Columbia Analytical Services
9143 Philips Highway, Jacksonville, FL 32256 | 904-739-2277 | www.caslab.com

January 13, 2012 Service Request No: J1200027

Kirk Wills
Waste Services of Florida, Inc.
11500 43rd Street North
Clearwater, FL 33762

Laboratory Results for: JED SWDF

Dear Kirk,

Enclosed are the results of the sample(s) submitted to our laboratory January 04, 2012
For your reference, these analyses have been assigned our service request number **J1200027.**

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. If required, the laboratory can provide uncertainty measurements for each method employed in sample analysis; this uncertainty measurement would be generated using method validation studies and the laboratory's quality control data.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at CMyers@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Craig Myers
Project Manager

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Florida Department of Health	E82502	6/30/2012
Virginia Environmental Accreditation Program	460191	12/14/2012
Louisiana Department of Environmental Quality	02086	6/30/2012
Kentucky Division of Waste Management	63	7/5/2013
South Carolina Department of Health and Environmental Control	96021001	6/30/2012
Texas Commision on Environmental Quality	T104704197-09-TX	5/31/2012
Maine Department of Health and Human Services	2011006	2/3/2013
Department of Defense	66206	5/11/2012
Pennsylvania Department of Environmental Protection	68-04835	7/31/2012
New Jersey Department of Environmental Protection	FL019	6/30/2012

Data Qualifiers

Florida-DEP

!	Data deviates from historically established concentration ranges
*	Not reported due to interference
?	Data is rejected and should not be used
A	Value reported is the arithmetic mean of two or more determininations
B	Results based upon colony counts outside the acceptable range.
D	Measurement was made in the field.
E	Extra samples were taken at composite stations
H	Value based on field kit determination; results may not be accurate.
I	The reported value is between the laboratory method detection limit and the laboratory PQL.
J	Estimated value.
K	Off scale low. The value is less than the lowest calibration standard.
L	Off scale high. The analyte is above the acceptable level of quantitation.
M	The MDL/MRL has been elevated because the analyte could not be accurately quantified.
N	Presumptive evidence of presence of material.
O	Sampled, but analysis lost or not performed
Q	Sample held beyond the acceptable holding time.
R	Significant rain in the past 48 hours (typically in excess of 0.5 inches)
T	Estimated value, less than the MDL
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
X	Insufficient individuals were present in the sample to achieve a minimum of 280 organisms for identification (Stream Condition Index Analysis only)
Y	The laboratory analysis was from an unpreserved or improperly preserved sample.
Z	Too many colonies were present, the numeric value represents the filtration volume

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Waste Services of Florida, Inc. **Service Request:** J1200027
Project: JED SWDF

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J1200027-001	MW-1A	1/3/2012	0840

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1200027
Project:	JED SWDF	**Date Collected:**	01/03/12 08:40
Sample Matrix:	Water	**Date Received:**	01/04/12 10:10
Sample Name:	MW-1A	**Units:**	ug/L
Lab Code:	J1200027-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
m,p-Xylenes	**7.43**	2.00	0.310	1	01/11/12 17:06	
o-Xylene	**2.81**	1.00	0.140	1	01/11/12 17:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	99	68 - 118	01/11/12 17:06	
4-Bromofluorobenzene	104	78 - 129	01/11/12 17:06	
Dibromofluoromethane	102	80 - 114	01/11/12 17:06	
Toluene-d8	102	87 - 118	01/11/12 17:06	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1200027
Project:	JED SWDF	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JQ1200176-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
m,p-Xylenes	0.310	U	2.00	0.310	1	01/11/12 12:07	
o-Xylene	0.140	U	1.00	0.140	1	01/11/12 12:07	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	100	68 - 118	01/11/12 12:07	
4-Bromofluorobenzene	104	78 - 129	01/11/12 12:07	
Dibromofluoromethane	101	80 - 114	01/11/12 12:07	
Toluene-d8	100	87 - 118	01/11/12 12:07	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Waste Services of Florida, Inc. **Service Request:** J1200027

Project: JED SWDF

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Sample Name	Lab Code	1,2-Dichloroethane-d4 68 - 118	4-Bromofluorobenzene 78 - 129	Dibromofluoromethane 80 - 114
MW-1A	J1200027-001	99	104	102
Lab Control Sample	JQ1200176-03	100	98	104
Method Blank	JQ1200176-04	100	104	101

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Waste Services of Florida, Inc. **Service Request:** J1200027

Project: JED SWDF

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Sample Name	Lab Code	Toluene-d8 87 - 118
MW-1A	J1200027-001	102
Lab Control Sample	JQ1200176-03	98
Method Blank	JQ1200176-04	100

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Waste Services of Florida, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1200027
Date Analyzed: 01/11/12

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Units: ug/L
Basis: NA
Analysis Lot: 275981

Lab Control Sample
JQ1200176-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
m,p-Xylenes	36.1	40.0	90	82-125
o-Xylene	19.2	20.0	96	82-122

Columbia Analytical Services™

Cooler Receipt Form

Client: WSI Service Request #: J1200027

Project: JED SWDF

Cooler received on 1-4-12 and opened on 1-4-12 by SL

COURIER: CAS (UPS) FEDEX Client Other _____ Airbill # 12X5W09822100044425

1	Were custody seals on outside of cooler?	(Yes)	No					
	If yes, how many and where?	#1	on (lid)	other				
2	Were seals intact and signature and date correct?	(Yes)	No	N/A				
3	Were custody papers properly filled out?	(Yes)	No	N/A				
4	Temperature of cooler(s) upon receipt (Should be > 0°C and < 6°C)	0.3						
5	Thermometer ID	T1						
6	Temperature Blank Present?	(Yes)	No					
7	Were Ice or Ice Packs present	(Ice)	Ice Packs	No				
8	Did all bottles arrive in good condition (unbroken, etc....)?	Yes	No	N/A				
9	Type of packing material present	Netting	Vial Holder	(Bubble Wrap)				
		Paper	Styrofoam	Other	N/A			
10	Were all bottle labels complete (sample ID, preservation, etc....)?	(Yes)	No	N/A				
11	Did all bottle labels and tags agree with custody papers?	(Yes)	No	N/A				
12	Were the correct bottles used for the tests indicated?	(Yes)	No	N/A				
13	Were all of the preserved bottles received with the appropriate preservative?	Yes	No	(N/A)				
	HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2							
	Preservative additions noted below							
14	Were all samples received within analysis holding times?	(Yes)	No	N/A				
15	Were all VOA vials free of air bubbles? If present, note below	(Yes)	No	N/A				
16	Where did the bottles originate?	(CAS)	Client					

Sample ID	Reagent	Lot #	ml added	Initials Date/Time

Additional comments and/or explanation of all discrepancies noted above:

Client approval to run samples if discrepancies noted: Date:

Columbia Analytical Services

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

SR # J1200027

CAS Contact

9143 Philips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011 PAGE 1 OF 1

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J1200027
Waste Services of Florida, Inc.
JED SWDF

Project Name: JED SWDF	Project Number:
Project Manager: Joe Terry	Email Address: jterry@wsii.us
Company/Address: WSI, 11500 43rd St. N. Clearwater, FL 33762	
Phone #: 813-943-8633	FAX#:
Sampler's Signature: Joe Terry	Sampler's Printed Name: Joe Terry

ANALYSIS REQUESTED (Include Method Number)

PRESERVATIVE: 1

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	Xylenes	REMARKS/ ALTERNATE DESCRIPTION
MW-1A		1-3-12	0840	GW	3	3	

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS

Cooler ID: 12003 - JED

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: 0.3 TM CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Joe Terry	Signature: Sharon Lightfoot	Signature	Signature	Signature	Signature
Printed Name: Joe Terry	Printed Name: Sharon Lightfoot	Printed Name	Printed Name	Printed Name	Printed Name
Firm: WSI	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 1-3-12 / 0930	Date/Time: 1-4-12 1010	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-06/20/08