-cd)pyrene	ug/L	0.73U	2.0	07/26/12 08:03	
Isophorone	ug/L	0.73U	5.0	07/26/12 08:03	
N-Nitroso-di-n-propylamine	ug/L	0.94U	4.0	07/26/12 08:03	
N-Nitrosodimethylamine	ug/L	0.97U	2.0	07/26/12 08:03	
N-Nitrosodiphenylamine	ug/L	0.50U	5.0	07/26/12 08:03	
Naphthalene	ug/L	0.78U	5.0	07/26/12 08:03	
Nitrobenzene	ug/L	1.1U	4.0	07/26/12 08:03	
Pentachlorophenol	ug/L	0.66U	20.0	07/26/12 08:03	
Phenanthrene	ug/L	0.52U	5.0	07/26/12 08:03	
Phenol	ug/L	0.54U	5.0	07/26/12 08:03	
Pyrene	ug/L	0.68U	5.0	07/26/12 08:03	
Pyridine	ug/L	1.5U	5.0	07/26/12 08:03	
2,4,6-Tribromophenol (S)	%	80	10-110	07/26/12 08:03	
2-Fluorobiphenyl (S)	%	69	18-110	07/26/12 08:03	
2-Fluorophenol (S)	%	27	18-110	07/26/12 08:03	
Nitrobenzene-d5 (S)	%	73	10-110	07/26/12 08:03	
Phenol-d6 (S)	%	14	10-110	07/26/12 08:03	
Terphenyl-d14 (S)	%	95	10-123	07/26/12 08:03	

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8 East Tower Circle
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QUALITY CONTROL DATA

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

LABORATORY CONTROL SAMPLE: 433601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4,5-Tetrachlorobenzene	ug/L	50	35.4	71	41.5-98.7	
1,2,4-Trichlorobenzene	ug/L	50	32.2	64	39.9-89.2	
1,2-Dichlorobenzene	ug/L	50	30.3	61	34.6-90.5	
1,2-Diphenylhydrazine	ug/L	50	42.8	86	49.3-114.4	
1,3,5-Trinitrobenzene	ug/L	50	38.2	76	57.6-109.4	
1,3-Dichlorobenzene	ug/L	50	29.3	59	33.5-89.2	
1,4-Dichlorobenzene	ug/L	50	30.2	60	40.1-84.5	
1-Methylnaphthalene	ug/L	50	35.3	71	28.7-112.9	
2,3,4,6-Tetrachlorophenol	ug/L	50	42.5	85	27.1-127.8	
2,3,5,6-Tetrachlorophenol	ug/L	50	43.0	86	14.9-136.7	N2
2,4,5-Trichlorophenol	ug/L	50	40.8	82	51.1-111.7	
2,4,6-Trichlorophenol	ug/L	50	40.3	81	40.6-113.7	
2,4-Dichlorophenol	ug/L	50	35.6	71	46.1-100.4	
2,4-Dimethylphenol	ug/L	50	33.8	68	43-103.2	
2,4-Dinitrophenol	ug/L	50	31.3	63	10-131.1	
2,4-Dinitrotoluene	ug/L	50	42.5	85	62.4-110.1	
2,6-Dinitrotoluene	ug/L	50	41.6	83	61.5-106.3	
2-Chloronaphthalene	ug/L	50	37.1	74	44.4-97.8	
2-Chlorophenol	ug/L	50	27.9	56	36.3-94.9	
2-Methylnaphthalene	ug/L	50	35.1	70	24.4-123.8	
2-Methylphenol(o-Cresol)	ug/L	50	21.6	43	38.1-94.5	
2-Nitroaniline	ug/L	50	43.8	88	60.2-107.2	
2-Nitrophenol	ug/L	50	36.2	72	41.8-100.6	
3&4-Methylphenol(m&p Cresol)	ug/L	50	18.3	37	37.8-93.5	J(L0)
3,3'-Dichlorobenzidine	ug/L	50	44.6	89	35.6-111.3	
3-Nitroaniline	ug/L	50	40.5	81	36.7-122.3	
4,6-Dinitro-2-methylphenol	ug/L	50	41.9	84	18.5-129.6	
4-Bromophenylphenyl ether	ug/L	50	43.0	86	57.6-107.6	
4-Chloro-3-methylphenol	ug/L	50	34.4	69	53.9-107.8	
4-Chloroaniline	ug/L	50	37.0	74	49.5-97.9	
4-Chlorophenylphenyl ether	ug/L	50	40.4	81	55.8-97.6	
4-Nitroaniline	ug/L	50	40.6	81	53.1-109.4	
4-Nitrophenol	ug/L	50	12.3 I	25	10-88.9	
Acenaphthene	ug/L	50	39.2	78	58.1-93.8	
Acenaphthylene	ug/L	50	38.0	76	53.2-99.3	
Acetophenone	ug/L	50	35.8	72	44-100.1	
Aniline	ug/L	50	24.5	49	34-95.1	
Anthracene	ug/L	50	42.9	86	43.9-117.6	
Atrazine	ug/L	50	45.0	90	64.5-120.1	
Benzaldehyde	ug/L	50	47.0	94	10-114.5	N2
Benzidine	ug/L	50	17.6 I	35	10-94.1	
Benzo(a)anthracene	ug/L	50	41.5	83	56.9-102	
Benzo(a)pyrene	ug/L	50	41.1	82	66.5-106.2	
Benzo(b)fluoranthene	ug/L	50	35.3	71	66.5-103.3	
Benzo(g,h,i)perylene	ug/L	50	41.2	82	65.1-108	
Benzo(k)fluoranthene	ug/L	50	45.2	90	64.2-105.2	
Biphenyl (Diphenyl)	ug/L	50	39.2	78	48.8-99.7	N2
bis(2-Chloroethoxy)methane	ug/L	50	37.9	76	45.8-100.7	

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QUALITY CONTROL DATA

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

LABORATORY CONTROL SAMPLE: 433601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Chloroethyl) ether	ug/L	50	34.1	68	38.4-99	
bis(2-Chloroisopropyl) ether	ug/L	50	36.1	72	36.8-95.3	
bis(2-Ethylhexyl)phthalate	ug/L	50	43.7	87	59.1-109.3	
Butylbenzylphthalate	ug/L	50	43.9	88	54.4-107.2	
Caprolactam	ug/L	50	4.8 I	10	10-72	N2
Carbazole	ug/L	50	44.0	88	65.1-107.2	N2
Chrysene	ug/L	50	42.3	85	54.2-103.6	
Di-n-butylphthalate	ug/L	50	44.8	90	66.5-108.2	
Di-n-octylphthalate	ug/L	50	43.6	87	48.4-114	
Dibenz(a,h)anthracene	ug/L	50	41.8	84	60.1-112.6	
Dibenzofuran	ug/L	50	39.6	79	55.1-97.3	
Diethylphthalate	ug/L	50	41.4	83	64.3-105.1	
Dimethylphthalate	ug/L	50	42.3	85	62.5-103.6	
Dinoseb	ug/L	50	39.9	80	41.6-118.5	
Fluoranthene	ug/L	50	44.0	88	52.9-116.1	
Fluorene	ug/L	50	39.6	79	60.3-97.3	
Hexachloro-1,3-butadiene	ug/L	50	30.1	60	34.3-96.9	
Hexachlorobenzene	ug/L	50	42.6	85	55.7-112.1	
Hexachlorocyclopentadiene	ug/L	50	27.1	54	26.4-83.9	
Hexachloroethane	ug/L	50	28.1	56	35-87.6	
Indeno(1,2,3-cd)pyrene	ug/L	50	40.4	81	66.1-107.8	
Isophorone	ug/L	50	38.9	78	44.1-108.3	
N-Nitroso-di-n-propylamine	ug/L	50	37.4	75	12.4-127.6	
N-Nitrosodimethylamine	ug/L	50	10.9	22	11.3-84.9	
N-Nitrosodiphenylamine	ug/L	50	43.0	86	19.3-136.6	
Naphthalene	ug/L	50	33.7	67	30-95.4	
Nitrobenzene	ug/L	50	32.1	64	27.8-109	
Pentachlorophenol	ug/L	50	43.3	87	10-159	
Phenanthrene	ug/L	50	43.8	88	19.9-138.2	
Phenol	ug/L	50	7.0	14	10-74.6	
Pyrene	ug/L	50	42.9	86	18-134.1	
Pyridine	ug/L	50	4.4 I	9	10-75.6	J(L0)
2,4,6-Tribromophenol (S)	%			85	10-110	
2-Fluorobiphenyl (S)	%			75	18-110	
2-Fluorophenol (S)	%			23	18-110	
Nitrobenzene-d5 (S)	%			71	10-110	
Phenol-d6 (S)	%			13	10-110	
Terphenyl-d14 (S)	%			94	10-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 433602 433603

Parameter	Units	3563174001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4,5-Tetrachlorobenzene	ug/L	0.67U	99.2	99.2	63.9	54.0	64	54	41.5-98.	17	40	
1,2,4-Trichlorobenzene	ug/L	0.80U	99.2	99.2	57.6	44.6	58	45	39.9-89.	25	40	
1,2-Dichlorobenzene	ug/L	0.65U	99.2	99.2	54.7	42.6	55	43	34.6-90.	25	40	
1,2-Diphenylhydrazine	ug/L	0.63U	99.2	99.2	76.8	69.6	77	70	49.3-114	10	40	

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Pace Analytical Services, Inc.
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 433602 433603

Parameter	Units	3563174001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,3,5-Trinitrobenzene	ug/L	1.2U	99.2	99.2	69.6	64.9	70	65	57.6-109	7	40	
1,3-Dichlorobenzene	ug/L	0.73U	99.2	99.2	53.4	41.5	54	42	33.5-89.	25	40	
1,4-Dichlorobenzene	ug/L	0.74U	99.2	99.2	54.7	41.8	55	42	40.1-84.	27	40	
1-Methylnaphthalene	ug/L	0.96U	99.2	99.2	62.2	54.4	63	55	28.7-112	13	40	
2,3,4,6-Tetrachlorophenol	ug/L	3.7U	99.2	99.2	70.9	66.0	71	66	27.1-127	7	40	
2,3,5,6-Tetrachlorophenol	ug/L	0.50U	99.2	99.2	74.2	66.6	75	67	14.9-136	11	40	N2
2,4,5-Trichlorophenol	ug/L	0.50U	99.2	99.2	72.0	61.4	73	62	51.1-111	16	40	
2,4,6-Trichlorophenol	ug/L	0.66U	99.2	99.2	68.8	59.5	69	60	40.6-113	15	40	
2,4-Dichlorophenol	ug/L	0.54U	99.2	99.2	66.9	53.5	67	54	46.1-100	22	40	
2,4-Dimethylphenol	ug/L	1.5U	99.2	99.2	64.1	53.6	65	54	43-103.2	18	40	
2,4-Dinitrophenol	ug/L	1.5U	99.2	99.2	93.9	85.8	95	86	10-131.1	9	40	
2,4-Dinitrotoluene	ug/L	0.51U	99.2	99.2	76.0	66.4	77	67	62.4-110	13	40	
2,6-Dinitrotoluene	ug/L	1.2U	99.2	99.2	72.9	64.7	73	65	61.5-106	12	40	
2-Chloronaphthalene	ug/L	0.77U	99.2	99.2	66.4	55.6	67	56	44.4-97.	18	40	
2-Chlorophenol	ug/L	0.65U	99.2	99.2	54.5	45.6	55	46	36.3-94.	18	40	
2-Methylnaphthalene	ug/L	0.95U	99.2	99.2	62.6	53.5	63	54	24.4-123	16	40	
2-Methylphenol(o-Cresol)	ug/L	0.70U	99.2	99.2	51.4	45.3	52	46	38.1-94.	13	40	
2-Nitroaniline	ug/L	0.58U	99.2	99.2	76.7	68.2	77	69	60.2-107	12	40	
2-Nitrophenol	ug/L	0.78U	99.2	99.2	61.6	49.9	62	50	41.8-100	21	40	
3&4-Methylphenol(m&p Cresol)	ug/L	0.63U	99.2	99.2	47.9	42.9	48	43	37.8-93.	11	40	
3,3'-Dichlorobenzidine	ug/L	0.66U	99.2	99.2	72.0	72.3	73	73	35.6-111	.4	40	
3-Nitroaniline	ug/L	0.95U	99.2	99.2	75.9	74.8	77	75	36.7-122	1	40	
4,6-Dinitro-2-methylphenol	ug/L	1.3U	99.2	99.2	79.0	74.0	80	75	18.5-129	7	40	
4-Bromophenylphenyl ether	ug/L	0.64U	99.2	99.2	78.1	67.1	79	68	57.6-107	15	40	
4-Chloro-3-methylphenol	ug/L	0.59U	99.2	99.2	68.8	63.9	69	64	53.9-107	7	40	
4-Chloroaniline	ug/L	1.2U	99.2	99.2	62.3	61.5	63	62	49.5-97.	1	40	
4-Chlorophenylphenyl ether	ug/L	0.60U	99.2	99.2	66.6	60.5	67	61	55.8-97.	10	40	
4-Nitroaniline	ug/L	0.66U	99.2	99.2	71.0	69.1	72	70	53.1-109	3	40	
4-Nitrophenol	ug/L	1.0U	99.2	99.2	38.0 I	36.5 I	38	37	10-88.9		40	
Acenaphthene	ug/L	0.82U	99.2	99.2	66.5	56.5	67	57	58.1-93.	16	40	J(M1)
Acenaphthylene	ug/L	0.91U	99.2	99.2	65.6	56.5	66	57	53.2-99.	15	40	
Acetophenone	ug/L	1.4U	99.2	99.2	60.9	48.1	61	49	44-100.1	23	40	
Aniline	ug/L	1.9U	99.2	99.2	39.5	45.0	40	45	34-95.1	13	40	
Anthracene	ug/L	0.58U	99.2	99.2	75.6	67.5	76	68	43.9-117	11	40	
Atrazine	ug/L	1.3U	99.2	99.2	76.2	73.4	77	74	64.5-120	4	40	
Benzaldehyde	ug/L	1.5U	99.2	99.2	72.0	57.6	73	58	10-114.5	22	40	N2
Benzidine	ug/L	0.74U	99.2	99.2	8.2 I	3.3 I	8	3	10-94.1		40	J(M1)
Benzo(a)anthracene	ug/L	0.60U	99.2	99.2	78.5	72.0	79	73	56.9-102	9	40	
Benzo(a)pyrene	ug/L	0.56U	99.2	99.2	77.5	68.8	78	69	66.5-106	12	40	
Benzo(b)fluoranthene	ug/L	0.59U	99.2	99.2	79.4	61.3	80	62	66.5-103	26	40	J(M1)
Benzo(g,h,i)perylene	ug/L	0.65U	99.2	99.2	74.5	59.5	75	60	65.1-108	22	40	J(M1)
Benzo(k)fluoranthene	ug/L	0.49U	99.2	99.2	69.4	61.3	70	62	64.2-105	12	40	J(M1)
Biphenyl (Diphenyl)	ug/L	0.77U	99.2	99.2	68.9	56.8	69	57	48.8-99.	19	40	N2
bis(2-Chloroethoxy)methane	ug/L	2.8U	99.2	99.2	62.9	50.5	63	51	45.8-100	22	40	
bis(2-Chloroethyl) ether	ug/L	0.72U	99.2	99.2	57.7	46.9	58	47	38.4-99	21	40	
bis(2-Chloroisopropyl) ether	ug/L	0.70U	99.2	99.2	55.1	44.6	56	45	36.8-95.	21	40	

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(386)672-5668

QUALITY CONTROL DATA

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 433602 433603

Parameter	Units	3563174001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
bis(2-Ethylhexyl)phthalate	ug/L	0.77U	99.2	99.2	70.7	76.9	71	77	59.1-109	8	40	
Butylbenzylphthalate	ug/L	0.69U	99.2	99.2	77.7	73.6	78	74	54.4-107	5	40	
Caprolactam	ug/L	1.2U	99.2	99.2	19.3	19.7	19	20	10-72	2	40	N2
Carbazole	ug/L	0.45U	99.2	99.2	80.2	70.5	81	71	65.1-107	13	40	N2
Chrysene	ug/L	0.35U	99.2	99.2	69.7	65.5	70	66	54.2-103	6	40	
Di-n-butylphthalate	ug/L	0.66 I	99.2	99.2	79.6	67.0	80	67	66.5-108	17	40	
Di-n-octylphthalate	ug/L	0.86U	99.2	99.2	77.8	71.9	78	72	48.4-114	8	40	
Dibenz(a,h)anthracene	ug/L	0.62U	99.2	99.2	77.2	58.9	78	59	60.1-112	27	40	J(M1)
Dibenzofuran	ug/L	0.64U	99.2	99.2	68.7	59.4	69	60	55.1-97.	15	40	
Diethylphthalate	ug/L	0.49U	99.2	99.2	66.7	63.4	67	64	64.3-105	5	40	J(M1)
Dimethylphthalate	ug/L	0.61U	99.2	99.2	74.2	64.9	75	65	62.5-103	13	40	
Dinoseb	ug/L	0.83U	99.2	99.2	73.3	67.8	74	68	41.6-118	8	40	
Fluoranthene	ug/L	0.52U	99.2	99.2	82.2	69.5	83	70	52.9-116	17	40	
Fluorene	ug/L	0.54U	99.2	99.2	66.8	59.5	67	60	60.3-97.	12	40	J(M1)
Hexachloro-1,3-butadiene	ug/L	1.0U	99.2	99.2	56.7	42.6	57	43	34.3-96.	28	40	
Hexachlorobenzene	ug/L	0.77U	99.2	99.2	75.5	67.7	76	68	55.7-112	11	40	
Hexachlorocyclopentadiene	ug/L	1.2U	99.2	99.2	44.0	36.0	44	36	26.4-83.	20	40	
Hexachloroethane	ug/L	0.68U	99.2	99.2	50.8	41.3	51	42	35-87.6	21	40	
Indeno(1,2,3-cd)pyrene	ug/L	0.70U	99.2	99.2	71.1	55.8	72	56	66.1-107	24	40	J(M1)
Isophorone	ug/L	0.70U	99.2	99.2	65.1	53.1	66	53	44.1-108	20	40	
N-Nitroso-di-n-propylamine	ug/L	0.90U	99.2	99.2	60.6	51.4	61	52	12.4-127	16	40	
N-Nitrosodimethylamine	ug/L	0.93U	99.2	99.2	39.1	35.8	39	36	11.3-84.	9	40	
N-Nitrosodiphenylamine	ug/L	0.48U	99.2	99.2	76.1	69.6	77	70	19.3-136	9	40	
Naphthalene	ug/L	0.75U	99.2	99.2	59.7	47.7	60	48	30-95.4	22	40	
Nitrobenzene	ug/L	1.0U	99.2	99.2	58.6	47.5	59	48	27.8-109	21	40	
Pentachlorophenol	ug/L	0.63U	99.2	99.2	80.6	73.5	81	74	10-159	9	40	
Phenanthrene	ug/L	0.50U	99.2	99.2	74.6	67.6	75	68	19.9-138	10	40	
Phenol	ug/L	0.52U	99.2	99.2	26.1	21.8	26	22	10-74.6	18	40	
Pyrene	ug/L	0.65U	99.2	99.2	72.1	72.5	73	73	18-134.1	.5	40	
Pyridine	ug/L	1.4U	99.2	99.2	6.1 I	10.2	6	10	10-75.6		40	J(M0)
2,4,6-Tribromophenol (S)	%						70	66	10-110			
2-Fluorobiphenyl (S)	%						65	55	18-110			
2-Fluorophenol (S)	%						33	29	18-110			
Nitrobenzene-d5 (S)	%						60	47	10-110			
Phenol-d6 (S)	%						24	21	10-110			
Terphenyl-d14 (S)	%						79	86	10-123			

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Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

QC Batch: OEXT/9287 Analysis Method: FL-PRO
QC Batch Method: EPA 3510 Analysis Description: FL-PRO Water
Associated Lab Samples: 3563174001, 3563174002, 3563174003, 3563174004

METHOD BLANK: 433608 Matrix: Water
Associated Lab Samples: 3563174001, 3563174002, 3563174003, 3563174004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Petroleum Range Organics	mg/L	0.059U	0.10	07/26/12 18:49	
N-Pentatriacontane (S)	%	100	42-159	07/26/12 18:49	
o-Terphenyl (S)	%	108	82-142	07/26/12 18:49	

LABORATORY CONTROL SAMPLE: 433609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Petroleum Range Organics	mg/L	5	5.2	105	55-118	
N-Pentatriacontane (S)	%			110	42-159	
o-Terphenyl (S)	%			115	82-142	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 433614 433615

Parameter	Units	3563174001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Petroleum Range Organics	mg/L	0.058U	9.8	9.8	9.2	9.8	93	100	55-118	7	20	
N-Pentatriacontane (S)	%						91	100	42-159			
o-Terphenyl (S)	%						101	108	82-142			

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QUALIFIERS

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J(D6)	Estimated Value. The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
J(L0)	Estimated Value. Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
J(L2)	Estimated Value. Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
J(M0)	Estimated Value. Matrix spike recovery was outside laboratory control limits.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: City of Gainesville Army Prese
Pace Project No.: 3563174

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3563174001	**OSW-3**	EPA 3510	OEXT/9287	FL-PRO	GCSV/6489
3563174002	**OSW-1**	EPA 3510	OEXT/9287	FL-PRO	GCSV/6489
3563174003	**HO-1**	EPA 3510	OEXT/9287	FL-PRO	GCSV/6489
3563174004	**HO-4**	EPA 3510	OEXT/9287	FL-PRO	GCSV/6489
3563174001	**OSW-3**	EPA 3010	MPRP/9583	EPA 6010	ICP/6284
3563174002	**OSW-1**	EPA 3010	MPRP/9583	EPA 6010	ICP/6284
3563174003	**HO-1**	EPA 3510	OEXT/9288	EPA 8270 by SCAN	MSSV/3584
3563174004	**HO-4**	EPA 3510	OEXT/9288	EPA 8270 by SCAN	MSSV/3584
3563174001	**OSW-3**	EPA 3510	OEXT/9284	EPA 8270	MSSV/3587
3563174002	**OSW-1**	EPA 3510	OEXT/9284	EPA 8270	MSSV/3587
3563174001	**OSW-3**	EPA 8260	MSV/6082		
3563174002	**OSW-1**	EPA 8260	MSV/6082		
3563174003	**HO-1**	EPA 8260	MSV/6082		
3563174004	**HO-4**	EPA 8260	MSV/6082		

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WO#: 3563174

3563174

/ Analytical Request Document

UMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1649625

Section A
Required Client Information:

Company: Water & Air Research, Inc	Report To: Simon Cordery	Attention: Teresa Collins
Address: 6821 SW Arche RD	Copy To: Tammie Gardner	Company Name: Water & Air
Gainesville, FL 32608		Address:
Email To: scordery@waterandair.com	Purchase Order No.:	Pace Quote Reference:
Phone: 352-372-1500 Fax: 352-372-1900	Project Name: City of Gainesville Army Reserve	Pace Project Manager:
Requested Due Date/TAT:	Project Number: Phase II ESA	Pace Profile #:

Invoice Information:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER ______
Site Location STATE: ______

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	8260: Priority Pollutant VOA	8260: BTEX+MTBE	8270: Priority Pollutant Organics	8310: PAHs	FL-Pro: TRPHs	~~FL-Pro~~ PCBs*	6010: As, Cd, Cr, Pb	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	OSW-3	WT	G	7/23/12	943				9		X	X	X						X		X		X	X	X		
2	OSW-1	WT	G	7/23/12	1042				9		X	X	X						X		X		X	X	X		
3	HO-1	WT	G	7/23/12	1140				7		X		X							X		X	X				
4	HO-4	WT	G	7/23/12	1232				7		X		X							X		X	X				
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

*Hold PCBs Call Simon Cordery prior to running PCBs.

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
~~SAMPLING KIT-EMPTY~~	[signature]	7/19/12		[signature]	7/20/12	800				
Hold PCBs	[signature]	7/23/12	1415	[signature]	7/24/12	10:55	2.0	Y		
							T113			

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Katy Smith
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7/23/12

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

#140274D

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

CHAIN-OF-CUSTODY / Analytical Request Document

Pace Analytical
www.pacelabs.com

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1649625

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Water & Air Research, Inc	Report To: Simon Cordery	Attention: Teresa Collins
Address: 6821 SW Archer RD	Copy To: Tammie Gardner	Company Name: Water & Air
Gainesville, FL 32608		Address:
Email To: scordery@waterandair.com	Purchase Order No.:	Pace Quote Reference:
Phone: 352-372-1580 Fax: 352-372-1800	Project Name: City of Gainesville Army Reserve	Pace Project Manager:
Requested Due Date/TAT:	Project Number: Phase II ESA	Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	8260: Priority Pollutants MA	8260: BTEX MBE	8270: Priority Pollutant Organics	8310: PAHs	FLPro: TRPHs	Filtered PCBs*	6010: As, Cd, Cr, Pb	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	OSW-3		WT	G	7/23/12	945				9		X	X	X					X	X		X		X	X	X		
2	OSW-1		WT	G	7/23/12	1042				9		X	X	X					X	X		X		X	X	X		
3	HO-1		WT	G	7/23/12	1140				7		X		X						X		X		X	X			
4	HO-4		WT	G	7/23/12	1252				7		X		X						X		X		X	X			
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

* Hold PCBs Call Simon Cordery prior to running PCBs.

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	D S	7/23/12		K Ford	7/26/12	800	
Hold PCBs	K Ford	7/23/12	1415	D S	7/24/12	10:55	2.0 4
							T113 1

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Katy Smith

SIGNATURE of SAMPLER: K Ford DATE Signed (MM/DD/YY): 7/23/12

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

#1402744

2

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: September 23, 2011
	Document No.: F-FL-C-007 rev. 04	Issuing Authorities: Pace Florida Quality Office

#140274D

Sample Condition Upon Receipt Form (SCUR)

Table Number: _____

Client Name: WATAR Project # 3563174

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking # 8009 5362 8558

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals Intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used T113 Type of Ice: (Wet) Blue None

Cooler Temperature °C 2.0 (Visual) 0 (Correction Factor) 2.0 (Actual)

Date and initials of person examining contents: 9-24-12 L

(Temp should be above freezing to 6°C). If below 0°C, then was sample frozen? ☐Yes ☐No

Receipt of samples satisfactory: ☐Yes ☐No **Rush TAT requested on COC:**

If yes, then all conditions below were met:	If no, then mark box & describe issue (use comments area if necessary):
Chain of Custody Present	☐
Chain of Custody Filled Out	☐
Relinquished Signature & Sampler Name COC	☐
Samples Arrived within Hold Time	☐
Sufficient Volume	☐
Correct Containers Used	☐
Containers Intact	☐
Sample Labels match COC (sample IDs & date/time of collection)	☐ No Labels: ☐ No Time/Date on Labels: ☐
All containers needing preservation are found to be in compliance with EPA recommendation.	☐
No Headspace in VOA Vials (>6mm):	☐

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments): _____

Project Manager Review: _____ **Date:** _____

Finished Product Information Only

F.P. Sample ID: _____

Production Code: _____

Date/Time Opened: _____

Number of Unopened Bottles Remaining: _____

Extra Sample in Shed: Yes No

Size & Qty of Bottles Received

_____ x 5 Gal
_____ x 2.5 Gal
_____ x 1 Gal
_____ x 1 Liter
_____ x 500 mL
_____ x 250 mL
_____ x Other: _____

#140274D

Environmental Engineers, Scientists, & Planners

water & air RESEARCH, INC.

September 26, 2012

Sam Bridges
Land Rights Coordinator
City of Gainesville
PO Box 490
Gainesville, FL 32602

Re: Soil and Groundwater Testing Report for Layton Army Reserve Center
1125 NE 8th Avenue
Gainesville, Florida
Project No. 12-5373-04

Dear Mr. Bridges:

Water & Air Research, Inc. (Water & Air) is pleased to present this Limited Environmental Site Assessment Phase II Report summarizing results and findings of recent soil and groundwater testing completed at the Layton Army Reserve Center (LARC) site. The reported property uses included storage of fuels and maintaining an oil/water separator.

1 SITE BACKGROUND

Based on documentation provided by The City of Gainesville (The City) and forwarded by the Army Reserve, the site was developed in the early 1950s as an Army Reserve base. Site operations included training of personnel, storage of equipment, vehicles, chemicals, and fuels. The facility maintained several underground storage tanks (USTs) and aboveground storage tanks (ASTs), operated an oil/water separator, and reportedly had some minor leaks and spills during operations. The documentation showed closure activities, including testing, were completed to show if any impacts such as a spill or leak had occurred for all potential impact areas, except for two areas.

An UST was discovered during the decommissioning of the oil/water separator. The tank was removed, and soil samples were screened for petroleum vapors. The screening showed that no contaminants had leaked from the tank; however, no groundwater sample had been collected, and no samples were taken down gradient from the former UST and oil water separator system.

A former heating oil AST was in use for the property on the south side of the structure. The tank had been removed, but no soil or shallow groundwater testing was found.

The following work scope was completed in the two areas identified with potential recognized environmental concerns (RECs).

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2 PHASE II ENVIRONMENTAL SITE ASSESSMENT ACTIVITIES

Soil and groundwater testing was completed at the LARC site to determine if impacts from the former oil/water separator system and the former fuel oil tank used at the property had occurred.

The site assessment work scope included:

- Completing nine soil borings into the water table or refusal,
- collecting soil samples for field testing using an organic vapor meter (OVM),
- analyzing select soil samples for laboratory testing, and
- collecting groundwater samples for analytical laboratory testing.

2.1 Soil Sampling, Field Testing, and Analytical Methods

On July 20, 2012, Water & Air completed nine soil borings at depths ranging between six and 13 feet below land surface (bls). Soil samples were collected in accordance with Florida Department of Environmental Protection (FDEP) Standard Operating Procedures (SOPs). Soil borings OSW-1 through OSW-4 were completed around the former oil/water separator system. Soil borings HO-1 through HO-5 were completed around the former aboveground heating oil tank pad.

Soil borings were advanced using a hand auger. Soil samples were collected at two-foot vertical intervals for field screening with an OVM equipped photo ionization detector (PID). The PID was calibrated in the field according to manufacturer specifications. Soil samples for OVM field screening were collected above the water table. The water table was encountered at approximately 8.5 to 10 feet bls.

Soil samples for laboratory analysis were collected from the sample interval with the highest recorded reading on the OVM or in the location most likely to have contamination.

None of the soil samples collected registered readings above background levels on the OVM. The soil sample from the area of the oil/water separator (OSW-3-8 was collected above the water table from the boring located in the center of the former UST.

The former heating oil AST location was identified on a map forwarded by The City. The soil sample from the heating oil AST was taken above the water table from the boring located in the expected down gradient south end of the former tank pad.

Soil boring locations OSW-1 through OSW-4 and HO-1 through HO-5 are shown on Figure 1.

Soil sample OSW-3-8 (boring 3 at eight feet bls) was analyzed by EPA Method 8260 (full list) for volatile organic aromatics (VOAs), EPA Method 8270 for semi-volatile organic carbons, FL-PRO for TRPH (total recoverable petroleum hydrocarbons), and EPA Method 6010 for arsenic, cadmium, chromium, and lead.

Soil sample HO-1-8 (boring 1 at eight feet bls) was analyzed for EPA Method 8260 for VOAs, EPA Method 8270 for semi volatile organic carbons, and FL-PRO for TRPH. The field notes, instrument calibration log, and boring logs are provided in Appendix A.

Soil borings OSW-1, OSW-3, HO-1, and HO-4 were further advanced into the water table to depths between 13 and 13.5 feet bls. Temporary monitoring wells were constructed using ten feet of two-inch diameter PVC screens (0.01-inch slot size) attached to 2-inch diameter PVC riser pipe extending to the surface. A 20/30 filter sand pack was placed in the annular space between the borehole and the well screen. The wells were developed using a peristaltic pump until clear.

2.2 Groundwater Sampling and Analytical Methods

On July 23, 2012, groundwater samples were collected from the four temporary monitoring wells. The oil water separator UST wells (OSW-1 and OSW-3) groundwater samples were analyzed by EPA Method 8260, EPA Method 8270, FL-PRO, and EPA Method 6010. The heating oil AST wells (HO-1 and HO-4) groundwater samples were analyzed by EPA Methods, 8270 and FL-PRO. The field notes, instrument calibration log, and groundwater sampling logs are provided in Appendix A.

3.0 SITE ASSESSMENT RESULTS AND FINDINGS

The following section summarizes the results and findings of the additional site assessment technical activities.

3.1 Soil Testing Results and Findings

Soil testing OVM results did not record any reading above background levels.

Soil analytical results from borings installed at the former oil water separator UST OSW-3-8, and heating oil AST HO-1-8 did not identify any parameters above the laboratory practical quantitation limits or the soil cleanup target levels (SCTLs) list in Florida Administrative Code (FAC) 62-777.

The soil analytical laboratory report and chain-of-custody form are provided in Appendix B.

3.2 Groundwater Results and Findings

Groundwater analytical results from oil water separator UST OSW-1, OSW-3, and the heating oil AST HO-1 and HO-4 were reported below the laboratory practical quantitation limits and the groundwater cleanup target levels (GCTLs) set forth in FAC 62-777for the parameters analyzed.

The groundwater analytical laboratory report and chain-of-custody form are provided in Appendix C.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the testing results of soil and groundwater in the REC areas of the former oil/water separator and the former fuel oil AST, no adverse impacts from these two areas were identified.

If you have any questions or need additional information, please contact myself or Simon Cordery.

Sincerely,
Water & air Research, Inc.

Simon Cordery
Scientist II

Attachments:

Figures:
1 Site Layout Showing Soil Boring Locations

Appendices:
A Field Notes, Instrument Calibration Logs, Boring Logs, and Groundwater Sampling Logs
B Soil Laboratory Analytical Report and Chain-of-Custody
C Groundwater Analytical Laboratory Report and Chain-of-Custody

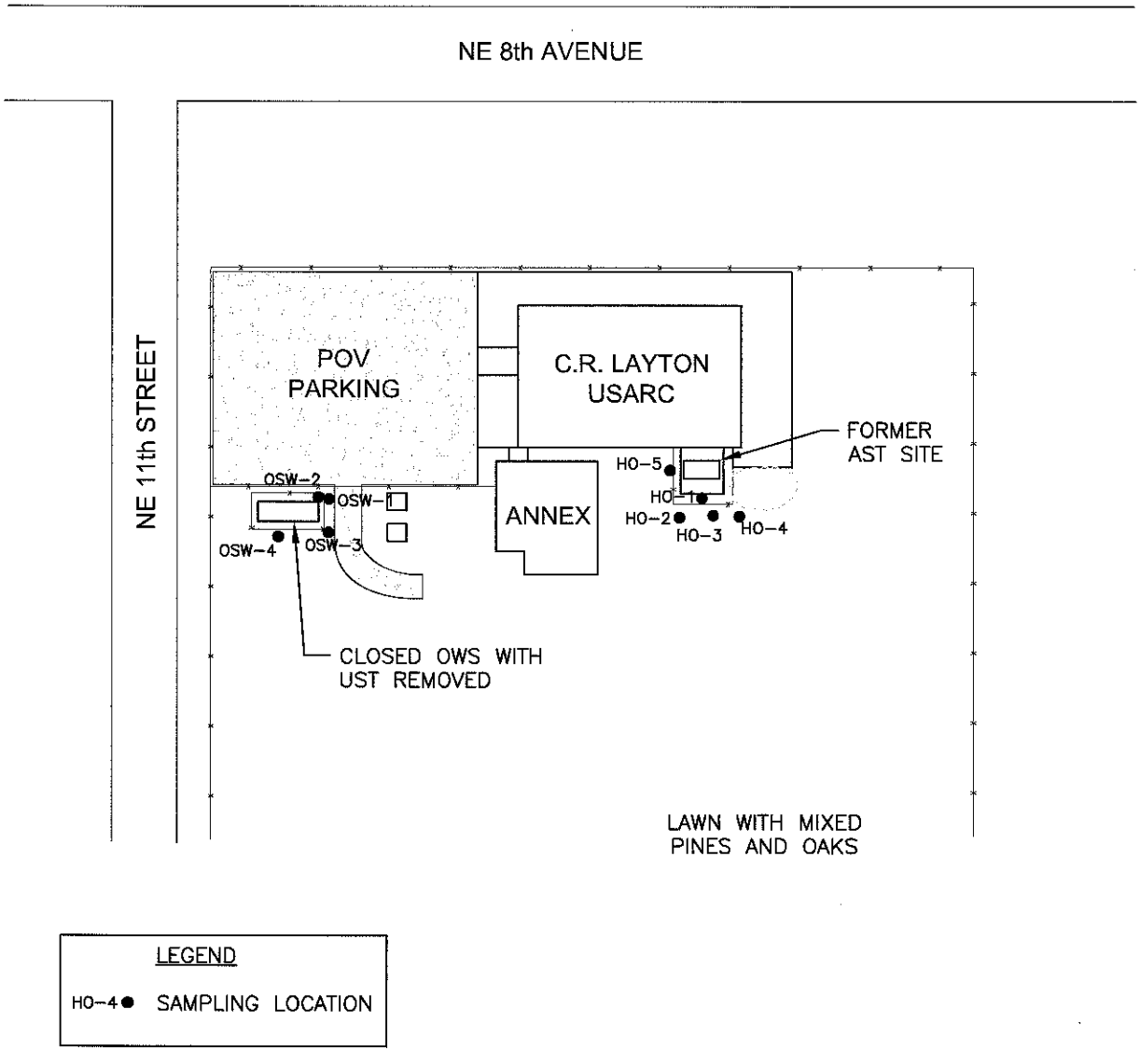

FIGURE 1.
SITE LAYOUT SHOWING SAMPLING LOCATIONS
C.R. LAYTON USARC
GAINESVILLE, FLORIDA

Source: Water & Air Research, Inc., 2012.

water & air RESEARCH, INC.

J:\5373 City of Gainesville\SAC\12-5373-04-CoG Reserve Phase II\DWG\12-5373-04 BASE MAP.dwg, F01, 9/26/2012 4:19:12 PM, mcheaney

#140274D

Environmental Engineers, Scientists, & Planners

water & air RESEARCH, INC.

The City of Gainesville/ Army Reserve Center Evaluation

Sampling & Analysis

This sampling was based on a request from Sam Bridges of The City of Gainesville Public Works (The City). The request was based on the possible reverting back to The City of the Army Reserve Center at 1125 NE 8th Avenue in Gainesville, Florida. Water & Air Research (Water & Air) conducted limited Phase II sampling of the property on behalf of The City including air testing, before formally taking ownership of the property and any on-site conditions. The request for air sampling is based on former conditions documented during the operational history of the facility since the early 1950s. Mold sampling was conducted and the presence confirmed in the 1990s. Cooled air from the office was mixing with the warm, moist air of the central bay of the facility causing condensation and eventually mold. The mold was addressed and air conditioning units for the central area were installed.

None of the air conditioning or fan units were in operation at the time of the Water & Air sampling and had been off for approximately one week. The doors segregating the offices from the central area were open upon arrival for sampling. The weather was in the low 90s, humid with occasional light rain. Humidity in the sample areas varied from between 76% and 93%

On July 19, 2012, Water & Air took eight (8) air samples from the first, second, and sub-first floor areas. A ninth sample was taken as a background sample and was collected outside approximately 75 feet from structure and away from any vegetation. Air samples were collected from random varied areas and in specific areas when conditions indicated the potential for mold spore proliferation. Air samples were taken using an Air-O-Cell Sampler to collect airborne particulates for analysis by Optical Microscopy. The samples were collected by using a vacuum to draw air through the Air-O-Cell. The vacuum is operated at a specific rate so the volume of air can be determined. This test ran for 10 minute per sample at a flow rate of 15 liters per minute. The samples were sent to EMSL Analytical laboratories in Orlando Florida for analysis. The particles were analyzed by spore type and count to determine if a mold problem exists based on calculated averages for buildings in Florida and an outdoor background sample. This type of test does not determine species.

There were no obvious signs of mold other than on some vent registers on the second floor and on duct work where insulation had fallen off. Some rust was observed on the door casing of Room 209 on the second floor which was assumed to be from moisture from the air conditioning system air encountering warmer air outside the door.

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Results

Air Samples

Below are the types or counts from each sample that differed from the background sample.

Location	Air Samples Species	CFUs/M^3
Layton Army Reserve Center:		
AR 104A:	**none**	
AR 209:		
	*Alternaria**	*21*
AR 104:		
	*Aspergillus/Penicillium***	*686*
AR 212:		
	*Aspergillus/Penicillium***	*125*
	Cladosporium	*21*
	Torula	*7*
AR range:		
	*Basidiospore***	*478*
	*Chaetomium**	*21*
	*Cladosporium**	*146*
	*Pithomyces**	*21*
AR 100:		
	*Aspergillus/Penicillium***	*62*
	*Basidiospores***	*104*
AR 217:		
	*Alternaria**	*21*
	*Stachyybotrys**	*21*

AR 117:

*Alternaria**		*7*
*Aspergillus/Penicillium***		*21*
*Basidiospores***		*145*
*Cladosporium**	*42*	
*Epicoccum**		*21*
*Pithomyces**		*21*

** indicates this spore type was not seen in the background sample. Count indicated.*
*** indicates the count of this type of spore exceeded the background and by how much.*

Most all of the fungi present in this study can serve as allergens if they build up in high populations. The threshold level of allergy patients is variable, and exceptionally high numbers of spores may induce allergic responses even in healthy individuals. A large number of fungi, however, may become opportunistic pathogens if a person's immune system is compromised or if there are persistent inflamed areas on which these fungi may encroach as a secondary invader.

The above count does not include pollen which was identified in low amounts in some indoor samples. Pollen is not unusual at this time of year however, it was unusual not to see any in the outdoor background sample.

Conclusions

The array of spore types identified and quantified in most of the rooms are similar to those identified in the outdoor air sample. This information indicates the air in the interior of the building is impacted by outdoor air intrusion. Also, there are spore types not seen in the background sample or in higher numbers than the background sample indicating possible mold colonies with their attendant moisture sources.

There are no government issued numerical standards for mold interpretation. However, some environmental companies, industrial hygienists, and other indoor air quality professionals use the following arbitrary numbers for guidance in interpreting spore survey results:

< 250 spores per cubic meter Low/Normal
250 to 1000 spores per cubic meter Moderate/Borderline
> 1000 spores per cubic meter Active sporulation
> 5000 spores per cubic meter Very active sporulation

Applying this guidance, there may be active sporulation in Rooms 104 and the old gun range.

As we compare the above data with those recorded from the interior areas at the facility taken on July 19, 2012, spore counts and types at this site are slightly higher than the expected range for a public building even considering the mixing of the air with the outside.

A building is not a sterile environment, nor should it be. In fact, a building is frequently a reservoir for microorganisms. While many different types of microorganisms occupy indoor spaces, it is well-recognized that fungi can colonize and grow on a variety of building materials if sufficient nutrients and moisture are present. These contaminated materials are known to be important indoor reservoirs.

The following table provides information on common environmental fungi that have been isolated from wetted wallboard:

Organism	Materials That Support Growth
Acremonium spp.	Colonizes damp wallboard
Alternaria spp.	Grows indoors on a variety of substrates
Aspergillus spp.	Colonizes damp wallboard
Chaetomium spp.	Commonly found on damp wallboard paper
Cladosporium spp.	Colonizes continuously damp wallboard
Epicoccum spp.	Colonizes continuously damp wallboard
Fusarium spp.	Colonizes continuously damp wallboard
Penicillium spp.	Commonly found on damp wallpaper
Stachybotrys spp.	Colonizes continuously damp wallboard
Trichoderma spp.	Grows well on damp wallboard paper

At the City Army Reserve building, *Alternaria, Aspergillus/Penicillium, Chaetomium, Cladosporium, Epicoccum,* and *Stachybotrys* were found. However, only *Aspergillus/Penicillium* and *Cladosporium* were more than 100 spores per cubic meter of air. The count of *Aspergillus/Penicillium* is combined because there are no distinguishing features that would allow a separate count of each genus. Many *Penicillium* species are not associated with water damage.

Using the outside air quality as a guide, we find a high level of Ascospores (primarily plant pathogens that rarely grow inside). *Aspergillus/Penicillium* inside the building is generally higher than expected from only dilution of outside air. This is commonly caused by colonies of *Penicillium* associated with food waste, but cannot be verified in this case without performing other tests.

Cladosporium levels over 100 spores per cubic meter of air are found only in three rooms. Its ability to get airborne makes it an important fungal allergen.

The presence of *Stachybotrys* in two of the rooms is important because it is difficult to make its spores airborne and studies to date suggest it produces mycotoxins under certain environmental conditions. Caution should be taken when dealing with this fungus because exposure to the toxins can occur through inhalation, ingestion, or skin exposure.

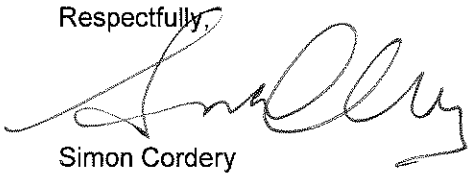
Remediation

Based on the results of this sampling and observations made during the site visit, Water & Air recommends turning the air conditioning system back on to lower both the moisture in the air and the temperature. Also, clean any obvious areas of mold, such as the vents, and replace any insulation that had fallen off of the duct system. An inspection of the facility for water damage or water intrusion to prevent fungal growth is recommended.

Water & Air has used DUCTZ Indoor Air Professionals for local cleaning of duct work and mold-impacted surfaces.

Based on the analytical results, addressing the above conditions should occur before any regular inhabiting of the structure.

Respectfully,



Simon Cordery

Environmental Scientist II

Water & Air Research, Inc.

September 25, 2012