Columbia Analytical Services™ 9143 Philips Highway, Suite 200 | Jacksonville, FL 32256 | 904-739-2277 | 904-739-2011 fax | www.caslab.com

May 26, 2010

Service Request No: J1002202

Kirk Wills
Environmental Planning Specialists
1936 Bruce B Downs Blvd
#328
Wesley Chapel, FL 33543

Laboratory Results for: JED SWDF

Dear Kirk:

Enclosed are the results of the sample(s) submitted to our laboratory on May 12, 2010. For your reference, these analyses have been assigned our service request number **J1002202**.

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.

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

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502. Other state accreditations include: Georgia, #958; Kentucky, #63; Louisiana, #02086; North Carolina, #527; South Carolina, #96021001; Texas, #T104704197-09-TX.

Florida DEP Data Qualifiers

B Results based upon colony counts outside the acceptable range.

D Measurement was made in the field.

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 practical quantitation limit.

J Estimated value (one of the following reasons is discussed in the project case narrative).
1. The result may be inaccurate because the surrogate recovery limits have been exceeded.
2. No known quality control criteria exists for the component.
3. The reported value failed to meet the established quality control criteria for either precision or accuracy.
4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD).
5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).

K Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).

L Off scale high. The analyte is above the upper limit of the linear calibration range.

M The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.

N Presumptive evidence of the analyte. Confirmation was not performed.

Q Sample held beyond the accepted holding time.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.

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.

Y The laboratory analysis was from an improperly preserved sample.

Z Too many colonies were present (TNTC). 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: Environmental Planning Specialists
Project: JED SWDF

Service Request: J1002202

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J1002202-001	MW-13A	5/11/10	16:05
J1002202-002	MW-13B	5/11/10	16:30
J1002202-003	Trip Blank	5/11/10	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002202
Date Collected: 05/11/2010
Date Received: 05/12/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-13A
Lab Code: J1002202-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/19/10	05/19/10	JWG1001808	
Vinyl Chloride	ND	U	1.0	0.16	1	05/19/10	05/19/10	JWG1001808	
Bromomethane	ND	U	1.0	0.49	1	05/19/10	05/19/10	JWG1001808	
Chloroethane	ND	U	5.0	0.68	1	05/19/10	05/19/10	JWG1001808	
Trichlorofluoromethane	ND	U	20	0.71	1	05/19/10	05/19/10	JWG1001808	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/19/10	05/19/10	JWG1001808	
Acetone	ND	U	50	5.6	1	05/19/10	05/19/10	JWG1001808	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/19/10	05/19/10	JWG1001808	
Carbon Disulfide	ND	U	10	3.1	1	05/19/10	05/19/10	JWG1001808	
Methylene Chloride	ND	U	5.0	0.45	1	05/19/10	05/19/10	JWG1001808	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/19/10	05/19/10	JWG1001808	
Acrylonitrile	ND	U	10	2.7	1	05/19/10	05/19/10	JWG1001808	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/19/10	05/19/10	JWG1001808	
Vinyl Acetate	ND	U	10	2.7	1	05/19/10	05/19/10	JWG1001808	
cis-1,2-Dichloroethene	**0.25**	I	1.0	0.083	1	05/19/10	05/19/10	JWG1001808	
2-Butanone (MEK)	ND	U	10	2.5	1	05/19/10	05/19/10	JWG1001808	
Bromochloromethane	ND	U	5.0	0.67	1	05/19/10	05/19/10	JWG1001808	
Chloroform	ND	U	1.0	0.35	1	05/19/10	05/19/10	JWG1001808	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/19/10	05/19/10	JWG1001808	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/19/10	05/19/10	JWG1001808	
Benzene	**1.2**		1.0	0.066	1	05/19/10	05/19/10	JWG1001808	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/19/10	05/19/10	JWG1001808	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/19/10	05/19/10	JWG1001808	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/19/10	05/19/10	JWG1001808	
Dibromomethane	ND	U	5.0	0.39	1	05/19/10	05/19/10	JWG1001808	
Bromodichloromethane	ND	U	1.0	0.19	1	05/19/10	05/19/10	JWG1001808	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/19/10	05/19/10	JWG1001808	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/19/10	05/19/10	JWG1001808	
Toluene	ND	U	1.0	0.47	1	05/19/10	05/19/10	JWG1001808	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/19/10	05/19/10	JWG1001808	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/19/10	05/19/10	JWG1001808	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/19/10	05/19/10	JWG1001808	
2-Hexanone	ND	U	25	2.1	1	05/19/10	05/19/10	JWG1001808	
Dibromochloromethane	ND	U	1.0	0.34	1	05/19/10	05/19/10	JWG1001808	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002202
Date Collected: 05/11/2010
Date Received: 05/12/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-13A
Lab Code: J1002202-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/19/10	05/19/10	JWG1001808	
Chlorobenzene	ND	U	1.0	0.42	1	05/19/10	05/19/10	JWG1001808	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/19/10	05/19/10	JWG1001808	
Ethylbenzene	ND	U	1.0	0.52	1	05/19/10	05/19/10	JWG1001808	
m,p-Xylenes	ND	U	2.0	1.1	1	05/19/10	05/19/10	JWG1001808	
o-Xylene	ND	U	1.0	0.49	1	05/19/10	05/19/10	JWG1001808	
Styrene	ND	U	1.0	0.49	1	05/19/10	05/19/10	JWG1001808	
Bromoform	ND	U	2.0	0.44	1	05/19/10	05/19/10	JWG1001808	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/19/10	05/19/10	JWG1001808	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/19/10	05/19/10	JWG1001808	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/19/10	05/19/10	JWG1001808	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/19/10	05/19/10	JWG1001808	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/19/10	05/19/10	JWG1001808	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	05/19/10	05/19/10	JWG1001808	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	71	71-122	05/19/10	Acceptable
4-Bromofluorobenzene	104	75-120	05/19/10	Acceptable
Dibromofluoromethane	91	82-116	05/19/10	Acceptable
Toluene-d8	112	88-117	05/19/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002202
Date Collected: 05/11/2010
Date Received: 05/12/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-13B
Lab Code: J1002202-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/19/10	05/19/10	JWG1001808	
Vinyl Chloride	ND	U	1.0	0.16	1	05/19/10	05/19/10	JWG1001808	
Bromomethane	ND	U	1.0	0.49	1	05/19/10	05/19/10	JWG1001808	
Chloroethane	ND	U	5.0	0.68	1	05/19/10	05/19/10	JWG1001808	
Trichlorofluoromethane	ND	U	20	0.71	1	05/19/10	05/19/10	JWG1001808	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/19/10	05/19/10	JWG1001808	
Acetone	ND	U	50	5.6	1	05/19/10	05/19/10	JWG1001808	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/19/10	05/19/10	JWG1001808	
Carbon Disulfide	ND	U	10	3.1	1	05/19/10	05/19/10	JWG1001808	
Methylene Chloride	ND	U	5.0	0.45	1	05/19/10	05/19/10	JWG1001808	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/19/10	05/19/10	JWG1001808	
Acrylonitrile	ND	U	10	2.7	1	05/19/10	05/19/10	JWG1001808	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/19/10	05/19/10	JWG1001808	
Vinyl Acetate	ND	U	10	2.7	1	05/19/10	05/19/10	JWG1001808	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/19/10	05/19/10	JWG1001808	
2-Butanone (MEK)	ND	U	10	2.5	1	05/19/10	05/19/10	JWG1001808	
Bromochloromethane	ND	U	5.0	0.67	1	05/19/10	05/19/10	JWG1001808	
Chloroform	ND	U	1.0	0.35	1	05/19/10	05/19/10	JWG1001808	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/19/10	05/19/10	JWG1001808	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/19/10	05/19/10	JWG1001808	
Benzene	ND	U	1.0	0.066	1	05/19/10	05/19/10	JWG1001808	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/19/10	05/19/10	JWG1001808	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/19/10	05/19/10	JWG1001808	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/19/10	05/19/10	JWG1001808	
Dibromomethane	ND	U	5.0	0.39	1	05/19/10	05/19/10	JWG1001808	
Bromodichloromethane	ND	U	1.0	0.19	1	05/19/10	05/19/10	JWG1001808	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/19/10	05/19/10	JWG1001808	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/19/10	05/19/10	JWG1001808	
Toluene	ND	U	1.0	0.47	1	05/19/10	05/19/10	JWG1001808	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/19/10	05/19/10	JWG1001808	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/19/10	05/19/10	JWG1001808	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/19/10	05/19/10	JWG1001808	
2-Hexanone	ND	U	25	2.1	1	05/19/10	05/19/10	JWG1001808	
Dibromochloromethane	ND	U	1.0	0.34	1	05/19/10	05/19/10	JWG1001808	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002202
Date Collected: 05/11/2010
Date Received: 05/12/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-13B
Lab Code: J1002202-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/19/10	05/19/10	JWG1001808	
Chlorobenzene	ND	U	1.0	0.42	1	05/19/10	05/19/10	JWG1001808	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/19/10	05/19/10	JWG1001808	
Ethylbenzene	ND	U	1.0	0.52	1	05/19/10	05/19/10	JWG1001808	
m,p-Xylenes	ND	U	2.0	1.1	1	05/19/10	05/19/10	JWG1001808	
o-Xylene	ND	U	1.0	0.49	1	05/19/10	05/19/10	JWG1001808	
Styrene	ND	U	1.0	0.49	1	05/19/10	05/19/10	JWG1001808	
Bromoform	ND	U	2.0	0.44	1	05/19/10	05/19/10	JWG1001808	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/19/10	05/19/10	JWG1001808	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/19/10	05/19/10	JWG1001808	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/19/10	05/19/10	JWG1001808	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/19/10	05/19/10	JWG1001808	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/19/10	05/19/10	JWG1001808	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	05/19/10	05/19/10	JWG1001808	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	110	71-122	05/19/10	Acceptable
4-Bromofluorobenzene	107	75-120	05/19/10	Acceptable
Dibromofluoromethane	101	82-116	05/19/10	Acceptable
Toluene-d8	103	88-117	05/19/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002202
Date Collected: 05/11/2010
Date Received: 05/12/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1002202-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/19/10	05/19/10	JWG1001808	
Vinyl Chloride	ND	U	1.0	0.16	1	05/19/10	05/19/10	JWG1001808	
Bromomethane	ND	U	1.0	0.49	1	05/19/10	05/19/10	JWG1001808	
Chloroethane	ND	U	5.0	0.68	1	05/19/10	05/19/10	JWG1001808	
Trichlorofluoromethane	ND	U	20	0.71	1	05/19/10	05/19/10	JWG1001808	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/19/10	05/19/10	JWG1001808	
Acetone	ND	U	50	5.6	1	05/19/10	05/19/10	JWG1001808	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/19/10	05/19/10	JWG1001808	
Carbon Disulfide	ND	U	10	3.1	1	05/19/10	05/19/10	JWG1001808	
Methylene Chloride	ND	U	5.0	0.45	1	05/19/10	05/19/10	JWG1001808	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/19/10	05/19/10	JWG1001808	
Acrylonitrile	ND	U	10	2.7	1	05/19/10	05/19/10	JWG1001808	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/19/10	05/19/10	JWG1001808	
Vinyl Acetate	ND	U	10	2.7	1	05/19/10	05/19/10	JWG1001808	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/19/10	05/19/10	JWG1001808	
2-Butanone (MEK)	ND	U	10	2.5	1	05/19/10	05/19/10	JWG1001808	
Bromochloromethane	ND	U	5.0	0.67	1	05/19/10	05/19/10	JWG1001808	
Chloroform	ND	U	1.0	0.35	1	05/19/10	05/19/10	JWG1001808	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/19/10	05/19/10	JWG1001808	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/19/10	05/19/10	JWG1001808	
Benzene	ND	U	1.0	0.066	1	05/19/10	05/19/10	JWG1001808	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/19/10	05/19/10	JWG1001808	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/19/10	05/19/10	JWG1001808	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/19/10	05/19/10	JWG1001808	
Dibromomethane	ND	U	5.0	0.39	1	05/19/10	05/19/10	JWG1001808	
Bromodichloromethane	ND	U	1.0	0.19	1	05/19/10	05/19/10	JWG1001808	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/19/10	05/19/10	JWG1001808	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/19/10	05/19/10	JWG1001808	
Toluene	ND	U	1.0	0.47	1	05/19/10	05/19/10	JWG1001808	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/19/10	05/19/10	JWG1001808	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/19/10	05/19/10	JWG1001808	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/19/10	05/19/10	JWG1001808	
2-Hexanone	ND	U	25	2.1	1	05/19/10	05/19/10	JWG1001808	
Dibromochloromethane	ND	U	1.0	0.34	1	05/19/10	05/19/10	JWG1001808	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002202
Date Collected: 05/11/2010
Date Received: 05/12/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1002202-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/19/10	05/19/10	JWG1001808	
Chlorobenzene	ND	U	1.0	0.42	1	05/19/10	05/19/10	JWG1001808	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/19/10	05/19/10	JWG1001808	
Ethylbenzene	ND	U	1.0	0.52	1	05/19/10	05/19/10	JWG1001808	
m,p-Xylenes	ND	U	2.0	1.1	1	05/19/10	05/19/10	JWG1001808	
o-Xylene	ND	U	1.0	0.49	1	05/19/10	05/19/10	JWG1001808	
Styrene	ND	U	1.0	0.49	1	05/19/10	05/19/10	JWG1001808	
Bromoform	ND	U	2.0	0.44	1	05/19/10	05/19/10	JWG1001808	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/19/10	05/19/10	JWG1001808	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/19/10	05/19/10	JWG1001808	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/19/10	05/19/10	JWG1001808	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/19/10	05/19/10	JWG1001808	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/19/10	05/19/10	JWG1001808	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	05/19/10	05/19/10	JWG1001808	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	112	71-122	05/19/10	Acceptable
4-Bromofluorobenzene	108	75-120	05/19/10	Acceptable
Dibromofluoromethane	104	82-116	05/19/10	Acceptable
Toluene-d8	100	88-117	05/19/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002202
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1001808-4

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/19/10	05/19/10	JWG1001808	
Vinyl Chloride	ND	U	1.0	0.16	1	05/19/10	05/19/10	JWG1001808	
Bromomethane	ND	U	1.0	0.49	1	05/19/10	05/19/10	JWG1001808	
Chloroethane	ND	U	5.0	0.68	1	05/19/10	05/19/10	JWG1001808	
Trichlorofluoromethane	ND	U	20	0.71	1	05/19/10	05/19/10	JWG1001808	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/19/10	05/19/10	JWG1001808	
Acetone	ND	U	50	5.6	1	05/19/10	05/19/10	JWG1001808	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/19/10	05/19/10	JWG1001808	
Carbon Disulfide	ND	U	10	3.1	1	05/19/10	05/19/10	JWG1001808	
Methylene Chloride	ND	U	5.0	0.45	1	05/19/10	05/19/10	JWG1001808	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/19/10	05/19/10	JWG1001808	
Acrylonitrile	ND	U	10	2.7	1	05/19/10	05/19/10	JWG1001808	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/19/10	05/19/10	JWG1001808	
Vinyl Acetate	ND	U	10	2.7	1	05/19/10	05/19/10	JWG1001808	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/19/10	05/19/10	JWG1001808	
2-Butanone (MEK)	ND	U	10	2.5	1	05/19/10	05/19/10	JWG1001808	
Bromochloromethane	ND	U	5.0	0.67	1	05/19/10	05/19/10	JWG1001808	
Chloroform	ND	U	1.0	0.35	1	05/19/10	05/19/10	JWG1001808	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/19/10	05/19/10	JWG1001808	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/19/10	05/19/10	JWG1001808	
Benzene	ND	U	1.0	0.066	1	05/19/10	05/19/10	JWG1001808	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/19/10	05/19/10	JWG1001808	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/19/10	05/19/10	JWG1001808	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/19/10	05/19/10	JWG1001808	
Dibromomethane	ND	U	5.0	0.39	1	05/19/10	05/19/10	JWG1001808	
Bromodichloromethane	ND	U	1.0	0.19	1	05/19/10	05/19/10	JWG1001808	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/19/10	05/19/10	JWG1001808	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/19/10	05/19/10	JWG1001808	
Toluene	ND	U	1.0	0.47	1	05/19/10	05/19/10	JWG1001808	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/19/10	05/19/10	JWG1001808	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/19/10	05/19/10	JWG1001808	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/19/10	05/19/10	JWG1001808	
2-Hexanone	ND	U	25	2.1	1	05/19/10	05/19/10	JWG1001808	
Dibromochloromethane	ND	U	1.0	0.34	1	05/19/10	05/19/10	JWG1001808	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002202
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1001808-4

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/19/10	05/19/10	JWG1001808	
Chlorobenzene	ND	U	1.0	0.42	1	05/19/10	05/19/10	JWG1001808	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/19/10	05/19/10	JWG1001808	
Ethylbenzene	ND	U	1.0	0.52	1	05/19/10	05/19/10	JWG1001808	
m,p-Xylenes	ND	U	2.0	1.1	1	05/19/10	05/19/10	JWG1001808	
o-Xylene	ND	U	1.0	0.49	1	05/19/10	05/19/10	JWG1001808	
Styrene	ND	U	1.0	0.49	1	05/19/10	05/19/10	JWG1001808	
Bromoform	ND	U	2.0	0.44	1	05/19/10	05/19/10	JWG1001808	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/19/10	05/19/10	JWG1001808	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/19/10	05/19/10	JWG1001808	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/19/10	05/19/10	JWG1001808	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/19/10	05/19/10	JWG1001808	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/19/10	05/19/10	JWG1001808	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	05/19/10	05/19/10	JWG1001808	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	106	71-122	05/19/10	Acceptable
4-Bromofluorobenzene	103	75-120	05/19/10	Acceptable
Dibromofluoromethane	105	82-116	05/19/10	Acceptable
Toluene-d8	98	88-117	05/19/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002202
Project:	JED SWDF	**Date Collected:**	05/11/2010
Sample Matrix:	Water	**Date Received:**	05/12/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-13A	**Units:**	ug/L
Lab Code:	J1002202-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	05/20/10	05/21/10	JWG1001766	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	05/20/10	05/21/10	JWG1001766	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	100	77-150	05/21/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002202
Project:	JED SWDF	**Date Collected:**	05/11/2010
Sample Matrix:	Water	**Date Received:**	05/12/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-13B	**Units:**	ug/L
Lab Code:	J1002202-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0071	1	05/20/10	05/22/10	JWG1001766	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0058	1	05/20/10	05/22/10	JWG1001766	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	113	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002202
Project:	JED SWDF	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG1001766-4	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	05/20/10	05/21/10	JWG1001766	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	05/20/10	05/21/10	JWG1001766	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	93	77-150	05/21/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002202
Date Collected: 5/11/10 1605
Date Received: 5/12/10

Sample Name: MW-13A
Lab Code: J1002202-001

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/19/10	5/21/10 17:28
Arsenic, Total	6020	**16.1**		µg/L	0.50	0.14	1	5/19/10	5/21/10 17:28
Barium, Total	6020	**8.2**		µg/L	2.0	0.5	1	5/19/10	5/21/10 17:28
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/19/10	5/21/10 17:28
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/19/10	5/21/10 17:28
Chromium, Total	6020	**2.5**		µg/L	2.0	0.6	1	5/19/10	5/21/10 17:28
Cobalt, Total	6020	**0.6**	I	µg/L	1.0	0.2	1	5/19/10	5/21/10 17:28
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/19/10	5/21/10 17:28
Iron, Total	6010B	**15000**		µg/L	100	10	1	5/13/10	5/18/10 17:52
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/19/10	5/21/10 17:28
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/17/10	5/17/10 16:37
Nickel, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	5/19/10	5/21/10 17:28
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/19/10	5/21/10 17:28
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/19/10	5/21/10 17:28
Sodium, Total	6010B	**8.44**		mg/L	0.50	0.02	1	5/13/10	5/18/10 17:50
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/19/10	5/21/10 17:28
Vanadium, Total	6020	**3.6**	I	µg/L	5.0	1.2	1	5/19/10	5/21/10 17:28
Zinc, Total	6020	**19**		µg/L	10	3	1	5/19/10	5/21/10 17:28

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002202
Date Collected: 5/11/10 1630
Date Received: 5/12/10

Sample Name: MW-13B
Lab Code: J1002202-002

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/19/10	5/21/10 17:33
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	5/19/10	5/21/10 17:33
Barium, Total	6020	**14.5**		µg/L	2.0	0.5	1	5/19/10	5/21/10 17:33
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/19/10	5/21/10 17:33
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/19/10	5/21/10 17:33
Chromium, Total	6020	**1.4**	I	µg/L	2.0	0.6	1	5/19/10	5/21/10 17:33
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	5/19/10	5/21/10 17:33
Copper, Total	6020	**0.9**	I	µg/L	2.0	0.5	1	5/19/10	5/21/10 17:33
Iron, Total	6010B	**840**		µg/L	100	10	1	5/13/10	5/18/10 17:56
Lead, Total	6020	**1.4**		µg/L	1.0	0.3	1	5/19/10	5/21/10 17:33
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/17/10	5/17/10 16:39
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	5/19/10	5/21/10 17:33
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/19/10	5/21/10 17:33
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/19/10	5/21/10 17:33
Sodium, Total	6010B	**9.49**		mg/L	0.50	0.02	1	5/13/10	5/18/10 17:55
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/19/10	5/21/10 17:33
Vanadium, Total	6020	**1.8**	I	µg/L	5.0	1.2	1	5/19/10	5/21/10 17:33
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/19/10	5/21/10 17:33

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002202
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: J1002202-MB

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/19/10	5/21/10 13:57
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	5/19/10	5/23/10 19:23
Barium, Total	6020	**1.4**	I	µg/L	2.0	0.5	1	5/19/10	5/21/10 13:57
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/19/10	5/23/10 19:23
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/19/10	5/23/10 19:23
Chromium, Total	6020	ND	U	µg/L	2.0	0.6	1	5/19/10	5/23/10 19:23
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	5/19/10	5/23/10 19:23
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/19/10	5/23/10 19:23
Iron, Total	6010B	ND	U	µg/L	100	10	1	5/13/10	5/18/10 16:26
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/19/10	5/21/10 13:57
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/17/10	5/17/10 15:57
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	5/19/10	5/23/10 19:23
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/19/10	5/23/10 19:23
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/19/10	5/23/10 19:23
Sodium, Total	6010B	ND	U	mg/L	0.50	0.02	1	5/13/10	5/18/10 16:24
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/19/10	5/21/10 13:57
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	5/19/10	5/23/10 19:23
Zinc, Total	6020	**5**	I	µg/L	10	3	1	5/19/10	5/23/10 19:23

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002202
Date Collected : 05/11/10
Date Received : 05/12/10

Inorganic Parameters

Sample Name : MW-13A
Lab Code : J1002202-001
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	0.006	1	05/17/10 13:57	1.1	
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/12/10 11:24	11	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/12/10 12:54	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/17/10 16:00	110	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002202
Date Collected : 05/11/10
Date Received : 05/12/10

Inorganic Parameters

Sample Name : MW-13B
Lab Code : J1002202-002
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	0.006	1	05/17/10 13:57	0.049	
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/12/10 11:24	12	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/12/10 13:09	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/17/10 16:00	56	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002202
Date Collected : NA
Date Received : NA

Inorganic Parameters

Sample Name : Method Blank
Lab Code : J1002202-MB
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	0.006	1	05/17/10 13:57	U	
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/12/10 11:24	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/12/10 11:24	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/17/10 16:00	U	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002202

Surrogate Recovery Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
MW-13A	J1002202-001	71	104	91	112
MW-13B	J1002202-002	110	107	101	103
Trip Blank	J1002202-003	112	108	104	100
Method Blank	JWG1001808-4	106	103	105	98
Lab Control Sample	JWG1001808-3	112	99	104	95

Surrogate Recovery Control Limits (%)

Sur1 =	1,2-Dichloroethane-d4	71-122
Sur2 =	4-Bromofluorobenzene	75-120
Sur3 =	Dibromofluoromethane	82-116
Sur4 =	Toluene-d8	88-117

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002202
Date Extracted: 05/19/2010
Date Analyzed: 05/19/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1001808

	Lab Control Sample JWG1001808-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Chloromethane	19.9	20.0	100	67-135
Vinyl Chloride	21.4	20.0	107	78-132
Bromomethane	20.7	20.0	104	79-130
Chloroethane	21.7	20.0	109	74-126
Trichlorofluoromethane	19.9	20.0	99	74-134
1,1-Dichloroethene	20.0	20.0	100	78-130
Acetone	114	100	114	67-133
Iodomethane (Methyl Iodide)	99.8	100	100	68-134
Carbon Disulfide	104	100	104	76-138
Methylene Chloride	21.8	20.0	109	72-124
trans-1,2-Dichloroethene	20.6	20.0	103	77-124
Acrylonitrile	110	100	110	77-127
1,1-Dichloroethane	20.7	20.0	104	80-128
Vinyl Acetate	95.1	100	95	61-148
cis-1,2-Dichloroethene	20.8	20.0	104	80-126
2-Butanone (MEK)	114	100	114	73-127
Bromochloromethane	21.0	20.0	105	79-129
Chloroform	21.5	20.0	107	83-124
1,1,1-Trichloroethane (TCA)	19.9	20.0	99	79-124
Carbon Tetrachloride	20.9	20.0	104	81-125
Benzene	20.6	20.0	103	79-119
1,2-Dichloroethane (EDC)	21.2	20.0	106	80-124
Trichloroethene (TCE)	19.7	20.0	99	76-124
1,2-Dichloropropane	20.1	20.0	100	79-123
Dibromomethane	20.3	20.0	102	83-123
Bromodichloromethane	20.2	20.0	101	81-123
cis-1,3-Dichloropropene	17.4	20.0	87	86-123
4-Methyl-2-pentanone (MIBK)	89.2	100	89	72-136
Toluene	18.4	20.0	92	86-117
trans-1,3-Dichloropropene	18.0	20.0	90	83-124
1,1,2-Trichloroethane	18.6	20.0	93	86-114
Tetrachloroethene (PCE)	17.5	20.0	87	80-121
2-Hexanone	89.9	100	90	71-138
Dibromochloromethane	18.5	20.0	93	82-121
1,2-Dibromoethane (EDB)	18.4	20.0	92	88-117
Chlorobenzene	18.3	20.0	92	86-113

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002202
Date Extracted: 05/19/2010
Date Analyzed: 05/19/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1001808

	Lab Control Sample JWG1001808-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,1,1,2-Tetrachloroethane	18.6	20.0	93	85-117
Ethylbenzene	18.6	20.0	93	90-118
m,p-Xylenes	38.6	40.0	97	86-121
o-Xylene	19.4	20.0	97	89-119
Styrene	19.4	20.0	97	89-122
Bromoform	18.4	20.0	92	68-129
1,1,2,2-Tetrachloroethane	19.0	20.0	95	83-120
1,2,3-Trichloropropane	18.2	20.0	91	83-123
1,4-Dichlorobenzene	17.9	20.0	89	83-113
trans-1,4-Dichloro-2-butene	18.9	20.0	94	53-143
1,2-Dichlorobenzene	17.8	20.0	89	84-115
1,2-Dibromo-3-chloropropane (DBCP	17.9	20.0	90	62-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002202

Surrogate Recovery Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
MW-13A	J1002202-001	100
MW-13B	J1002202-002	113
Method Blank	JWG1001766-4	93
MW-13AMS	JWG1001766-1	106
MW-13ADMS	JWG1001766-2	101
Lab Control Sample	JWG1001766-3	104

Surrogate Recovery Control Limits (%)

Sur1 = 1,1,1,2-Tetrachloroethane 77-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002202
Project:	JED SWDF	**Date Extracted:**	05/20/2010
Sample Matrix:	Water	**Date Analyzed:**	05/21/2010 - 05/22/2010

Matrix Spike/Duplicate Matrix Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-13A	**Units:**	ug/L
Lab Code:	J1002202-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011	**Extraction Lot:**	JWG1001766

		MW-13AMS JWG1001766-1 Matrix Spike			MW-13ADMS JWG1001766-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,2-Dibromoethane (EDB)	ND	0.0154	0.0143	107	0.0142	0.0142	100	65-135	8	20
1,2-Dibromo-3-chloropropane (DBCP	ND	0.0144	0.0143	100	0.0134	0.0142	94	65-135	7	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002202
Date Extracted: 05/20/2010
Date Analyzed: 05/21/2010

Lab Control Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1001766

	Lab Control Sample JWG1001766-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,2-Dibromoethane (EDB)	0.0141	0.0143	99	70-130
1,2-Dibromo-3-chloropropane (DBCP	0.0134	0.0143	94	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002202
Date Analyzed: 5/17/10 - 5/23/10

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1002202-LCS Result	Expected	% Rec	% Rec Limits
Antimony, Total	6020	**50.4**	50.0	101	80 - 120
Arsenic, Total	6020	**46.9**	50.0	94	80 - 120
Barium, Total	6020	**50.6**	50.0	101	80 - 120
Beryllium, Total	6020	**49.0**	50.0	98	80 - 120
Cadmium, Total	6020	**49.1**	50.0	98	80 - 120
Chromium, Total	6020	**51.5**	50.0	103	80 - 120
Cobalt, Total	6020	**52.0**	50.0	104	80 - 120
Copper, Total	6020	**51.0**	50.0	102	80 - 120
Iron, Total	6010B	**2090**	2000	104	80 - 120
Lead, Total	6020	**50.2**	50.0	100	80 - 120
Mercury, Total	7470A	**4.56**	5.00	91	80 - 120
Nickel, Total	6020	**51.0**	50.0	102	80 - 120
Selenium, Total	6020	**43.2**	50.0	86	80 - 120
Silver, Total	6020	**50.2**	50.0	100	80 - 120
Thallium, Total	6020	**50.1**	50.0	100	80 - 120
Vanadium, Total	6020	**51.4**	50.0	103	80 - 120
Zinc, Total	6020	**92.7**	100	93	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002202
Date Analyzed: 5/18/10

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1002202-LCS Result	Expected	% Rec	% Rec Limits
Sodium, Total	6010B	**10.4**	10.0	104	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Environmental Planning Specialists	**Service Request :**	J1002202
Project Name :	JED SWDF	**Date Collected :**	NA
Project Number :	NA	**Date Received :**	NA
Sample Matrix :	WATER	**Date Extracted :**	NA
		Date Analyzed :	05/12-17/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Laboratory Control Sample
Lab Code : J1002202-LCS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	1.00	0.961	96	90-110	
Chloride	mg/L (ppm)	300.0	25	24.3	97	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	4.92	98	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	300	294	98	85-115	

Report By:Palimi

Columbia Analytical Services, Inc.
Cooler Receipt Form

Client: EPS Service Request #: J1002202

Project: JED SWDF

Cooler received on 5/12/10 and opened on 5/12/10 by SJO

COURIER: CAS UPS FEDEX Client Other _____ Airbill # 12X5W098221000/400

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 4 +/- 2 degrees C)	2.5		
5	Thermometer ID	T15		
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	BUBBLEWRAP		
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 VOA vials checked for absence 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

Jacksonville Laboratory
Condition Upon Receipt - Sample pH

SR # : J 1002202 Date: 5/12/10 Initials: SJO

Note that pH is check and meets the required pH criterion listed in the column heading unless otherwise noted on the cooler receipt form.

	Bottle Code																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	40mL	40mL	40mL	125mL	125mL	125mL	125mL	250mL	250mL	250mL	250mL	250mL	250mL	250mL	500mL	500mL	500mL	500mL	500mL	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	100ml	Ziplock	Misc.
Container	G	G	G	P	P	P	P	P	P	P	P	P	G	G	P	P	P	P	G	P	P	G	G	G	G	G	G	G	P	P	Misc.
Pres.		HCl	Na2S2O3		HCl	H2SO4	HNO3		H2SO4	HNO3	ZnAc2 NaOH	NaOH		HNO3		HCl	H2SO4	HNO3			HNO3		HCl	H2SO4					Sodium Thiosulfate		
Req. pH	N/A	<2	N/A	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	<2	N/A	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A		N/A
Sample #	-	-		-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-		-				-	-		-
-001	3	3				1	1	1																							-001
-002	3	3				1	1	1																							-002
-003		1																													-003
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NOTE: VOA pH checks are performed by the analytical area, not sample control

Columbia Analytical Services™

www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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

PAGE 1 OF 1

SR # J1002202

CAS Contact

Project Name: JEDSWDF	Project Number:
Project Manager: Kirk Wills	Email Address: kwills@envplanning.com
Company/Address: EPS, 1936 Bruce B Downs Blvd. #328, Wesley Chapel, FL 33543	
Phone #: 813-388-1026	FAX#:
Sampler's Signature: Joe Terry	Sampler's Printed Name: Joe Terry

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

[redacted]

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	8260	8011	Metals	NH3	TDS, Cl, NO3											REMARKS/ ALTERNATE DESCRIPTION
PRESERVATIVE					1	0	2	3	0											
MW-13A		5.11.10	1605	GW	9	3	3	1	1	1										
MW-13B		5.11.10	1630	GW	9	3	3	1	1	1										
Trip Blank		5.4.10	0700	DI H2O	1	1														

NUMBER OF CONTAINERS

1. HCl
2. HNO3
3. H2SO4
4. NaOH
5. Zn. Acetate
6. MeOH
7. NaHSO4
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS

Cooler ID: 10131-JED-1

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: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
33	8hr 5/12/10				
Signature: Joe Terry	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Joe Terry	Printed Name: FSR	Printed Name: UPS	Printed Name: Summer Ostrem	Printed Name:	Printed Name:
Firm: EPS	Firm: UPS	Firm:	Firm: CAS	Firm:	Firm:
Date/Time: 5-11-10/1740	Date/Time:	Date/Time:	Date/Time: 5/12/10 0920	Date/Time:	Date/Time:

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

JSCOC-06/20/08

Columbia Analytical Services™ 9143 Philips Highway, Suite 200 | Jacksonville, FL 32256 | 904-739-2277 | 904-739-2011 fax | www.caslab.com

May 27, 2010

Service Request No: J1002246

Kirk Wills
Environmental Planning Specialists
1936 Bruce B Downs Blvd
#328
Wesley Chapel, FL 33543

Laboratory Results for: JED SWDF

Dear Kirk:

Enclosed are the results of the sample(s) submitted to our laboratory on May 13, 2010. For your reference, these analyses have been assigned our service request number **J1002246**.

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.

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

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502. Other state accreditations include: Georgia, #958; Kentucky, #63; Louisiana, #02086; North Carolina, #527; South Carolina, #96021001; Texas, #T104704197-09-TX.

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Environmental Planning Specialists	**Service Request No.:**	J1002246
Project:	JED SWDF	**Date Received:**	5/13/10
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Six water samples and one trip blank were received for analysis at Columbia Analytical Services on 5/13/10. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

The samples were analyzed for Volatile Organics using EPA Method 8260. The following observations were made regarding this delivery group.

Surrogate Exceptions

The upper control criterion was exceeded for the following surrogate in samples MW-11A, MW-11B and MW-12B: 4-Bromofluorobenzene. No target analytes were detected in the samples that were associated to the surrogate in question. The error associated with an elevated recovery equates to a high bias. The quality of the sample data is not significantly affected. No further corrective action was appropriate.

Matrix Spike Recovery Exceptions

The matrix spike recoveries of several analytes for sample MW-10B were outside control criterion. Recoveries in the Laboratory Control Sample (LCS) were acceptable, which indicates the analytical batch was in control. No further corrective action was appropriate.

EDB and DBCP by GC-ECD

The samples were analyzed for EDB and DBCP using EPA Method 8011. No problems were observed.

Batch QC Notes and Discussion

Quality control samples (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

Approved by_____ **Date** 5/27/10

Metals by ICP-MS/ICP-OES/CVAA

The samples were analyzed for Total Metals using EPA Methods 6020/6010B/7470A. No problems were observed.

Batch QC Notes and Discussion

Some quality control samples (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

General Chemistry Parameters

The samples were analyzed for Inorganic Parameters using various EPA and Standard Methods. The following observations were made regarding this delivery group.

Matrix Spike Recovery Exceptions

The matrix spike recovery of Ammonia for sample MW-10A was outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The recovery was not significantly outside of control criteria. No further corrective action was needed.

Approved by_____ **Date** 5/27/10

Florida DEP Data Qualifiers

B Results based upon colony counts outside the acceptable range.

D Measurement was made in the field.

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 practical quantitation limit.

J Estimated value (one of the following reasons is discussed in the project case narrative).
1. The result may be inaccurate because the surrogate recovery limits have been exceeded.
2. No known quality control criteria exists for the component.
3. The reported value failed to meet the established quality control criteria for either precision or accuracy.
4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD).
5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).

K Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).

L Off scale high. The analyte is above the upper limit of the linear calibration range.

M The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.

N Presumptive evidence of the analyte. Confirmation was not performed.

Q Sample held beyond the accepted holding time.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.

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.

Y The laboratory analysis was from an improperly preserved sample.

Z Too many colonies were present (TNTC). 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: Environmental Planning Specialists
Project: JED SWDF

Service Request: J1002246

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J1002246-001	MW-10A	5/12/10	13:20
J1002246-002	MW-10B	5/12/10	12:50
J1002246-003	MW-11A	5/12/10	10:25
J1002246-004	MW-11B	5/12/10	10:55
J1002246-005	MW-12A	5/12/10	07:58
J1002246-006	MW-12B	5/12/10	08:30
J1002246-007	Trip Blank	5/12/10	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Collected: 05/12/2010
Date Received: 05/13/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-10A
Lab Code: J1002246-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/23/10	05/23/10	JWG1001843	
Vinyl Chloride	ND	U	1.0	0.16	1	05/23/10	05/23/10	JWG1001843	
Bromomethane	ND	U	1.0	0.49	1	05/23/10	05/23/10	JWG1001843	
Chloroethane	ND	U	5.0	0.68	1	05/23/10	05/23/10	JWG1001843	
Trichlorofluoromethane	ND	U	20	0.71	1	05/23/10	05/23/10	JWG1001843	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/23/10	05/23/10	JWG1001843	
Acetone	ND	U	50	5.6	1	05/23/10	05/23/10	JWG1001843	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/23/10	05/23/10	JWG1001843	
Carbon Disulfide	ND	U	10	3.1	1	05/23/10	05/23/10	JWG1001843	
Methylene Chloride	ND	U	5.0	0.45	1	05/23/10	05/23/10	JWG1001843	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/23/10	05/23/10	JWG1001843	
Acrylonitrile	ND	U	10	2.7	1	05/23/10	05/23/10	JWG1001843	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/23/10	05/23/10	JWG1001843	
Vinyl Acetate	ND	U	10	2.7	1	05/23/10	05/23/10	JWG1001843	
cis-1,2-Dichloroethene	**1.1**		1.0	0.083	1	05/23/10	05/23/10	JWG1001843	
2-Butanone (MEK)	ND	U	10	2.5	1	05/23/10	05/23/10	JWG1001843	
Bromochloromethane	ND	U	5.0	0.67	1	05/23/10	05/23/10	JWG1001843	
Chloroform	ND	U	1.0	0.35	1	05/23/10	05/23/10	JWG1001843	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/23/10	05/23/10	JWG1001843	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/23/10	05/23/10	JWG1001843	
Benzene	**3.3**		1.0	0.066	1	05/23/10	05/23/10	JWG1001843	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/23/10	05/23/10	JWG1001843	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/23/10	05/23/10	JWG1001843	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/23/10	05/23/10	JWG1001843	
Dibromomethane	ND	U	5.0	0.39	1	05/23/10	05/23/10	JWG1001843	
Bromodichloromethane	ND	U	1.0	0.19	1	05/23/10	05/23/10	JWG1001843	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/23/10	05/23/10	JWG1001843	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/23/10	05/23/10	JWG1001843	
Toluene	ND	U	1.0	0.47	1	05/23/10	05/23/10	JWG1001843	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/23/10	05/23/10	JWG1001843	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/23/10	05/23/10	JWG1001843	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/23/10	05/23/10	JWG1001843	
2-Hexanone	ND	U	25	2.1	1	05/23/10	05/23/10	JWG1001843	
Dibromochloromethane	ND	U	1.0	0.34	1	05/23/10	05/23/10	JWG1001843	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002246
Project:	JED SWDF	**Date Collected:**	05/12/2010
Sample Matrix:	Water	**Date Received:**	05/13/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-10A	**Units:**	ug/L
Lab Code:	J1002246-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/23/10	05/23/10	JWG1001843	
Chlorobenzene	ND	U	1.0	0.42	1	05/23/10	05/23/10	JWG1001843	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/23/10	05/23/10	JWG1001843	
Ethylbenzene	ND	U	1.0	0.52	1	05/23/10	05/23/10	JWG1001843	
m,p-Xylenes	ND	U	2.0	1.1	1	05/23/10	05/23/10	JWG1001843	
o-Xylene	ND	U	1.0	0.49	1	05/23/10	05/23/10	JWG1001843	
Styrene	ND	U	1.0	0.49	1	05/23/10	05/23/10	JWG1001843	
Bromoform	ND	U	2.0	0.44	1	05/23/10	05/23/10	JWG1001843	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/23/10	05/23/10	JWG1001843	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/23/10	05/23/10	JWG1001843	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/23/10	05/23/10	JWG1001843	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/23/10	05/23/10	JWG1001843	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/23/10	05/23/10	JWG1001843	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	05/23/10	05/23/10	JWG1001843	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	115	71-122	05/23/10	Acceptable
4-Bromofluorobenzene	114	75-120	05/23/10	Acceptable
Dibromofluoromethane	109	82-116	05/23/10	Acceptable
Toluene-d8	99	88-117	05/23/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Collected: 05/12/2010
Date Received: 05/13/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-10B
Lab Code: J1002246-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/23/10	05/23/10	JWG1001843	
Vinyl Chloride	ND	U	1.0	0.16	1	05/23/10	05/23/10	JWG1001843	
Bromomethane	ND	U	1.0	0.49	1	05/23/10	05/23/10	JWG1001843	
Chloroethane	ND	U	5.0	0.68	1	05/23/10	05/23/10	JWG1001843	
Trichlorofluoromethane	ND	U	20	0.71	1	05/23/10	05/23/10	JWG1001843	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/23/10	05/23/10	JWG1001843	
Acetone	ND	U	50	5.6	1	05/23/10	05/23/10	JWG1001843	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/23/10	05/23/10	JWG1001843	
Carbon Disulfide	ND	U	10	3.1	1	05/23/10	05/23/10	JWG1001843	
Methylene Chloride	ND	U	5.0	0.45	1	05/23/10	05/23/10	JWG1001843	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/23/10	05/23/10	JWG1001843	
Acrylonitrile	ND	U	10	2.7	1	05/23/10	05/23/10	JWG1001843	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/23/10	05/23/10	JWG1001843	
Vinyl Acetate	ND	U	10	2.7	1	05/23/10	05/23/10	JWG1001843	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/23/10	05/23/10	JWG1001843	
2-Butanone (MEK)	ND	U	10	2.5	1	05/23/10	05/23/10	JWG1001843	
Bromochloromethane	ND	U	5.0	0.67	1	05/23/10	05/23/10	JWG1001843	
Chloroform	ND	U	1.0	0.35	1	05/23/10	05/23/10	JWG1001843	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/23/10	05/23/10	JWG1001843	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/23/10	05/23/10	JWG1001843	
Benzene	ND	U	1.0	0.066	1	05/23/10	05/23/10	JWG1001843	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/23/10	05/23/10	JWG1001843	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/23/10	05/23/10	JWG1001843	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/23/10	05/23/10	JWG1001843	
Dibromomethane	ND	U	5.0	0.39	1	05/23/10	05/23/10	JWG1001843	
Bromodichloromethane	ND	U	1.0	0.19	1	05/23/10	05/23/10	JWG1001843	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/23/10	05/23/10	JWG1001843	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/23/10	05/23/10	JWG1001843	
Toluene	ND	U	1.0	0.47	1	05/23/10	05/23/10	JWG1001843	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/23/10	05/23/10	JWG1001843	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/23/10	05/23/10	JWG1001843	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/23/10	05/23/10	JWG1001843	
2-Hexanone	ND	U	25	2.1	1	05/23/10	05/23/10	JWG1001843	
Dibromochloromethane	ND	U	1.0	0.34	1	05/23/10	05/23/10	JWG1001843	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Collected: 05/12/2010
Date Received: 05/13/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-10B
Lab Code: J1002246-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/23/10	05/23/10	JWG1001843	
Chlorobenzene	ND	U	1.0	0.42	1	05/23/10	05/23/10	JWG1001843	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/23/10	05/23/10	JWG1001843	
Ethylbenzene	ND	U	1.0	0.52	1	05/23/10	05/23/10	JWG1001843	
m,p-Xylenes	ND	U	2.0	1.1	1	05/23/10	05/23/10	JWG1001843	
o-Xylene	ND	U	1.0	0.49	1	05/23/10	05/23/10	JWG1001843	
Styrene	ND	U	1.0	0.49	1	05/23/10	05/23/10	JWG1001843	
Bromoform	ND	U	2.0	0.44	1	05/23/10	05/23/10	JWG1001843	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/23/10	05/23/10	JWG1001843	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/23/10	05/23/10	JWG1001843	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/23/10	05/23/10	JWG1001843	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/23/10	05/23/10	JWG1001843	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/23/10	05/23/10	JWG1001843	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	05/23/10	05/23/10	JWG1001843	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	114	71-122	05/23/10	Acceptable
4-Bromofluorobenzene	119	75-120	05/23/10	Acceptable
Dibromofluoromethane	110	82-116	05/23/10	Acceptable
Toluene-d8	101	88-117	05/23/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Collected: 05/12/2010
Date Received: 05/13/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-11A
Lab Code: J1002246-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/23/10	05/23/10	JWG1001843	
Vinyl Chloride	**1.7**		1.0	0.16	1	05/23/10	05/23/10	JWG1001843	
Bromomethane	ND	U	1.0	0.49	1	05/23/10	05/23/10	JWG1001843	
Chloroethane	ND	U	5.0	0.68	1	05/23/10	05/23/10	JWG1001843	
Trichlorofluoromethane	ND	U	20	0.71	1	05/23/10	05/23/10	JWG1001843	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/23/10	05/23/10	JWG1001843	
Acetone	ND	U	50	5.6	1	05/23/10	05/23/10	JWG1001843	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/23/10	05/23/10	JWG1001843	
Carbon Disulfide	ND	U	10	3.1	1	05/23/10	05/23/10	JWG1001843	
Methylene Chloride	ND	U	5.0	0.45	1	05/23/10	05/23/10	JWG1001843	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/23/10	05/23/10	JWG1001843	
Acrylonitrile	ND	U	10	2.7	1	05/23/10	05/23/10	JWG1001843	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/23/10	05/23/10	JWG1001843	
Vinyl Acetate	ND	U	10	2.7	1	05/23/10	05/23/10	JWG1001843	
cis-1,2-Dichloroethene	**1.3**		1.0	0.083	1	05/23/10	05/23/10	JWG1001843	
2-Butanone (MEK)	ND	U	10	2.5	1	05/23/10	05/23/10	JWG1001843	
Bromochloromethane	ND	U	5.0	0.67	1	05/23/10	05/23/10	JWG1001843	
Chloroform	ND	U	1.0	0.35	1	05/23/10	05/23/10	JWG1001843	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/23/10	05/23/10	JWG1001843	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/23/10	05/23/10	JWG1001843	
Benzene	**8.0**		1.0	0.066	1	05/23/10	05/23/10	JWG1001843	
1,2-Dichloroethane (EDC)	**1.2**		1.0	0.30	1	05/23/10	05/23/10	JWG1001843	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/23/10	05/23/10	JWG1001843	
1,2-Dichloropropane	**0.50**	I	1.0	0.30	1	05/23/10	05/23/10	JWG1001843	
Dibromomethane	ND	U	5.0	0.39	1	05/23/10	05/23/10	JWG1001843	
Bromodichloromethane	ND	U	1.0	0.19	1	05/23/10	05/23/10	JWG1001843	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/23/10	05/23/10	JWG1001843	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/23/10	05/23/10	JWG1001843	
Toluene	ND	U	1.0	0.47	1	05/23/10	05/23/10	JWG1001843	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/23/10	05/23/10	JWG1001843	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/23/10	05/23/10	JWG1001843	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/23/10	05/23/10	JWG1001843	
2-Hexanone	ND	U	25	2.1	1	05/23/10	05/23/10	JWG1001843	
Dibromochloromethane	ND	U	1.0	0.34	1	05/23/10	05/23/10	JWG1001843	

Comments:

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Collected: 05/12/2010
Date Received: 05/13/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-11A
Lab Code: J1002246-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/23/10	05/23/10	JWG1001843	
Chlorobenzene	ND	U	1.0	0.42	1	05/23/10	05/23/10	JWG1001843	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/23/10	05/23/10	JWG1001843	
Ethylbenzene	ND	U	1.0	0.52	1	05/23/10	05/23/10	JWG1001843	
m,p-Xylenes	ND	U	2.0	1.1	1	05/23/10	05/23/10	JWG1001843	
o-Xylene	**0.68**	I	1.0	0.49	1	05/23/10	05/23/10	JWG1001843	
Styrene	ND	U	1.0	0.49	1	05/23/10	05/23/10	JWG1001843	
Bromoform	ND	U	2.0	0.44	1	05/23/10	05/23/10	JWG1001843	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/23/10	05/23/10	JWG1001843	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/23/10	05/23/10	JWG1001843	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/23/10	05/23/10	JWG1001843	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/23/10	05/23/10	JWG1001843	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/23/10	05/23/10	JWG1001843	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	05/23/10	05/23/10	JWG1001843	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	115	71-122	05/23/10	Acceptable
4-Bromofluorobenzene	123	75-120	05/23/10	Outside Control Limits
Dibromofluoromethane	110	82-116	05/23/10	Acceptable
Toluene-d8	102	88-117	05/23/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Collected: 05/12/2010
Date Received: 05/13/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-11B
Lab Code: J1002246-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/23/10	05/23/10	JWG1001843	
Vinyl Chloride	ND	U	1.0	0.16	1	05/23/10	05/23/10	JWG1001843	
Bromomethane	ND	U	1.0	0.49	1	05/23/10	05/23/10	JWG1001843	
Chloroethane	ND	U	5.0	0.68	1	05/23/10	05/23/10	JWG1001843	
Trichlorofluoromethane	ND	U	20	0.71	1	05/23/10	05/23/10	JWG1001843	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/23/10	05/23/10	JWG1001843	
Acetone	ND	U	50	5.6	1	05/23/10	05/23/10	JWG1001843	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/23/10	05/23/10	JWG1001843	
Carbon Disulfide	ND	U	10	3.1	1	05/23/10	05/23/10	JWG1001843	
Methylene Chloride	ND	U	5.0	0.45	1	05/23/10	05/23/10	JWG1001843	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/23/10	05/23/10	JWG1001843	
Acrylonitrile	ND	U	10	2.7	1	05/23/10	05/23/10	JWG1001843	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/23/10	05/23/10	JWG1001843	
Vinyl Acetate	ND	U	10	2.7	1	05/23/10	05/23/10	JWG1001843	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/23/10	05/23/10	JWG1001843	
2-Butanone (MEK)	ND	U	10	2.5	1	05/23/10	05/23/10	JWG1001843	
Bromochloromethane	ND	U	5.0	0.67	1	05/23/10	05/23/10	JWG1001843	
Chloroform	ND	U	1.0	0.35	1	05/23/10	05/23/10	JWG1001843	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/23/10	05/23/10	JWG1001843	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/23/10	05/23/10	JWG1001843	
Benzene	ND	U	1.0	0.066	1	05/23/10	05/23/10	JWG1001843	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/23/10	05/23/10	JWG1001843	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/23/10	05/23/10	JWG1001843	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/23/10	05/23/10	JWG1001843	
Dibromomethane	ND	U	5.0	0.39	1	05/23/10	05/23/10	JWG1001843	
Bromodichloromethane	ND	U	1.0	0.19	1	05/23/10	05/23/10	JWG1001843	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/23/10	05/23/10	JWG1001843	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/23/10	05/23/10	JWG1001843	
Toluene	ND	U	1.0	0.47	1	05/23/10	05/23/10	JWG1001843	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/23/10	05/23/10	JWG1001843	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/23/10	05/23/10	JWG1001843	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/23/10	05/23/10	JWG1001843	
2-Hexanone	ND	U	25	2.1	1	05/23/10	05/23/10	JWG1001843	
Dibromochloromethane	ND	U	1.0	0.34	1	05/23/10	05/23/10	JWG1001843	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002246
Project:	JED SWDF	**Date Collected:**	05/12/2010
Sample Matrix:	Water	**Date Received:**	05/13/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-11B	**Units:**	ug/L
Lab Code:	J1002246-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/23/10	05/23/10	JWG1001843	
Chlorobenzene	ND	U	1.0	0.42	1	05/23/10	05/23/10	JWG1001843	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/23/10	05/23/10	JWG1001843	
Ethylbenzene	ND	U	1.0	0.52	1	05/23/10	05/23/10	JWG1001843	
m,p-Xylenes	ND	U	2.0	1.1	1	05/23/10	05/23/10	JWG1001843	
o-Xylene	ND	U	1.0	0.49	1	05/23/10	05/23/10	JWG1001843	
Styrene	ND	U	1.0	0.49	1	05/23/10	05/23/10	JWG1001843	
Bromoform	ND	U	2.0	0.44	1	05/23/10	05/23/10	JWG1001843	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/23/10	05/23/10	JWG1001843	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/23/10	05/23/10	JWG1001843	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/23/10	05/23/10	JWG1001843	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/23/10	05/23/10	JWG1001843	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/23/10	05/23/10	JWG1001843	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	05/23/10	05/23/10	JWG1001843	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	116	71-122	05/23/10	Acceptable
4-Bromofluorobenzene	123	75-120	05/23/10	Outside Control Limits
Dibromofluoromethane	112	82-116	05/23/10	Acceptable
Toluene-d8	102	88-117	05/23/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Collected: 05/12/2010
Date Received: 05/13/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-12A
Lab Code: J1002246-005

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/24/10	05/24/10	JWG1001843	
Vinyl Chloride	ND	U	1.0	0.16	1	05/24/10	05/24/10	JWG1001843	
Bromomethane	ND	U	1.0	0.49	1	05/24/10	05/24/10	JWG1001843	
Chloroethane	ND	U	5.0	0.68	1	05/24/10	05/24/10	JWG1001843	
Trichlorofluoromethane	ND	U	20	0.71	1	05/24/10	05/24/10	JWG1001843	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/24/10	05/24/10	JWG1001843	
Acetone	ND	U	50	5.6	1	05/24/10	05/24/10	JWG1001843	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/24/10	05/24/10	JWG1001843	
Carbon Disulfide	ND	U	10	3.1	1	05/24/10	05/24/10	JWG1001843	
Methylene Chloride	ND	U	5.0	0.45	1	05/24/10	05/24/10	JWG1001843	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/24/10	05/24/10	JWG1001843	
Acrylonitrile	ND	U	10	2.7	1	05/24/10	05/24/10	JWG1001843	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/24/10	05/24/10	JWG1001843	
Vinyl Acetate	ND	U	10	2.7	1	05/24/10	05/24/10	JWG1001843	
cis-1,2-Dichloroethene	**0.36**	I	1.0	0.083	1	05/24/10	05/24/10	JWG1001843	
2-Butanone (MEK)	ND	U	10	2.5	1	05/24/10	05/24/10	JWG1001843	
Bromochloromethane	ND	U	5.0	0.67	1	05/24/10	05/24/10	JWG1001843	
Chloroform	ND	U	1.0	0.35	1	05/24/10	05/24/10	JWG1001843	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/24/10	05/24/10	JWG1001843	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/24/10	05/24/10	JWG1001843	
Benzene	**2.0**		1.0	0.066	1	05/24/10	05/24/10	JWG1001843	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/24/10	05/24/10	JWG1001843	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/24/10	05/24/10	JWG1001843	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/24/10	05/24/10	JWG1001843	
Dibromomethane	ND	U	5.0	0.39	1	05/24/10	05/24/10	JWG1001843	
Bromodichloromethane	ND	U	1.0	0.19	1	05/24/10	05/24/10	JWG1001843	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/24/10	05/24/10	JWG1001843	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/24/10	05/24/10	JWG1001843	
Toluene	ND	U	1.0	0.47	1	05/24/10	05/24/10	JWG1001843	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/24/10	05/24/10	JWG1001843	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/24/10	05/24/10	JWG1001843	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/24/10	05/24/10	JWG1001843	
2-Hexanone	ND	U	25	2.1	1	05/24/10	05/24/10	JWG1001843	
Dibromochloromethane	ND	U	1.0	0.34	1	05/24/10	05/24/10	JWG1001843	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Collected: 05/12/2010
Date Received: 05/13/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-12A
Lab Code: J1002246-005

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/24/10	05/24/10	JWG1001843	
Chlorobenzene	ND	U	1.0	0.42	1	05/24/10	05/24/10	JWG1001843	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/24/10	05/24/10	JWG1001843	
Ethylbenzene	ND	U	1.0	0.52	1	05/24/10	05/24/10	JWG1001843	
m,p-Xylenes	ND	U	2.0	1.1	1	05/24/10	05/24/10	JWG1001843	
o-Xylene	ND	U	1.0	0.49	1	05/24/10	05/24/10	JWG1001843	
Styrene	ND	U	1.0	0.49	1	05/24/10	05/24/10	JWG1001843	
Bromoform	ND	U	2.0	0.44	1	05/24/10	05/24/10	JWG1001843	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/24/10	05/24/10	JWG1001843	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/24/10	05/24/10	JWG1001843	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/24/10	05/24/10	JWG1001843	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/24/10	05/24/10	JWG1001843	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/24/10	05/24/10	JWG1001843	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	05/24/10	05/24/10	JWG1001843	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	115	71-122	05/24/10	Acceptable
4-Bromofluorobenzene	120	75-120	05/24/10	Acceptable
Dibromofluoromethane	109	82-116	05/24/10	Acceptable
Toluene-d8	102	88-117	05/24/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Collected: 05/12/2010
Date Received: 05/13/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-12B
Lab Code: J1002246-006

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/24/10	05/24/10	JWG1001843	
Vinyl Chloride	ND	U	1.0	0.16	1	05/24/10	05/24/10	JWG1001843	
Bromomethane	ND	U	1.0	0.49	1	05/24/10	05/24/10	JWG1001843	
Chloroethane	ND	U	5.0	0.68	1	05/24/10	05/24/10	JWG1001843	
Trichlorofluoromethane	ND	U	20	0.71	1	05/24/10	05/24/10	JWG1001843	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/24/10	05/24/10	JWG1001843	
Acetone	ND	U	50	5.6	1	05/24/10	05/24/10	JWG1001843	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/24/10	05/24/10	JWG1001843	
Carbon Disulfide	ND	U	10	3.1	1	05/24/10	05/24/10	JWG1001843	
Methylene Chloride	ND	U	5.0	0.45	1	05/24/10	05/24/10	JWG1001843	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/24/10	05/24/10	JWG1001843	
Acrylonitrile	ND	U	10	2.7	1	05/24/10	05/24/10	JWG1001843	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/24/10	05/24/10	JWG1001843	
Vinyl Acetate	ND	U	10	2.7	1	05/24/10	05/24/10	JWG1001843	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/24/10	05/24/10	JWG1001843	
2-Butanone (MEK)	ND	U	10	2.5	1	05/24/10	05/24/10	JWG1001843	
Bromochloromethane	ND	U	5.0	0.67	1	05/24/10	05/24/10	JWG1001843	
Chloroform	ND	U	1.0	0.35	1	05/24/10	05/24/10	JWG1001843	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/24/10	05/24/10	JWG1001843	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/24/10	05/24/10	JWG1001843	
Benzene	ND	U	1.0	0.066	1	05/24/10	05/24/10	JWG1001843	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/24/10	05/24/10	JWG1001843	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/24/10	05/24/10	JWG1001843	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/24/10	05/24/10	JWG1001843	
Dibromomethane	ND	U	5.0	0.39	1	05/24/10	05/24/10	JWG1001843	
Bromodichloromethane	ND	U	1.0	0.19	1	05/24/10	05/24/10	JWG1001843	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/24/10	05/24/10	JWG1001843	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/24/10	05/24/10	JWG1001843	
Toluene	ND	U	1.0	0.47	1	05/24/10	05/24/10	JWG1001843	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/24/10	05/24/10	JWG1001843	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/24/10	05/24/10	JWG1001843	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/24/10	05/24/10	JWG1001843	
2-Hexanone	ND	U	25	2.1	1	05/24/10	05/24/10	JWG1001843	
Dibromochloromethane	ND	U	1.0	0.34	1	05/24/10	05/24/10	JWG1001843	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Collected: 05/12/2010
Date Received: 05/13/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-12B
Lab Code: J1002246-006

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/24/10	05/24/10	JWG1001843	
Chlorobenzene	ND	U	1.0	0.42	1	05/24/10	05/24/10	JWG1001843	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/24/10	05/24/10	JWG1001843	
Ethylbenzene	ND	U	1.0	0.52	1	05/24/10	05/24/10	JWG1001843	
m,p-Xylenes	ND	U	2.0	1.1	1	05/24/10	05/24/10	JWG1001843	
o-Xylene	ND	U	1.0	0.49	1	05/24/10	05/24/10	JWG1001843	
Styrene	ND	U	1.0	0.49	1	05/24/10	05/24/10	JWG1001843	
Bromoform	ND	U	2.0	0.44	1	05/24/10	05/24/10	JWG1001843	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/24/10	05/24/10	JWG1001843	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/24/10	05/24/10	JWG1001843	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/24/10	05/24/10	JWG1001843	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/24/10	05/24/10	JWG1001843	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/24/10	05/24/10	JWG1001843	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	05/24/10	05/24/10	JWG1001843	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	114	71-122	05/24/10	Acceptable
4-Bromofluorobenzene	123	75-120	05/24/10	Outside Control Limits
Dibromofluoromethane	111	82-116	05/24/10	Acceptable
Toluene-d8	100	88-117	05/24/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Collected: 05/12/2010
Date Received: 05/13/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1002246-007

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/24/10	05/24/10	JWG1001843	
Vinyl Chloride	ND	U	1.0	0.16	1	05/24/10	05/24/10	JWG1001843	
Bromomethane	ND	U	1.0	0.49	1	05/24/10	05/24/10	JWG1001843	
Chloroethane	ND	U	5.0	0.68	1	05/24/10	05/24/10	JWG1001843	
Trichlorofluoromethane	ND	U	20	0.71	1	05/24/10	05/24/10	JWG1001843	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/24/10	05/24/10	JWG1001843	
Acetone	ND	U	50	5.6	1	05/24/10	05/24/10	JWG1001843	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/24/10	05/24/10	JWG1001843	
Carbon Disulfide	ND	U	10	3.1	1	05/24/10	05/24/10	JWG1001843	
Methylene Chloride	ND	U	5.0	0.45	1	05/24/10	05/24/10	JWG1001843	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/24/10	05/24/10	JWG1001843	
Acrylonitrile	ND	U	10	2.7	1	05/24/10	05/24/10	JWG1001843	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/24/10	05/24/10	JWG1001843	
Vinyl Acetate	ND	U	10	2.7	1	05/24/10	05/24/10	JWG1001843	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/24/10	05/24/10	JWG1001843	
2-Butanone (MEK)	ND	U	10	2.5	1	05/24/10	05/24/10	JWG1001843	
Bromochloromethane	ND	U	5.0	0.67	1	05/24/10	05/24/10	JWG1001843	
Chloroform	ND	U	1.0	0.35	1	05/24/10	05/24/10	JWG1001843	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/24/10	05/24/10	JWG1001843	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/24/10	05/24/10	JWG1001843	
Benzene	ND	U	1.0	0.066	1	05/24/10	05/24/10	JWG1001843	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/24/10	05/24/10	JWG1001843	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/24/10	05/24/10	JWG1001843	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/24/10	05/24/10	JWG1001843	
Dibromomethane	ND	U	5.0	0.39	1	05/24/10	05/24/10	JWG1001843	
Bromodichloromethane	ND	U	1.0	0.19	1	05/24/10	05/24/10	JWG1001843	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/24/10	05/24/10	JWG1001843	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/24/10	05/24/10	JWG1001843	
Toluene	ND	U	1.0	0.47	1	05/24/10	05/24/10	JWG1001843	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/24/10	05/24/10	JWG1001843	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/24/10	05/24/10	JWG1001843	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/24/10	05/24/10	JWG1001843	
2-Hexanone	ND	U	25	2.1	1	05/24/10	05/24/10	JWG1001843	
Dibromochloromethane	ND	U	1.0	0.34	1	05/24/10	05/24/10	JWG1001843	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002246
Project:	JED SWDF	**Date Collected:**	05/12/2010
Sample Matrix:	Water	**Date Received:**	05/13/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	J1002246-007	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/24/10	05/24/10	JWG1001843	
Chlorobenzene	ND	U	1.0	0.42	1	05/24/10	05/24/10	JWG1001843	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/24/10	05/24/10	JWG1001843	
Ethylbenzene	ND	U	1.0	0.52	1	05/24/10	05/24/10	JWG1001843	
m,p-Xylenes	ND	U	2.0	1.1	1	05/24/10	05/24/10	JWG1001843	
o-Xylene	ND	U	1.0	0.49	1	05/24/10	05/24/10	JWG1001843	
Styrene	ND	U	1.0	0.49	1	05/24/10	05/24/10	JWG1001843	
Bromoform	ND	U	2.0	0.44	1	05/24/10	05/24/10	JWG1001843	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/24/10	05/24/10	JWG1001843	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/24/10	05/24/10	JWG1001843	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/24/10	05/24/10	JWG1001843	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/24/10	05/24/10	JWG1001843	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/24/10	05/24/10	JWG1001843	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	05/24/10	05/24/10	JWG1001843	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	114	71-122	05/24/10	Acceptable
4-Bromofluorobenzene	119	75-120	05/24/10	Acceptable
Dibromofluoromethane	110	82-116	05/24/10	Acceptable
Toluene-d8	98	88-117	05/24/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1001843-4

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/23/10	05/23/10	JWG1001843	
Vinyl Chloride	ND	U	1.0	0.16	1	05/23/10	05/23/10	JWG1001843	
Bromomethane	ND	U	1.0	0.49	1	05/23/10	05/23/10	JWG1001843	
Chloroethane	ND	U	5.0	0.68	1	05/23/10	05/23/10	JWG1001843	
Trichlorofluoromethane	ND	U	20	0.71	1	05/23/10	05/23/10	JWG1001843	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/23/10	05/23/10	JWG1001843	
Acetone	ND	U	50	5.6	1	05/23/10	05/23/10	JWG1001843	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/23/10	05/23/10	JWG1001843	
Carbon Disulfide	ND	U	10	3.1	1	05/23/10	05/23/10	JWG1001843	
Methylene Chloride	ND	U	5.0	0.45	1	05/23/10	05/23/10	JWG1001843	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/23/10	05/23/10	JWG1001843	
Acrylonitrile	ND	U	10	2.7	1	05/23/10	05/23/10	JWG1001843	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/23/10	05/23/10	JWG1001843	
Vinyl Acetate	ND	U	10	2.7	1	05/23/10	05/23/10	JWG1001843	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/23/10	05/23/10	JWG1001843	
2-Butanone (MEK)	ND	U	10	2.5	1	05/23/10	05/23/10	JWG1001843	
Bromochloromethane	ND	U	5.0	0.67	1	05/23/10	05/23/10	JWG1001843	
Chloroform	ND	U	1.0	0.35	1	05/23/10	05/23/10	JWG1001843	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/23/10	05/23/10	JWG1001843	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/23/10	05/23/10	JWG1001843	
Benzene	ND	U	1.0	0.066	1	05/23/10	05/23/10	JWG1001843	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/23/10	05/23/10	JWG1001843	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/23/10	05/23/10	JWG1001843	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/23/10	05/23/10	JWG1001843	
Dibromomethane	ND	U	5.0	0.39	1	05/23/10	05/23/10	JWG1001843	
Bromodichloromethane	ND	U	1.0	0.19	1	05/23/10	05/23/10	JWG1001843	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/23/10	05/23/10	JWG1001843	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/23/10	05/23/10	JWG1001843	
Toluene	ND	U	1.0	0.47	1	05/23/10	05/23/10	JWG1001843	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/23/10	05/23/10	JWG1001843	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/23/10	05/23/10	JWG1001843	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/23/10	05/23/10	JWG1001843	
2-Hexanone	ND	U	25	2.1	1	05/23/10	05/23/10	JWG1001843	
Dibromochloromethane	ND	U	1.0	0.34	1	05/23/10	05/23/10	JWG1001843	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002246
Project:	JED SWDF	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG1001843-4	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/23/10	05/23/10	JWG1001843	
Chlorobenzene	ND	U	1.0	0.42	1	05/23/10	05/23/10	JWG1001843	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/23/10	05/23/10	JWG1001843	
Ethylbenzene	ND	U	1.0	0.52	1	05/23/10	05/23/10	JWG1001843	
m,p-Xylenes	ND	U	2.0	1.1	1	05/23/10	05/23/10	JWG1001843	
o-Xylene	ND	U	1.0	0.49	1	05/23/10	05/23/10	JWG1001843	
Styrene	ND	U	1.0	0.49	1	05/23/10	05/23/10	JWG1001843	
Bromoform	ND	U	2.0	0.44	1	05/23/10	05/23/10	JWG1001843	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/23/10	05/23/10	JWG1001843	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/23/10	05/23/10	JWG1001843	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/23/10	05/23/10	JWG1001843	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/23/10	05/23/10	JWG1001843	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/23/10	05/23/10	JWG1001843	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	05/23/10	05/23/10	JWG1001843	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	111	71-122	05/23/10	Acceptable
4-Bromofluorobenzene	116	75-120	05/23/10	Acceptable
Dibromofluoromethane	108	82-116	05/23/10	Acceptable
Toluene-d8	96	88-117	05/23/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002246
Project:	JED SWDF	**Date Collected:**	05/12/2010
Sample Matrix:	Water	**Date Received:**	05/13/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-10A	**Units:**	ug/L
Lab Code:	J1002246-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0071	1	05/20/10	05/22/10	JWG1001766	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0058	1	05/20/10	05/22/10	JWG1001766	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	103	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002246
Project:	JED SWDF	**Date Collected:**	05/12/2010
Sample Matrix:	Water	**Date Received:**	05/13/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-10B	**Units:**	ug/L
Lab Code:	J1002246-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0072	1	05/20/10	05/22/10	JWG1001766	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0059	1	05/20/10	05/22/10	JWG1001766	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	107	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002246
Project:	JED SWDF	**Date Collected:**	05/12/2010
Sample Matrix:	Water	**Date Received:**	05/13/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-11A	**Units:**	ug/L
Lab Code:	J1002246-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0072	1	05/20/10	05/22/10	JWG1001766	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0059	1	05/20/10	05/22/10	JWG1001766	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	104	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002246
Project:	JED SWDF	**Date Collected:**	05/12/2010
Sample Matrix:	Water	**Date Received:**	05/13/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-11B	**Units:**	ug/L
Lab Code:	J1002246-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0071	1	05/20/10	05/22/10	JWG1001766	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0058	1	05/20/10	05/22/10	JWG1001766	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	110	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002246
Project:	JED SWDF	**Date Collected:**	05/12/2010
Sample Matrix:	Water	**Date Received:**	05/13/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-12A	**Units:**	ug/L
Lab Code:	J1002246-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0072	1	05/20/10	05/22/10	JWG1001766	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0059	1	05/20/10	05/22/10	JWG1001766	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	104	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002246
Project:	JED SWDF	**Date Collected:**	05/12/2010
Sample Matrix:	Water	**Date Received:**	05/13/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-12B	**Units:**	ug/L
Lab Code:	J1002246-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0071	1	05/20/10	05/22/10	JWG1001766	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0058	1	05/20/10	05/22/10	JWG1001766	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	109	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Collected: NA
Date Received: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: Method Blank
Lab Code: JWG1001766-4

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	05/20/10	05/21/10	JWG1001766	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	05/20/10	05/21/10	JWG1001766	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	93	77-150	05/21/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Collected: 5/12/10 1320
Date Received: 5/13/10

Sample Name: MW-10A
Lab Code: J1002246-001

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/19/10	5/24/10 21:32
Arsenic, Total	6020	**1.12**		µg/L	0.50	0.14	1	5/19/10	5/24/10 21:32
Barium, Total	6020	**3.1**		µg/L	2.0	0.5	1	5/19/10	5/24/10 21:32
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/19/10	5/24/10 21:32
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/19/10	5/24/10 21:32
Chromium, Total	6020	**2.2**		µg/L	2.0	0.6	1	5/19/10	5/24/10 21:32
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	5/19/10	5/24/10 21:32
Copper, Total	6020	**0.7**	I	µg/L	2.0	0.5	1	5/19/10	5/24/10 21:32
Iron, Total	6010B	**590**		µg/L	100	10	1	5/18/10	5/19/10 14:50
Lead, Total	6020	**0.4**	I	µg/L	1.0	0.3	1	5/19/10	5/24/10 21:32
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 16:45
Nickel, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	5/19/10	5/24/10 21:32
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/19/10	5/24/10 21:32
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/19/10	5/24/10 21:32
Sodium, Total	6010B	**10.1**		mg/L	0.50	0.02	1	5/18/10	5/19/10 14:48
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/19/10	5/24/10 21:32
Vanadium, Total	6020	**1.4**	I	µg/L	5.0	1.2	1	5/19/10	5/24/10 21:32
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/19/10	5/24/10 21:32

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Collected: 5/12/10 1250
Date Received: 5/13/10

Sample Name: MW-10B
Lab Code: J1002246-002

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/19/10	5/24/10 21:37
Arsenic, Total	6020	**0.66**		µg/L	0.50	0.14	1	5/19/10	5/24/10 21:37
Barium, Total	6020	**40.1**		µg/L	2.0	0.5	1	5/19/10	5/24/10 21:37
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/19/10	5/24/10 21:37
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/19/10	5/24/10 21:37
Chromium, Total	6020	**0.7**	I	µg/L	2.0	0.6	1	5/19/10	5/24/10 21:37
Cobalt, Total	6020	**1**	I	µg/L	1.0	0.2	1	5/19/10	5/24/10 21:37
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/19/10	5/24/10 21:37
Iron, Total	6010B	**1650**		µg/L	100	10	1	5/18/10	5/19/10 14:54
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/19/10	5/24/10 21:37
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 16:55
Nickel, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	5/19/10	5/24/10 21:37
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/19/10	5/24/10 21:37
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/19/10	5/24/10 21:37
Sodium, Total	6010B	**20.5**		mg/L	0.50	0.02	1	5/18/10	5/19/10 14:53
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/19/10	5/24/10 21:37
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	5/19/10	5/24/10 21:37
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/19/10	5/24/10 21:37

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Collected: 5/12/10 1025
Date Received: 5/13/10

Sample Name: MW-11A
Lab Code: J1002246-003

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/19/10	5/24/10 21:42
Arsenic, Total	6020	**6.34**		µg/L	0.50	0.14	1	5/19/10	5/24/10 21:42
Barium, Total	6020	**26.4**		µg/L	2.0	0.5	1	5/19/10	5/24/10 21:42
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/19/10	5/24/10 21:42
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/19/10	5/24/10 21:42
Chromium, Total	6020	**2.2**		µg/L	2.0	0.6	1	5/19/10	5/24/10 21:42
Cobalt, Total	6020	**1.2**		µg/L	1.0	0.2	1	5/19/10	5/24/10 21:42
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/19/10	5/24/10 21:42
Iron, Total	6010B	**13800**		µg/L	100	10	1	5/18/10	5/19/10 14:59
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/19/10	5/24/10 21:42
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 16:57
Nickel, Total	6020	**1.9**	I	µg/L	2.0	0.3	1	5/19/10	5/24/10 21:42
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/19/10	5/24/10 21:42
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/19/10	5/24/10 21:42
Sodium, Total	6010B	**52.8**		mg/L	0.50	0.02	1	5/18/10	5/19/10 14:57
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/19/10	5/24/10 21:42
Vanadium, Total	6020	**3.8**	I	µg/L	5.0	1.2	1	5/19/10	5/24/10 21:42
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/19/10	5/24/10 21:42

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Collected: 5/12/10 1055
Date Received: 5/13/10

Sample Name: MW-11B
Lab Code: J1002246-004

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/19/10	5/24/10 21:47
Arsenic, Total	6020	**0.76**		µg/L	0.50	0.14	1	5/19/10	5/24/10 21:47
Barium, Total	6020	**18.3**		µg/L	2.0	0.5	1	5/19/10	5/24/10 21:47
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/19/10	5/24/10 21:47
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/19/10	5/24/10 21:47
Chromium, Total	6020	**2.7**		µg/L	2.0	0.6	1	5/19/10	5/24/10 21:47
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	5/19/10	5/24/10 21:47
Copper, Total	6020	**0.5**	I	µg/L	2.0	0.5	1	5/19/10	5/24/10 21:47
Iron, Total	6010B	**560**		µg/L	100	10	1	5/18/10	5/19/10 15:03
Lead, Total	6020	**0.8**	I	µg/L	1.0	0.3	1	5/19/10	5/24/10 21:47
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 16:58
Nickel, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	5/19/10	5/24/10 21:47
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/19/10	5/24/10 21:47
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/19/10	5/24/10 21:47
Sodium, Total	6010B	**13.0**		mg/L	0.50	0.02	1	5/18/10	5/19/10 15:02
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/19/10	5/24/10 21:47
Vanadium, Total	6020	**3.0**	I	µg/L	5.0	1.2	1	5/19/10	5/24/10 21:47
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/19/10	5/24/10 21:47

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Collected: 5/12/10 0758
Date Received: 5/13/10

Sample Name: MW-12A
Lab Code: J1002246-005

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/19/10	5/24/10 21:52
Arsenic, Total	6020	**1.22**		µg/L	0.50	0.14	1	5/19/10	5/24/10 21:52
Barium, Total	6020	**13.4**		µg/L	2.0	0.5	1	5/19/10	5/24/10 21:52
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/19/10	5/24/10 21:52
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/19/10	5/24/10 21:52
Chromium, Total	6020	**1.3**	I	µg/L	2.0	0.6	1	5/19/10	5/24/10 21:52
Cobalt, Total	6020	**1.1**		µg/L	1.0	0.2	1	5/19/10	5/24/10 21:52
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/19/10	5/24/10 21:52
Iron, Total	6010B	**1710**		µg/L	100	10	1	5/18/10	5/19/10 15:07
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/19/10	5/24/10 21:52
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 17:00
Nickel, Total	6020	**2.2**		µg/L	2.0	0.3	1	5/19/10	5/24/10 21:52
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/19/10	5/24/10 21:52
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/19/10	5/24/10 21:52
Sodium, Total	6010B	**10.6**		mg/L	0.50	0.02	1	5/18/10	5/19/10 15:06
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/19/10	5/24/10 21:52
Vanadium, Total	6020	**1.5**	I	µg/L	5.0	1.2	1	5/19/10	5/24/10 21:52
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/19/10	5/24/10 21:52

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Collected: 5/12/10 0830
Date Received: 5/13/10

Sample Name: MW-12B
Lab Code: J1002246-006

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/19/10	5/24/10 21:57
Arsenic, Total	6020	**0.15**	I	µg/L	0.50	0.14	1	5/19/10	5/24/10 21:57
Barium, Total	6020	**32.0**		µg/L	2.0	0.5	1	5/19/10	5/24/10 21:57
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/19/10	5/24/10 21:57
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/19/10	5/24/10 21:57
Chromium, Total	6020	**1.4**	I	µg/L	2.0	0.6	1	5/19/10	5/24/10 21:57
Cobalt, Total	6020	**0.2**	I	µg/L	1.0	0.2	1	5/19/10	5/24/10 21:57
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/19/10	5/24/10 21:57
Iron, Total	6010B	**1140**		µg/L	100	10	1	5/18/10	5/19/10 15:12
Lead, Total	6020	**0.4**	I	µg/L	1.0	0.3	1	5/19/10	5/24/10 21:57
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 17:01
Nickel, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	5/19/10	5/24/10 21:57
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/19/10	5/24/10 21:57
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/19/10	5/24/10 21:57
Sodium, Total	6010B	**8.92**		mg/L	0.50	0.02	1	5/18/10	5/19/10 15:10
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/19/10	5/24/10 21:57
Vanadium, Total	6020	**1.2**	I	µg/L	5.0	1.2	1	5/19/10	5/24/10 21:57
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/19/10	5/24/10 21:57

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: J1002246-MB

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/19/10	5/24/10 19:35
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	5/19/10	5/24/10 19:35
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	5/19/10	5/24/10 19:35
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/19/10	5/24/10 19:35
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/19/10	5/24/10 19:35
Chromium, Total	6020	ND	U	µg/L	2.0	0.6	1	5/19/10	5/24/10 19:35
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	5/19/10	5/24/10 19:35
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/19/10	5/24/10 19:35
Iron, Total	6010B	ND	U	µg/L	100	10	1	5/18/10	5/19/10 13:03
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/19/10	5/24/10 19:35
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 16:32
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	5/19/10	5/24/10 19:35
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/19/10	5/24/10 19:35
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/19/10	5/24/10 19:35
Sodium, Total	6010B	**0.04**	I	mg/L	0.50	0.02	1	5/18/10	5/19/10 13:01
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/19/10	5/24/10 19:35
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	5/19/10	5/24/10 19:35
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/19/10	5/24/10 19:35

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002246
Date Collected : 05/12/10
Date Received : 05/13/10

Inorganic Parameters

Sample Name : MW-10A
Lab Code : J1002246-001
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	0.006	1	05/17/10 14:28	7.5	J3
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/13/10 19:20	7.9	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/14/10 00:19	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/18/10 16:20	120	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002246
Date Collected : 05/12/10
Date Received : 05/13/10

Inorganic Parameters

Sample Name : MW-10B
Lab Code : J1002246-002
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	0.006	1	05/17/10 14:28	0.20	
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/13/10 19:20	42	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/14/10 00:34	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/18/10 16:20	97	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002246
Date Collected : 05/12/10
Date Received : 05/13/10

Inorganic Parameters

Sample Name : MW-11A
Lab Code : J1002246-003
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	0.006	1	05/17/10 14:28	4.8	
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/13/10 19:20	89	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/14/10 01:19	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/18/10 16:20	260	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002246
Date Collected : 05/12/10
Date Received : 05/13/10

Inorganic Parameters

Sample Name : MW-11B
Lab Code : J1002246-004
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	0.006	1	05/17/10 14:28	U	
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/13/10 19:20	14	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/14/10 01:34	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/18/10 16:20	52	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002246
Date Collected : 05/12/10
Date Received : 05/13/10

Inorganic Parameters

Sample Name : MW-12A
Lab Code : J1002246-005
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	0.006	1	05/17/10 14:28	0.30	
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/13/10 19:20	16	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/14/10 01:49	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/18/10 16:20	78	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002246
Date Collected : 05/12/10
Date Received : 05/13/10

Inorganic Parameters

Sample Name : MW-12B
Lab Code : J1002246-006
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	0.006	1	05/17/10 14:28	0.063	
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/13/10 19:20	21	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/14/10 02:04	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/18/10 16:20	59	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002246
Date Collected : NA
Date Received : NA

Inorganic Parameters

Sample Name : Method Blank
Lab Code : J1002246-MB
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	0.006	1	05/17/10 14:28	U	
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/13/10 19:20	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/13/10 19:20	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/18/10 16:20	U	

Report By:Palimi

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246

Surrogate Recovery Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2		Sur3	Sur4
MW-10A	J1002246-001	115	114		109	99
MW-10B	J1002246-002	114	119		110	101
MW-11A	J1002246-003	115	123	*	110	102
MW-11B	J1002246-004	116	123	*	112	102
MW-12A	J1002246-005	115	120		109	102
MW-12B	J1002246-006	114	123	*	111	100
Trip Blank	J1002246-007	114	119		110	98
Method Blank	JWG1001843-4	111	116		108	96
MW-10BMS	JWG1001843-1	113	114		113	101
MW-10BDMS	JWG1001843-2	120	108		112	97
Lab Control Sample	JWG1001843-3	110	113		108	99

Surrogate Recovery Control Limits (%)

Sur1 =	1,2-Dichloroethane-d4	71-122
Sur2 =	4-Bromofluorobenzene	75-120
Sur3 =	Dibromofluoromethane	82-116
Sur4 =	Toluene-d8	88-117

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002246
Project:	JED SWDF	**Date Extracted:**	05/24/2010
Sample Matrix:	Water	**Date Analyzed:**	05/24/2010

Matrix Spike/Duplicate Matrix Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-10B	**Units:**	ug/L
Lab Code:	J1002246-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	JWG1001843

		MW-10BMS JWG1001843-1 Matrix Spike			MW-10BDMS JWG1001843-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Chloromethane	ND	22.5	20.0	113	23.4	20.0	117	73-139	4	30
Vinyl Chloride	ND	24.9	20.0	124	25.9	20.0	130	78-141	4	30
Bromomethane	ND	23.3	20.0	116	24.0	20.0	120	78-129	3	30
Chloroethane	ND	23.2	20.0	116	24.0	20.0	120	76-129	3	30
Trichlorofluoromethane	ND	26.3	20.0	131	27.4	20.0	137 *	81-133	4	30
1,1-Dichloroethene	ND	24.8	20.0	124	25.8	20.0	129	79-133	4	30
Acetone	ND	106	100	106	112	100	112	56-139	6	30
Iodomethane (Methyl Iodide)	ND	118	100	118	123	100	123	74-134	5	30
Carbon Disulfide	ND	118	100	118	122	100	122	71-146	4	30
Methylene Chloride	ND	23.2	20.0	116	24.5	20.0	122	75-123	6	30
trans-1,2-Dichloroethene	ND	24.6	20.0	123	24.9	20.0	124	76-125	1	30
Acrylonitrile	ND	126	100	126	125	100	125	68-131	0	30
1,1-Dichloroethane	ND	24.7	20.0	123	25.7	20.0	129 *	78-125	4	30
Vinyl Acetate	ND	87.4	100	87	88.9	100	89	43-163	2	30
cis-1,2-Dichloroethene	ND	23.4	20.0	117	24.8	20.0	124	75-127	6	30
2-Butanone (MEK)	ND	113	100	113	121	100	121	63-134	7	30
Bromochloromethane	ND	24.1	20.0	121	24.1	20.0	120	80-124	0	30
Chloroform	ND	24.0	20.0	120	25.1	20.0	125 *	81-124	4	30
1,1,1-Trichloroethane (TCA)	ND	25.9	20.0	130	26.6	20.0	133 *	76-130	2	30
Carbon Tetrachloride	ND	26.2	20.0	131	26.8	20.0	134 *	76-131	2	30
Benzene	ND	22.9	20.0	115	24.4	20.0	122	78-123	6	30
1,2-Dichloroethane (EDC)	ND	27.8	20.0	139 *	25.4	20.0	127 *	74-126	9	30
Trichloroethene (TCE)	ND	21.1	20.0	105	21.8	20.0	109	77-128	3	30
1,2-Dichloropropane	ND	24.5	20.0	123 *	25.3	20.0	127 *	77-122	3	30
Dibromomethane	ND	25.1	20.0	125 *	25.2	20.0	126 *	78-124	0	30
Bromodichloromethane	ND	24.0	20.0	120	23.9	20.0	120	79-125	0	30
cis-1,3-Dichloropropene	ND	19.1	20.0	95	18.2	20.0	91	77-117	5	30
4-Methyl-2-pentanone (MIBK)	ND	103	100	103	102	100	102	65-138	1	30
Toluene	ND	20.0	20.0	100	21.0	20.0	105	86-119	5	30
trans-1,3-Dichloropropene	ND	19.1	20.0	96	17.3	20.0	87	75-120	10	30
1,1,2-Trichloroethane	ND	21.9	20.0	110	21.7	20.0	108	77-124	1	30
Tetrachloroethene (PCE)	ND	18.0	20.0	90	19.0	20.0	95	79-123	6	30
2-Hexanone	ND	98.8	100	99	99.2	100	99	63-142	0	30
Dibromochloromethane	ND	21.0	20.0	105	20.3	20.0	102	78-124	3	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002246
Project:	JED SWDF	**Date Extracted:**	05/24/2010
Sample Matrix:	Water	**Date Analyzed:**	05/24/2010

Matrix Spike/Duplicate Matrix Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-10B	**Units:**	ug/L
Lab Code:	J1002246-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	JWG1001843

		MW-10BMS JWG1001843-1 Matrix Spike			MW-10BDMS JWG1001843-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,2-Dibromoethane (EDB)	ND	21.8	20.0	109	22.0	20.0	110	81-119	1	30
Chlorobenzene	ND	19.8	20.0	99	20.9	20.0	105	81-120	6	30
1,1,1,2-Tetrachloroethane	ND	19.6	20.0	98	19.6	20.0	98	82-118	0	30
Ethylbenzene	ND	20.6	20.0	103	21.5	20.0	107	87-122	4	30
m,p-Xylenes	ND	42.3	40.0	106	43.0	40.0	108	82-120	2	30
o-Xylene	ND	21.6	20.0	108	22.3	20.0	111	85-119	3	30
Styrene	ND	19.6	20.0	98	19.5	20.0	97	84-126	1	30
Bromoform	ND	20.0	20.0	100	17.9	20.0	90	70-129	11	30
1,1,2,2-Tetrachloroethane	ND	21.6	20.0	108	21.0	20.0	105	72-127	3	30
1,2,3-Trichloropropane	ND	21.2	20.0	106	21.3	20.0	107	76-123	0	30
1,4-Dichlorobenzene	ND	20.2	20.0	101	21.1	20.0	106	75-115	4	30
trans-1,4-Dichloro-2-butene	ND	ND	20.0	0 *	ND	20.0	0 *	22-135		30
1,2-Dichlorobenzene	ND	19.5	20.0	97	21.2	20.0	106	77-116	9	30
1,2-Dibromo-3-chloropropane (DBCP	ND	19.2	20.0	96	21.1	20.0	106	54-120	10	30

Results flagged with an asterisk (*) indicate values outside control criteria.

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Extracted: 05/23/2010
Date Analyzed: 05/23/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1001843

	Lab Control Sample JWG1001843-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Chloromethane	21.0	20.0	105	67-135
Vinyl Chloride	20.6	20.0	103	78-132
Bromomethane	21.6	20.0	108	79-130
Chloroethane	19.7	20.0	98	74-126
Trichlorofluoromethane	21.0	20.0	105	74-134
1,1-Dichloroethene	21.2	20.0	106	78-130
Acetone	78.5	100	78	67-133
Iodomethane (Methyl Iodide)	105	100	105	68-134
Carbon Disulfide	101	100	101	76-138
Methylene Chloride	21.1	20.0	105	72-124
trans-1,2-Dichloroethene	21.6	20.0	108	77-124
Acrylonitrile	113	100	113	77-127
1,1-Dichloroethane	21.7	20.0	108	80-128
Vinyl Acetate	103	100	103	61-148
cis-1,2-Dichloroethene	21.2	20.0	106	80-126
2-Butanone (MEK)	99.9	100	100	73-127
Bromochloromethane	20.8	20.0	104	79-129
Chloroform	21.3	20.0	107	83-124
1,1,1-Trichloroethane (TCA)	21.8	20.0	109	79-124
Carbon Tetrachloride	22.4	20.0	112	81-125
Benzene	20.6	20.0	103	79-119
1,2-Dichloroethane (EDC)	22.9	20.0	114	80-124
Trichloroethene (TCE)	18.7	20.0	94	76-124
1,2-Dichloropropane	22.1	20.0	111	79-123
Dibromomethane	21.3	20.0	107	83-123
Bromodichloromethane	21.6	20.0	108	81-123
cis-1,3-Dichloropropene	19.5	20.0	98	86-123
4-Methyl-2-pentanone (MIBK)	89.9	100	90	72-136
Toluene	18.5	20.0	92	86-117
trans-1,3-Dichloropropene	20.6	20.0	103	83-124
1,1,2-Trichloroethane	20.0	20.0	100	86-114
Tetrachloroethene (PCE)	16.0	20.0	80	80-121
2-Hexanone	85.9	100	86	71-138
Dibromochloromethane	19.9	20.0	100	82-121
1,2-Dibromoethane (EDB)	19.7	20.0	98	88-117
Chlorobenzene	18.4	20.0	92	86-113

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Extracted: 05/23/2010
Date Analyzed: 05/23/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1001843

	Lab Control Sample JWG1001843-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,1,1,2-Tetrachloroethane	17.7	20.0	89	85-117
Ethylbenzene	18.7	20.0	94	90-118
m,p-Xylenes	37.4	40.0	93	86-121
o-Xylene	19.9	20.0	99	89-119
Styrene	19.1	20.0	95	89-122
Bromoform	19.1	20.0	96	68-129
1,1,2,2-Tetrachloroethane	19.0	20.0	95	83-120
1,2,3-Trichloropropane	19.9	20.0	100	83-123
1,4-Dichlorobenzene	18.9	20.0	95	83-113
trans-1,4-Dichloro-2-butene	22.9	20.0	115	53-143
1,2-Dichlorobenzene	18.5	20.0	93	84-115
1,2-Dibromo-3-chloropropane (DBCP	18.0	20.0	90	62-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246

Surrogate Recovery Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
MW-10A	J1002246-001	103
MW-10B	J1002246-002	107
MW-11A	J1002246-003	104
MW-11B	J1002246-004	110
MW-12A	J1002246-005	104
MW-12B	J1002246-006	109
Method Blank	JWG1001766-4	93
Lab Control Sample	JWG1001766-3	104

Surrogate Recovery Control Limits (%)

Sur1 = 1,1,1,2-Tetrachloroethane 77-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002246
Project:	JED SWDF	**Date Extracted:**	05/20/2010
Sample Matrix:	Water	**Date Analyzed:**	05/21/2010

Lab Control Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	8011	**Basis:**	NA
		Level:	Low
		Extraction Lot:	JWG1001766

	Lab Control Sample JWG1001766-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,2-Dibromoethane (EDB)	0.0141	0.0143	99	70-130
1,2-Dibromo-3-chloropropane (DBCP	0.0134	0.0143	94	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Collected: 5/12/10
Date Received: 5/13/10
Date Analyzed: 5/24/10

Matrix Spike Summary
Mercury, Total in Liquid Waste (Manual Cold-Vapor Technique)

Sample Name: MW-10A
Lab Code: J1002246-001

Units: µg/L
Basis: NA

Analytical Method: 7470A
Prep Method: Method

Analyte Name	Sample Result	Matrix Spike J1002246-MS Result	Matrix Spike J1002246-MS Amount	Matrix Spike J1002246-MS % Rec	Duplicate Matrix Spike J1002246-DMS Result	Duplicate Matrix Spike J1002246-DMS Amount	Duplicate Matrix Spike J1002246-DMS % Rec	% Rec Limits	RPD	RPD Limit
Mercury, Total	ND	5.07	5.00	101	4.83	5.00	97	75 - 125	5	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Analyzed: 5/19/10 - 5/24/10

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1002246-LCS Result	Expected	% Rec	% Rec Limits
Antimony, Total	6020	**48.4**	50.0	97	80 - 120
Arsenic, Total	6020	**46.2**	50.0	92	80 - 120
Barium, Total	6020	**51.5**	50.0	103	80 - 120
Beryllium, Total	6020	**47.6**	50.0	95	80 - 120
Cadmium, Total	6020	**47.8**	50.0	96	80 - 120
Chromium, Total	6020	**49.8**	50.0	100	80 - 120
Cobalt, Total	6020	**50.1**	50.0	100	80 - 120
Copper, Total	6020	**49.3**	50.0	99	80 - 120
Iron, Total	6010B	**2020**	2000	101	80 - 120
Lead, Total	6020	**51.9**	50.0	104	80 - 120
Mercury, Total	7470A	**5.22**	5.00	104	80 - 120
Nickel, Total	6020	**49.3**	50.0	99	80 - 120
Selenium, Total	6020	**43.1**	50.0	86	80 - 120
Silver, Total	6020	**50.9**	50.0	102	80 - 120
Thallium, Total	6020	**51.1**	50.0	102	80 - 120
Vanadium, Total	6020	**49.7**	50.0	99	80 - 120
Zinc, Total	6020	**90.6**	100	91	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002246
Date Analyzed: 5/19/10

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1002246-LCS Result	Expected	% Rec	% Rec Limits
Sodium, Total	6010B	**10.3**	10.0	103	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002246
Date Collected : 05/12/10
Date Received : 05/13/10
Date Extracted : NA
Date Analyzed : 05/17,18/10

Duplicate Summary
Inorganic Parameters

Sample Name : MW-10A
Lab Code : J1002246-001DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	7.5	7.4	7.45	1	J3
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	120	120	120	<1	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002246
Date Collected : 05/12/10
Date Received : 05/13/10
Date Extracted : NA
Date Analyzed : 05/17/10

Matrix Spike Summary
Inorganic Parameters

Sample Name : MW-10A
Lab Code : J1002246-001MS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	1.00	7.5	8.61	111	90-110	J3

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Environmental Planning Specialists	**Service Request :**	J1002246
Project Name :	JED SWDF	**Date Collected :**	NA
Project Number :	NA	**Date Received :**	NA
Sample Matrix :	WATER	**Date Extracted :**	NA
		Date Analyzed :	05/13-18/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Laboratory Control Sample
Lab Code : J1002246-LCS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	1.00	0.952	95	90-110	
Chloride	mg/L (ppm)	300.0	50	48.8	98	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	4.77	95	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	300	287	96	85-115	

Report By:Palimi

Columbia Analytical Services, Inc.
Cooler Receipt Form

Client: JED SWDF | Service Request #: J1002246

Project: EPS 9S105113110

Cooler received on 5/13/10 and opened on 5/13/10 by 840

COURIER: CAS (UPS) FEDEX Client Other _____ Airbill # 1ZX5W0982210004137

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 4 +/- 2 degrees C)	4.0			
5	Thermometer ID	116			
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	BUBBLEWRAP			
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 VOA vials checked for absence 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

SR # : J 1002246

Date: 5/13/10

Initials: SRO

Jacksonville Laboratory
Condition Upon Receipt - Sample pH

Note that pH is check and meets the required pH criterion listed in the column heading unless otherwise noted on the cooler receipt form.

	Bottle Code																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	40mL	40mL	40mL	125mL	125mL	125mL	125mL	250mL	250mL	250mL	250mL	250mL	250mL	250mL	500mL	500mL	500mL	500mL	500mL	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	100ml	Ziplock	Misc.
Container	G	G	G	P	P	P	P	P	P	P	P	P	G	G	P	P	P	P	G	P	P	G	G	G	G	G	G	G	P	P	Misc.
Pres.		HCl	Na2S2O3		HCl	H2SO4	HNO3		H2SO4	HNO3	ZnAc2 NaOH	NaOH		HNO3		HCl	H2SO4	HNO3			HNO3		HCl	H2SO4					Sodium Thiosulfate		
Req. pH	N/A	<2	N/A	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	<2	N/A	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A		N/A
Sample #	-	-		-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-		-				-	-		-
-001	3	3				1	1	1																							-001
-002	1	1				1	1	1																							-002
-003	1	1				1	1	1																							-003
-004	1	1				1	1	1																							-004
-005	1	1				1	1	1																							-005
-006	1	1				1	1	1																							-006
-007		1																													-007
-008																															-008
-009																															-009
-010																															-010
-011																															-011
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-038																															-038
-039																															-039
-040																															-040

NOTE: VOA pH checks are performed by the analytical area, not sample control

Columbia Analytical Services™

www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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

PAGE 1 OF 1

SR # 5100246

CAS Contact

Project Name: JED SWDF	Project Number:
Project Manager: Kirk Wills	Email Address: kwills@enviplanning.com
Company/Address: EPS 1936 Bruce B Downs Blvd #328 Wesley Chapel, FL 33543	
Phone #: 813-388-1026	FAX#:
Sampler's Signature: Joe Terry	Sampler's Printed Name: Joe Terry

ANALYSIS REQUESTED (Include Method Number and [redacted]

PRESERVATIVE: 1 0 2 3 0

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	8260	8011	metals	NH3	TDS, Cl, NO3										REMARKS/ ALTERNATE DESCRIPTION
MW-10A		5.12.10	1320	GW	9	3	3	1	1	1										
MW-10B		↓	1250	GW	9	3	3	1	1	1										
MW-11A			1025	GW	9	3	3	1	1	1										
MW-11B			1055	GW	9	3	3	1	1	1										
MW-12A		↓	0758	GW	9	3	3	1	1	1										
MW-12B		5.12.10	0830	GW	9	3	3	1	1	1										
Trip Blank		5.4.10	0730	DI H_2O	1	1														

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: 10132-JED-1

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: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
59					
Signature: Joe Terry	Signature:	Signature:	Signature: [signature]	Signature:	Signature:
Printed Name: Joe Terry	Printed Name: UPS	Printed Name: UPS	Printed Name: Summer Rostram	Printed Name:	Printed Name:
Firm: EPS	Firm:	Firm:	Firm: CAS	Firm:	Firm:
Date/Time: 5.12.10/1615	Date/Time:	Date/Time:	Date/Time: 5/13/10 0920	Date/Time:	Date/Time:

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

JSCOC-06/20/08

Columbia Analytical Services™ 9143 Philips Highway, Suite 200 | Jacksonville, FL 32256 | 904-739-2277 | 904-739-2011 fax | www.caslab.com

May 28, 2010 Service Request No: J1002277

Kirk Wills
Environmental Planning Specialists
1936 Bruce B Downs Blvd
#328
Wesley Chapel, FL 33543

Laboratory Results for: JED SWDF

Dear Kirk:

Enclosed are the results of the sample(s) submitted to our laboratory on May 14, 2010. For your reference, these analyses have been assigned our service request number **J1002277**.

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.

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

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502. Other state accreditations include: Georgia, #958; Kentucky, #63; Louisiana, #02086; North Carolina, #527; South Carolina, #96021001; Texas, #T104704197-09-TX.

Florida DEP Data Qualifiers

B Results based upon colony counts outside the acceptable range.

D Measurement was made in the field.

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 practical quantitation limit.

J Estimated value (one of the following reasons is discussed in the project case narrative).
1. The result may be inaccurate because the surrogate recovery limits have been exceeded.
2. No known quality control criteria exists for the component.
3. The reported value failed to meet the established quality control criteria for either precision or accuracy.
4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD).
5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).

K Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).

L Off scale high. The analyte is above the upper limit of the linear calibration range.

M The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.

N Presumptive evidence of the analyte. Confirmation was not performed.

Q Sample held beyond the accepted holding time.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.

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.

Y The laboratory analysis was from an improperly preserved sample.

Z Too many colonies were present (TNTC). 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: Environmental Planning Specialists
Project: JED SWDF

Service Request: J1002277

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J1002277-001	SW-3	5/14/10	10:45
J1002277-002	SW-4	5/14/10	10:10
J1002277-003	Trip Blank	5/14/10	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002277
Date Collected: 05/14/2010
Date Received: 05/14/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: SW-3
Lab Code: J1002277-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/24/10	05/24/10	JWG1001843	
Vinyl Chloride	ND	U	1.0	0.16	1	05/24/10	05/24/10	JWG1001843	
Bromomethane	ND	U	1.0	0.49	1	05/24/10	05/24/10	JWG1001843	
Chloroethane	ND	U	5.0	0.68	1	05/24/10	05/24/10	JWG1001843	
Trichlorofluoromethane	ND	U	20	0.71	1	05/24/10	05/24/10	JWG1001843	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/24/10	05/24/10	JWG1001843	
Acetone	ND	U	50	5.6	1	05/24/10	05/24/10	JWG1001843	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/24/10	05/24/10	JWG1001843	
Carbon Disulfide	ND	U	10	3.1	1	05/24/10	05/24/10	JWG1001843	
Methylene Chloride	ND	U	5.0	0.45	1	05/24/10	05/24/10	JWG1001843	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/24/10	05/24/10	JWG1001843	
Acrylonitrile	ND	U	10	2.7	1	05/24/10	05/24/10	JWG1001843	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/24/10	05/24/10	JWG1001843	
Vinyl Acetate	ND	U	10	2.7	1	05/24/10	05/24/10	JWG1001843	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/24/10	05/24/10	JWG1001843	
2-Butanone (MEK)	ND	U	10	2.5	1	05/24/10	05/24/10	JWG1001843	
Bromochloromethane	ND	U	5.0	0.67	1	05/24/10	05/24/10	JWG1001843	
Chloroform	ND	U	1.0	0.35	1	05/24/10	05/24/10	JWG1001843	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/24/10	05/24/10	JWG1001843	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/24/10	05/24/10	JWG1001843	
Benzene	ND	U	1.0	0.066	1	05/24/10	05/24/10	JWG1001843	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/24/10	05/24/10	JWG1001843	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/24/10	05/24/10	JWG1001843	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/24/10	05/24/10	JWG1001843	
Dibromomethane	ND	U	5.0	0.39	1	05/24/10	05/24/10	JWG1001843	
Bromodichloromethane	ND	U	1.0	0.19	1	05/24/10	05/24/10	JWG1001843	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/24/10	05/24/10	JWG1001843	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/24/10	05/24/10	JWG1001843	
Toluene	ND	U	1.0	0.47	1	05/24/10	05/24/10	JWG1001843	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/24/10	05/24/10	JWG1001843	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/24/10	05/24/10	JWG1001843	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/24/10	05/24/10	JWG1001843	
2-Hexanone	ND	U	25	2.1	1	05/24/10	05/24/10	JWG1001843	
Dibromochloromethane	ND	U	1.0	0.34	1	05/24/10	05/24/10	JWG1001843	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002277
Date Collected: 05/14/2010
Date Received: 05/14/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: SW-3
Lab Code: J1002277-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/24/10	05/24/10	JWG1001843	
Chlorobenzene	ND	U	1.0	0.42	1	05/24/10	05/24/10	JWG1001843	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/24/10	05/24/10	JWG1001843	
Ethylbenzene	ND	U	1.0	0.52	1	05/24/10	05/24/10	JWG1001843	
m,p-Xylenes	ND	U	2.0	1.1	1	05/24/10	05/24/10	JWG1001843	
o-Xylene	ND	U	1.0	0.49	1	05/24/10	05/24/10	JWG1001843	
Styrene	ND	U	1.0	0.49	1	05/24/10	05/24/10	JWG1001843	
Bromoform	ND	U	2.0	0.44	1	05/24/10	05/24/10	JWG1001843	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/24/10	05/24/10	JWG1001843	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/24/10	05/24/10	JWG1001843	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/24/10	05/24/10	JWG1001843	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/24/10	05/24/10	JWG1001843	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/24/10	05/24/10	JWG1001843	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	05/24/10	05/24/10	JWG1001843	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	112	71-122	05/24/10	Acceptable
4-Bromofluorobenzene	115	75-120	05/24/10	Acceptable
Dibromofluoromethane	108	82-116	05/24/10	Acceptable
Toluene-d8	102	88-117	05/24/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002277
Date Collected: 05/14/2010
Date Received: 05/14/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: SW-4
Lab Code: J1002277-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/24/10	05/24/10	JWG1001843	
Vinyl Chloride	ND	U	1.0	0.16	1	05/24/10	05/24/10	JWG1001843	
Bromomethane	ND	U	1.0	0.49	1	05/24/10	05/24/10	JWG1001843	
Chloroethane	ND	U	5.0	0.68	1	05/24/10	05/24/10	JWG1001843	
Trichlorofluoromethane	ND	U	20	0.71	1	05/24/10	05/24/10	JWG1001843	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/24/10	05/24/10	JWG1001843	
Acetone	ND	U	50	5.6	1	05/24/10	05/24/10	JWG1001843	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/24/10	05/24/10	JWG1001843	
Carbon Disulfide	ND	U	10	3.1	1	05/24/10	05/24/10	JWG1001843	
Methylene Chloride	ND	U	5.0	0.45	1	05/24/10	05/24/10	JWG1001843	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/24/10	05/24/10	JWG1001843	
Acrylonitrile	ND	U	10	2.7	1	05/24/10	05/24/10	JWG1001843	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/24/10	05/24/10	JWG1001843	
Vinyl Acetate	ND	U	10	2.7	1	05/24/10	05/24/10	JWG1001843	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/24/10	05/24/10	JWG1001843	
2-Butanone (MEK)	ND	U	10	2.5	1	05/24/10	05/24/10	JWG1001843	
Bromochloromethane	ND	U	5.0	0.67	1	05/24/10	05/24/10	JWG1001843	
Chloroform	ND	U	1.0	0.35	1	05/24/10	05/24/10	JWG1001843	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/24/10	05/24/10	JWG1001843	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/24/10	05/24/10	JWG1001843	
Benzene	ND	U	1.0	0.066	1	05/24/10	05/24/10	JWG1001843	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/24/10	05/24/10	JWG1001843	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/24/10	05/24/10	JWG1001843	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/24/10	05/24/10	JWG1001843	
Dibromomethane	ND	U	5.0	0.39	1	05/24/10	05/24/10	JWG1001843	
Bromodichloromethane	ND	U	1.0	0.19	1	05/24/10	05/24/10	JWG1001843	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/24/10	05/24/10	JWG1001843	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/24/10	05/24/10	JWG1001843	
Toluene	ND	U	1.0	0.47	1	05/24/10	05/24/10	JWG1001843	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/24/10	05/24/10	JWG1001843	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/24/10	05/24/10	JWG1001843	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/24/10	05/24/10	JWG1001843	
2-Hexanone	ND	U	25	2.1	1	05/24/10	05/24/10	JWG1001843	
Dibromochloromethane	ND	U	1.0	0.34	1	05/24/10	05/24/10	JWG1001843	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002277
Date Collected: 05/14/2010
Date Received: 05/14/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: SW-4
Lab Code: J1002277-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/24/10	05/24/10	JWG1001843	
Chlorobenzene	ND	U	1.0	0.42	1	05/24/10	05/24/10	JWG1001843	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/24/10	05/24/10	JWG1001843	
Ethylbenzene	ND	U	1.0	0.52	1	05/24/10	05/24/10	JWG1001843	
m,p-Xylenes	ND	U	2.0	1.1	1	05/24/10	05/24/10	JWG1001843	
o-Xylene	ND	U	1.0	0.49	1	05/24/10	05/24/10	JWG1001843	
Styrene	ND	U	1.0	0.49	1	05/24/10	05/24/10	JWG1001843	
Bromoform	ND	U	2.0	0.44	1	05/24/10	05/24/10	JWG1001843	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/24/10	05/24/10	JWG1001843	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/24/10	05/24/10	JWG1001843	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/24/10	05/24/10	JWG1001843	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/24/10	05/24/10	JWG1001843	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/24/10	05/24/10	JWG1001843	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	05/24/10	05/24/10	JWG1001843	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	114	71-122	05/24/10	Acceptable
4-Bromofluorobenzene	117	75-120	05/24/10	Acceptable
Dibromofluoromethane	112	82-116	05/24/10	Acceptable
Toluene-d8	103	88-117	05/24/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002277
Date Collected: 05/14/2010
Date Received: 05/14/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1002277-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/24/10	05/24/10	JWG1001843	
Vinyl Chloride	ND	U	1.0	0.16	1	05/24/10	05/24/10	JWG1001843	
Bromomethane	ND	U	1.0	0.49	1	05/24/10	05/24/10	JWG1001843	
Chloroethane	ND	U	5.0	0.68	1	05/24/10	05/24/10	JWG1001843	
Trichlorofluoromethane	ND	U	20	0.71	1	05/24/10	05/24/10	JWG1001843	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/24/10	05/24/10	JWG1001843	
Acetone	ND	U	50	5.6	1	05/24/10	05/24/10	JWG1001843	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/24/10	05/24/10	JWG1001843	
Carbon Disulfide	ND	U	10	3.1	1	05/24/10	05/24/10	JWG1001843	
Methylene Chloride	ND	U	5.0	0.45	1	05/24/10	05/24/10	JWG1001843	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/24/10	05/24/10	JWG1001843	
Acrylonitrile	ND	U	10	2.7	1	05/24/10	05/24/10	JWG1001843	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/24/10	05/24/10	JWG1001843	
Vinyl Acetate	ND	U	10	2.7	1	05/24/10	05/24/10	JWG1001843	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/24/10	05/24/10	JWG1001843	
2-Butanone (MEK)	ND	U	10	2.5	1	05/24/10	05/24/10	JWG1001843	
Bromochloromethane	ND	U	5.0	0.67	1	05/24/10	05/24/10	JWG1001843	
Chloroform	ND	U	1.0	0.35	1	05/24/10	05/24/10	JWG1001843	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/24/10	05/24/10	JWG1001843	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/24/10	05/24/10	JWG1001843	
Benzene	ND	U	1.0	0.066	1	05/24/10	05/24/10	JWG1001843	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/24/10	05/24/10	JWG1001843	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/24/10	05/24/10	JWG1001843	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/24/10	05/24/10	JWG1001843	
Dibromomethane	ND	U	5.0	0.39	1	05/24/10	05/24/10	JWG1001843	
Bromodichloromethane	ND	U	1.0	0.19	1	05/24/10	05/24/10	JWG1001843	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/24/10	05/24/10	JWG1001843	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/24/10	05/24/10	JWG1001843	
Toluene	ND	U	1.0	0.47	1	05/24/10	05/24/10	JWG1001843	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/24/10	05/24/10	JWG1001843	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/24/10	05/24/10	JWG1001843	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/24/10	05/24/10	JWG1001843	
2-Hexanone	ND	U	25	2.1	1	05/24/10	05/24/10	JWG1001843	
Dibromochloromethane	ND	U	1.0	0.34	1	05/24/10	05/24/10	JWG1001843	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002277
Project:	JED SWDF	**Date Collected:**	05/14/2010
Sample Matrix:	Water	**Date Received:**	05/14/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	J1002277-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/24/10	05/24/10	JWG1001843	
Chlorobenzene	ND	U	1.0	0.42	1	05/24/10	05/24/10	JWG1001843	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/24/10	05/24/10	JWG1001843	
Ethylbenzene	ND	U	1.0	0.52	1	05/24/10	05/24/10	JWG1001843	
m,p-Xylenes	ND	U	2.0	1.1	1	05/24/10	05/24/10	JWG1001843	
o-Xylene	ND	U	1.0	0.49	1	05/24/10	05/24/10	JWG1001843	
Styrene	ND	U	1.0	0.49	1	05/24/10	05/24/10	JWG1001843	
Bromoform	ND	U	2.0	0.44	1	05/24/10	05/24/10	JWG1001843	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/24/10	05/24/10	JWG1001843	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/24/10	05/24/10	JWG1001843	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/24/10	05/24/10	JWG1001843	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/24/10	05/24/10	JWG1001843	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/24/10	05/24/10	JWG1001843	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	05/24/10	05/24/10	JWG1001843	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	117	71-122	05/24/10	Acceptable
4-Bromofluorobenzene	119	75-120	05/24/10	Acceptable
Dibromofluoromethane	110	82-116	05/24/10	Acceptable
Toluene-d8	99	88-117	05/24/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002277
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1001843-4

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/23/10	05/23/10	JWG1001843	
Vinyl Chloride	ND	U	1.0	0.16	1	05/23/10	05/23/10	JWG1001843	
Bromomethane	ND	U	1.0	0.49	1	05/23/10	05/23/10	JWG1001843	
Chloroethane	ND	U	5.0	0.68	1	05/23/10	05/23/10	JWG1001843	
Trichlorofluoromethane	ND	U	20	0.71	1	05/23/10	05/23/10	JWG1001843	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/23/10	05/23/10	JWG1001843	
Acetone	ND	U	50	5.6	1	05/23/10	05/23/10	JWG1001843	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/23/10	05/23/10	JWG1001843	
Carbon Disulfide	ND	U	10	3.1	1	05/23/10	05/23/10	JWG1001843	
Methylene Chloride	ND	U	5.0	0.45	1	05/23/10	05/23/10	JWG1001843	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/23/10	05/23/10	JWG1001843	
Acrylonitrile	ND	U	10	2.7	1	05/23/10	05/23/10	JWG1001843	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/23/10	05/23/10	JWG1001843	
Vinyl Acetate	ND	U	10	2.7	1	05/23/10	05/23/10	JWG1001843	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/23/10	05/23/10	JWG1001843	
2-Butanone (MEK)	ND	U	10	2.5	1	05/23/10	05/23/10	JWG1001843	
Bromochloromethane	ND	U	5.0	0.67	1	05/23/10	05/23/10	JWG1001843	
Chloroform	ND	U	1.0	0.35	1	05/23/10	05/23/10	JWG1001843	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/23/10	05/23/10	JWG1001843	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/23/10	05/23/10	JWG1001843	
Benzene	ND	U	1.0	0.066	1	05/23/10	05/23/10	JWG1001843	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/23/10	05/23/10	JWG1001843	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/23/10	05/23/10	JWG1001843	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/23/10	05/23/10	JWG1001843	
Dibromomethane	ND	U	5.0	0.39	1	05/23/10	05/23/10	JWG1001843	
Bromodichloromethane	ND	U	1.0	0.19	1	05/23/10	05/23/10	JWG1001843	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/23/10	05/23/10	JWG1001843	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/23/10	05/23/10	JWG1001843	
Toluene	ND	U	1.0	0.47	1	05/23/10	05/23/10	JWG1001843	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/23/10	05/23/10	JWG1001843	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/23/10	05/23/10	JWG1001843	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/23/10	05/23/10	JWG1001843	
2-Hexanone	ND	U	25	2.1	1	05/23/10	05/23/10	JWG1001843	
Dibromochloromethane	ND	U	1.0	0.34	1	05/23/10	05/23/10	JWG1001843	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002277
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1001843-4

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/23/10	05/23/10	JWG1001843	
Chlorobenzene	ND	U	1.0	0.42	1	05/23/10	05/23/10	JWG1001843	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/23/10	05/23/10	JWG1001843	
Ethylbenzene	ND	U	1.0	0.52	1	05/23/10	05/23/10	JWG1001843	
m,p-Xylenes	ND	U	2.0	1.1	1	05/23/10	05/23/10	JWG1001843	
o-Xylene	ND	U	1.0	0.49	1	05/23/10	05/23/10	JWG1001843	
Styrene	ND	U	1.0	0.49	1	05/23/10	05/23/10	JWG1001843	
Bromoform	ND	U	2.0	0.44	1	05/23/10	05/23/10	JWG1001843	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/23/10	05/23/10	JWG1001843	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/23/10	05/23/10	JWG1001843	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/23/10	05/23/10	JWG1001843	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/23/10	05/23/10	JWG1001843	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/23/10	05/23/10	JWG1001843	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	05/23/10	05/23/10	JWG1001843	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	111	71-122	05/23/10	Acceptable
4-Bromofluorobenzene	116	75-120	05/23/10	Acceptable
Dibromofluoromethane	108	82-116	05/23/10	Acceptable
Toluene-d8	96	88-117	05/23/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002277
Project:	JED SWDF	**Date Collected:**	05/14/2010
Sample Matrix:	Water	**Date Received:**	05/14/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	SW-3	**Units:**	ug/L
Lab Code:	J1002277-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0071	1	05/20/10	05/22/10	JWG1001766	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0058	1	05/20/10	05/22/10	JWG1001766	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	89	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002277
Project:	JED SWDF	**Date Collected:**	05/14/2010
Sample Matrix:	Water	**Date Received:**	05/14/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	SW-4	**Units:**	ug/L
Lab Code:	J1002277-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0071	1	05/20/10	05/22/10	JWG1001766	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0058	1	05/20/10	05/22/10	JWG1001766	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	91	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002277
Project:	JED SWDF	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG1001766-4	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	05/20/10	05/21/10	JWG1001766	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	05/20/10	05/21/10	JWG1001766	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	93	77-150	05/21/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002277
Date Collected: 5/14/10 1045
Date Received: 5/14/10

Sample Name: SW-3
Lab Code: J1002277-001

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	5/26/10 20:58
Arsenic, Total	6020	**0.47**	I	µg/L	0.50	0.14	1	5/25/10	5/26/10 20:58
Barium, Total	6020	**7.1**		µg/L	2.0	0.5	1	5/25/10	5/26/10 20:58
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 20:58
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	5/26/10 20:58
Chromium, Total	6020	**0.8**	I	µg/L	2.0	0.6	1	5/25/10	5/26/10 20:58
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	5/25/10	5/26/10 20:58
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	5/26/10 20:58
Iron, Total	6010B	**1050**		µg/L	100	10	1	5/21/10	5/25/10 20:11
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 20:58
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 16:16
Nickel, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	5/25/10	5/26/10 20:58
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/25/10	5/26/10 20:58
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	5/27/10 13:57
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	5/26/10 20:58
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	5/25/10	5/26/10 20:58
Zinc, Total	6020	**4**	I	µg/L	10	3	1	5/25/10	5/26/10 20:58

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002277
Date Collected: 5/14/10 1010
Date Received: 5/14/10

Sample Name: SW-4
Lab Code: J1002277-002

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	5/26/10 21:24
Arsenic, Total	6020	**0.55**		µg/L	0.50	0.14	1	5/25/10	5/26/10 21:24
Barium, Total	6020	**5.7**		µg/L	2.0	0.5	1	5/25/10	5/26/10 21:24
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 21:24
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	5/26/10 21:24
Chromium, Total	6020	**1.1**	I	µg/L	2.0	0.6	1	5/25/10	5/26/10 21:24
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	5/25/10	5/26/10 21:24
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	5/26/10 21:24
Iron, Total	6010B	**1060**		µg/L	100	10	1	5/21/10	5/25/10 20:15
Lead, Total	6020	**0.4**	I	µg/L	1.0	0.3	1	5/25/10	5/26/10 21:24
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 16:20
Nickel, Total	6020	**0.8**	I	µg/L	2.0	0.3	1	5/25/10	5/26/10 21:24
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/25/10	5/26/10 21:24
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	5/27/10 14:22
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	5/26/10 21:24
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	5/25/10	5/26/10 21:24
Zinc, Total	6020	**3**	I	µg/L	10	3	1	5/25/10	5/26/10 21:24

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002277
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: J1002277-MB

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	5/26/10 20:48
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	5/25/10	5/26/10 20:48
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	5/26/10 20:48
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 20:48
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	5/26/10 20:48
Calcium, Total	6010B	**0.07**	I	mg/L	0.10	0.02	1	5/21/10	5/25/10 19:17
Chromium, Total	6020	ND	U	µg/L	2.0	0.6	1	5/25/10	5/26/10 20:48
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	5/25/10	5/26/10 20:48
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	5/26/10 20:48
Iron, Total	6010B	ND	U	µg/L	100	10	1	5/21/10	5/25/10 19:18
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 20:48
Magnesium, Total	6010B	**0.01**	I	mg/L	0.10	0.01	1	5/21/10	5/25/10 19:18
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 15:48
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	5/26/10 20:48
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/25/10	5/26/10 20:48
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	5/27/10 13:50
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	5/26/10 20:48
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	5/25/10	5/26/10 20:48
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	5/26/10 20:48

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002277
Project:	JED SWDF	**Date Collected:**	5/14/2010
Sample Matrix:	Water	**Date Received:**	5/14/2010

Hardness, Total

Prep Method:	METHOD	Units:	mg/L (ppm)
Analysis Method:	SM 2340B	Basis:	NA
Test Notes:			

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
SW-3	J1002277-001	1.7	0.08	1	5/21/2010	5/25/2010	9.7	
SW-4	J1002277-002	1.7	0.08	1	5/21/2010	5/25/2010	6.2	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002277
Date Collected : 05/14/10
Date Received : 05/14/10

Inorganic Parameters

Sample Name : SW-3
Lab Code : J1002277-001
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Biochemical Oxygen Demand (BOD)	mg/L (ppm)	SM 5210 B	2	2	1	05/14/10 15:00	U	
Ammonia as N, Unionized	mg/L (ppm)	FDEP	0.01	0.006	1	05/26/10 17:30	U	
Carbon, Total Organic	mg/L (ppm)	SM 5310 B	1	0.3	1	05/24/10 20:33	29	
Chemical Oxygen Demand	mg/L (ppm)	SM 5220 C	20	1.5	1	05/24/10 14:30	120	
Chlorophyll a (Monochromatic)	mg/m3	SM 10200 H	2.2	2.2	2.2	05/27/10 17:00	U	
Coliform, Fecal	CFU/100mL	SM 9222 D	1.6	1.6	1.6	05/14/10 14:23	16	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/14/10 21:16	U	
Nitrogen, Total as Nitrogen	mg/L (ppm)	300.0 + 351.2	0.1	0.09	1	05/26/10 12:30	1.2	
Phosphorus, Total	mg/L (ppm)	365.1	0.005	0.003	1	05/21/10 12:43	0.050	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/20/10 20:15	78	
Solids, Total Suspended (TSS)	mg/L (ppm)	SM 2540 D	5	2	1	05/20/10 16:00	U	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002277
Date Collected : 05/14/10
Date Received : 05/14/10

Inorganic Parameters

Sample Name : SW-4
Lab Code : J1002277-002
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Biochemical Oxygen Demand (BOD)	mg/L (ppm)	SM 5210 B	2	2	1	05/14/10 15:00	U	
Ammonia as N, Unionized	mg/L (ppm)	FDEP	0.01	0.006	1	05/26/10 17:30	U	
Carbon, Total Organic	mg/L (ppm)	SM 5310 B	1	0.3	1	05/24/10 20:33	30	
Chemical Oxygen Demand	mg/L (ppm)	SM 5220 C	20	1.5	1	05/24/10 14:30	97	
Chlorophyll a (Monochromatic)	mg/m3	SM 10200 H	2.6	2.6	2.6	05/27/10 17:00	3.1	
Coliform, Fecal	CFU/100mL	SM 9222 D	10	10	10	05/14/10 14:24	200	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/14/10 21:31	U	
Nitrogen, Total as Nitrogen	mg/L (ppm)	300.0 + 351.2	0.1	0.09	1	05/26/10 12:30	1.5	
Phosphorus, Total	mg/L (ppm)	365.1	0.005	0.003	1	05/21/10 12:43	0.071	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/20/10 20:15	68	
Solids, Total Suspended (TSS)	mg/L (ppm)	SM 2540 D	5	2	1	05/20/10 16:00	U	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002277
Date Collected : NA
Date Received : NA

Inorganic Parameters

Sample Name : Method Blank
Lab Code : J1002277-MB
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Biochemical Oxygen Demand (BOD)	mg/L (ppm)	SM 5210 B	2	2	1	05/14/10 15:00	U	
Ammonia as N, Unionized	mg/L (ppm)	FDEP	0.01	0.006	1	05/26/10 17:30	U	
Carbon, Total Organic	mg/L (ppm)	SM 5310 B	1	0.3	1	05/24/10 20:33	0.39	i
Chemical Oxygen Demand	mg/L (ppm)	SM 5220 C	20	1.5	1	05/24/10 14:30	8.0	i
Chlorophyll a (Monochromatic)	mg/m3	SM 10200 H	1	1	1	05/27/10 17:00	U	
Coliform, Fecal	CFU/100mL	SM 9222 D	1	1	1	05/14/10 11:46	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/14/10 17:47	U	
Nitrogen, Total as Nitrogen	mg/L (ppm)	300.0 + 351.2	0.1	0.09	1	05/26/10 12:30	U	
Phosphorus, Total	mg/L (ppm)	365.1	0.005	0.003	1	05/21/10 12:43	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/20/10 20:15	U	
Solids, Total Suspended (TSS)	mg/L (ppm)	SM 2540 D	5	2	1	05/20/10 16:00	U	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002277

Surrogate Recovery Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
SW-3	J1002277-001	112	115	108	102
SW-4	J1002277-002	114	117	112	103
Trip Blank	J1002277-003	117	119	110	99
Method Blank	JWG1001843-4	111	116	108	96
Lab Control Sample	JWG1001843-3	110	113	108	99

Surrogate Recovery Control Limits (%)

Sur1 =	1,2-Dichloroethane-d4	71-122
Sur2 =	4-Bromofluorobenzene	75-120
Sur3 =	Dibromofluoromethane	82-116
Sur4 =	Toluene-d8	88-117

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002277
Date Extracted: 05/23/2010
Date Analyzed: 05/23/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1001843

	Lab Control Sample JWG1001843-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Chloromethane	21.0	20.0	105	67-135
Vinyl Chloride	20.6	20.0	103	78-132
Bromomethane	21.6	20.0	108	79-130
Chloroethane	19.7	20.0	98	74-126
Trichlorofluoromethane	21.0	20.0	105	74-134
1,1-Dichloroethene	21.2	20.0	106	78-130
Acetone	78.5	100	78	67-133
Iodomethane (Methyl Iodide)	105	100	105	68-134
Carbon Disulfide	101	100	101	76-138
Methylene Chloride	21.1	20.0	105	72-124
trans-1,2-Dichloroethene	21.6	20.0	108	77-124
Acrylonitrile	113	100	113	77-127
1,1-Dichloroethane	21.7	20.0	108	80-128
Vinyl Acetate	103	100	103	61-148
cis-1,2-Dichloroethene	21.2	20.0	106	80-126
2-Butanone (MEK)	99.9	100	100	73-127
Bromochloromethane	20.8	20.0	104	79-129
Chloroform	21.3	20.0	107	83-124
1,1,1-Trichloroethane (TCA)	21.8	20.0	109	79-124
Carbon Tetrachloride	22.4	20.0	112	81-125
Benzene	20.6	20.0	103	79-119
1,2-Dichloroethane (EDC)	22.9	20.0	114	80-124
Trichloroethene (TCE)	18.7	20.0	94	76-124
1,2-Dichloropropane	22.1	20.0	111	79-123
Dibromomethane	21.3	20.0	107	83-123
Bromodichloromethane	21.6	20.0	108	81-123
cis-1,3-Dichloropropene	19.5	20.0	98	86-123
4-Methyl-2-pentanone (MIBK)	89.9	100	90	72-136
Toluene	18.5	20.0	92	86-117
trans-1,3-Dichloropropene	20.6	20.0	103	83-124
1,1,2-Trichloroethane	20.0	20.0	100	86-114
Tetrachloroethene (PCE)	16.0	20.0	80	80-121
2-Hexanone	85.9	100	86	71-138
Dibromochloromethane	19.9	20.0	100	82-121
1,2-Dibromoethane (EDB)	19.7	20.0	98	88-117
Chlorobenzene	18.4	20.0	92	86-113

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002277
Date Extracted: 05/23/2010
Date Analyzed: 05/23/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1001843

	Lab Control Sample JWG1001843-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,1,1,2-Tetrachloroethane	17.7	20.0	89	85-117
Ethylbenzene	18.7	20.0	94	90-118
m,p-Xylenes	37.4	40.0	93	86-121
o-Xylene	19.9	20.0	99	89-119
Styrene	19.1	20.0	95	89-122
Bromoform	19.1	20.0	96	68-129
1,1,2,2-Tetrachloroethane	19.0	20.0	95	83-120
1,2,3-Trichloropropane	19.9	20.0	100	83-123
1,4-Dichlorobenzene	18.9	20.0	95	83-113
trans-1,4-Dichloro-2-butene	22.9	20.0	115	53-143
1,2-Dichlorobenzene	18.5	20.0	93	84-115
1,2-Dibromo-3-chloropropane (DBCP	18.0	20.0	90	62-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002277

Surrogate Recovery Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
SW-3	J1002277-001	89
SW-4	J1002277-002	91
Method Blank	JWG1001766-4	93
Lab Control Sample	JWG1001766-3	104

Surrogate Recovery Control Limits (%)

Sur1 = 1,1,1,2-Tetrachloroethane 77-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002277
Project:	JED SWDF	**Date Extracted:**	05/20/2010
Sample Matrix:	Water	**Date Analyzed:**	05/21/2010

Lab Control Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	8011	**Basis:**	NA
		Level:	Low
		Extraction Lot:	JWG1001766

	Lab Control Sample JWG1001766-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,2-Dibromoethane (EDB)	0.0141	0.0143	99	70-130
1,2-Dibromo-3-chloropropane (DBCP	0.0134	0.0143	94	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002277
Date Collected: 5/14/10
Date Received: 5/14/10
Date Analyzed: 5/26/10 - 5/27/10

Matrix Spike Summary
Inorganic Parameters

Sample Name: SW-3
Lab Code: J1002277-001

Units: µg/L
Basis: NA

Analytical Method: 6020
Prep Method: EPA 3020A

		Matrix Spike J1002277-MS			Duplicate Matrix Spike J1002277-DMS					
Analyte Name	**Sample Result**	**Result**	**Amount**	**% Rec**	**Result**	**Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Antimony, Total	ND	52.5	50.0	105	53.3	50.0	107	75 - 125	2	20
Arsenic, Total	0.47	49.7	50.0	98	50.4	50.0	100	75 - 125	1	20
Barium, Total	7.1	59.1	50.0	104	58.6	50.0	103	75 - 125	1	20
Beryllium, Total	ND	49.2	50.0	98	47.5	50.0	95	75 - 125	3	20
Cadmium, Total	ND	48.0	50.0	96	50.1	50.0	100	75 - 125	4	20
Chromium, Total	0.8	53.1	50.0	105	54.0	50.0	106	75 - 125	2	20
Cobalt, Total	ND	53.2	50.0	106	54.2	50.0	108	75 - 125	2	20
Copper, Total	ND	52.4	50.0	105	52.8	50.0	106	75 - 125	1	20
Lead, Total	ND	53.8	50.0	108	55.2	50.0	110	75 - 125	2	20
Nickel, Total	0.6	52.2	50.0	103	54.2	50.0	107	75 - 125	4	20
Selenium, Total	ND	45.1	50.0	90	44.7	50.0	89	75 - 125	1	20
Silver, Total	ND	53.0	50.0	106	53.1	50.0	106	75 - 125	0	20
Thallium, Total	ND	52.3	50.0	105	55.2	50.0	110	75 - 125	5	20
Vanadium, Total	ND	52.8	50.0	106	54.5	50.0	109	75 - 125	3	20
Zinc, Total	4	98.6	100	95	99.6	100	96	75 - 125	1	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002277
Date Analyzed: 5/24/10 - 5/27/10

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1002277-LCS Result	Expected	% Rec	% Rec Limits
Antimony, Total	6020	**53.4**	50.0	107	80 - 120
Arsenic, Total	6020	**49.8**	50.0	100	80 - 120
Barium, Total	6020	**52.4**	50.0	105	80 - 120
Beryllium, Total	6020	**47.9**	50.0	96	80 - 120
Cadmium, Total	6020	**49.9**	50.0	100	80 - 120
Chromium, Total	6020	**52.5**	50.0	105	80 - 120
Cobalt, Total	6020	**53.2**	50.0	106	80 - 120
Copper, Total	6020	**51.4**	50.0	103	80 - 120
Iron, Total	6010B	**2020**	2000	101	80 - 120
Lead, Total	6020	**54.6**	50.0	109	80 - 120
Mercury, Total	7470A	**5.23**	5.00	105	80 - 120
Nickel, Total	6020	**51.8**	50.0	104	80 - 120
Selenium, Total	6020	**45.0**	50.0	90	80 - 120
Silver, Total	6020	**53.4**	50.0	107	80 - 120
Thallium, Total	6020	**54.0**	50.0	108	80 - 120
Vanadium, Total	6020	**53.1**	50.0	106	80 - 120
Zinc, Total	6020	**93.8**	100	94	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002277
Date Analyzed: 5/25/10

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1002277-LCS Result	Expected	% Rec	% Rec Limits
Calcium, Total	6010B	**19.6**	20.0	98	80 - 120
Magnesium, Total	6010B	**9.91**	10.0	99	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002277
Date Collected : 05/14/10
Date Received : 05/14/10
Date Extracted : 05/14/10
Date Analyzed : 05/27/10

Duplicate Summary
Inorganic Parameters

Sample Name : SW-3
Lab Code : J1002277-001DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Chlorophyll a (Monochromatic)	mg/m3	SM 10200 H	2.2	U	U	U	-	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002277
Date Collected : 05/14/10
Date Received : 05/14/10
Date Extracted : NA
Date Analyzed : 05/24/10

Duplicate Summary
Inorganic Parameters

Sample Name : SW-4
Lab Code : J1002277-002DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Chemical Oxygen Demand	mg/L (ppm)	SM 5220 C	20	97	106	101.5	9	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002277
Date Collected : 05/14/10
Date Received : 05/14/10
Date Extracted : NA
Date Analyzed : 05/24/10

Matrix Spike Summary
Inorganic Parameters

Sample Name : SW-4
Lab Code : J1002277-002MS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Chemical Oxygen Demand	mg/L (ppm)	SM 5220 C	20	500	97	629	106	85-115	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Environmental Planning Specialists	**Service Request :**	J1002277
Project Name :	JED SWDF	**Date Collected :**	NA
Project Number :	NA	**Date Received :**	NA
Sample Matrix :	WATER	**Date Extracted :**	NA
		Date Analyzed :	05/14-24/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Laboratory Control Sample
Lab Code : J1002277-LCS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Biochemical Oxygen Demand (BOD)	mg/L (ppm)	SM 5210 B	198	197	99	84-115	
Carbon, Total Organic	mg/L (ppm)	SM 5310 B	50	51.8	104	90-110	
Chemical Oxygen Demand	mg/L (ppm)	SM 5220 C	500	484	97	85-115	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	4.75	95	90-110	
Phosphorus, Total	mg/L (ppm)	365.1	0.500	0.506	101	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	300	298	99	85-115	
Solids, Total Suspended (TSS)	mg/L (ppm)	SM 2540 D	80	81.0	101	85-115	

Report By:Palimi

Columbia Analytical Services, Inc.
Cooler Receipt Form

Client: EPS Service Request #: J1002279

Project: JED SWDF

Cooler received on 5-14-10 and opened on 5-14-10 by SC

COURIER: CAS UPS FEDEX Client Other _____ Airbill # _____

1	Were custody seals on outside of cooler?	Yes	~~No~~ SC 5/14/10		
	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 4 +/- 2 degrees C)	4.0			
5	Thermometer ID	116			
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	bubble wrap			
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 VOA vials checked for absence 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

Jacksonville Laboratory
Condition Upon Receipt - Sample pH

SR # : J 1002277 Date: 5-14-10 Initials: SC

Note that pH is check and meets the required pH criterion listed in the column heading unless otherwise noted on the cooler receipt form.

	Bottle Code																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	40mL	40mL	40mL	125mL	125mL	125mL	125mL	250mL	250mL	250mL	250mL	250mL	250mL	250mL	500mL	500mL	500mL	500mL	500mL	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	100ml	Ziplock	Misc.
Container	G	G	G	P	P	P	P	P	P	P	P	P	G	G	P	P	P	P	G	P	P	G	G	G	G	G	G	G	P	P	Misc.
Pres.		HCl	Na2S2O3		HCl	H2SO4	HNO3		H2SO4	HNO3	ZnAc2 NaOH	NaOH		HNO3		HCl	H2SO4	HNO3			HNO3		HCl	H2SO4					Sodium Thiosulfate		
Req. pH	N/A	<2	N/A	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	<2	N/A	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A		N/A
Sample #	-	-		-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-		-				-	-		-
-001	3	3			1		1										1			1		1							1			-001
-002	3	3			1		1										1			1		1							1			-002
-003		2																														-003
-004																																-004
-005																																-005
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-040																																-040

NOTE: VOA pH checks are performed by the analytical area, not sample control

Columbia Analytical Services™

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

www.caslab.com

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

SR # J1002277
CAS Contact

Project Name: JED SWDF	Project Number:
Project Manager: Kirk Wills	Email Address: kwills@enviplanning.com
Company/Address: EPS 1936 Bruce B Downs Blvd #328 Wesley Chapel, FL 33543	
Phone #: 813-388-1026	FAX#:
Sampler's Signature: Joe Terry	Sampler's Printed Name: Joe Terry

ANALYSIS REQUESTED (Include Method Number a[redacted]

PRESERVATIVE: 1 0 1 2 3 0 0 8

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	8260	8011	TOC	Metals	NH_3, TKN, T-Phos	NO_3, NO_2, TDS, TSS, BOD	Chlorophyll A	Fecal coliform								REMARKS/ ALTERNATE DESCRIPTION
SW-3		5.14.10	1045	SW	12	3	3	1	1	1	1	1	1							
SW-4		5.14.10	1010	SW	12	3	3	1	1	1	1	1	1							
Trip Blank		5.5.10	1000	DI H_2O	2	2														

NUMBER OF CONTAINERS

1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other $Na_2S_2O_3$

SPECIAL INSTRUCTIONS/COMMENTS

Cooler ID:
10134-JED-1

Temp (°C)
SW-3: 22.44
SW-4: 23.39

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: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
37					
Signature: Joe Terry	Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature	Signature
Printed Name: Joe Terry	Printed Name: Robert Nicholas	Printed Name: Robert Nicholas	Printed Name: Shawn Lightsey	Printed Name	Printed Name
Firm: EPS	Firm: CAS	Firm: CAS	Firm: CAS	Firm	Firm
Date/Time: 5.14.10/1217	Date/Time: 5/14/10 12:17	Date/Time: 5/14/10 2:10	Date/Time: 5-14-10 1410	Date/Time	Date/Time

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

JSCOC-06/20/08

Columbia Analytical Services™ 9143 Philips Highway, Suite 200 | Jacksonville, FL 32256 | 904-739-2277 | 904-739-2011 fax | www.caslab.com

May 28, 2010 Service Request No: J1002278

Kirk Wills
Environmental Planning Specialists
1936 Bruce B Downs Blvd
#328
Wesley Chapel, FL 33543

Laboratory Results for: JED SWDF

Dear Kirk:

Enclosed are the results of the sample(s) submitted to our laboratory on May 14, 2010. For your reference, these analyses have been assigned our service request number **J1002278**.

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.

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

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502. Other state accreditations include: Georgia, #958; Kentucky, #63; Louisiana, #02086; North Carolina, #527; South Carolina, #96021001; Texas, #T104704197-09-TX.

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Environmental Planning Specialists	**Service Request No.:**	J1002278
Project:	JED SWDF	**Date Received:**	5/14/10
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Seven water samples and one trip blank were received for analysis at Columbia Analytical Services on 5/14/10. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

The samples were analyzed for Volatile Organics using EPA Method 8260. The following observations were made regarding this delivery group.

Continuing Calibration Verification Exceptions

The primary evaluation criterion was exceeded for the following analytes in Continuing Calibration Verification (CCV) JWG1001869-2: trans-1,4-Dichloro-2-butene and Bromoform. The analytes in question were not detected in the associated field samples. Since the analytes were detected in the MRL check standard, instrument sensitivity was documented. The data quality was not significantly affected and no further corrective action was taken.

Matrix Spike Recovery Exceptions

The matrix spike recoveries of several analytes for sample GWC-27 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) were acceptable, which indicates the analytical batch was in control. No further corrective action was appropriate.

The matrix spike recoveries of Dibromochloromethane and Bromoform for sample GWC-27 were outside the control criterion. The analytes in question were not detected in the associated field samples. Since the analyte were detected in the MRL check standard, instrument sensitivity was documented. The data quality was not significantly affected and no further corrective action was taken.

Lab Control Sample Exceptions

The spike recoveries of several analytes for Laboratory Control Sample (LCS) JWG1001868-3 were outside the lower control criterion. The analytes in question were not detected in the associated field samples. Since the analytes were detected in the MRL check standard, instrument sensitivity was documented. The data quality was not significantly affected and no further corrective action was taken.

Approved by_____ **Date** 5/28/10

EDB and DBCP by GC-ECD

The samples were analyzed for EDB and DBCP using EPA Method 8011. No problems were observed.

Batch QC Notes and Discussion

Quality control samples (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

Metals by ICP-MS/ICP-OES/CVAA

The samples were analyzed for Total Metals using EPA Methods 6020/6010B/7470A. No problems were observed.

Batch QC Notes and Discussion

Some quality control samples (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

General Chemistry Parameters

The samples were analyzed for Inorganic Parameters using various EPA and Standard Methods. No problems were observed.

Approved by_____ **Date** 5/28/10

Florida DEP Data Qualifiers

B Results based upon colony counts outside the acceptable range.

D Measurement was made in the field.

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 practical quantitation limit.

J Estimated value (one of the following reasons is discussed in the project case narrative).
1. The result may be inaccurate because the surrogate recovery limits have been exceeded.
2. No known quality control criteria exists for the component.
3. The reported value failed to meet the established quality control criteria for either precision or accuracy.
4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD).
5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).

K Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).

L Off scale high. The analyte is above the upper limit of the linear calibration range.

M The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.

N Presumptive evidence of the analyte. Confirmation was not performed.

Q Sample held beyond the accepted holding time.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.

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.

Y The laboratory analysis was from an improperly preserved sample.

Z Too many colonies were present (TNTC). 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: Environmental Planning Specialists
Project: JED SWDF

Service Request: J1002278

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J1002278-001	MW-7A	5/13/10	13:50
J1002278-002	MW-7B	5/13/10	14:20
J1002278-003	MW-8A	5/13/10	11:00
J1002278-004	MW-8B	5/13/10	12:20
J1002278-005	MW-9A	5/13/10	09:00
J1002278-006	MW-9B	5/13/10	08:20
J1002278-007	DUP	5/13/10	00:00
J1002278-008	Trip Blank	5/13/10	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278
Date Collected: 05/13/2010
Date Received: 05/14/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-7A
Lab Code: J1002278-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/25/10	05/25/10	JWG1001868	
Vinyl Chloride	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001868	
Bromomethane	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001868	
Chloroethane	ND	U	5.0	0.68	1	05/25/10	05/25/10	JWG1001868	
Trichlorofluoromethane	ND	U	20	0.71	1	05/25/10	05/25/10	JWG1001868	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/25/10	05/25/10	JWG1001868	
Acetone	ND	U	50	5.6	1	05/25/10	05/25/10	JWG1001868	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/25/10	05/25/10	JWG1001868	
Carbon Disulfide	ND	U	10	3.1	1	05/25/10	05/25/10	JWG1001868	
Methylene Chloride	ND	U	5.0	0.45	1	05/25/10	05/25/10	JWG1001868	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/25/10	05/25/10	JWG1001868	
Acrylonitrile	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001868	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/25/10	05/25/10	JWG1001868	
Vinyl Acetate	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001868	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/25/10	05/25/10	JWG1001868	
2-Butanone (MEK)	ND	U	10	2.5	1	05/25/10	05/25/10	JWG1001868	
Bromochloromethane	ND	U	5.0	0.67	1	05/25/10	05/25/10	JWG1001868	
Chloroform	ND	U	1.0	0.35	1	05/25/10	05/25/10	JWG1001868	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001868	
Carbon Tetrachloride	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001868	J(3)
Benzene	ND	U	1.0	0.066	1	05/25/10	05/25/10	JWG1001868	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001868	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/25/10	05/25/10	JWG1001868	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001868	
Dibromomethane	ND	U	5.0	0.39	1	05/25/10	05/25/10	JWG1001868	
Bromodichloromethane	ND	U	1.0	0.19	1	05/25/10	05/25/10	JWG1001868	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/25/10	05/25/10	JWG1001868	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/25/10	05/25/10	JWG1001868	
Toluene	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001868	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001868	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001868	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/25/10	05/25/10	JWG1001868	
2-Hexanone	ND	U	25	2.1	1	05/25/10	05/25/10	JWG1001868	
Dibromochloromethane	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001868	J(3)

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002278
Project:	JED SWDF	**Date Collected:**	05/13/2010
Sample Matrix:	Water	**Date Received:**	05/14/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-7A	**Units:**	ug/L
Lab Code:	J1002278-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001868	
Chlorobenzene	ND	U	1.0	0.42	1	05/25/10	05/25/10	JWG1001868	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/25/10	05/25/10	JWG1001868	
Ethylbenzene	ND	U	1.0	0.52	1	05/25/10	05/25/10	JWG1001868	
m,p-Xylenes	ND	U	2.0	1.1	1	05/25/10	05/25/10	JWG1001868	
o-Xylene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001868	
Styrene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001868	
Bromoform	ND	UJ	2.0	0.44	1	05/25/10	05/25/10	JWG1001868	J(3)
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001868	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/25/10	05/25/10	JWG1001868	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/25/10	05/25/10	JWG1001868	
trans-1,4-Dichloro-2-butene	ND	UJ	20	4.3	1	05/25/10	05/25/10	JWG1001868	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001868	
1,2-Dibromo-3-chloropropane (DI	ND	U	5.0	2.3	1	05/25/10	05/25/10	JWG1001868	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	71-122	05/25/10	Acceptable
4-Bromofluorobenzene	107	75-120	05/25/10	Acceptable
Dibromofluoromethane	100	82-116	05/25/10	Acceptable
Toluene-d8	104	88-117	05/25/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278
Date Collected: 05/13/2010
Date Received: 05/14/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-7B
Lab Code: J1002278-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/25/10	05/25/10	JWG1001868	
Vinyl Chloride	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001868	
Bromomethane	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001868	
Chloroethane	ND	U	5.0	0.68	1	05/25/10	05/25/10	JWG1001868	
Trichlorofluoromethane	ND	U	20	0.71	1	05/25/10	05/25/10	JWG1001868	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/25/10	05/25/10	JWG1001868	
Acetone	ND	U	50	5.6	1	05/25/10	05/25/10	JWG1001868	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/25/10	05/25/10	JWG1001868	
Carbon Disulfide	ND	U	10	3.1	1	05/25/10	05/25/10	JWG1001868	
Methylene Chloride	ND	U	5.0	0.45	1	05/25/10	05/25/10	JWG1001868	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/25/10	05/25/10	JWG1001868	
Acrylonitrile	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001868	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/25/10	05/25/10	JWG1001868	
Vinyl Acetate	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001868	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/25/10	05/25/10	JWG1001868	
2-Butanone (MEK)	ND	U	10	2.5	1	05/25/10	05/25/10	JWG1001868	
Bromochloromethane	ND	U	5.0	0.67	1	05/25/10	05/25/10	JWG1001868	
Chloroform	ND	U	1.0	0.35	1	05/25/10	05/25/10	JWG1001868	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001868	
Carbon Tetrachloride	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001868	J(3)
Benzene	ND	U	1.0	0.066	1	05/25/10	05/25/10	JWG1001868	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001868	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/25/10	05/25/10	JWG1001868	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001868	
Dibromomethane	ND	U	5.0	0.39	1	05/25/10	05/25/10	JWG1001868	
Bromodichloromethane	ND	U	1.0	0.19	1	05/25/10	05/25/10	JWG1001868	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/25/10	05/25/10	JWG1001868	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/25/10	05/25/10	JWG1001868	
Toluene	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001868	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001868	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001868	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/25/10	05/25/10	JWG1001868	
2-Hexanone	ND	U	25	2.1	1	05/25/10	05/25/10	JWG1001868	
Dibromochloromethane	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001868	J(3)

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278
Date Collected: 05/13/2010
Date Received: 05/14/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-7B
Lab Code: J1002278-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001868	
Chlorobenzene	ND	U	1.0	0.42	1	05/25/10	05/25/10	JWG1001868	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/25/10	05/25/10	JWG1001868	
Ethylbenzene	ND	U	1.0	0.52	1	05/25/10	05/25/10	JWG1001868	
m,p-Xylenes	ND	U	2.0	1.1	1	05/25/10	05/25/10	JWG1001868	
o-Xylene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001868	
Styrene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001868	
Bromoform	ND	UJ	2.0	0.44	1	05/25/10	05/25/10	JWG1001868	J(3)
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001868	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/25/10	05/25/10	JWG1001868	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/25/10	05/25/10	JWG1001868	
trans-1,4-Dichloro-2-butene	ND	UJ	20	4.3	1	05/25/10	05/25/10	JWG1001868	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001868	
1,2-Dibromo-3-chloropropane (DE	ND	U	5.0	2.3	1	05/25/10	05/25/10	JWG1001868	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	71-122	05/25/10	Acceptable
4-Bromofluorobenzene	108	75-120	05/25/10	Acceptable
Dibromofluoromethane	99	82-116	05/25/10	Acceptable
Toluene-d8	105	88-117	05/25/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278
Date Collected: 05/13/2010
Date Received: 05/14/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-8A
Lab Code: J1002278-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/25/10	05/25/10	JWG1001868	
Vinyl Chloride	**0.41**	I	1.0	0.16	1	05/25/10	05/25/10	JWG1001868	
Bromomethane	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001868	
Chloroethane	ND	U	5.0	0.68	1	05/25/10	05/25/10	JWG1001868	
Trichlorofluoromethane	ND	U	20	0.71	1	05/25/10	05/25/10	JWG1001868	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/25/10	05/25/10	JWG1001868	
Acetone	ND	U	50	5.6	1	05/25/10	05/25/10	JWG1001868	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/25/10	05/25/10	JWG1001868	
Carbon Disulfide	ND	U	10	3.1	1	05/25/10	05/25/10	JWG1001868	
Methylene Chloride	ND	U	5.0	0.45	1	05/25/10	05/25/10	JWG1001868	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/25/10	05/25/10	JWG1001868	
Acrylonitrile	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001868	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/25/10	05/25/10	JWG1001868	
Vinyl Acetate	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001868	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/25/10	05/25/10	JWG1001868	
2-Butanone (MEK)	ND	U	10	2.5	1	05/25/10	05/25/10	JWG1001868	
Bromochloromethane	ND	U	5.0	0.67	1	05/25/10	05/25/10	JWG1001868	
Chloroform	ND	U	1.0	0.35	1	05/25/10	05/25/10	JWG1001868	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001868	
Carbon Tetrachloride	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001868	J(3)
Benzene	**1.6**		1.0	0.066	1	05/25/10	05/25/10	JWG1001868	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001868	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/25/10	05/25/10	JWG1001868	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001868	
Dibromomethane	ND	U	5.0	0.39	1	05/25/10	05/25/10	JWG1001868	
Bromodichloromethane	ND	U	1.0	0.19	1	05/25/10	05/25/10	JWG1001868	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/25/10	05/25/10	JWG1001868	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/25/10	05/25/10	JWG1001868	
Toluene	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001868	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001868	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001868	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/25/10	05/25/10	JWG1001868	
2-Hexanone	ND	U	25	2.1	1	05/25/10	05/25/10	JWG1001868	
Dibromochloromethane	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001868	J(3)

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278
Date Collected: 05/13/2010
Date Received: 05/14/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-8A
Lab Code: J1002278-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001868	
Chlorobenzene	ND	U	1.0	0.42	1	05/25/10	05/25/10	JWG1001868	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/25/10	05/25/10	JWG1001868	
Ethylbenzene	ND	U	1.0	0.52	1	05/25/10	05/25/10	JWG1001868	
m,p-Xylenes	ND	U	2.0	1.1	1	05/25/10	05/25/10	JWG1001868	
o-Xylene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001868	
Styrene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001868	
Bromoform	ND	UJ	2.0	0.44	1	05/25/10	05/25/10	JWG1001868	J(3)
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001868	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/25/10	05/25/10	JWG1001868	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/25/10	05/25/10	JWG1001868	
trans-1,4-Dichloro-2-butene	ND	UJ	20	4.3	1	05/25/10	05/25/10	JWG1001868	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001868	
1,2-Dibromo-3-chloropropane (DE	ND	U	5.0	2.3	1	05/25/10	05/25/10	JWG1001868	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	71-122	05/25/10	Acceptable
4-Bromofluorobenzene	108	75-120	05/25/10	Acceptable
Dibromofluoromethane	99	82-116	05/25/10	Acceptable
Toluene-d8	105	88-117	05/25/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278
Date Collected: 05/13/2010
Date Received: 05/14/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-8B
Lab Code: J1002278-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/25/10	05/25/10	JWG1001868	
Vinyl Chloride	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001868	
Bromomethane	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001868	
Chloroethane	ND	U	5.0	0.68	1	05/25/10	05/25/10	JWG1001868	
Trichlorofluoromethane	ND	U	20	0.71	1	05/25/10	05/25/10	JWG1001868	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/25/10	05/25/10	JWG1001868	
Acetone	ND	U	50	5.6	1	05/25/10	05/25/10	JWG1001868	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/25/10	05/25/10	JWG1001868	
Carbon Disulfide	ND	U	10	3.1	1	05/25/10	05/25/10	JWG1001868	
Methylene Chloride	ND	U	5.0	0.45	1	05/25/10	05/25/10	JWG1001868	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/25/10	05/25/10	JWG1001868	
Acrylonitrile	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001868	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/25/10	05/25/10	JWG1001868	
Vinyl Acetate	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001868	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/25/10	05/25/10	JWG1001868	
2-Butanone (MEK)	ND	U	10	2.5	1	05/25/10	05/25/10	JWG1001868	
Bromochloromethane	ND	U	5.0	0.67	1	05/25/10	05/25/10	JWG1001868	
Chloroform	ND	U	1.0	0.35	1	05/25/10	05/25/10	JWG1001868	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001868	
Carbon Tetrachloride	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001868	J(3)
Benzene	ND	U	1.0	0.066	1	05/25/10	05/25/10	JWG1001868	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001868	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/25/10	05/25/10	JWG1001868	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001868	
Dibromomethane	ND	U	5.0	0.39	1	05/25/10	05/25/10	JWG1001868	
Bromodichloromethane	ND	U	1.0	0.19	1	05/25/10	05/25/10	JWG1001868	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/25/10	05/25/10	JWG1001868	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/25/10	05/25/10	JWG1001868	
Toluene	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001868	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001868	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001868	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/25/10	05/25/10	JWG1001868	
2-Hexanone	ND	U	25	2.1	1	05/25/10	05/25/10	JWG1001868	
Dibromochloromethane	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001868	J(3)

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278
Date Collected: 05/13/2010
Date Received: 05/14/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-8B
Lab Code: J1002278-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001868	
Chlorobenzene	ND	U	1.0	0.42	1	05/25/10	05/25/10	JWG1001868	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/25/10	05/25/10	JWG1001868	
Ethylbenzene	ND	U	1.0	0.52	1	05/25/10	05/25/10	JWG1001868	
m,p-Xylenes	ND	U	2.0	1.1	1	05/25/10	05/25/10	JWG1001868	
o-Xylene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001868	
Styrene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001868	
Bromoform	ND	UJ	2.0	0.44	1	05/25/10	05/25/10	JWG1001868	J(3)
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001868	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/25/10	05/25/10	JWG1001868	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/25/10	05/25/10	JWG1001868	
trans-1,4-Dichloro-2-butene	ND	UJ	20	4.3	1	05/25/10	05/25/10	JWG1001868	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001868	
1,2-Dibromo-3-chloropropane (DE	ND	U	5.0	2.3	1	05/25/10	05/25/10	JWG1001868	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	71-122	05/25/10	Acceptable
4-Bromofluorobenzene	108	75-120	05/25/10	Acceptable
Dibromofluoromethane	97	82-116	05/25/10	Acceptable
Toluene-d8	104	88-117	05/25/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002278
Project:	JED SWDF	**Date Collected:**	05/13/2010
Sample Matrix:	Water	**Date Received:**	05/14/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-9A	**Units:**	ug/L
Lab Code:	J1002278-005	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/25/10	05/25/10	JWG1001868	
Vinyl Chloride	**1.9**		1.0	0.16	1	05/25/10	05/25/10	JWG1001868	
Bromomethane	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001868	
Chloroethane	ND	U	5.0	0.68	1	05/25/10	05/25/10	JWG1001868	
Trichlorofluoromethane	ND	U	20	0.71	1	05/25/10	05/25/10	JWG1001868	
1,1-Dichloroethene	**0.65**	I	1.0	0.41	1	05/25/10	05/25/10	JWG1001868	
Acetone	ND	U	50	5.6	1	05/25/10	05/25/10	JWG1001868	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/25/10	05/25/10	JWG1001868	
Carbon Disulfide	ND	U	10	3.1	1	05/25/10	05/25/10	JWG1001868	
Methylene Chloride	ND	U	5.0	0.45	1	05/25/10	05/25/10	JWG1001868	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/25/10	05/25/10	JWG1001868	
Acrylonitrile	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001868	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/25/10	05/25/10	JWG1001868	
Vinyl Acetate	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001868	
cis-1,2-Dichloroethene	**1.1**		1.0	0.083	1	05/25/10	05/25/10	JWG1001868	
2-Butanone (MEK)	ND	U	10	2.5	1	05/25/10	05/25/10	JWG1001868	
Bromochloromethane	ND	U	5.0	0.67	1	05/25/10	05/25/10	JWG1001868	
Chloroform	ND	U	1.0	0.35	1	05/25/10	05/25/10	JWG1001868	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001868	
Carbon Tetrachloride	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001868	J(3)
Benzene	**11**		1.0	0.066	1	05/25/10	05/25/10	JWG1001868	
1,2-Dichloroethane (EDC)	**0.61**	I	1.0	0.30	1	05/25/10	05/25/10	JWG1001868	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/25/10	05/25/10	JWG1001868	
1,2-Dichloropropane	**0.42**	I	1.0	0.30	1	05/25/10	05/25/10	JWG1001868	
Dibromomethane	ND	U	5.0	0.39	1	05/25/10	05/25/10	JWG1001868	
Bromodichloromethane	ND	U	1.0	0.19	1	05/25/10	05/25/10	JWG1001868	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/25/10	05/25/10	JWG1001868	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/25/10	05/25/10	JWG1001868	
Toluene	**1.3**		1.0	0.47	1	05/25/10	05/25/10	JWG1001868	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001868	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001868	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/25/10	05/25/10	JWG1001868	
2-Hexanone	ND	U	25	2.1	1	05/25/10	05/25/10	JWG1001868	
Dibromochloromethane	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001868	J(3)

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002278
Project:	JED SWDF	**Date Collected:**	05/13/2010
Sample Matrix:	Water	**Date Received:**	05/14/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-9A	**Units:**	ug/L
Lab Code:	J1002278-005	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001868	
Chlorobenzene	ND	U	1.0	0.42	1	05/25/10	05/25/10	JWG1001868	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/25/10	05/25/10	JWG1001868	
Ethylbenzene	**1.8**		1.0	0.52	1	05/25/10	05/25/10	JWG1001868	
m,p-Xylenes	**11**		2.0	1.1	1	05/25/10	05/25/10	JWG1001868	
o-Xylene	**3.1**		1.0	0.49	1	05/25/10	05/25/10	JWG1001868	
Styrene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001868	
Bromoform	ND	UJ	2.0	0.44	1	05/25/10	05/25/10	JWG1001868	J(3)
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001868	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/25/10	05/25/10	JWG1001868	
1,4-Dichlorobenzene	**1.5**		1.0	0.46	1	05/25/10	05/25/10	JWG1001868	
trans-1,4-Dichloro-2-butene	ND	UJ	20	4.3	1	05/25/10	05/25/10	JWG1001868	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001868	
1,2-Dibromo-3-chloropropane (DI	ND	U	5.0	2.3	1	05/25/10	05/25/10	JWG1001868	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	71-122	05/25/10	Acceptable
4-Bromofluorobenzene	107	75-120	05/25/10	Acceptable
Dibromofluoromethane	96	82-116	05/25/10	Acceptable
Toluene-d8	103	88-117	05/25/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278
Date Collected: 05/13/2010
Date Received: 05/14/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-9B
Lab Code: J1002278-006

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/25/10	05/25/10	JWG1001868	
Vinyl Chloride	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001868	
Bromomethane	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001868	
Chloroethane	ND	U	5.0	0.68	1	05/25/10	05/25/10	JWG1001868	
Trichlorofluoromethane	ND	U	20	0.71	1	05/25/10	05/25/10	JWG1001868	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/25/10	05/25/10	JWG1001868	
Acetone	ND	U	50	5.6	1	05/25/10	05/25/10	JWG1001868	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/25/10	05/25/10	JWG1001868	
Carbon Disulfide	ND	U	10	3.1	1	05/25/10	05/25/10	JWG1001868	
Methylene Chloride	ND	U	5.0	0.45	1	05/25/10	05/25/10	JWG1001868	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/25/10	05/25/10	JWG1001868	
Acrylonitrile	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001868	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/25/10	05/25/10	JWG1001868	
Vinyl Acetate	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001868	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/25/10	05/25/10	JWG1001868	
2-Butanone (MEK)	ND	U	10	2.5	1	05/25/10	05/25/10	JWG1001868	
Bromochloromethane	ND	U	5.0	0.67	1	05/25/10	05/25/10	JWG1001868	
Chloroform	ND	U	1.0	0.35	1	05/25/10	05/25/10	JWG1001868	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001868	
Carbon Tetrachloride	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001868	J(3)
Benzene	ND	U	1.0	0.066	1	05/25/10	05/25/10	JWG1001868	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001868	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/25/10	05/25/10	JWG1001868	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001868	
Dibromomethane	ND	U	5.0	0.39	1	05/25/10	05/25/10	JWG1001868	
Bromodichloromethane	ND	U	1.0	0.19	1	05/25/10	05/25/10	JWG1001868	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/25/10	05/25/10	JWG1001868	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/25/10	05/25/10	JWG1001868	
Toluene	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001868	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001868	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001868	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/25/10	05/25/10	JWG1001868	
2-Hexanone	ND	U	25	2.1	1	05/25/10	05/25/10	JWG1001868	
Dibromochloromethane	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001868	J(3)

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002278
Project:	JED SWDF	**Date Collected:**	05/13/2010
Sample Matrix:	Water	**Date Received:**	05/14/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-9B	**Units:**	ug/L
Lab Code:	J1002278-006	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001868	
Chlorobenzene	ND	U	1.0	0.42	1	05/25/10	05/25/10	JWG1001868	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/25/10	05/25/10	JWG1001868	
Ethylbenzene	ND	U	1.0	0.52	1	05/25/10	05/25/10	JWG1001868	
m,p-Xylenes	ND	U	2.0	1.1	1	05/25/10	05/25/10	JWG1001868	
o-Xylene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001868	
Styrene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001868	
Bromoform	ND	UJ	2.0	0.44	1	05/25/10	05/25/10	JWG1001868	J(3)
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001868	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/25/10	05/25/10	JWG1001868	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/25/10	05/25/10	JWG1001868	
trans-1,4-Dichloro-2-butene	ND	UJ	20	4.3	1	05/25/10	05/25/10	JWG1001868	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001868	
1,2-Dibromo-3-chloropropane (DE	ND	U	5.0	2.3	1	05/25/10	05/25/10	JWG1001868	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	71-122	05/25/10	Acceptable
4-Bromofluorobenzene	110	75-120	05/25/10	Acceptable
Dibromofluoromethane	99	82-116	05/25/10	Acceptable
Toluene-d8	104	88-117	05/25/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278
Date Collected: 05/13/2010
Date Received: 05/14/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: DUP
Lab Code: J1002278-007

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/25/10	05/25/10	JWG1001868	
Vinyl Chloride	**1.9**		1.0	0.16	1	05/25/10	05/25/10	JWG1001868	
Bromomethane	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001868	
Chloroethane	ND	U	5.0	0.68	1	05/25/10	05/25/10	JWG1001868	
Trichlorofluoromethane	ND	U	20	0.71	1	05/25/10	05/25/10	JWG1001868	
1,1-Dichloroethene	**0.67**	I	1.0	0.41	1	05/25/10	05/25/10	JWG1001868	
Acetone	ND	U	50	5.6	1	05/25/10	05/25/10	JWG1001868	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/25/10	05/25/10	JWG1001868	
Carbon Disulfide	ND	U	10	3.1	1	05/25/10	05/25/10	JWG1001868	
Methylene Chloride	ND	U	5.0	0.45	1	05/25/10	05/25/10	JWG1001868	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/25/10	05/25/10	JWG1001868	
Acrylonitrile	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001868	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/25/10	05/25/10	JWG1001868	
Vinyl Acetate	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001868	
cis-1,2-Dichloroethene	**1.1**		1.0	0.083	1	05/25/10	05/25/10	JWG1001868	
2-Butanone (MEK)	ND	U	10	2.5	1	05/25/10	05/25/10	JWG1001868	
Bromochloromethane	ND	U	5.0	0.67	1	05/25/10	05/25/10	JWG1001868	
Chloroform	ND	U	1.0	0.35	1	05/25/10	05/25/10	JWG1001868	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001868	
Carbon Tetrachloride	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001868	J(3)
Benzene	**11**		1.0	0.066	1	05/25/10	05/25/10	JWG1001868	
1,2-Dichloroethane (EDC)	**0.60**	I	1.0	0.30	1	05/25/10	05/25/10	JWG1001868	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/25/10	05/25/10	JWG1001868	
1,2-Dichloropropane	**0.41**	I	1.0	0.30	1	05/25/10	05/25/10	JWG1001868	
Dibromomethane	ND	U	5.0	0.39	1	05/25/10	05/25/10	JWG1001868	
Bromodichloromethane	ND	U	1.0	0.19	1	05/25/10	05/25/10	JWG1001868	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/25/10	05/25/10	JWG1001868	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/25/10	05/25/10	JWG1001868	
Toluene	**1.3**		1.0	0.47	1	05/25/10	05/25/10	JWG1001868	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001868	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001868	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/25/10	05/25/10	JWG1001868	
2-Hexanone	ND	U	25	2.1	1	05/25/10	05/25/10	JWG1001868	
Dibromochloromethane	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001868	J(3)

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278
Date Collected: 05/13/2010
Date Received: 05/14/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: DUP
Lab Code: J1002278-007

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001868	
Chlorobenzene	ND	U	1.0	0.42	1	05/25/10	05/25/10	JWG1001868	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/25/10	05/25/10	JWG1001868	
Ethylbenzene	**1.8**		1.0	0.52	1	05/25/10	05/25/10	JWG1001868	
m,p-Xylenes	**11**		2.0	1.1	1	05/25/10	05/25/10	JWG1001868	
o-Xylene	**3.2**		1.0	0.49	1	05/25/10	05/25/10	JWG1001868	
Styrene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001868	
Bromoform	ND	UJ	2.0	0.44	1	05/25/10	05/25/10	JWG1001868	J(3)
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001868	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/25/10	05/25/10	JWG1001868	
1,4-Dichlorobenzene	**1.5**		1.0	0.46	1	05/25/10	05/25/10	JWG1001868	
trans-1,4-Dichloro-2-butene	ND	UJ	20	4.3	1	05/25/10	05/25/10	JWG1001868	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001868	
1,2-Dibromo-3-chloropropane (DI	ND	U	5.0	2.3	1	05/25/10	05/25/10	JWG1001868	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	71-122	05/25/10	Acceptable
4-Bromofluorobenzene	110	75-120	05/25/10	Acceptable
Dibromofluoromethane	100	82-116	05/25/10	Acceptable
Toluene-d8	104	88-117	05/25/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002278
Project:	JED SWDF	**Date Collected:**	05/13/2010
Sample Matrix:	Water	**Date Received:**	05/14/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	J1002278-008	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/25/10	05/25/10	JWG1001868	
Vinyl Chloride	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001868	
Bromomethane	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001868	
Chloroethane	ND	U	5.0	0.68	1	05/25/10	05/25/10	JWG1001868	
Trichlorofluoromethane	ND	U	20	0.71	1	05/25/10	05/25/10	JWG1001868	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/25/10	05/25/10	JWG1001868	
Acetone	ND	U	50	5.6	1	05/25/10	05/25/10	JWG1001868	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/25/10	05/25/10	JWG1001868	
Carbon Disulfide	ND	U	10	3.1	1	05/25/10	05/25/10	JWG1001868	
Methylene Chloride	ND	U	5.0	0.45	1	05/25/10	05/25/10	JWG1001868	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/25/10	05/25/10	JWG1001868	
Acrylonitrile	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001868	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/25/10	05/25/10	JWG1001868	
Vinyl Acetate	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001868	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/25/10	05/25/10	JWG1001868	
2-Butanone (MEK)	ND	U	10	2.5	1	05/25/10	05/25/10	JWG1001868	
Bromochloromethane	ND	U	5.0	0.67	1	05/25/10	05/25/10	JWG1001868	
Chloroform	ND	U	1.0	0.35	1	05/25/10	05/25/10	JWG1001868	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001868	
Carbon Tetrachloride	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001868	J(3)
Benzene	ND	U	1.0	0.066	1	05/25/10	05/25/10	JWG1001868	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001868	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/25/10	05/25/10	JWG1001868	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001868	
Dibromomethane	ND	U	5.0	0.39	1	05/25/10	05/25/10	JWG1001868	
Bromodichloromethane	ND	U	1.0	0.19	1	05/25/10	05/25/10	JWG1001868	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/25/10	05/25/10	JWG1001868	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/25/10	05/25/10	JWG1001868	
Toluene	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001868	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001868	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001868	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/25/10	05/25/10	JWG1001868	
2-Hexanone	ND	U	25	2.1	1	05/25/10	05/25/10	JWG1001868	
Dibromochloromethane	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001868	J(3)

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278
Date Collected: 05/13/2010
Date Received: 05/14/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1002278-008

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001868	
Chlorobenzene	ND	U	1.0	0.42	1	05/25/10	05/25/10	JWG1001868	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/25/10	05/25/10	JWG1001868	
Ethylbenzene	ND	U	1.0	0.52	1	05/25/10	05/25/10	JWG1001868	
m,p-Xylenes	ND	U	2.0	1.1	1	05/25/10	05/25/10	JWG1001868	
o-Xylene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001868	
Styrene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001868	
Bromoform	ND	UJ	2.0	0.44	1	05/25/10	05/25/10	JWG1001868	J(3)
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001868	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/25/10	05/25/10	JWG1001868	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/25/10	05/25/10	JWG1001868	
trans-1,4-Dichloro-2-butene	ND	UJ	20	4.3	1	05/25/10	05/25/10	JWG1001868	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001868	
1,2-Dibromo-3-chloropropane (DI	ND	U	5.0	2.3	1	05/25/10	05/25/10	JWG1001868	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	95	71-122	05/25/10	Acceptable
4-Bromofluorobenzene	110	75-120	05/25/10	Acceptable
Dibromofluoromethane	96	82-116	05/25/10	Acceptable
Toluene-d8	105	88-117	05/25/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1001868-4

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/24/10	05/24/10	JWG1001868	
Vinyl Chloride	ND	U	1.0	0.16	1	05/24/10	05/24/10	JWG1001868	
Bromomethane	ND	U	1.0	0.49	1	05/24/10	05/24/10	JWG1001868	
Chloroethane	ND	U	5.0	0.68	1	05/24/10	05/24/10	JWG1001868	
Trichlorofluoromethane	ND	U	20	0.71	1	05/24/10	05/24/10	JWG1001868	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/24/10	05/24/10	JWG1001868	
Acetone	ND	U	50	5.6	1	05/24/10	05/24/10	JWG1001868	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/24/10	05/24/10	JWG1001868	
Carbon Disulfide	ND	U	10	3.1	1	05/24/10	05/24/10	JWG1001868	
Methylene Chloride	ND	U	5.0	0.45	1	05/24/10	05/24/10	JWG1001868	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/24/10	05/24/10	JWG1001868	
Acrylonitrile	ND	U	10	2.7	1	05/24/10	05/24/10	JWG1001868	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/24/10	05/24/10	JWG1001868	
Vinyl Acetate	ND	U	10	2.7	1	05/24/10	05/24/10	JWG1001868	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/24/10	05/24/10	JWG1001868	
2-Butanone (MEK)	ND	U	10	2.5	1	05/24/10	05/24/10	JWG1001868	
Bromochloromethane	ND	U	5.0	0.67	1	05/24/10	05/24/10	JWG1001868	
Chloroform	ND	U	1.0	0.35	1	05/24/10	05/24/10	JWG1001868	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/24/10	05/24/10	JWG1001868	
Carbon Tetrachloride	ND	UJ	1.0	0.34	1	05/24/10	05/24/10	JWG1001868	J(3)
Benzene	ND	U	1.0	0.066	1	05/24/10	05/24/10	JWG1001868	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/24/10	05/24/10	JWG1001868	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/24/10	05/24/10	JWG1001868	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/24/10	05/24/10	JWG1001868	
Dibromomethane	ND	U	5.0	0.39	1	05/24/10	05/24/10	JWG1001868	
Bromodichloromethane	ND	U	1.0	0.19	1	05/24/10	05/24/10	JWG1001868	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/24/10	05/24/10	JWG1001868	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/24/10	05/24/10	JWG1001868	
Toluene	ND	U	1.0	0.47	1	05/24/10	05/24/10	JWG1001868	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/24/10	05/24/10	JWG1001868	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/24/10	05/24/10	JWG1001868	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/24/10	05/24/10	JWG1001868	
2-Hexanone	ND	U	25	2.1	1	05/24/10	05/24/10	JWG1001868	
Dibromochloromethane	ND	UJ	1.0	0.34	1	05/24/10	05/24/10	JWG1001868	J(3)

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002278
Project:	JED SWDF	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG1001868-4	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/24/10	05/24/10	JWG1001868	
Chlorobenzene	ND	U	1.0	0.42	1	05/24/10	05/24/10	JWG1001868	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/24/10	05/24/10	JWG1001868	
Ethylbenzene	ND	U	1.0	0.52	1	05/24/10	05/24/10	JWG1001868	
m,p-Xylenes	ND	U	2.0	1.1	1	05/24/10	05/24/10	JWG1001868	
o-Xylene	ND	U	1.0	0.49	1	05/24/10	05/24/10	JWG1001868	
Styrene	ND	U	1.0	0.49	1	05/24/10	05/24/10	JWG1001868	
Bromoform	ND	UJ	2.0	0.44	1	05/24/10	05/24/10	JWG1001868	J(3)
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/24/10	05/24/10	JWG1001868	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/24/10	05/24/10	JWG1001868	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/24/10	05/24/10	JWG1001868	
trans-1,4-Dichloro-2-butene	ND	UJ	20	4.3	1	05/24/10	05/24/10	JWG1001868	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/24/10	05/24/10	JWG1001868	
1,2-Dibromo-3-chloropropane (DI	ND	U	5.0	2.3	1	05/24/10	05/24/10	JWG1001868	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	95	71-122	05/24/10	Acceptable
4-Bromofluorobenzene	108	75-120	05/24/10	Acceptable
Dibromofluoromethane	95	82-116	05/24/10	Acceptable
Toluene-d8	106	88-117	05/24/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278
Date Collected: 05/13/2010
Date Received: 05/14/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MW-7A
Lab Code: J1002278-001

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0071	1	05/20/10	05/22/10	JWG1001766	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0058	1	05/20/10	05/22/10	JWG1001766	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	113	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002278
Project:	JED SWDF	**Date Collected:**	05/13/2010
Sample Matrix:	Water	**Date Received:**	05/14/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-7B	**Units:**	ug/L
Lab Code:	J1002278-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0072	1	05/20/10	05/22/10	JWG1001766	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0058	1	05/20/10	05/22/10	JWG1001766	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	113	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002278
Project:	JED SWDF	**Date Collected:**	05/13/2010
Sample Matrix:	Water	**Date Received:**	05/14/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-8A	**Units:**	ug/L
Lab Code:	J1002278-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0072	1	05/20/10	05/22/10	JWG1001766	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0058	1	05/20/10	05/22/10	JWG1001766	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	110	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002278
Project:	JED SWDF	**Date Collected:**	05/13/2010
Sample Matrix:	Water	**Date Received:**	05/14/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-8B	**Units:**	ug/L
Lab Code:	J1002278-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0071	1	05/20/10	05/22/10	JWG1001766	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0058	1	05/20/10	05/22/10	JWG1001766	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	112	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002278
Project:	JED SWDF	**Date Collected:**	05/13/2010
Sample Matrix:	Water	**Date Received:**	05/14/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-9A	**Units:**	ug/L
Lab Code:	J1002278-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0072	1	05/20/10	05/22/10	JWG1001766	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0059	1	05/20/10	05/22/10	JWG1001766	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	116	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002278
Project:	JED SWDF	**Date Collected:**	05/13/2010
Sample Matrix:	Water	**Date Received:**	05/14/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-9B	**Units:**	ug/L
Lab Code:	J1002278-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0071	1	05/20/10	05/22/10	JWG1001766	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0058	1	05/20/10	05/22/10	JWG1001766	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	117	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278
Date Collected: 05/13/2010
Date Received: 05/14/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: DUP
Lab Code: J1002278-007

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0071	1	05/20/10	05/22/10	JWG1001766	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0058	1	05/20/10	05/22/10	JWG1001766	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	112	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002278
Project:	JED SWDF	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG1001766-4	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	05/20/10	05/21/10	JWG1001766	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	05/20/10	05/21/10	JWG1001766	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	93	77-150	05/21/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278
Date Collected: 5/13/10 1350
Date Received: 5/14/10

Sample Name: MW-7A
Lab Code: J1002278-001

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	5/26/10 21:29
Arsenic, Total	6020	**1.74**		µg/L	0.50	0.14	1	5/25/10	5/26/10 21:29
Barium, Total	6020	**11.8**		µg/L	2.0	0.5	1	5/25/10	5/26/10 21:29
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 21:29
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	5/26/10 21:29
Chromium, Total	6020	**2.1**		µg/L	2.0	0.6	1	5/25/10	5/26/10 21:29
Cobalt, Total	6020	**1.5**		µg/L	1.0	0.2	1	5/25/10	5/26/10 21:29
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	5/26/10 21:29
Iron, Total	6010B	**6680**		µg/L	100	10	1	5/21/10	5/25/10 20:27
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 21:29
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 16:22
Nickel, Total	6020	**1.7**	I	µg/L	2.0	0.3	1	5/25/10	5/26/10 21:29
Selenium, Total	6020	**2.2**	I	µg/L	5.0	0.9	1	5/25/10	5/26/10 21:29
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	5/27/10 14:25
Sodium, Total	6010B	**12.5**		mg/L	0.50	0.02	1	5/21/10	5/25/10 20:25
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	5/26/10 21:29
Vanadium, Total	6020	**1.9**	I	µg/L	5.0	1.2	1	5/25/10	5/26/10 21:29
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	5/26/10 21:29

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278
Date Collected: 5/13/10 1420
Date Received: 5/14/10

Sample Name: MW-7B
Lab Code: J1002278-002

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	5/26/10 21:34
Arsenic, Total	6020	**0.83**		µg/L	0.50	0.14	1	5/25/10	5/26/10 21:34
Barium, Total	6020	**46.4**		µg/L	2.0	0.5	1	5/25/10	5/26/10 21:34
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 21:34
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	5/26/10 21:34
Chromium, Total	6020	**1.2**	I	µg/L	2.0	0.6	1	5/25/10	5/26/10 21:34
Cobalt, Total	6020	**0.4**	I	µg/L	1.0	0.2	1	5/25/10	5/26/10 21:34
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	5/26/10 21:34
Iron, Total	6010B	**1920**		µg/L	100	10	1	5/21/10	5/25/10 20:31
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 21:34
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 16:23
Nickel, Total	6020	**0.7**	I	µg/L	2.0	0.3	1	5/25/10	5/26/10 21:34
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/25/10	5/26/10 21:34
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	5/27/10 14:29
Sodium, Total	6010B	**12.1**		mg/L	0.50	0.02	1	5/21/10	5/25/10 20:29
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	5/26/10 21:34
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	5/25/10	5/26/10 21:34
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	5/26/10 21:34

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002278
Project:	JED SWDF	**Date Collected:**	5/13/10 1100
Sample Matrix:	Water	**Date Received:**	5/14/10
Sample Name:	MW-8A		
Lab Code:	J1002278-003	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	5/26/10 21:50
Arsenic, Total	6020	**1.04**		µg/L	0.50	0.14	1	5/25/10	5/26/10 21:50
Barium, Total	6020	**41.4**		µg/L	2.0	0.5	1	5/25/10	5/26/10 21:50
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 21:50
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	5/26/10 21:50
Chromium, Total	6020	**1.7**	I	µg/L	2.0	0.6	1	5/25/10	5/26/10 21:50
Cobalt, Total	6020	**2.0**		µg/L	1.0	0.2	1	5/25/10	5/26/10 21:50
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	5/26/10 21:50
Iron, Total	6010B	**3130**		µg/L	100	10	1	5/21/10	5/25/10 20:35
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 21:50
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 16:24
Nickel, Total	6020	**4.2**		µg/L	2.0	0.3	1	5/25/10	5/26/10 21:50
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/25/10	5/26/10 21:50
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	5/27/10 14:32
Sodium, Total	6010B	**27.7**		mg/L	0.50	0.02	1	5/21/10	5/25/10 20:34
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	5/26/10 21:50
Vanadium, Total	6020	**3.0**	I	µg/L	5.0	1.2	1	5/25/10	5/26/10 21:50
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	5/26/10 21:50

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278
Date Collected: 5/13/10 1220
Date Received: 5/14/10

Sample Name: MW-8B
Lab Code: J1002278-004

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	5/26/10 21:55
Arsenic, Total	6020	**0.55**		µg/L	0.50	0.14	1	5/25/10	5/26/10 21:55
Barium, Total	6020	**39.8**		µg/L	2.0	0.5	1	5/25/10	5/26/10 21:55
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 21:55
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	5/26/10 21:55
Chromium, Total	6020	**4.4**		µg/L	2.0	0.6	1	5/25/10	5/26/10 21:55
Cobalt, Total	6020	**0.2**	I	µg/L	1.0	0.2	1	5/25/10	5/26/10 21:55
Copper, Total	6020	**0.6**	I	µg/L	2.0	0.5	1	5/25/10	5/26/10 21:55
Iron, Total	6010B	**850**		µg/L	100	10	1	5/21/10	5/25/10 20:40
Lead, Total	6020	**3.4**		µg/L	1.0	0.3	1	5/25/10	5/26/10 21:55
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 16:26
Nickel, Total	6020	**1**	I	µg/L	2.0	0.3	1	5/25/10	5/26/10 21:55
Selenium, Total	6020	**1.2**	I	µg/L	5.0	0.9	1	5/25/10	5/26/10 21:55
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	5/27/10 14:36
Sodium, Total	6010B	**6.42**		mg/L	0.50	0.02	1	5/21/10	5/25/10 20:38
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	5/26/10 21:55
Vanadium, Total	6020	**8.5**		µg/L	5.0	1.2	1	5/25/10	5/26/10 21:55
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	5/26/10 21:55

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278
Date Collected: 5/13/10 0900
Date Received: 5/14/10

Sample Name: MW-9A
Lab Code: J1002278-005

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	5/26/10 22:00
Arsenic, Total	6020	**1.67**		µg/L	0.50	0.14	1	5/25/10	5/26/10 22:00
Barium, Total	6020	**2.9**		µg/L	2.0	0.5	1	5/25/10	5/26/10 22:00
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 22:00
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	5/26/10 22:00
Chromium, Total	6020	**2.9**		µg/L	2.0	0.6	1	5/25/10	5/26/10 22:00
Cobalt, Total	6020	**0.3**	I	µg/L	1.0	0.2	1	5/25/10	5/26/10 22:00
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	5/26/10 22:00
Iron, Total	6010B	**790**		µg/L	100	10	1	5/21/10	5/25/10 20:44
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 22:00
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 16:27
Nickel, Total	6020	**1.2**	I	µg/L	2.0	0.3	1	5/25/10	5/26/10 22:00
Selenium, Total	6020	**1.7**	I	µg/L	5.0	0.9	1	5/25/10	5/26/10 22:00
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	5/27/10 14:39
Sodium, Total	6010B	**13.7**		mg/L	0.50	0.02	1	5/21/10	5/25/10 20:43
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	5/26/10 22:00
Vanadium, Total	6020	**2.2**	I	µg/L	5.0	1.2	1	5/25/10	5/26/10 22:00
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	5/26/10 22:00

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002278
Project:	JED SWDF	**Date Collected:**	5/13/10 0820
Sample Matrix:	Water	**Date Received:**	5/14/10
Sample Name:	MW-9B		
Lab Code:	J1002278-006	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	5/26/10 22:05
Arsenic, Total	6020	**0.69**		µg/L	0.50	0.14	1	5/25/10	5/26/10 22:05
Barium, Total	6020	**50.6**		µg/L	2.0	0.5	1	5/25/10	5/26/10 22:05
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 22:05
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	5/26/10 22:05
Chromium, Total	6020	**1.4**	I	µg/L	2.0	0.6	1	5/25/10	5/26/10 22:05
Cobalt, Total	6020	**0.5**	I	µg/L	1.0	0.2	1	5/25/10	5/26/10 22:05
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	5/26/10 22:05
Iron, Total	6010B	**1900**		µg/L	100	10	1	5/21/10	5/25/10 20:49
Lead, Total	6020	**0.4**	I	µg/L	1.0	0.3	1	5/25/10	5/26/10 22:05
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 16:29
Nickel, Total	6020	**0.5**	I	µg/L	2.0	0.3	1	5/25/10	5/26/10 22:05
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/25/10	5/26/10 22:05
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	5/27/10 14:50
Sodium, Total	6010B	**14.5**		mg/L	0.50	0.02	1	5/21/10	5/25/10 20:47
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	5/26/10 22:05
Vanadium, Total	6020	**1.9**	I	µg/L	5.0	1.2	1	5/25/10	5/26/10 22:05
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	5/26/10 22:05

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002278
Project:	JED SWDF	**Date Collected:**	5/13/10 0000
Sample Matrix:	Water	**Date Received:**	5/14/10
Sample Name:	DUP		
Lab Code:	J1002278-007	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	5/26/10 22:11
Arsenic, Total	6020	**1.44**		µg/L	0.50	0.14	1	5/25/10	5/26/10 22:11
Barium, Total	6020	**2.6**		µg/L	2.0	0.5	1	5/25/10	5/26/10 22:11
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 22:11
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	5/26/10 22:11
Chromium, Total	6020	**2.2**		µg/L	2.0	0.6	1	5/25/10	5/26/10 22:11
Cobalt, Total	6020	**0.2**	I	µg/L	1.0	0.2	1	5/25/10	5/26/10 22:11
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	5/26/10 22:11
Iron, Total	6010B	**780**		µg/L	100	10	1	5/21/10	5/25/10 20:53
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 22:11
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 16:30
Nickel, Total	6020	**1.0**	I	µg/L	2.0	0.3	1	5/25/10	5/26/10 22:11
Selenium, Total	6020	**1**	I	µg/L	5.0	0.9	1	5/25/10	5/26/10 22:11
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	5/27/10 14:53
Sodium, Total	6010B	**13.4**		mg/L	0.50	0.02	1	5/21/10	5/25/10 20:51
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	5/26/10 22:11
Vanadium, Total	6020	**2.3**	I	µg/L	5.0	1.2	1	5/25/10	5/26/10 22:11
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	5/26/10 22:11

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: J1002278-MB

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	5/26/10 20:48
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	5/25/10	5/26/10 20:48
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	5/26/10 20:48
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 20:48
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	5/26/10 20:48
Chromium, Total	6020	ND	U	µg/L	2.0	0.6	1	5/25/10	5/26/10 20:48
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	5/25/10	5/26/10 20:48
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	5/26/10 20:48
Iron, Total	6010B	ND	U	µg/L	100	10	1	5/21/10	5/25/10 19:18
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 20:48
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 15:48
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	5/26/10 20:48
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/25/10	5/26/10 20:48
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	5/27/10 13:50
Sodium, Total	6010B	ND	U	mg/L	0.50	0.02	1	5/21/10	5/25/10 19:16
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	5/26/10 20:48
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	5/25/10	5/26/10 20:48
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	5/26/10 20:48

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002278
Date Collected : 05/13/10
Date Received : 05/14/10

Inorganic Parameters

Sample Name : MW-7A
Lab Code : J1002278-001
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	0.006	1	05/17/10 15:04	4.4	
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/14/10 17:47	26	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/14/10 18:32	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/20/10 20:15	89	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002278
Date Collected : 05/13/10
Date Received : 05/14/10

Inorganic Parameters

Sample Name : MW-7B
Lab Code : J1002278-002
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	0.006	1	05/17/10 15:04	0.12	
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/14/10 17:47	30	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/14/10 18:47	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/20/10 20:15	91	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002278
Date Collected : 05/13/10
Date Received : 05/14/10

Inorganic Parameters

Sample Name : MW-8A
Lab Code : J1002278-003
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	0.006	1	05/17/10 15:04	5.2	
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/14/10 17:47	76	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/14/10 19:02	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/20/10 20:15	160	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002278
Date Collected : 05/13/10
Date Received : 05/14/10

Inorganic Parameters

Sample Name : MW-8B
Lab Code : J1002278-004
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	0.006	1	05/17/10 15:04	0.056	
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/14/10 17:47	10	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/14/10 19:17	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/20/10 20:15	67	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002278
Date Collected : 05/13/10
Date Received : 05/14/10

Inorganic Parameters

Sample Name : MW-9A
Lab Code : J1002278-005
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	0.006	1	05/17/10 15:04	9.8	
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/14/10 17:47	29	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/14/10 19:32	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/20/10 20:15	140	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002278
Date Collected : 05/13/10
Date Received : 05/14/10

Inorganic Parameters

Sample Name : MW-9B
Lab Code : J1002278-006
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	0.006	1	05/17/10 15:04	0.13	
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/14/10 17:47	33	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/14/10 19:46	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/20/10 20:15	89	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002278
Date Collected : 05/13/10
Date Received : 05/14/10

Inorganic Parameters

Sample Name : DUP
Lab Code : J1002278-007
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	0.006	1	05/17/10 15:04	9.8	
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/14/10 17:47	29	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/14/10 20:01	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/20/10 20:15	140	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002278
Date Collected : NA
Date Received : NA

Inorganic Parameters

Sample Name : Method Blank
Lab Code : J1002278-MB
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	0.006	1	05/17/10 15:04	U	
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/14/10 17:47	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/14/10 17:47	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/20/10 20:15	U	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278

Surrogate Recovery Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
MW-7A	J1002278-001	98	107	100	104
MW-7B	J1002278-002	96	108	99	105
MW-8A	J1002278-003	99	108	99	105
MW-8B	J1002278-004	98	108	97	104
MW-9A	J1002278-005	96	107	96	103
MW-9B	J1002278-006	97	110	99	104
DUP	J1002278-007	98	110	100	104
Trip Blank	J1002278-008	95	110	96	105
Method Blank	JWG1001868-4	95	108	95	106
Lab Control Sample	JWG1001868-3	96	107	98	105

Surrogate Recovery Control Limits (%)

Sur1 =	1,2-Dichloroethane-d4	71-122
Sur2 =	4-Bromofluorobenzene	75-120
Sur3 =	Dibromofluoromethane	82-116
Sur4 =	Toluene-d8	88-117

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002278
Project:	JED SWDF	**Date Extracted:**	05/24/2010
Sample Matrix:	Water	**Date Analyzed:**	05/24/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	8260B	**Basis:**	NA
		Level:	Low
		Extraction Lot:	JWG1001868

	Lab Control Sample JWG1001868-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Chloromethane	17.5	20.0	87	67-135
Vinyl Chloride	19.1	20.0	96	78-132
Bromomethane	19.2	20.0	96	79-130
Chloroethane	19.4	20.0	97	74-126
Trichlorofluoromethane	17.2	20.0	86	74-134
1,1-Dichloroethene	19.6	20.0	98	78-130
Acetone	88.8	100	89	67-133
Iodomethane (Methyl Iodide)	86.2	100	86	68-134
Carbon Disulfide	91.0	100	91	76-138
Methylene Chloride	19.4	20.0	97	72-124
trans-1,2-Dichloroethene	19.7	20.0	98	77-124
Acrylonitrile	99.2	100	99	77-127
1,1-Dichloroethane	19.0	20.0	95	80-128
Vinyl Acetate	92.5	100	92	61-148
cis-1,2-Dichloroethene	19.1	20.0	95	80-126
2-Butanone (MEK)	93.1	100	93	73-127
Bromochloromethane	19.4	20.0	97	79-129
Chloroform	18.5	20.0	92	83-124
1,1,1-Trichloroethane (TCA)	17.7	20.0	89	79-124
Carbon Tetrachloride	15.5	20.0	77 *	81-125
Benzene	18.3	20.0	91	79-119
1,2-Dichloroethane (EDC)	17.9	20.0	90	80-124
Trichloroethene (TCE)	18.2	20.0	91	76-124
1,2-Dichloropropane	19.9	20.0	100	79-123
Dibromomethane	18.5	20.0	92	83-123
Bromodichloromethane	17.0	20.0	85	81-123
cis-1,3-Dichloropropene	17.7	20.0	88	86-123
4-Methyl-2-pentanone (MIBK)	95.8	100	96	72-136
Toluene	19.3	20.0	97	86-117
trans-1,3-Dichloropropene	16.6	20.0	83	83-124
1,1,2-Trichloroethane	19.7	20.0	98	86-114
Tetrachloroethene (PCE)	19.0	20.0	95	80-121
2-Hexanone	95.5	100	96	71-138
Dibromochloromethane	15.8	20.0	79 *	82-121
1,2-Dibromoethane (EDB)	19.6	20.0	98	88-117
Chlorobenzene	19.1	20.0	96	86-113

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278
Date Extracted: 05/24/2010
Date Analyzed: 05/24/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1001868

Analyte Name	Lab Control Sample JWG1001868-3 Lab Control Spike Result	Expected	%Rec		%Rec Limits
1,1,1,2-Tetrachloroethane	17.2	20.0	86		85-117
Ethylbenzene	19.5	20.0	97		90-118
m,p-Xylenes	39.4	40.0	99		86-121
o-Xylene	18.8	20.0	94		89-119
Styrene	19.8	20.0	99		89-122
Bromoform	12.8	20.0	64	*	68-129
1,1,2,2-Tetrachloroethane	19.1	20.0	96		83-120
1,2,3-Trichloropropane	18.3	20.0	91		83-123
1,4-Dichlorobenzene	18.7	20.0	94		83-113
trans-1,4-Dichloro-2-butene	1.39	20.0	7	*	53-143
1,2-Dichlorobenzene	19.2	20.0	96		84-115
1,2-Dibromo-3-chloropropane (DBCP	14.7	20.0	73		62-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278

Surrogate Recovery Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
MW-7A	J1002278-001	113
MW-7B	J1002278-002	113
MW-8A	J1002278-003	110
MW-8B	J1002278-004	112
MW-9A	J1002278-005	116
MW-9B	J1002278-006	117
DUP	J1002278-007	112
Method Blank	JWG1001766-4	93
Lab Control Sample	JWG1001766-3	104

Surrogate Recovery Control Limits (%)

Sur1 = 1,1,1,2-Tetrachloroethane 77-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278
Date Extracted: 05/20/2010
Date Analyzed: 05/21/2010

Lab Control Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1001766

	Lab Control Sample JWG1001766-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,2-Dibromoethane (EDB)	0.0141	0.0143	99	70-130
1,2-Dibromo-3-chloropropane (DBCP	0.0134	0.0143	94	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278
Date Analyzed: 5/24/10 - 5/27/10

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1002278-LCS Result	Expected	% Rec	% Rec Limits
Antimony, Total	6020	**53.4**	50.0	107	80 - 120
Arsenic, Total	6020	**49.8**	50.0	100	80 - 120
Barium, Total	6020	**52.4**	50.0	105	80 - 120
Beryllium, Total	6020	**47.9**	50.0	96	80 - 120
Cadmium, Total	6020	**49.9**	50.0	100	80 - 120
Chromium, Total	6020	**52.5**	50.0	105	80 - 120
Cobalt, Total	6020	**53.2**	50.0	106	80 - 120
Copper, Total	6020	**51.4**	50.0	103	80 - 120
Iron, Total	6010B	**2020**	2000	101	80 - 120
Lead, Total	6020	**54.6**	50.0	109	80 - 120
Mercury, Total	7470A	**5.23**	5.00	105	80 - 120
Nickel, Total	6020	**51.8**	50.0	104	80 - 120
Selenium, Total	6020	**45.0**	50.0	90	80 - 120
Silver, Total	6020	**53.4**	50.0	107	80 - 120
Thallium, Total	6020	**54.0**	50.0	108	80 - 120
Vanadium, Total	6020	**53.1**	50.0	106	80 - 120
Zinc, Total	6020	**93.8**	100	94	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1002278
Date Analyzed: 5/25/10

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1002278-LCS Result	Expected	% Rec	% Rec Limits
Sodium, Total	6010B	**10.1**	10.0	101	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002278
Date Collected : 05/13/10
Date Received : 05/14/10
Date Extracted : NA
Date Analyzed : 05/14/10

Duplicate Summary
Inorganic Parameters

Sample Name : MW-7A
Lab Code : J1002278-001DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Chloride	mg/L (ppm)	300.0	0.5	26	26	26	<1	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	U	U	U	-	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002278
Date Collected : 05/13/10
Date Received : 05/14/10
Date Extracted : NA
Date Analyzed : 05/14/10

Matrix Spike Summary
Inorganic Parameters

Sample Name : MW-7A
Lab Code : J1002278-001MS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Chloride	mg/L (ppm)	300.0	0.5	50	26	72.1	92	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	5.0	U	4.71	94	90-110	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002278
Date Collected : 05/13/10
Date Received : 05/14/10
Date Extracted : NA
Date Analyzed : 05/14/10

Duplicate Summary
Inorganic Parameters

Sample Name : MW-9B
Lab Code : J1002278-006DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Chloride	mg/L (ppm)	300.0	0.5	33	33	33	<1	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	U	U	U	-	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J1002278
Date Collected : 05/13/10
Date Received : 05/14/10
Date Extracted : NA
Date Analyzed : 05/14/10

Matrix Spike Summary
Inorganic Parameters

Sample Name : MW-9B
Lab Code : J1002278-006MS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Chloride	mg/L (ppm)	300.0	0.5	50	33	79.0	92	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	5.0	U	4.69	94	90-110	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Environmental Planning Specialists	**Service Request :**	J1002278
Project Name :	JED SWDF	**Date Collected :**	NA
Project Number :	NA	**Date Received :**	NA
Sample Matrix :	WATER	**Date Extracted :**	NA
		Date Analyzed :	05/14-20/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Laboratory Control Sample
Lab Code : J1002278-LCS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	1.00	0.948	95	90-110	
Chloride	mg/L (ppm)	300.0	50	48.7	97	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	4.75	95	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	300	298	99	85-115	

Report By:Palimi

Columbia Analytical Services, Inc.
Cooler Receipt Form

Client: EPS Service Request #: J1002278

Project: JED SWDF

Cooler received on 5-14-10 and opened on 5-14-10 by SL

COURIER: CAS UPS FEDEX Client Other _____ Airbill # _____

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 4 +/- 2 degrees C)	5.3			
5	Thermometer ID	T16			
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				
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 VOA vials checked for absence 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

Jacksonville Laboratory
Condition Upon Receipt - Sample pH

SR # : J 1002278 Date: 5-14-10 Initials: SC

Note that pH is check and meets the required pH criterion listed in the column heading unless otherwise noted on the cooler receipt form.

	Bottle Code																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	40mL	40mL	40mL	125mL	125mL	125mL	125mL	250mL	250mL	250mL	250mL	250mL	250mL	250mL	500mL	500mL	500mL	500mL	500mL	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	100ml	Ziplock	Misc.
Container	G	G	G	P	P	P	P	P	P	P	P	P	G	G	P	P	P	P	G	P	P	G	G	G	G	G	G	G	P	P	Misc.
Pres.		HCl	Na2S2O3		HCl	H2SO4	HNO3		H2SO4	HNO3	ZnAc2 NaOH	NaOH		HNO3		HCl	H2SO4	HNO3			HNO3		HCl	H2SO4					Sodium Thiosulfate		
Req. pH	N/A	<2	N/A	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	<2	N/A	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A		N/A
Sample #	-	-		-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-		-				-	-		-
-001	3	3				1	1	1																							-001
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NOTE: VOA pH checks are performed by the analytical area, not sample control

Columbia Analytical Services™

www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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

PAGE 1 OF 1

SR # J1002278

CAS Contact

Project Name: JED SWDF	Project Number:
Project Manager: Kirk Wills	Email Address: kwills@envplanning.com
Company/Address: EPS 1936 Bruce B Downs Blvd #328 Wesley Chapel, FL 33543	
Phone #: 813-388-1026	FAX#:
Sampler's Signature: Joe Terry	Sampler's Printed Name: Joe Terry

ANALYSIS REQUESTED (Include Method Number and [redacted]

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	8260	8011	Metals	NH3	TDS, Cl, NO3											REMARKS/ ALTERNATE DESCRIPTION
PRESERVATIVE					1	0	2	3	0											
MW-7A		5.13.10	1350	GW	9	3	3	1	1	1										
MW-7B		5.13.10	1420	GW	9	3	3	1	1	1										
MW-8A		5.13.10	1100	GW	9	3	3	1	1	1										
MW-8B		5.13.10	1220	GW	9	3	3	1	1	1										
MW-9A		5.13.10	0900	GW	9	3	3	1	1	1										
MW-9B		5.13.10	0820	GW	9	3	3	1	1	1										
DUP		5.13.10	—	GW	9	3	3	1	1	1										
Trip Blank		5.4.10	0800	DI H_2O	2	2														

NUMBER OF CONTAINERS

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: 10133-JED-1

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: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
63					
Signature: Joe Terry	Signature: Robert Nicholas	Signature: Robert Nicholas	Signature: Shawn Lightsey	Signature	Signature
Printed Name: Joe Terry	Printed Name: Robert Nicholas	Printed Name: Robert Nicholas	Printed Name: Shawn Lightsey	Printed Name	Printed Name
Firm: EPS	Firm: CAS	Firm: CAS	Firm: CAS	Firm	Firm
Date/Time: 5.14.10/1217	Date/Time: 5/14/10 12:17	Date/Time: 5/14/10 2:10	Date/Time: 5-14-10 1410	Date/Time	Date/Time

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

JSCOC-06/20/08

Columbia Analytical Services™ 9143 Philips Highway, Suite 200 | Jacksonville, FL 32256 | 904-739-2277 | 904-739-2011 fax | www.caslab.com

May 28, 2010

Service Request No: J1002306

Kirk Wills
Environmental Planning Specialists
1936 Bruce B Downs Blvd
#328
Wesley Chapel, FL 33543

Laboratory Results for: JED SWDF/Task 02

Dear Kirk:

Enclosed are the results of the sample(s) submitted to our laboratory on May 18, 2010. For your reference, these analyses have been assigned our service request number **J1002306**.

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.

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

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502. Other state accreditations include: Georgia, #958; Kentucky, #63; Louisiana, #02086; North Carolina, #527; South Carolina, #96021001; Texas, #T104704197-09-TX.

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Environmental Planning Specialists	**Service Request No.:**	J1002306
Project:	JED SWDF	**Date Received:**	5/18/10
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Six water samples and one trip blank were received for analysis at Columbia Analytical Services on 5/18/10. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

The samples were analyzed for Volatile Organics using EPA Method 8260. The following observations were made regarding this delivery group.

Continuing Calibration Verification Exceptions

The primary evaluation criterion was exceeded for the following analytes in Continuing Calibration Verification (CCV) JWG1001901-2: Bromoform and trans-1,4-Dichloro-2-butene. The analytes in question were not detected in the associated field samples. Since the analytes were detected in the MRL check standard, instrument sensitivity was documented. The data quality was not significantly affected and no further corrective action was taken.

Matrix Spike Recovery Exceptions

The matrix spike recoveries of several analytes for sample MW-4A were outside the control criterion. The matrix spike outlier suggests a potential low bias in this matrix. No further corrective action was appropriate.

Lab Control Sample Exceptions

The spike recoveries of Carbon Tetrachloride, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene, Dibromochloromethane, 1,1,1,2-Tetrachloroethane, Bromoform and trans-1,4-Dichloro-2-butene for Laboratory Control Sample (LCS) JWG1001900-3 were outside the lower control criterion. The analytes in question were not detected in the associated field samples. Since the analytes were detected in the MRL check standard, instrument sensitivity was documented. The data quality was not significantly affected and no further corrective action was taken.

Elevated Method Reporting Limits

The reporting limits are elevated for all analytes in sample MW-5A. The sample was diluted prior to instrumental analysis due to the foaming nature of the matrix. The reporting limits are adjusted to reflect the dilution.

Approved by_____ **Date** 5/28/10

EDB and DBCP by GC-ECD

The samples were analyzed for EDB and DBCP using EPA Method 8011. No problems were observed.

Metals by ICP-MS/ICP-OES/CVAA

The samples were analyzed for Total Metals using EPA Methods 6020/6010B/7470A. No problems were observed.

Batch QC Notes and Discussion

Some quality control samples (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

General Chemistry Parameters

The samples were analyzed for Inorganic Parameters using various EPA and Standard Methods. The following observations were made regarding this delivery group.

Matrix Spike Recovery Exceptions

The matrix spike recovery of Chloride for sample MW-4A was outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The recovery was not significantly outside of control criteria. No further corrective action was needed.

The control criterion for matrix spike recovery of Ammonia for sample MW-4A is not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Approved by _____ **Date** 5/28/10

Florida DEP Data Qualifiers

B Results based upon colony counts outside the acceptable range.

D Measurement was made in the field.

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 practical quantitation limit.

J Estimated value (one of the following reasons is discussed in the project case narrative).
1. The result may be inaccurate because the surrogate recovery limits have been exceeded.
2. No known quality control criteria exists for the component.
3. The reported value failed to meet the established quality control criteria for either precision or accuracy.
4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD).
5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).

K Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).

L Off scale high. The analyte is above the upper limit of the linear calibration range.

M The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.

N Presumptive evidence of the analyte. Confirmation was not performed.

Q Sample held beyond the accepted holding time.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.

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.

Y The laboratory analysis was from an improperly preserved sample.

Z Too many colonies were present (TNTC). 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: Environmental Planning Specialists
Project: JED SWDF/Task 02

Service Request: J1002306

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J1002306-001	MW-4A	5/17/10	14:15
J1002306-002	MW-4B	5/17/10	13:35
J1002306-003	MW-5A	5/17/10	11:55
J1002306-004	MW-5B	5/17/10	12:38
J1002306-005	MW-6A	5/17/10	09:40
J1002306-006	MW-6B	5/17/10	09:07
J1002306-007	Trip Blank	5/17/10	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Collected: 05/17/2010
Date Received: 05/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-4A
Lab Code: J1002306-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/25/10	05/25/10	JWG1001900	
Vinyl Chloride	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001900	
Bromomethane	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001900	
Chloroethane	ND	U	5.0	0.68	1	05/25/10	05/25/10	JWG1001900	
Trichlorofluoromethane	ND	U	20	0.71	1	05/25/10	05/25/10	JWG1001900	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/25/10	05/25/10	JWG1001900	
Acetone	ND	U	50	5.6	1	05/25/10	05/25/10	JWG1001900	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/25/10	05/25/10	JWG1001900	
Carbon Disulfide	ND	U	10	3.1	1	05/25/10	05/25/10	JWG1001900	
Methylene Chloride	ND	U	5.0	0.45	1	05/25/10	05/25/10	JWG1001900	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/25/10	05/25/10	JWG1001900	
Acrylonitrile	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001900	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/25/10	05/25/10	JWG1001900	
Vinyl Acetate	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001900	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/25/10	05/25/10	JWG1001900	
2-Butanone (MEK)	ND	U	10	2.5	1	05/25/10	05/25/10	JWG1001900	
Bromochloromethane	ND	U	5.0	0.67	1	05/25/10	05/25/10	JWG1001900	
Chloroform	ND	U	1.0	0.35	1	05/25/10	05/25/10	JWG1001900	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001900	
Carbon Tetrachloride	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001900	J(3)
Benzene	ND	U	1.0	0.066	1	05/25/10	05/25/10	JWG1001900	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001900	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/25/10	05/25/10	JWG1001900	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001900	
Dibromomethane	ND	U	5.0	0.39	1	05/25/10	05/25/10	JWG1001900	
Bromodichloromethane	ND	U	1.0	0.19	1	05/25/10	05/25/10	JWG1001900	
cis-1,3-Dichloropropene	ND	UJ	1.0	0.15	1	05/25/10	05/25/10	JWG1001900	J(3)
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/25/10	05/25/10	JWG1001900	
Toluene	**1.3**		1.0	0.47	1	05/25/10	05/25/10	JWG1001900	
trans-1,3-Dichloropropene	ND	UJ	1.0	0.16	1	05/25/10	05/25/10	JWG1001900	J(3)
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001900	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/25/10	05/25/10	JWG1001900	
2-Hexanone	ND	U	25	2.1	1	05/25/10	05/25/10	JWG1001900	
Dibromochloromethane	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001900	J(3)

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Collected: 05/17/2010
Date Received: 05/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-4A
Lab Code: J1002306-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001900	
Chlorobenzene	ND	U	1.0	0.42	1	05/25/10	05/25/10	JWG1001900	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.45	1	05/25/10	05/25/10	JWG1001900	J(3)
Ethylbenzene	ND	U	1.0	0.52	1	05/25/10	05/25/10	JWG1001900	
m,p-Xylenes	ND	U	2.0	1.1	1	05/25/10	05/25/10	JWG1001900	
o-Xylene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001900	
Styrene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001900	
Bromoform	ND	UJ	2.0	0.44	1	05/25/10	05/25/10	JWG1001900	J(3)
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001900	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/25/10	05/25/10	JWG1001900	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/25/10	05/25/10	JWG1001900	
trans-1,4-Dichloro-2-butene	ND	UJ	20	4.3	1	05/25/10	05/25/10	JWG1001900	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001900	
1,2-Dibromo-3-chloropropane (DI	ND	U	5.0	2.3	1	05/25/10	05/25/10	JWG1001900	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	71-122	05/25/10	Acceptable
4-Bromofluorobenzene	109	75-120	05/25/10	Acceptable
Dibromofluoromethane	98	82-116	05/25/10	Acceptable
Toluene-d8	103	88-117	05/25/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Collected: 05/17/2010
Date Received: 05/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-4B
Lab Code: J1002306-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/25/10	05/25/10	JWG1001900	
Vinyl Chloride	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001900	
Bromomethane	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001900	
Chloroethane	ND	U	5.0	0.68	1	05/25/10	05/25/10	JWG1001900	
Trichlorofluoromethane	ND	U	20	0.71	1	05/25/10	05/25/10	JWG1001900	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/25/10	05/25/10	JWG1001900	
Acetone	**6.0**	I	50	5.6	1	05/25/10	05/25/10	JWG1001900	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/25/10	05/25/10	JWG1001900	
Carbon Disulfide	ND	U	10	3.1	1	05/25/10	05/25/10	JWG1001900	
Methylene Chloride	ND	U	5.0	0.45	1	05/25/10	05/25/10	JWG1001900	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/25/10	05/25/10	JWG1001900	
Acrylonitrile	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001900	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/25/10	05/25/10	JWG1001900	
Vinyl Acetate	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001900	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/25/10	05/25/10	JWG1001900	
2-Butanone (MEK)	ND	U	10	2.5	1	05/25/10	05/25/10	JWG1001900	
Bromochloromethane	ND	U	5.0	0.67	1	05/25/10	05/25/10	JWG1001900	
Chloroform	ND	U	1.0	0.35	1	05/25/10	05/25/10	JWG1001900	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001900	
Carbon Tetrachloride	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001900	J(3)
Benzene	ND	U	1.0	0.066	1	05/25/10	05/25/10	JWG1001900	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001900	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/25/10	05/25/10	JWG1001900	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001900	
Dibromomethane	ND	U	5.0	0.39	1	05/25/10	05/25/10	JWG1001900	
Bromodichloromethane	ND	U	1.0	0.19	1	05/25/10	05/25/10	JWG1001900	
cis-1,3-Dichloropropene	ND	UJ	1.0	0.15	1	05/25/10	05/25/10	JWG1001900	J(3)
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/25/10	05/25/10	JWG1001900	
Toluene	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001900	
trans-1,3-Dichloropropene	ND	UJ	1.0	0.16	1	05/25/10	05/25/10	JWG1001900	J(3)
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001900	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/25/10	05/25/10	JWG1001900	
2-Hexanone	ND	U	25	2.1	1	05/25/10	05/25/10	JWG1001900	
Dibromochloromethane	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001900	J(3)

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Collected: 05/17/2010
Date Received: 05/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-4B
Lab Code: J1002306-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001900	
Chlorobenzene	ND	U	1.0	0.42	1	05/25/10	05/25/10	JWG1001900	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.45	1	05/25/10	05/25/10	JWG1001900	J(3)
Ethylbenzene	ND	U	1.0	0.52	1	05/25/10	05/25/10	JWG1001900	
m,p-Xylenes	ND	U	2.0	1.1	1	05/25/10	05/25/10	JWG1001900	
o-Xylene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001900	
Styrene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001900	
Bromoform	ND	UJ	2.0	0.44	1	05/25/10	05/25/10	JWG1001900	J(3)
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001900	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/25/10	05/25/10	JWG1001900	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/25/10	05/25/10	JWG1001900	
trans-1,4-Dichloro-2-butene	ND	UJ	20	4.3	1	05/25/10	05/25/10	JWG1001900	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001900	
1,2-Dibromo-3-chloropropane (DE	ND	U	5.0	2.3	1	05/25/10	05/25/10	JWG1001900	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	71-122	05/25/10	Acceptable
4-Bromofluorobenzene	109	75-120	05/25/10	Acceptable
Dibromofluoromethane	99	82-116	05/25/10	Acceptable
Toluene-d8	103	88-117	05/25/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Collected: 05/17/2010
Date Received: 05/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-5A
Lab Code: J1002306-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	5.0	0.65	5	05/25/10	05/25/10	JWG1001900	
Vinyl Chloride	ND	U	5.0	0.80	5	05/25/10	05/25/10	JWG1001900	
Bromomethane	ND	U	5.0	2.5	5	05/25/10	05/25/10	JWG1001900	
Chloroethane	ND	U	25	3.4	5	05/25/10	05/25/10	JWG1001900	
Trichlorofluoromethane	ND	U	100	3.6	5	05/25/10	05/25/10	JWG1001900	
1,1-Dichloroethene	ND	U	5.0	2.1	5	05/25/10	05/25/10	JWG1001900	
Acetone	ND	U	250	28	5	05/25/10	05/25/10	JWG1001900	
Iodomethane (Methyl Iodide)	ND	U	25	14	5	05/25/10	05/25/10	JWG1001900	
Carbon Disulfide	ND	U	50	16	5	05/25/10	05/25/10	JWG1001900	
Methylene Chloride	ND	U	25	2.3	5	05/25/10	05/25/10	JWG1001900	
trans-1,2-Dichloroethene	ND	U	5.0	2.0	5	05/25/10	05/25/10	JWG1001900	
Acrylonitrile	ND	U	50	14	5	05/25/10	05/25/10	JWG1001900	
1,1-Dichloroethane	ND	U	5.0	1.9	5	05/25/10	05/25/10	JWG1001900	
Vinyl Acetate	ND	U	50	14	5	05/25/10	05/25/10	JWG1001900	
cis-1,2-Dichloroethene	ND	U	5.0	0.42	5	05/25/10	05/25/10	JWG1001900	
2-Butanone (MEK)	ND	U	50	13	5	05/25/10	05/25/10	JWG1001900	
Bromochloromethane	ND	U	25	3.4	5	05/25/10	05/25/10	JWG1001900	
Chloroform	ND	U	5.0	1.8	5	05/25/10	05/25/10	JWG1001900	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	2.4	5	05/25/10	05/25/10	JWG1001900	
Carbon Tetrachloride	ND	UJ	5.0	1.7	5	05/25/10	05/25/10	JWG1001900	J(3)
Benzene	ND	U	5.0	0.33	5	05/25/10	05/25/10	JWG1001900	
1,2-Dichloroethane (EDC)	ND	U	5.0	1.5	5	05/25/10	05/25/10	JWG1001900	
Trichloroethene (TCE)	ND	U	5.0	0.60	5	05/25/10	05/25/10	JWG1001900	
1,2-Dichloropropane	ND	U	5.0	1.5	5	05/25/10	05/25/10	JWG1001900	
Dibromomethane	ND	U	25	2.0	5	05/25/10	05/25/10	JWG1001900	
Bromodichloromethane	ND	U	5.0	0.95	5	05/25/10	05/25/10	JWG1001900	
cis-1,3-Dichloropropene	ND	UJ	5.0	0.75	5	05/25/10	05/25/10	JWG1001900	J(3)
4-Methyl-2-pentanone (MIBK)	ND	U	130	11	5	05/25/10	05/25/10	JWG1001900	
Toluene	ND	U	5.0	2.4	5	05/25/10	05/25/10	JWG1001900	
trans-1,3-Dichloropropene	ND	UJ	5.0	0.80	5	05/25/10	05/25/10	JWG1001900	J(3)
1,1,2-Trichloroethane	ND	U	5.0	2.4	5	05/25/10	05/25/10	JWG1001900	
Tetrachloroethene (PCE)	ND	U	5.0	0.85	5	05/25/10	05/25/10	JWG1001900	
2-Hexanone	ND	U	130	11	5	05/25/10	05/25/10	JWG1001900	
Dibromochloromethane	ND	UJ	5.0	1.7	5	05/25/10	05/25/10	JWG1001900	J(3)

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Collected: 05/17/2010
Date Received: 05/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-5A
Lab Code: J1002306-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	5.0	2.4	5	05/25/10	05/25/10	JWG1001900	
Chlorobenzene	ND	U	5.0	2.1	5	05/25/10	05/25/10	JWG1001900	
1,1,1,2-Tetrachloroethane	ND	UJ	5.0	2.3	5	05/25/10	05/25/10	JWG1001900	J(3)
Ethylbenzene	ND	U	5.0	2.6	5	05/25/10	05/25/10	JWG1001900	
m,p-Xylenes	ND	U	10	5.2	5	05/25/10	05/25/10	JWG1001900	
o-Xylene	ND	U	5.0	2.5	5	05/25/10	05/25/10	JWG1001900	
Styrene	ND	U	5.0	2.5	5	05/25/10	05/25/10	JWG1001900	
Bromoform	ND	UJ	10	2.2	5	05/25/10	05/25/10	JWG1001900	J(3)
1,1,2,2-Tetrachloroethane	ND	U	5.0	0.80	5	05/25/10	05/25/10	JWG1001900	
1,2,3-Trichloropropane	ND	U	10	3.3	5	05/25/10	05/25/10	JWG1001900	
1,4-Dichlorobenzene	ND	U	5.0	2.3	5	05/25/10	05/25/10	JWG1001900	
trans-1,4-Dichloro-2-butene	ND	UJ	100	22	5	05/25/10	05/25/10	JWG1001900	J(3)
1,2-Dichlorobenzene	ND	U	5.0	2.4	5	05/25/10	05/25/10	JWG1001900	
1,2-Dibromo-3-chloropropane (DI	ND	U	25	12	5	05/25/10	05/25/10	JWG1001900	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	71-122	05/25/10	Acceptable
4-Bromofluorobenzene	110	75-120	05/25/10	Acceptable
Dibromofluoromethane	97	82-116	05/25/10	Acceptable
Toluene-d8	104	88-117	05/25/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Collected: 05/17/2010
Date Received: 05/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-5B
Lab Code: J1002306-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/25/10	05/25/10	JWG1001900	
Vinyl Chloride	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001900	
Bromomethane	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001900	
Chloroethane	ND	U	5.0	0.68	1	05/25/10	05/25/10	JWG1001900	
Trichlorofluoromethane	ND	U	20	0.71	1	05/25/10	05/25/10	JWG1001900	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/25/10	05/25/10	JWG1001900	
Acetone	ND	U	50	5.6	1	05/25/10	05/25/10	JWG1001900	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/25/10	05/25/10	JWG1001900	
Carbon Disulfide	ND	U	10	3.1	1	05/25/10	05/25/10	JWG1001900	
Methylene Chloride	ND	U	5.0	0.45	1	05/25/10	05/25/10	JWG1001900	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/25/10	05/25/10	JWG1001900	
Acrylonitrile	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001900	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/25/10	05/25/10	JWG1001900	
Vinyl Acetate	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001900	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/25/10	05/25/10	JWG1001900	
2-Butanone (MEK)	ND	U	10	2.5	1	05/25/10	05/25/10	JWG1001900	
Bromochloromethane	ND	U	5.0	0.67	1	05/25/10	05/25/10	JWG1001900	
Chloroform	ND	U	1.0	0.35	1	05/25/10	05/25/10	JWG1001900	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001900	
Carbon Tetrachloride	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001900	J(3)
Benzene	ND	U	1.0	0.066	1	05/25/10	05/25/10	JWG1001900	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001900	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/25/10	05/25/10	JWG1001900	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001900	
Dibromomethane	ND	U	5.0	0.39	1	05/25/10	05/25/10	JWG1001900	
Bromodichloromethane	ND	U	1.0	0.19	1	05/25/10	05/25/10	JWG1001900	
cis-1,3-Dichloropropene	ND	UJ	1.0	0.15	1	05/25/10	05/25/10	JWG1001900	J(3)
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/25/10	05/25/10	JWG1001900	
Toluene	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001900	
trans-1,3-Dichloropropene	ND	UJ	1.0	0.16	1	05/25/10	05/25/10	JWG1001900	J(3)
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001900	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/25/10	05/25/10	JWG1001900	
2-Hexanone	ND	U	25	2.1	1	05/25/10	05/25/10	JWG1001900	
Dibromochloromethane	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001900	J(3)

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002306
Project:	JED SWDF/Task 02	**Date Collected:**	05/17/2010
Sample Matrix:	Water	**Date Received:**	05/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-5B	**Units:**	ug/L
Lab Code:	J1002306-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001900	
Chlorobenzene	ND	U	1.0	0.42	1	05/25/10	05/25/10	JWG1001900	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.45	1	05/25/10	05/25/10	JWG1001900	J(3)
Ethylbenzene	ND	U	1.0	0.52	1	05/25/10	05/25/10	JWG1001900	
m,p-Xylenes	ND	U	2.0	1.1	1	05/25/10	05/25/10	JWG1001900	
o-Xylene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001900	
Styrene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001900	
Bromoform	ND	UJ	2.0	0.44	1	05/25/10	05/25/10	JWG1001900	J(3)
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001900	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/25/10	05/25/10	JWG1001900	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/25/10	05/25/10	JWG1001900	
trans-1,4-Dichloro-2-butene	ND	UJ	20	4.3	1	05/25/10	05/25/10	JWG1001900	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001900	
1,2-Dibromo-3-chloropropane (DI	ND	U	5.0	2.3	1	05/25/10	05/25/10	JWG1001900	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	71-122	05/25/10	Acceptable
4-Bromofluorobenzene	110	75-120	05/25/10	Acceptable
Dibromofluoromethane	97	82-116	05/25/10	Acceptable
Toluene-d8	103	88-117	05/25/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Collected: 05/17/2010
Date Received: 05/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-6A
Lab Code: J1002306-005

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/25/10	05/25/10	JWG1001900	
Vinyl Chloride	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001900	
Bromomethane	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001900	
Chloroethane	ND	U	5.0	0.68	1	05/25/10	05/25/10	JWG1001900	
Trichlorofluoromethane	ND	U	20	0.71	1	05/25/10	05/25/10	JWG1001900	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/25/10	05/25/10	JWG1001900	
Acetone	ND	U	50	5.6	1	05/25/10	05/25/10	JWG1001900	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/25/10	05/25/10	JWG1001900	
Carbon Disulfide	ND	U	10	3.1	1	05/25/10	05/25/10	JWG1001900	
Methylene Chloride	ND	U	5.0	0.45	1	05/25/10	05/25/10	JWG1001900	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/25/10	05/25/10	JWG1001900	
Acrylonitrile	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001900	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/25/10	05/25/10	JWG1001900	
Vinyl Acetate	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001900	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/25/10	05/25/10	JWG1001900	
2-Butanone (MEK)	ND	U	10	2.5	1	05/25/10	05/25/10	JWG1001900	
Bromochloromethane	ND	U	5.0	0.67	1	05/25/10	05/25/10	JWG1001900	
Chloroform	ND	U	1.0	0.35	1	05/25/10	05/25/10	JWG1001900	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001900	
Carbon Tetrachloride	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001900	J(3)
Benzene	**0.41**	I	1.0	0.066	1	05/25/10	05/25/10	JWG1001900	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001900	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/25/10	05/25/10	JWG1001900	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001900	
Dibromomethane	ND	U	5.0	0.39	1	05/25/10	05/25/10	JWG1001900	
Bromodichloromethane	ND	U	1.0	0.19	1	05/25/10	05/25/10	JWG1001900	
cis-1,3-Dichloropropene	ND	UJ	1.0	0.15	1	05/25/10	05/25/10	JWG1001900	J(3)
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/25/10	05/25/10	JWG1001900	
Toluene	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001900	
trans-1,3-Dichloropropene	ND	UJ	1.0	0.16	1	05/25/10	05/25/10	JWG1001900	J(3)
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001900	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/25/10	05/25/10	JWG1001900	
2-Hexanone	ND	U	25	2.1	1	05/25/10	05/25/10	JWG1001900	
Dibromochloromethane	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001900	J(3)

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Collected: 05/17/2010
Date Received: 05/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-6A
Lab Code: J1002306-005

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001900	
Chlorobenzene	ND	U	1.0	0.42	1	05/25/10	05/25/10	JWG1001900	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.45	1	05/25/10	05/25/10	JWG1001900	J(3)
Ethylbenzene	ND	U	1.0	0.52	1	05/25/10	05/25/10	JWG1001900	
m,p-Xylenes	ND	U	2.0	1.1	1	05/25/10	05/25/10	JWG1001900	
o-Xylene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001900	
Styrene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001900	
Bromoform	ND	UJ	2.0	0.44	1	05/25/10	05/25/10	JWG1001900	J(3)
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001900	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/25/10	05/25/10	JWG1001900	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/25/10	05/25/10	JWG1001900	
trans-1,4-Dichloro-2-butene	ND	UJ	20	4.3	1	05/25/10	05/25/10	JWG1001900	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001900	
1,2-Dibromo-3-chloropropane (DE	ND	U	5.0	2.3	1	05/25/10	05/25/10	JWG1001900	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	71-122	05/25/10	Acceptable
4-Bromofluorobenzene	107	75-120	05/25/10	Acceptable
Dibromofluoromethane	97	82-116	05/25/10	Acceptable
Toluene-d8	103	88-117	05/25/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Collected: 05/17/2010
Date Received: 05/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-6B
Lab Code: J1002306-006

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/25/10	05/25/10	JWG1001900	
Vinyl Chloride	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001900	
Bromomethane	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001900	
Chloroethane	ND	U	5.0	0.68	1	05/25/10	05/25/10	JWG1001900	
Trichlorofluoromethane	ND	U	20	0.71	1	05/25/10	05/25/10	JWG1001900	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/25/10	05/25/10	JWG1001900	
Acetone	ND	U	50	5.6	1	05/25/10	05/25/10	JWG1001900	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/25/10	05/25/10	JWG1001900	
Carbon Disulfide	ND	U	10	3.1	1	05/25/10	05/25/10	JWG1001900	
Methylene Chloride	ND	U	5.0	0.45	1	05/25/10	05/25/10	JWG1001900	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/25/10	05/25/10	JWG1001900	
Acrylonitrile	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001900	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/25/10	05/25/10	JWG1001900	
Vinyl Acetate	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001900	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/25/10	05/25/10	JWG1001900	
2-Butanone (MEK)	ND	U	10	2.5	1	05/25/10	05/25/10	JWG1001900	
Bromochloromethane	ND	U	5.0	0.67	1	05/25/10	05/25/10	JWG1001900	
Chloroform	ND	U	1.0	0.35	1	05/25/10	05/25/10	JWG1001900	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001900	
Carbon Tetrachloride	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001900	J(3)
Benzene	ND	U	1.0	0.066	1	05/25/10	05/25/10	JWG1001900	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001900	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/25/10	05/25/10	JWG1001900	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001900	
Dibromomethane	ND	U	5.0	0.39	1	05/25/10	05/25/10	JWG1001900	
Bromodichloromethane	ND	U	1.0	0.19	1	05/25/10	05/25/10	JWG1001900	
cis-1,3-Dichloropropene	ND	UJ	1.0	0.15	1	05/25/10	05/25/10	JWG1001900	J(3)
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/25/10	05/25/10	JWG1001900	
Toluene	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001900	
trans-1,3-Dichloropropene	ND	UJ	1.0	0.16	1	05/25/10	05/25/10	JWG1001900	J(3)
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001900	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/25/10	05/25/10	JWG1001900	
2-Hexanone	ND	U	25	2.1	1	05/25/10	05/25/10	JWG1001900	
Dibromochloromethane	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001900	J(3)

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002306
Project:	JED SWDF/Task 02	**Date Collected:**	05/17/2010
Sample Matrix:	Water	**Date Received:**	05/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-6B	**Units:**	ug/L
Lab Code:	J1002306-006	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001900	
Chlorobenzene	ND	U	1.0	0.42	1	05/25/10	05/25/10	JWG1001900	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.45	1	05/25/10	05/25/10	JWG1001900	J(3)
Ethylbenzene	ND	U	1.0	0.52	1	05/25/10	05/25/10	JWG1001900	
m,p-Xylenes	ND	U	2.0	1.1	1	05/25/10	05/25/10	JWG1001900	
o-Xylene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001900	
Styrene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001900	
Bromoform	ND	UJ	2.0	0.44	1	05/25/10	05/25/10	JWG1001900	J(3)
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001900	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/25/10	05/25/10	JWG1001900	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/25/10	05/25/10	JWG1001900	
trans-1,4-Dichloro-2-butene	ND	UJ	20	4.3	1	05/25/10	05/25/10	JWG1001900	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001900	
1,2-Dibromo-3-chloropropane (DI	ND	U	5.0	2.3	1	05/25/10	05/25/10	JWG1001900	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	71-122	05/25/10	Acceptable
4-Bromofluorobenzene	110	75-120	05/25/10	Acceptable
Dibromofluoromethane	98	82-116	05/25/10	Acceptable
Toluene-d8	104	88-117	05/25/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Collected: 05/17/2010
Date Received: 05/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1002306-007

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/25/10	05/25/10	JWG1001900	
Vinyl Chloride	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001900	
Bromomethane	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001900	
Chloroethane	ND	U	5.0	0.68	1	05/25/10	05/25/10	JWG1001900	
Trichlorofluoromethane	ND	U	20	0.71	1	05/25/10	05/25/10	JWG1001900	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/25/10	05/25/10	JWG1001900	
Acetone	ND	U	50	5.6	1	05/25/10	05/25/10	JWG1001900	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/25/10	05/25/10	JWG1001900	
Carbon Disulfide	ND	U	10	3.1	1	05/25/10	05/25/10	JWG1001900	
Methylene Chloride	ND	U	5.0	0.45	1	05/25/10	05/25/10	JWG1001900	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/25/10	05/25/10	JWG1001900	
Acrylonitrile	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001900	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/25/10	05/25/10	JWG1001900	
Vinyl Acetate	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001900	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/25/10	05/25/10	JWG1001900	
2-Butanone (MEK)	ND	U	10	2.5	1	05/25/10	05/25/10	JWG1001900	
Bromochloromethane	ND	U	5.0	0.67	1	05/25/10	05/25/10	JWG1001900	
Chloroform	ND	U	1.0	0.35	1	05/25/10	05/25/10	JWG1001900	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001900	
Carbon Tetrachloride	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001900	J(3)
Benzene	ND	U	1.0	0.066	1	05/25/10	05/25/10	JWG1001900	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001900	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/25/10	05/25/10	JWG1001900	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001900	
Dibromomethane	ND	U	5.0	0.39	1	05/25/10	05/25/10	JWG1001900	
Bromodichloromethane	ND	U	1.0	0.19	1	05/25/10	05/25/10	JWG1001900	
cis-1,3-Dichloropropene	ND	UJ	1.0	0.15	1	05/25/10	05/25/10	JWG1001900	J(3)
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/25/10	05/25/10	JWG1001900	
Toluene	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001900	
trans-1,3-Dichloropropene	ND	UJ	1.0	0.16	1	05/25/10	05/25/10	JWG1001900	J(3)
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001900	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/25/10	05/25/10	JWG1001900	
2-Hexanone	ND	U	25	2.1	1	05/25/10	05/25/10	JWG1001900	
Dibromochloromethane	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001900	J(3)

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002306
Project:	JED SWDF/Task 02	**Date Collected:**	05/17/2010
Sample Matrix:	Water	**Date Received:**	05/18/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	J1002306-007	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001900	
Chlorobenzene	ND	U	1.0	0.42	1	05/25/10	05/25/10	JWG1001900	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.45	1	05/25/10	05/25/10	JWG1001900	J(3)
Ethylbenzene	ND	U	1.0	0.52	1	05/25/10	05/25/10	JWG1001900	
m,p-Xylenes	ND	U	2.0	1.1	1	05/25/10	05/25/10	JWG1001900	
o-Xylene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001900	
Styrene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001900	
Bromoform	ND	UJ	2.0	0.44	1	05/25/10	05/25/10	JWG1001900	J(3)
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001900	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/25/10	05/25/10	JWG1001900	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/25/10	05/25/10	JWG1001900	
trans-1,4-Dichloro-2-butene	ND	UJ	20	4.3	1	05/25/10	05/25/10	JWG1001900	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001900	
1,2-Dibromo-3-chloropropane (DI	ND	U	5.0	2.3	1	05/25/10	05/25/10	JWG1001900	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	71-122	05/25/10	Acceptable
4-Bromofluorobenzene	112	75-120	05/25/10	Acceptable
Dibromofluoromethane	96	82-116	05/25/10	Acceptable
Toluene-d8	102	88-117	05/25/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1001900-4

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/25/10	05/25/10	JWG1001900	
Vinyl Chloride	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001900	
Bromomethane	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001900	
Chloroethane	ND	U	5.0	0.68	1	05/25/10	05/25/10	JWG1001900	
Trichlorofluoromethane	ND	U	20	0.71	1	05/25/10	05/25/10	JWG1001900	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/25/10	05/25/10	JWG1001900	
Acetone	ND	U	50	5.6	1	05/25/10	05/25/10	JWG1001900	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/25/10	05/25/10	JWG1001900	
Carbon Disulfide	ND	U	10	3.1	1	05/25/10	05/25/10	JWG1001900	
Methylene Chloride	ND	U	5.0	0.45	1	05/25/10	05/25/10	JWG1001900	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/25/10	05/25/10	JWG1001900	
Acrylonitrile	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001900	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/25/10	05/25/10	JWG1001900	
Vinyl Acetate	ND	U	10	2.7	1	05/25/10	05/25/10	JWG1001900	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/25/10	05/25/10	JWG1001900	
2-Butanone (MEK)	ND	U	10	2.5	1	05/25/10	05/25/10	JWG1001900	
Bromochloromethane	ND	U	5.0	0.67	1	05/25/10	05/25/10	JWG1001900	
Chloroform	ND	U	1.0	0.35	1	05/25/10	05/25/10	JWG1001900	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001900	
Carbon Tetrachloride	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001900	J(3)
Benzene	ND	U	1.0	0.066	1	05/25/10	05/25/10	JWG1001900	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001900	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/25/10	05/25/10	JWG1001900	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/25/10	05/25/10	JWG1001900	
Dibromomethane	ND	U	5.0	0.39	1	05/25/10	05/25/10	JWG1001900	
Bromodichloromethane	ND	U	1.0	0.19	1	05/25/10	05/25/10	JWG1001900	
cis-1,3-Dichloropropene	ND	UJ	1.0	0.15	1	05/25/10	05/25/10	JWG1001900	J(3)
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/25/10	05/25/10	JWG1001900	
Toluene	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001900	
trans-1,3-Dichloropropene	ND	UJ	1.0	0.16	1	05/25/10	05/25/10	JWG1001900	J(3)
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001900	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/25/10	05/25/10	JWG1001900	
2-Hexanone	ND	U	25	2.1	1	05/25/10	05/25/10	JWG1001900	
Dibromochloromethane	ND	UJ	1.0	0.34	1	05/25/10	05/25/10	JWG1001900	J(3)

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002306
Project:	JED SWDF/Task 02	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG1001900-4	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/25/10	05/25/10	JWG1001900	
Chlorobenzene	ND	U	1.0	0.42	1	05/25/10	05/25/10	JWG1001900	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.45	1	05/25/10	05/25/10	JWG1001900	J(3)
Ethylbenzene	ND	U	1.0	0.52	1	05/25/10	05/25/10	JWG1001900	
m,p-Xylenes	ND	U	2.0	1.1	1	05/25/10	05/25/10	JWG1001900	
o-Xylene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001900	
Styrene	ND	U	1.0	0.49	1	05/25/10	05/25/10	JWG1001900	
Bromoform	ND	UJ	2.0	0.44	1	05/25/10	05/25/10	JWG1001900	J(3)
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/25/10	05/25/10	JWG1001900	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/25/10	05/25/10	JWG1001900	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/25/10	05/25/10	JWG1001900	
trans-1,4-Dichloro-2-butene	ND	UJ	20	4.3	1	05/25/10	05/25/10	JWG1001900	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/25/10	05/25/10	JWG1001900	
1,2-Dibromo-3-chloropropane (DE	ND	U	5.0	2.3	1	05/25/10	05/25/10	JWG1001900	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	71-122	05/25/10	Acceptable
4-Bromofluorobenzene	112	75-120	05/25/10	Acceptable
Dibromofluoromethane	96	82-116	05/25/10	Acceptable
Toluene-d8	103	88-117	05/25/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002306
Project:	JED SWDF/Task 02	**Date Collected:**	05/17/2010
Sample Matrix:	Water	**Date Received:**	05/18/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-4A	**Units:**	ug/L
Lab Code:	J1002306-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0071	1	05/20/10	05/22/10	JWG1001767	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0058	1	05/20/10	05/22/10	JWG1001767	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	120	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002306
Project:	JED SWDF/Task 02	**Date Collected:**	05/17/2010
Sample Matrix:	Water	**Date Received:**	05/18/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-4B	**Units:**	ug/L
Lab Code:	J1002306-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	05/20/10	05/22/10	JWG1001767	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	05/20/10	05/22/10	JWG1001767	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	117	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002306
Project:	JED SWDF/Task 02	**Date Collected:**	05/17/2010
Sample Matrix:	Water	**Date Received:**	05/18/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-5A	**Units:**	ug/L
Lab Code:	J1002306-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	05/20/10	05/22/10	JWG1001767	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	05/20/10	05/22/10	JWG1001767	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	113	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002306
Project:	JED SWDF/Task 02	**Date Collected:**	05/17/2010
Sample Matrix:	Water	**Date Received:**	05/18/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-5B	**Units:**	ug/L
Lab Code:	J1002306-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	05/20/10	05/22/10	JWG1001767	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	05/20/10	05/22/10	JWG1001767	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	116	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002306
Project:	JED SWDF/Task 02	**Date Collected:**	05/17/2010
Sample Matrix:	Water	**Date Received:**	05/18/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-6A	**Units:**	ug/L
Lab Code:	J1002306-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0071	1	05/20/10	05/22/10	JWG1001767	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0058	1	05/20/10	05/22/10	JWG1001767	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	120	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002306
Project:	JED SWDF/Task 02	**Date Collected:**	05/17/2010
Sample Matrix:	Water	**Date Received:**	05/18/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-6B	**Units:**	ug/L
Lab Code:	J1002306-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	05/20/10	05/22/10	JWG1001767	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	05/20/10	05/22/10	JWG1001767	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	119	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002306
Project:	JED SWDF/Task 02	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG1001767-4	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	05/20/10	05/22/10	JWG1001767	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	05/20/10	05/22/10	JWG1001767	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	117	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Collected: 5/17/10 1415
Date Received: 5/18/10

Sample Name: MW-4A
Lab Code: J1002306-001

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	5/26/10 22:36
Arsenic, Total	6020	**1.41**		µg/L	0.50	0.14	1	5/25/10	5/26/10 22:36
Barium, Total	6020	**18.6**		µg/L	2.0	0.5	1	5/25/10	5/26/10 22:36
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 22:36
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	5/26/10 22:36
Chromium, Total	6020	**2.4**		µg/L	2.0	0.6	1	5/25/10	5/26/10 22:36
Cobalt, Total	6020	**0.3**	I	µg/L	1.0	0.2	1	5/25/10	5/26/10 22:36
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	5/26/10 22:36
Iron, Total	6010B	**1270**		µg/L	100	10	1	5/21/10	5/26/10 01:07
Lead, Total	6020	**0.5**	I	µg/L	1.0	0.3	1	5/25/10	5/26/10 22:36
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 15:10
Nickel, Total	6020	**1.1**	I	µg/L	2.0	0.3	1	5/25/10	5/26/10 22:36
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/25/10	5/26/10 22:36
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	5/27/10 15:11
Sodium, Total	6010B	**19.9**		mg/L	0.50	0.02	1	5/21/10	5/26/10 01:06
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	5/26/10 22:36
Vanadium, Total	6020	**1.6**	I	µg/L	5.0	1.2	1	5/25/10	5/26/10 22:36
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	5/26/10 22:36

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Collected: 5/17/10 1335
Date Received: 5/18/10

Sample Name: MW-4B
Lab Code: J1002306-002

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	5/26/10 22:52
Arsenic, Total	6020	**1.32**		µg/L	0.50	0.14	1	5/25/10	5/26/10 22:52
Barium, Total	6020	**132**		µg/L	2.0	0.5	1	5/25/10	5/26/10 22:52
Beryllium, Total	6020	**0.3**	I	µg/L	1.0	0.3	1	5/25/10	5/26/10 22:52
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	5/26/10 22:52
Chromium, Total	6020	**0.8**	I	µg/L	2.0	0.6	1	5/25/10	5/26/10 22:52
Cobalt, Total	6020	**0.4**	I	µg/L	1.0	0.2	1	5/25/10	5/26/10 22:52
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	5/26/10 22:52
Iron, Total	6010B	**3050**		µg/L	100	10	1	5/21/10	5/26/10 01:12
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 22:52
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 15:11
Nickel, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	5/25/10	5/26/10 22:52
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/25/10	5/26/10 22:52
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	5/27/10 15:14
Sodium, Total	6010B	**26.7**		mg/L	0.50	0.02	1	5/21/10	5/26/10 01:10
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	5/26/10 22:52
Vanadium, Total	6020	**1.4**	I	µg/L	5.0	1.2	1	5/25/10	5/26/10 22:52
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	5/26/10 22:52

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Collected: 5/17/10 1155
Date Received: 5/18/10

Sample Name: MW-5A
Lab Code: J1002306-003

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	5/26/10 22:57
Arsenic, Total	6020	**1.75**		µg/L	0.50	0.14	1	5/25/10	5/26/10 22:57
Barium, Total	6020	**1.8**	I	µg/L	2.0	0.5	1	5/25/10	5/26/10 22:57
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 22:57
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	5/26/10 22:57
Chromium, Total	6020	**4.6**		µg/L	2.0	0.6	1	5/25/10	5/26/10 22:57
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	5/25/10	5/26/10 22:57
Copper, Total	6020	**1.1**	I	µg/L	2.0	0.5	1	5/25/10	5/26/10 22:57
Iron, Total	6010B	**190**		µg/L	100	10	1	5/21/10	5/26/10 01:16
Lead, Total	6020	**2.4**		µg/L	1.0	0.3	1	5/25/10	5/26/10 22:57
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 15:12
Nickel, Total	6020	**2.2**		µg/L	2.0	0.3	1	5/25/10	5/26/10 22:57
Selenium, Total	6020	**1.7**	I	µg/L	5.0	0.9	1	5/25/10	5/26/10 22:57
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	5/27/10 15:18
Sodium, Total	6010B	**33.6**		mg/L	0.50	0.02	1	5/21/10	5/26/10 01:15
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	5/26/10 22:57
Vanadium, Total	6020	**3.1**	I	µg/L	5.0	1.2	1	5/25/10	5/26/10 22:57
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	5/26/10 22:57

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Collected: 5/17/10 1238
Date Received: 5/18/10

Sample Name: MW-5B
Lab Code: J1002306-004

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	5/26/10 23:02
Arsenic, Total	6020	**0.85**		µg/L	0.50	0.14	1	5/25/10	5/26/10 23:02
Barium, Total	6020	**23.0**		µg/L	2.0	0.5	1	5/25/10	5/26/10 23:02
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 23:02
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	5/26/10 23:02
Chromium, Total	6020	**0.7**	I	µg/L	2.0	0.6	1	5/25/10	5/26/10 23:02
Cobalt, Total	6020	**0.2**	I	µg/L	1.0	0.2	1	5/25/10	5/26/10 23:02
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	5/26/10 23:02
Iron, Total	6010B	**660**		µg/L	100	10	1	5/21/10	5/26/10 01:21
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 23:02
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 15:14
Nickel, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	5/25/10	5/26/10 23:02
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/25/10	5/26/10 23:02
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	5/27/10 15:21
Sodium, Total	6010B	**15.9**		mg/L	0.50	0.02	1	5/21/10	5/26/10 01:19
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	5/26/10 23:02
Vanadium, Total	6020	**1.2**	I	µg/L	5.0	1.2	1	5/25/10	5/26/10 23:02
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	5/26/10 23:02

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Collected: 5/17/10 0940
Date Received: 5/18/10

Sample Name: MW-6A
Lab Code: J1002306-005

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	5/26/10 23:08
Arsenic, Total	6020	**0.99**		µg/L	0.50	0.14	1	5/25/10	5/26/10 23:08
Barium, Total	6020	**11.0**		µg/L	2.0	0.5	1	5/25/10	5/26/10 23:08
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 23:08
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	5/26/10 23:08
Chromium, Total	6020	**1.8**	I	µg/L	2.0	0.6	1	5/25/10	5/26/10 23:08
Cobalt, Total	6020	**0.7**	I	µg/L	1.0	0.2	1	5/25/10	5/26/10 23:08
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	5/26/10 23:08
Iron, Total	6010B	**11800**		µg/L	100	10	1	5/21/10	5/26/10 01:25
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 23:08
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 15:15
Nickel, Total	6020	**1.0**	I	µg/L	2.0	0.3	1	5/25/10	5/26/10 23:08
Selenium, Total	6020	**1.6**	I	µg/L	5.0	0.9	1	5/25/10	5/26/10 23:08
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	6/1/10 18:21
Sodium, Total	6010B	**21.7**		mg/L	0.50	0.02	1	5/21/10	5/26/10 01:24
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	5/26/10 23:08
Vanadium, Total	6020	**1.6**	I	µg/L	5.0	1.2	1	5/25/10	5/26/10 23:08
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	5/26/10 23:08

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Sample Name: MW-6B
Lab Code: J1002306-006

Service Request: J1002306
Date Collected: 5/17/10 0907
Date Received: 5/18/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	5/26/10 23:13
Arsenic, Total	6020	**0.46**	I	µg/L	0.50	0.14	1	5/25/10	5/26/10 23:13
Barium, Total	6020	**19.5**		µg/L	2.0	0.5	1	5/25/10	5/26/10 23:13
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 23:13
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	5/26/10 23:13
Chromium, Total	6020	**1.4**	I	µg/L	2.0	0.6	1	5/25/10	5/26/10 23:13
Cobalt, Total	6020	**0.2**	I	µg/L	1.0	0.2	1	5/25/10	5/26/10 23:13
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	5/26/10 23:13
Iron, Total	6010B	**1000**		µg/L	100	10	1	5/21/10	5/26/10 01:30
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 23:13
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 15:17
Nickel, Total	6020	**0.5**	I	µg/L	2.0	0.3	1	5/25/10	5/26/10 23:13
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/25/10	5/26/10 23:13
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	6/1/10 18:26
Sodium, Total	6010B	**6.30**		mg/L	0.50	0.02	1	5/21/10	5/26/10 01:28
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	5/26/10 23:13
Vanadium, Total	6020	**2.0**	I	µg/L	5.0	1.2	1	5/25/10	5/26/10 23:13
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	5/26/10 23:13

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: J1002306-MB

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	5/26/10 20:48
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	5/25/10	5/26/10 20:48
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	5/26/10 20:48
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 20:48
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	5/26/10 20:48
Chromium, Total	6020	ND	U	µg/L	2.0	0.6	1	5/25/10	5/26/10 20:48
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	5/25/10	5/26/10 20:48
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	5/26/10 20:48
Iron, Total	6010B	ND	U	µg/L	100	10	1	5/21/10	5/26/10 00:03
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/26/10 20:48
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 14:55
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	5/26/10 20:48
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/25/10	5/26/10 20:48
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	5/27/10 13:50
Sodium, Total	6010B	ND	U	mg/L	0.50	0.02	1	5/21/10	5/26/10 00:01
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	5/26/10 20:48
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	5/25/10	5/26/10 20:48
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	5/26/10 20:48

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : Task 02
Sample Matrix : WATER

Service Request : J1002306
Date Collected : 05/17/10
Date Received : 05/18/10

Inorganic Parameters

Sample Name : MW-4A
Lab Code : J1002306-001
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.02	0.012	2	05/25/10 12:05	6.5	J3
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/18/10 20:48	63	J3
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/18/10 21:48	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/24/10 18:15	150	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : Task 02
Sample Matrix : WATER

Service Request : J1002306
Date Collected : 05/17/10
Date Received : 05/18/10

Inorganic Parameters

Sample Name : MW-4B
Lab Code : J1002306-002
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	0.006	1	05/25/10 12:05	2.7	
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/18/10 20:48	54	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/18/10 22:33	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/24/10 18:15	220	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : Task 02
Sample Matrix : WATER

Service Request : J1002306
Date Collected : 05/17/10
Date Received : 05/18/10

Inorganic Parameters

Sample Name : MW-5A
Lab Code : J1002306-003
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	0.006	1	05/25/10 12:05	7.6	
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/18/10 20:48	30	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/18/10 22:48	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/24/10 18:15	330	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : Task 02
Sample Matrix : WATER

Service Request : J1002306
Date Collected : 05/17/10
Date Received : 05/18/10

Inorganic Parameters

Sample Name : MW-5B
Lab Code : J1002306-004
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	0.006	1	05/25/10 12:05	0.22	
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/18/10 20:48	32	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/18/10 23:03	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/24/10 18:15	89	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : Task 02
Sample Matrix : WATER

Service Request : J1002306
Date Collected : 05/17/10
Date Received : 05/18/10

Inorganic Parameters

Sample Name : MW-6A
Lab Code : J1002306-005
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	0.006	1	05/25/10 12:05	1.9	
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/18/10 20:48	51	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/18/10 23:18	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/24/10 18:15	120	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : Task 02
Sample Matrix : WATER

Service Request : J1002306
Date Collected : 05/17/10
Date Received : 05/18/10

Inorganic Parameters

Sample Name : MW-6B
Lab Code : J1002306-006
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	0.006	1	05/25/10 12:05	0.069	
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/18/10 20:48	9.8	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/18/10 23:33	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/24/10 18:15	49	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : Task 02
Sample Matrix : WATER

Service Request : J1002306
Date Collected : NA
Date Received : NA

Inorganic Parameters

Sample Name : Method Blank
Lab Code : J1002306-MB
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.01	0.006	1	05/25/10 12:05	U	
Chloride	mg/L (ppm)	300.0	0.5	0.09	1	05/18/10 20:48	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.07	1	05/18/10 20:48	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	05/24/10 18:15	U	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306

Surrogate Recovery Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
MW-4A	J1002306-001	98	109	98	103
MW-4B	J1002306-002	98	109	99	103
MW-5A	J1002306-003	96	110	97	104
MW-5B	J1002306-004	97	110	97	103
MW-6A	J1002306-005	97	107	97	103
MW-6B	J1002306-006	98	110	98	104
Trip Blank	J1002306-007	98	112	96	102
Method Blank	JWG1001900-4	96	112	96	103
MW-4AMS	JWG1001900-1	100	107	101	104
MW-4ADMS	JWG1001900-2	101	111	101	104
Lab Control Sample	JWG1001900-3	98	108	98	103

Surrogate Recovery Control Limits (%)

Sur1 =	1,2-Dichloroethane-d4	71-122
Sur2 =	4-Bromofluorobenzene	75-120
Sur3 =	Dibromofluoromethane	82-116
Sur4 =	Toluene-d8	88-117

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002306
Project:	JED SWDF/Task 02	**Date Extracted:**	05/25/2010
Sample Matrix:	Water	**Date Analyzed:**	05/25/2010

Matrix Spike/Duplicate Matrix Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-4A	**Units:**	ug/L
Lab Code:	J1002306-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	JWG1001900

		MW-4AMS JWG1001900-1 Matrix Spike			MW-4ADMS JWG1001900-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Chloromethane	ND	18.1	20.0	90	18.3	20.0	91	73-139	1	30
Vinyl Chloride	ND	22.3	20.0	112	22.7	20.0	113	78-141	2	30
Bromomethane	ND	17.0	20.0	85	17.4	20.0	87	78-129	3	30
Chloroethane	ND	22.0	20.0	110	22.0	20.0	110	76-129	0	30
Trichlorofluoromethane	ND	19.7	20.0	98	19.8	20.0	99	81-133	1	30
1,1-Dichloroethene	ND	21.7	20.0	109	21.4	20.0	107	79-133	2	30
Acetone	ND	98.2	100	98	97.0	100	97	56-139	1	30
Iodomethane (Methyl Iodide)	ND	91.6	100	92	89.4	100	89	74-134	2	30
Carbon Disulfide	ND	101	100	101	100	100	100	71-146	1	30
Methylene Chloride	ND	20.0	20.0	100	19.9	20.0	99	75-123	1	30
trans-1,2-Dichloroethene	ND	20.9	20.0	105	21.0	20.0	105	76-125	0	30
Acrylonitrile	ND	107	100	107	108	100	108	68-131	1	30
1,1-Dichloroethane	ND	20.2	20.0	101	20.1	20.0	101	78-125	1	30
Vinyl Acetate	ND	95.5	100	96	94.8	100	95	43-163	1	30
cis-1,2-Dichloroethene	ND	20.3	20.0	102	20.0	20.0	100	75-127	2	30
2-Butanone (MEK)	ND	99.7	100	100	101	100	101	63-134	1	30
Bromochloromethane	ND	20.2	20.0	101	20.2	20.0	101	80-124	0	30
Chloroform	ND	19.8	20.0	99	19.7	20.0	99	81-124	0	30
1,1,1-Trichloroethane (TCA)	ND	19.7	20.0	98	19.7	20.0	98	76-130	0	30
Carbon Tetrachloride	ND	17.2	20.0	86	16.9	20.0	85	76-131	2	30
Benzene	ND	19.8	20.0	99	19.4	20.0	97	78-123	2	30
1,2-Dichloroethane (EDC)	ND	19.0	20.0	95	19.2	20.0	96	74-126	1	30
Trichloroethene (TCE)	ND	19.3	20.0	96	19.0	20.0	95	77-128	1	30
1,2-Dichloropropane	ND	20.7	20.0	104	20.6	20.0	103	77-122	0	30
Dibromomethane	ND	19.6	20.0	98	19.5	20.0	97	78-124	0	30
Bromodichloromethane	ND	18.2	20.0	91	17.9	20.0	89	79-125	2	30
cis-1,3-Dichloropropene	ND	13.9	20.0	69 *	13.9	20.0	69 *	77-117	0	30
4-Methyl-2-pentanone (MIBK)	ND	107	100	107	107	100	107	65-138	0	30
Toluene	1.3	20.7	20.0	97	20.6	20.0	97	86-119	0	30
trans-1,3-Dichloropropene	ND	10.7	20.0	53 *	10.9	20.0	55 *	75-120	2	30
1,1,2-Trichloroethane	ND	19.8	20.0	99	20.2	20.0	101	77-124	2	30
Tetrachloroethene (PCE)	ND	18.9	20.0	94	19.1	20.0	95	79-123	1	30
2-Hexanone	ND	105	100	105	104	100	104	63-142	1	30
Dibromochloromethane	ND	15.2	20.0	76 *	14.6	20.0	73 *	78-124	4	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Extracted: 05/25/2010
Date Analyzed: 05/25/2010

Matrix Spike/Duplicate Matrix Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-4A
Lab Code: J1002306-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1001900

Analyte Name	Sample Result	MW-4AMS JWG1001900-1 Matrix Spike Result	Expected	%Rec	MW-4ADMS JWG1001900-2 Duplicate Matrix Spike Result	Expected	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND	19.6	20.0	98	19.9	20.0	99	81-119	2	30
Chlorobenzene	ND	19.1	20.0	96	19.0	20.0	95	81-120	0	30
1,1,1,2-Tetrachloroethane	ND	16.9	20.0	84	16.9	20.0	85	82-118	1	30
Ethylbenzene	ND	20.1	20.0	100	20.3	20.0	101	87-122	1	30
m,p-Xylenes	ND	39.4	40.0	98	39.5	40.0	99	82-120	0	30
o-Xylene	ND	19.4	20.0	97	19.5	20.0	97	85-119	0	30
Styrene	ND	18.0	20.0	90	15.4	20.0	77 *	84-126	16	30
Bromoform	ND	11.1	20.0	56 *	9.78	20.0	49 *	70-129	13	30
1,1,2,2-Tetrachloroethane	ND	20.8	20.0	104	20.8	20.0	104	72-127	0	30
1,2,3-Trichloropropane	ND	19.7	20.0	99	19.4	20.0	97	76-123	2	30
1,4-Dichlorobenzene	ND	18.7	20.0	94	19.0	20.0	95	75-115	1	30
trans-1,4-Dichloro-2-butene	ND	ND	20.0	0 *	ND	20.0	0 *	22-135		30
1,2-Dichlorobenzene	ND	19.4	20.0	97	19.6	20.0	98	77-116	1	30
1,2-Dibromo-3-chloropropane (DBCP	ND	15.5	20.0	78	15.3	20.0	77	54-120	1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Extracted: 05/25/2010
Date Analyzed: 05/25/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1001900

	Lab Control Sample JWG1001900-3 Lab Control Spike				
Analyte Name	**Result**	**Expected**	**%Rec**		**%Rec Limits**
Chloromethane	18.2	20.0	91		67-135
Vinyl Chloride	18.8	20.0	94		78-132
Bromomethane	19.2	20.0	96		79-130
Chloroethane	19.4	20.0	97		74-126
Trichlorofluoromethane	16.8	20.0	84		74-134
1,1-Dichloroethene	19.2	20.0	96		78-130
Acetone	97.9	100	98		67-133
Iodomethane (Methyl Iodide)	87.1	100	87		68-134
Carbon Disulfide	91.7	100	92		76-138
Methylene Chloride	19.6	20.0	98		72-124
trans-1,2-Dichloroethene	19.0	20.0	95		77-124
Acrylonitrile	103	100	103		77-127
1,1-Dichloroethane	18.8	20.0	94		80-128
Vinyl Acetate	93.6	100	94		61-148
cis-1,2-Dichloroethene	19.2	20.0	96		80-126
2-Butanone (MEK)	95.2	100	95		73-127
Bromochloromethane	19.2	20.0	96		79-129
Chloroform	18.4	20.0	92		83-124
1,1,1-Trichloroethane (TCA)	17.2	20.0	86		79-124
Carbon Tetrachloride	15.3	20.0	77	*	81-125
Benzene	18.1	20.0	91		79-119
1,2-Dichloroethane (EDC)	18.6	20.0	93		80-124
Trichloroethene (TCE)	17.8	20.0	89		76-124
1,2-Dichloropropane	19.4	20.0	97		79-123
Dibromomethane	18.6	20.0	93		83-123
Bromodichloromethane	17.1	20.0	85		81-123
cis-1,3-Dichloropropene	16.6	20.0	83	*	86-123
4-Methyl-2-pentanone (MIBK)	99.3	100	99		72-136
Toluene	18.5	20.0	93		86-117
trans-1,3-Dichloropropene	15.8	20.0	79	*	83-124
1,1,2-Trichloroethane	19.4	20.0	97		86-114
Tetrachloroethene (PCE)	17.6	20.0	88		80-121
2-Hexanone	99.8	100	100		71-138
Dibromochloromethane	15.5	20.0	78	*	82-121
1,2-Dibromoethane (EDB)	19.3	20.0	96		88-117
Chlorobenzene	18.3	20.0	91		86-113

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Extracted: 05/25/2010
Date Analyzed: 05/25/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1001900

	Lab Control Sample JWG1001900-3 Lab Control Spike				
Analyte Name	**Result**	**Expected**	**%Rec**		**%Rec Limits**
1,1,1,2-Tetrachloroethane	16.7	20.0	84	*	85-117
Ethylbenzene	18.7	20.0	93		90-118
m,p-Xylenes	37.5	40.0	94		86-121
o-Xylene	18.4	20.0	92		89-119
Styrene	18.7	20.0	94		89-122
Bromoform	12.9	20.0	65	*	68-129
1,1,2,2-Tetrachloroethane	19.4	20.0	97		83-120
1,2,3-Trichloropropane	19.1	20.0	95		83-123
1,4-Dichlorobenzene	18.4	20.0	92		83-113
trans-1,4-Dichloro-2-butene	3.54	20.0	18	*	53-143
1,2-Dichlorobenzene	18.9	20.0	94		84-115
1,2-Dibromo-3-chloropropane (DBCP	15.0	20.0	75		62-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306

Surrogate Recovery Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
MW-4A	J1002306-001	120
MW-4B	J1002306-002	117
MW-5A	J1002306-003	113
MW-5B	J1002306-004	116
MW-6A	J1002306-005	120
MW-6B	J1002306-006	119
Method Blank	JWG1001767-4	117
MW-4AMS	JWG1001767-1	118
MW-4ADMS	JWG1001767-2	117
Lab Control Sample	JWG1001767-3	114

Surrogate Recovery Control Limits (%)

Sur1 = 1,1,1,2-Tetrachloroethane 77-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002306
Project:	JED SWDF/Task 02	**Date Extracted:**	05/20/2010
Sample Matrix:	Water	**Date Analyzed:**	05/22/2010

Matrix Spike/Duplicate Matrix Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-4A	**Units:**	ug/L
Lab Code:	J1002306-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011	**Extraction Lot:**	JWG1001767

		MW-4AMS JWG1001767-1 Matrix Spike			MW-4ADMS JWG1001767-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,2-Dibromoethane (EDB)	ND	0.0159	0.0144	111	0.0161	0.0145	112	65-135	1	20
1,2-Dibromo-3-chloropropane (DBCP	ND	0.0155	0.0144	108	0.0144	0.0145	100	65-135	7	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Extracted: 05/20/2010
Date Analyzed: 05/22/2010

Lab Control Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1001767

	Lab Control Sample JWG1001767-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,2-Dibromoethane (EDB)	0.0149	0.0143	104	70-130
1,2-Dibromo-3-chloropropane (DBCP	0.0149	0.0143	104	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Analyzed: 5/24/10 - 5/27/10

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1002306-LCS2 Result	Expected	% Rec	% Rec Limits
Antimony, Total	6020	**53.4**	50.0	107	80 - 120
Arsenic, Total	6020	**49.8**	50.0	100	80 - 120
Barium, Total	6020	**52.4**	50.0	105	80 - 120
Beryllium, Total	6020	**47.9**	50.0	96	80 - 120
Cadmium, Total	6020	**49.9**	50.0	100	80 - 120
Chromium, Total	6020	**52.5**	50.0	105	80 - 120
Cobalt, Total	6020	**53.2**	50.0	106	80 - 120
Copper, Total	6020	**51.4**	50.0	103	80 - 120
Iron, Total	6010B	**262**	250	105	80 - 120
Lead, Total	6020	**54.6**	50.0	109	80 - 120
Mercury, Total	7470A	**4.76**	5.00	95	80 - 120
Nickel, Total	6020	**51.8**	50.0	104	80 - 120
Selenium, Total	6020	**45.0**	50.0	90	80 - 120
Silver, Total	6020	**53.4**	50.0	107	80 - 120
Thallium, Total	6020	**54.0**	50.0	108	80 - 120
Vanadium, Total	6020	**53.1**	50.0	106	80 - 120
Zinc, Total	6020	**93.8**	100	94	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Analyzed: 5/26/10

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1002306-LCS1 Result	Expected	% Rec	Duplicate Lab Control Sample J1002306-DLCS1 Result	Expected	% Rec	% Rec Limits	RPD	RPD Limit
Iron, Total	6010B	**2000**	2000	100	**1990**	2000	99	80 - 120	1	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Analyzed: 5/26/10

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1002306-LCS1 Result	Expected	% Rec	Duplicate Lab Control Sample J1002306-DLCS1 Result	Expected	% Rec	% Rec Limits	RPD	RPD Limit
Sodium, Total	6010B	**10.2**	10.0	102	**10.1**	10.0	101	80 - 120	1	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002306
Date Analyzed: 5/26/10

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1002306-LCS2 Result	Expected	% Rec	% Rec Limits
Sodium, Total	6010B	**2.64**	2.50	105	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : Task 02
Sample Matrix : WATER

Service Request : J1002306
Date Collected : 05/17/10
Date Received : 05/18/10
Date Extracted : NA
Date Analyzed : 05/18-25/10

Duplicate Summary
Inorganic Parameters

Sample Name : MW-4A
Lab Code : J1002306-001DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.02	6.5	5.5	5.995	17	J3
Chloride	mg/L (ppm)	300.0	0.5	63	62	62.5	2	J3
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	U	U	U	-	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Environmental Planning Specialists
Project Name : JED SWDF
Project Number : Task 02
Sample Matrix : WATER

Service Request : J1002306
Date Collected : 05/17/10
Date Received : 05/18/10
Date Extracted : NA
Date Analyzed : 05/18-25/10

Matrix Spike Summary
Inorganic Parameters

Sample Name : MW-4A
Lab Code : J1002306-001MS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.02	1.00	6.5	11.8	NC	90-110	J3
Chloride	mg/L (ppm)	300.0	0.5	50	63	106	86	90-110	J3
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	5.0	U	4.79	96	90-110	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Environmental Planning Specialists	**Service Request :**	J1002306
Project Name :	JED SWDF	**Date Collected :**	NA
Project Number :	Task 02	**Date Received :**	NA
Sample Matrix :	WATER	**Date Extracted :**	NA
		Date Analyzed :	05/18-25/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Laboratory Control Sample
Lab Code : J1002306-LCS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	1.00	0.961	96	90-110	
Chloride	mg/L (ppm)	300.0	50	48.2	96	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	4.79	96	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	300	296	99	85-115	

Report By:Palimi

Columbia Analytical Services, Inc.
Cooler Receipt Form

Client: EPS Service Request #: J1002306

Project: JED SWDF

Cooler received on 5-18-10 and opened on 5-18-10 by SL

COURIER: CAS UPS FEDEX Client Other _____ Airbill # 1ZX5W09822100001419

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 4 +/- 2 degrees C)	4.7			
5	Thermometer ID	T16			
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	bubble wrap			
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 VOA vials checked for absence 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

Jacksonville Laboratory
Condition Upon Receipt - Sample pH

SR # : J 1002306 Date: 5/18/10 Initials: SC

Note that pH is check and meets the required pH criterion listed in the column heading unless otherwise noted on the cooler receipt form.

	Bottle Code																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	40mL	40mL	40mL	125mL	125mL	125mL	125mL	250mL	250mL	250mL	250mL	250mL	250mL	250mL	500mL	500mL	500mL	500mL	500mL	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	100ml	Ziplock	Misc.
Container	G	G	G	P	P	P	P	P	P	P	P	P	G	G	P	P	P	P	G	P	P	G	G	G	G	G	G	G	P	P	Misc.
Pres.		HCl	Na2S2O3		HCl	H2SO4	HNO3		H2SO4	HNO3	ZnAc2 NaOH	NaOH		HNO3		HCl	H2SO4	HNO3			HNO3		HCl	H2SO4					Sodium Thiosulfate		
Req. pH	N/A	<2	N/A	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	<2	N/A	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A		N/A
Sample #	-	-		-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-		-				-	-		-
-001	3	3			~~1~~ SC 5/18	1	1	1																							-001
-002																															-002
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NOTE: VOA pH checks are performed by the analytical area, not sample control

Columbia Analytical Services™
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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

SR # J1002306
CAS Contact [redacted]

Project Name: JED SWDF	Project Number: Task02
Project Manager: Kirk Wills	Email Address: kwills@enuplanning.com
Company/Address: EPS 1936 Bruce B Downs Blvd #328 Wesley Chapel, FL 33543	
Phone #: 813-388-1026	FAX#:
Sampler's Signature: Joe Terry	Sampler's Printed Name: Joe Terry

ANALYSIS REQUESTED (Include Method Number and

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	8260 (Preservative 1)	8011 (Preservative 0)	Metals (Preservative 2)	NH3 (Preservative 3)	Cl, NO3, TDS (Preservative 0)	REMARKS/ ALTERNATE DESCRIPTION
MW-4A		5.17.10	1415	GW	9	3	3	1	1	1	
MW-4B		↓	1335	↓	9	3	3	1	1	1	
MW-5A		↓	1155	↓	9	3	3	1	1	1	
MW-5B		↓	1238	↓	9	3	3	1	1	1	
MW-6A		↓	0940	↓	9	3	3	1	1	1	
MW-6B		↓	0907	↓	9	3	3	1	1	1	
Trip Blnk		5.4.10	1100	DI H2O	1	1					

JT

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: 10137-JED-1

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: ______ CUSTODY SEALS: Y N

61

	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Joe Terry	Shawn Lightsey				
Printed Name	Joe Terry	Shawn Lightsey				
Firm	EPS	CAS				
Date/Time	5-17-10/1550	5-18-10 0920				

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

JSCOC-06/20/08

Columbia Analytical Services™ 9143 Philips Highway, Suite 200 | Jacksonville, FL 32256 | 904-739-2277 | 904-739-2011 fax | www.caslab.com

June 02, 2010

Service Request No: J1002335

Kirk Wills
Environmental Planning Specialists
1936 Bruce B Downs Blvd
#328
Wesley Chapel, FL 33543

Laboratory Results for: JED SWDF/Task 02

Dear Kirk:

Enclosed are the results of the sample(s) submitted to our laboratory on May 19, 2010. For your reference, these analyses have been assigned our service request number **J1002335**.

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.

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

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502. Other state accreditations include: Georgia, #958; Kentucky, #63; Louisiana, #02086; North Carolina, #527; South Carolina, #96021001; Texas, #T104704197-09-TX.

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Environmental Planning Specialists	**Service Request No.:**	J1002335
Project:	JED SWDF	**Date Received:**	5/19/10
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Ten water samples and one trip blank were received for analysis at Columbia Analytical Services on 5/19/10. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

The samples were analyzed for Volatile Organics using EPA Method 8260. No problems were observed.

EDB and DBCP by GC-ECD

The samples were analyzed for EDB and DBCP using EPA Method 8011. The following observations were made regarding this delivery group.

Surrogate Exceptions

The lower control criterion was exceeded for the following surrogate in sample MW-23A: 1,1,1,2-Tetrachloroethane. There were visible matrix peaks on the chromatogram at the surrogate retention time indicating that sample matrix may have interfered with surrogate recovery and/or quantitation. The surrogate outlier is flagged accordingly. No further corrective action was appropriate.

Batch QC Notes and Discussion

Some quality control samples (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

Metals by ICP-MS/ICP-OES/CVAA

The samples were analyzed for Total Metals using EPA Methods 6020/6010B/7470A. The following observations were made regarding this delivery group.

Approved by _____ **Date** 6/2/10

Matrix Spike Recovery Exceptions

The matrix spike recovery of Barium for sample MW-2B was outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential high bias in this matrix. No further corrective action was appropriate.

Batch QC Notes and Discussion

Some quality control samples (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

General Chemistry Parameters

The samples were analyzed for Inorganic Parameters using various EPA and Standard Methods. No problems were observed.

Approved by _____ **Date** 6/2/10

Florida DEP Data Qualifiers

B Results based upon colony counts outside the acceptable range.

D Measurement was made in the field.

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 practical quantitation limit.

J Estimated value (one of the following reasons is discussed in the project case narrative).
1. The result may be inaccurate because the surrogate recovery limits have been exceeded.
2. No known quality control criteria exists for the component.
3. The reported value failed to meet the established quality control criteria for either precision or accuracy.
4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD).
5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).

K Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).

L Off scale high. The analyte is above the upper limit of the linear calibration range.

M The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.

N Presumptive evidence of the analyte. Confirmation was not performed.

Q Sample held beyond the accepted holding time.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.

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.

Y The laboratory analysis was from an improperly preserved sample.

Z Too many colonies were present (TNTC). 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: Environmental Planning Specialists
Project: JED SWDF/Task 02

Service Request: J1002335

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J1002335-001	MW-3A	5/18/10	13:15
J1002335-002	MW-3B	5/18/10	13:40
J1002335-003	MW-2A	5/18/10	15:00
J1002335-004	MW-2B	5/18/10	15:25
J1002335-005	MW-23A	5/18/10	07:52
J1002335-006	MW-23B	5/18/10	07:20
J1002335-007	MW-16A	5/18/10	09:55
J1002335-008	MW-16B	5/18/10	10:45
J1002335-009	MW-16C	5/18/10	10:20
J1002335-010	EB	5/18/10	11:20
J1002335-011	Trip Blank	5/18/10	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 05/18/2010
Date Received: 05/19/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-3A
Lab Code: J1002335-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/26/10	05/26/10	JWG1001918	
Vinyl Chloride	ND	U	1.0	0.16	1	05/26/10	05/26/10	JWG1001918	
Bromomethane	ND	U	1.0	0.49	1	05/26/10	05/26/10	JWG1001918	
Chloroethane	ND	U	5.0	0.68	1	05/26/10	05/26/10	JWG1001918	
Trichlorofluoromethane	ND	U	20	0.71	1	05/26/10	05/26/10	JWG1001918	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/26/10	05/26/10	JWG1001918	
Acetone	ND	U	50	5.6	1	05/26/10	05/26/10	JWG1001918	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/26/10	05/26/10	JWG1001918	
Carbon Disulfide	ND	U	10	3.1	1	05/26/10	05/26/10	JWG1001918	
Methylene Chloride	ND	U	5.0	0.45	1	05/26/10	05/26/10	JWG1001918	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/26/10	05/26/10	JWG1001918	
Acrylonitrile	ND	U	10	2.7	1	05/26/10	05/26/10	JWG1001918	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/26/10	05/26/10	JWG1001918	
Vinyl Acetate	ND	U	10	2.7	1	05/26/10	05/26/10	JWG1001918	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/26/10	05/26/10	JWG1001918	
2-Butanone (MEK)	ND	U	25	2.5	1	05/26/10	05/26/10	JWG1001918	
Bromochloromethane	ND	U	5.0	0.67	1	05/26/10	05/26/10	JWG1001918	
Chloroform	ND	U	1.0	0.35	1	05/26/10	05/26/10	JWG1001918	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/26/10	05/26/10	JWG1001918	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/26/10	05/26/10	JWG1001918	
Benzene	**1.2**		1.0	0.066	1	05/26/10	05/26/10	JWG1001918	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/26/10	05/26/10	JWG1001918	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/26/10	05/26/10	JWG1001918	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/26/10	05/26/10	JWG1001918	
Dibromomethane	ND	U	5.0	0.39	1	05/26/10	05/26/10	JWG1001918	
Bromodichloromethane	ND	U	1.0	0.19	1	05/26/10	05/26/10	JWG1001918	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/26/10	05/26/10	JWG1001918	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/26/10	05/26/10	JWG1001918	
Toluene	ND	U	1.0	0.47	1	05/26/10	05/26/10	JWG1001918	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/26/10	05/26/10	JWG1001918	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/26/10	05/26/10	JWG1001918	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/26/10	05/26/10	JWG1001918	
2-Hexanone	ND	U	25	2.1	1	05/26/10	05/26/10	JWG1001918	
Dibromochloromethane	ND	U	1.0	0.34	1	05/26/10	05/26/10	JWG1001918	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	05/18/2010
Sample Matrix:	Water	**Date Received:**	05/19/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-3A	**Units:**	ug/L
Lab Code:	J1002335-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/26/10	05/26/10	JWG1001918	
Chlorobenzene	ND	U	1.0	0.42	1	05/26/10	05/26/10	JWG1001918	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/26/10	05/26/10	JWG1001918	
Ethylbenzene	ND	U	1.0	0.52	1	05/26/10	05/26/10	JWG1001918	
m,p-Xylenes	ND	U	2.0	1.1	1	05/26/10	05/26/10	JWG1001918	
o-Xylene	ND	U	1.0	0.49	1	05/26/10	05/26/10	JWG1001918	
Styrene	ND	U	1.0	0.49	1	05/26/10	05/26/10	JWG1001918	
Bromoform	ND	U	2.0	0.44	1	05/26/10	05/26/10	JWG1001918	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/26/10	05/26/10	JWG1001918	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/26/10	05/26/10	JWG1001918	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/26/10	05/26/10	JWG1001918	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/26/10	05/26/10	JWG1001918	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/26/10	05/26/10	JWG1001918	
1,2-Dibromo-3-chloropropane (DI	ND	U	5.0	2.3	1	05/26/10	05/26/10	JWG1001918	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	106	71-122	05/26/10	Acceptable
4-Bromofluorobenzene	110	75-120	05/26/10	Acceptable
Dibromofluoromethane	103	82-116	05/26/10	Acceptable
Toluene-d8	99	88-117	05/26/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 05/18/2010
Date Received: 05/19/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-3B
Lab Code: J1002335-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/26/10	05/26/10	JWG1001918	
Vinyl Chloride	ND	U	1.0	0.16	1	05/26/10	05/26/10	JWG1001918	
Bromomethane	ND	U	1.0	0.49	1	05/26/10	05/26/10	JWG1001918	
Chloroethane	ND	U	5.0	0.68	1	05/26/10	05/26/10	JWG1001918	
Trichlorofluoromethane	ND	U	20	0.71	1	05/26/10	05/26/10	JWG1001918	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/26/10	05/26/10	JWG1001918	
Acetone	ND	U	50	5.6	1	05/26/10	05/26/10	JWG1001918	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/26/10	05/26/10	JWG1001918	
Carbon Disulfide	ND	U	10	3.1	1	05/26/10	05/26/10	JWG1001918	
Methylene Chloride	ND	U	5.0	0.45	1	05/26/10	05/26/10	JWG1001918	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/26/10	05/26/10	JWG1001918	
Acrylonitrile	ND	U	10	2.7	1	05/26/10	05/26/10	JWG1001918	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/26/10	05/26/10	JWG1001918	
Vinyl Acetate	ND	U	10	2.7	1	05/26/10	05/26/10	JWG1001918	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/26/10	05/26/10	JWG1001918	
2-Butanone (MEK)	ND	U	25	2.5	1	05/26/10	05/26/10	JWG1001918	
Bromochloromethane	ND	U	5.0	0.67	1	05/26/10	05/26/10	JWG1001918	
Chloroform	ND	U	1.0	0.35	1	05/26/10	05/26/10	JWG1001918	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/26/10	05/26/10	JWG1001918	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/26/10	05/26/10	JWG1001918	
Benzene	ND	U	1.0	0.066	1	05/26/10	05/26/10	JWG1001918	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/26/10	05/26/10	JWG1001918	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/26/10	05/26/10	JWG1001918	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/26/10	05/26/10	JWG1001918	
Dibromomethane	ND	U	5.0	0.39	1	05/26/10	05/26/10	JWG1001918	
Bromodichloromethane	ND	U	1.0	0.19	1	05/26/10	05/26/10	JWG1001918	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/26/10	05/26/10	JWG1001918	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/26/10	05/26/10	JWG1001918	
Toluene	ND	U	1.0	0.47	1	05/26/10	05/26/10	JWG1001918	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/26/10	05/26/10	JWG1001918	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/26/10	05/26/10	JWG1001918	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/26/10	05/26/10	JWG1001918	
2-Hexanone	ND	U	25	2.1	1	05/26/10	05/26/10	JWG1001918	
Dibromochloromethane	ND	U	1.0	0.34	1	05/26/10	05/26/10	JWG1001918	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	05/18/2010
Sample Matrix:	Water	**Date Received:**	05/19/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-3B	**Units:**	ug/L
Lab Code:	J1002335-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/26/10	05/26/10	JWG1001918	
Chlorobenzene	ND	U	1.0	0.42	1	05/26/10	05/26/10	JWG1001918	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/26/10	05/26/10	JWG1001918	
Ethylbenzene	ND	U	1.0	0.52	1	05/26/10	05/26/10	JWG1001918	
m,p-Xylenes	ND	U	2.0	1.1	1	05/26/10	05/26/10	JWG1001918	
o-Xylene	ND	U	1.0	0.49	1	05/26/10	05/26/10	JWG1001918	
Styrene	ND	U	1.0	0.49	1	05/26/10	05/26/10	JWG1001918	
Bromoform	ND	U	2.0	0.44	1	05/26/10	05/26/10	JWG1001918	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/26/10	05/26/10	JWG1001918	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/26/10	05/26/10	JWG1001918	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/26/10	05/26/10	JWG1001918	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/26/10	05/26/10	JWG1001918	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/26/10	05/26/10	JWG1001918	
1,2-Dibromo-3-chloropropane (DE	ND	U	5.0	2.3	1	05/26/10	05/26/10	JWG1001918	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	106	71-122	05/26/10	Acceptable
4-Bromofluorobenzene	109	75-120	05/26/10	Acceptable
Dibromofluoromethane	103	82-116	05/26/10	Acceptable
Toluene-d8	106	88-117	05/26/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 05/18/2010
Date Received: 05/19/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-2A
Lab Code: J1002335-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/26/10	05/26/10	JWG1001918	
Vinyl Chloride	ND	U	1.0	0.16	1	05/26/10	05/26/10	JWG1001918	
Bromomethane	ND	U	1.0	0.49	1	05/26/10	05/26/10	JWG1001918	
Chloroethane	ND	U	5.0	0.68	1	05/26/10	05/26/10	JWG1001918	
Trichlorofluoromethane	ND	U	20	0.71	1	05/26/10	05/26/10	JWG1001918	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/26/10	05/26/10	JWG1001918	
Acetone	ND	U	50	5.6	1	05/26/10	05/26/10	JWG1001918	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/26/10	05/26/10	JWG1001918	
Carbon Disulfide	ND	U	10	3.1	1	05/26/10	05/26/10	JWG1001918	
Methylene Chloride	ND	U	5.0	0.45	1	05/26/10	05/26/10	JWG1001918	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/26/10	05/26/10	JWG1001918	
Acrylonitrile	ND	U	10	2.7	1	05/26/10	05/26/10	JWG1001918	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/26/10	05/26/10	JWG1001918	
Vinyl Acetate	ND	U	10	2.7	1	05/26/10	05/26/10	JWG1001918	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/26/10	05/26/10	JWG1001918	
2-Butanone (MEK)	ND	U	25	2.5	1	05/26/10	05/26/10	JWG1001918	
Bromochloromethane	ND	U	5.0	0.67	1	05/26/10	05/26/10	JWG1001918	
Chloroform	ND	U	1.0	0.35	1	05/26/10	05/26/10	JWG1001918	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/26/10	05/26/10	JWG1001918	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/26/10	05/26/10	JWG1001918	
Benzene	ND	U	1.0	0.066	1	05/26/10	05/26/10	JWG1001918	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/26/10	05/26/10	JWG1001918	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/26/10	05/26/10	JWG1001918	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/26/10	05/26/10	JWG1001918	
Dibromomethane	ND	U	5.0	0.39	1	05/26/10	05/26/10	JWG1001918	
Bromodichloromethane	ND	U	1.0	0.19	1	05/26/10	05/26/10	JWG1001918	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/26/10	05/26/10	JWG1001918	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/26/10	05/26/10	JWG1001918	
Toluene	ND	U	1.0	0.47	1	05/26/10	05/26/10	JWG1001918	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/26/10	05/26/10	JWG1001918	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/26/10	05/26/10	JWG1001918	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/26/10	05/26/10	JWG1001918	
2-Hexanone	ND	U	25	2.1	1	05/26/10	05/26/10	JWG1001918	
Dibromochloromethane	ND	U	1.0	0.34	1	05/26/10	05/26/10	JWG1001918	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	05/18/2010
Sample Matrix:	Water	**Date Received:**	05/19/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-2A	**Units:**	ug/L
Lab Code:	J1002335-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/26/10	05/26/10	JWG1001918	
Chlorobenzene	ND	U	1.0	0.42	1	05/26/10	05/26/10	JWG1001918	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/26/10	05/26/10	JWG1001918	
Ethylbenzene	ND	U	1.0	0.52	1	05/26/10	05/26/10	JWG1001918	
m,p-Xylenes	ND	U	2.0	1.1	1	05/26/10	05/26/10	JWG1001918	
o-Xylene	ND	U	1.0	0.49	1	05/26/10	05/26/10	JWG1001918	
Styrene	ND	U	1.0	0.49	1	05/26/10	05/26/10	JWG1001918	
Bromoform	ND	U	2.0	0.44	1	05/26/10	05/26/10	JWG1001918	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/26/10	05/26/10	JWG1001918	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/26/10	05/26/10	JWG1001918	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/26/10	05/26/10	JWG1001918	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/26/10	05/26/10	JWG1001918	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/26/10	05/26/10	JWG1001918	
1,2-Dibromo-3-chloropropane (DI	ND	U	5.0	2.3	1	05/26/10	05/26/10	JWG1001918	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	108	71-122	05/26/10	Acceptable
4-Bromofluorobenzene	108	75-120	05/26/10	Acceptable
Dibromofluoromethane	107	82-116	05/26/10	Acceptable
Toluene-d8	101	88-117	05/26/10	Acceptable

Comments:

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 05/18/2010
Date Received: 05/19/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-2B
Lab Code: J1002335-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/26/10	05/26/10	JWG1001918	
Vinyl Chloride	ND	U	1.0	0.16	1	05/26/10	05/26/10	JWG1001918	
Bromomethane	ND	U	1.0	0.49	1	05/26/10	05/26/10	JWG1001918	
Chloroethane	ND	U	5.0	0.68	1	05/26/10	05/26/10	JWG1001918	
Trichlorofluoromethane	ND	U	20	0.71	1	05/26/10	05/26/10	JWG1001918	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/26/10	05/26/10	JWG1001918	
Acetone	ND	U	50	5.6	1	05/26/10	05/26/10	JWG1001918	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/26/10	05/26/10	JWG1001918	
Carbon Disulfide	ND	U	10	3.1	1	05/26/10	05/26/10	JWG1001918	
Methylene Chloride	ND	U	5.0	0.45	1	05/26/10	05/26/10	JWG1001918	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/26/10	05/26/10	JWG1001918	
Acrylonitrile	ND	U	10	2.7	1	05/26/10	05/26/10	JWG1001918	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/26/10	05/26/10	JWG1001918	
Vinyl Acetate	ND	U	10	2.7	1	05/26/10	05/26/10	JWG1001918	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/26/10	05/26/10	JWG1001918	
2-Butanone (MEK)	ND	U	25	2.5	1	05/26/10	05/26/10	JWG1001918	
Bromochloromethane	ND	U	5.0	0.67	1	05/26/10	05/26/10	JWG1001918	
Chloroform	ND	U	1.0	0.35	1	05/26/10	05/26/10	JWG1001918	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/26/10	05/26/10	JWG1001918	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/26/10	05/26/10	JWG1001918	
Benzene	ND	U	1.0	0.066	1	05/26/10	05/26/10	JWG1001918	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/26/10	05/26/10	JWG1001918	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/26/10	05/26/10	JWG1001918	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/26/10	05/26/10	JWG1001918	
Dibromomethane	ND	U	5.0	0.39	1	05/26/10	05/26/10	JWG1001918	
Bromodichloromethane	ND	U	1.0	0.19	1	05/26/10	05/26/10	JWG1001918	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/26/10	05/26/10	JWG1001918	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/26/10	05/26/10	JWG1001918	
Toluene	ND	U	1.0	0.47	1	05/26/10	05/26/10	JWG1001918	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/26/10	05/26/10	JWG1001918	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/26/10	05/26/10	JWG1001918	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/26/10	05/26/10	JWG1001918	
2-Hexanone	ND	U	25	2.1	1	05/26/10	05/26/10	JWG1001918	
Dibromochloromethane	ND	U	1.0	0.34	1	05/26/10	05/26/10	JWG1001918	

Comments:

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 05/18/2010
Date Received: 05/19/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-2B
Lab Code: J1002335-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/26/10	05/26/10	JWG1001918	
Chlorobenzene	ND	U	1.0	0.42	1	05/26/10	05/26/10	JWG1001918	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/26/10	05/26/10	JWG1001918	
Ethylbenzene	ND	U	1.0	0.52	1	05/26/10	05/26/10	JWG1001918	
m,p-Xylenes	ND	U	2.0	1.1	1	05/26/10	05/26/10	JWG1001918	
o-Xylene	ND	U	1.0	0.49	1	05/26/10	05/26/10	JWG1001918	
Styrene	ND	U	1.0	0.49	1	05/26/10	05/26/10	JWG1001918	
Bromoform	ND	U	2.0	0.44	1	05/26/10	05/26/10	JWG1001918	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/26/10	05/26/10	JWG1001918	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/26/10	05/26/10	JWG1001918	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/26/10	05/26/10	JWG1001918	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/26/10	05/26/10	JWG1001918	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/26/10	05/26/10	JWG1001918	
1,2-Dibromo-3-chloropropane (DE	ND	U	5.0	2.3	1	05/26/10	05/26/10	JWG1001918	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	111	71-122	05/26/10	Acceptable
4-Bromofluorobenzene	110	75-120	05/26/10	Acceptable
Dibromofluoromethane	109	82-116	05/26/10	Acceptable
Toluene-d8	105	88-117	05/26/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 05/18/2010
Date Received: 05/19/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-23A
Lab Code: J1002335-005

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/26/10	05/26/10	JWG1001918	
Vinyl Chloride	ND	U	1.0	0.16	1	05/26/10	05/26/10	JWG1001918	
Bromomethane	ND	U	1.0	0.49	1	05/26/10	05/26/10	JWG1001918	
Chloroethane	ND	U	5.0	0.68	1	05/26/10	05/26/10	JWG1001918	
Trichlorofluoromethane	ND	U	20	0.71	1	05/26/10	05/26/10	JWG1001918	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/26/10	05/26/10	JWG1001918	
Acetone	ND	U	50	5.6	1	05/26/10	05/26/10	JWG1001918	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/26/10	05/26/10	JWG1001918	
Carbon Disulfide	ND	U	10	3.1	1	05/26/10	05/26/10	JWG1001918	
Methylene Chloride	ND	U	5.0	0.45	1	05/26/10	05/26/10	JWG1001918	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/26/10	05/26/10	JWG1001918	
Acrylonitrile	ND	U	10	2.7	1	05/26/10	05/26/10	JWG1001918	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/26/10	05/26/10	JWG1001918	
Vinyl Acetate	ND	U	10	2.7	1	05/26/10	05/26/10	JWG1001918	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/26/10	05/26/10	JWG1001918	
2-Butanone (MEK)	ND	U	25	2.5	1	05/26/10	05/26/10	JWG1001918	
Bromochloromethane	ND	U	5.0	0.67	1	05/26/10	05/26/10	JWG1001918	
Chloroform	ND	U	1.0	0.35	1	05/26/10	05/26/10	JWG1001918	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/26/10	05/26/10	JWG1001918	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/26/10	05/26/10	JWG1001918	
Benzene	ND	U	1.0	0.066	1	05/26/10	05/26/10	JWG1001918	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/26/10	05/26/10	JWG1001918	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/26/10	05/26/10	JWG1001918	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/26/10	05/26/10	JWG1001918	
Dibromomethane	ND	U	5.0	0.39	1	05/26/10	05/26/10	JWG1001918	
Bromodichloromethane	ND	U	1.0	0.19	1	05/26/10	05/26/10	JWG1001918	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/26/10	05/26/10	JWG1001918	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/26/10	05/26/10	JWG1001918	
Toluene	ND	U	1.0	0.47	1	05/26/10	05/26/10	JWG1001918	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/26/10	05/26/10	JWG1001918	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/26/10	05/26/10	JWG1001918	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/26/10	05/26/10	JWG1001918	
2-Hexanone	ND	U	25	2.1	1	05/26/10	05/26/10	JWG1001918	
Dibromochloromethane	ND	U	1.0	0.34	1	05/26/10	05/26/10	JWG1001918	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	05/18/2010
Sample Matrix:	Water	**Date Received:**	05/19/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-23A	**Units:**	ug/L
Lab Code:	J1002335-005	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/26/10	05/26/10	JWG1001918	
Chlorobenzene	ND	U	1.0	0.42	1	05/26/10	05/26/10	JWG1001918	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/26/10	05/26/10	JWG1001918	
Ethylbenzene	ND	U	1.0	0.52	1	05/26/10	05/26/10	JWG1001918	
m,p-Xylenes	ND	U	2.0	1.1	1	05/26/10	05/26/10	JWG1001918	
o-Xylene	ND	U	1.0	0.49	1	05/26/10	05/26/10	JWG1001918	
Styrene	ND	U	1.0	0.49	1	05/26/10	05/26/10	JWG1001918	
Bromoform	ND	U	2.0	0.44	1	05/26/10	05/26/10	JWG1001918	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/26/10	05/26/10	JWG1001918	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/26/10	05/26/10	JWG1001918	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/26/10	05/26/10	JWG1001918	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/26/10	05/26/10	JWG1001918	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/26/10	05/26/10	JWG1001918	
1,2-Dibromo-3-chloropropane (DI	ND	U	5.0	2.3	1	05/26/10	05/26/10	JWG1001918	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	112	71-122	05/26/10	Acceptable
4-Bromofluorobenzene	111	75-120	05/26/10	Acceptable
Dibromofluoromethane	105	82-116	05/26/10	Acceptable
Toluene-d8	100	88-117	05/26/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 05/18/2010
Date Received: 05/19/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-23B
Lab Code: J1002335-006

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/26/10	05/26/10	JWG1001918	
Vinyl Chloride	ND	U	1.0	0.16	1	05/26/10	05/26/10	JWG1001918	
Bromomethane	ND	U	1.0	0.49	1	05/26/10	05/26/10	JWG1001918	
Chloroethane	ND	U	5.0	0.68	1	05/26/10	05/26/10	JWG1001918	
Trichlorofluoromethane	ND	U	20	0.71	1	05/26/10	05/26/10	JWG1001918	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/26/10	05/26/10	JWG1001918	
Acetone	ND	U	50	5.6	1	05/26/10	05/26/10	JWG1001918	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/26/10	05/26/10	JWG1001918	
Carbon Disulfide	ND	U	10	3.1	1	05/26/10	05/26/10	JWG1001918	
Methylene Chloride	ND	U	5.0	0.45	1	05/26/10	05/26/10	JWG1001918	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/26/10	05/26/10	JWG1001918	
Acrylonitrile	ND	U	10	2.7	1	05/26/10	05/26/10	JWG1001918	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/26/10	05/26/10	JWG1001918	
Vinyl Acetate	ND	U	10	2.7	1	05/26/10	05/26/10	JWG1001918	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/26/10	05/26/10	JWG1001918	
2-Butanone (MEK)	ND	U	25	2.5	1	05/26/10	05/26/10	JWG1001918	
Bromochloromethane	ND	U	5.0	0.67	1	05/26/10	05/26/10	JWG1001918	
Chloroform	ND	U	1.0	0.35	1	05/26/10	05/26/10	JWG1001918	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/26/10	05/26/10	JWG1001918	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/26/10	05/26/10	JWG1001918	
Benzene	ND	U	1.0	0.066	1	05/26/10	05/26/10	JWG1001918	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/26/10	05/26/10	JWG1001918	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/26/10	05/26/10	JWG1001918	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/26/10	05/26/10	JWG1001918	
Dibromomethane	ND	U	5.0	0.39	1	05/26/10	05/26/10	JWG1001918	
Bromodichloromethane	ND	U	1.0	0.19	1	05/26/10	05/26/10	JWG1001918	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/26/10	05/26/10	JWG1001918	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/26/10	05/26/10	JWG1001918	
Toluene	ND	U	1.0	0.47	1	05/26/10	05/26/10	JWG1001918	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/26/10	05/26/10	JWG1001918	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/26/10	05/26/10	JWG1001918	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/26/10	05/26/10	JWG1001918	
2-Hexanone	ND	U	25	2.1	1	05/26/10	05/26/10	JWG1001918	
Dibromochloromethane	ND	U	1.0	0.34	1	05/26/10	05/26/10	JWG1001918	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 05/18/2010
Date Received: 05/19/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-23B
Lab Code: J1002335-006

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/26/10	05/26/10	JWG1001918	
Chlorobenzene	ND	U	1.0	0.42	1	05/26/10	05/26/10	JWG1001918	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/26/10	05/26/10	JWG1001918	
Ethylbenzene	ND	U	1.0	0.52	1	05/26/10	05/26/10	JWG1001918	
m,p-Xylenes	ND	U	2.0	1.1	1	05/26/10	05/26/10	JWG1001918	
o-Xylene	ND	U	1.0	0.49	1	05/26/10	05/26/10	JWG1001918	
Styrene	ND	U	1.0	0.49	1	05/26/10	05/26/10	JWG1001918	
Bromoform	ND	U	2.0	0.44	1	05/26/10	05/26/10	JWG1001918	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/26/10	05/26/10	JWG1001918	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/26/10	05/26/10	JWG1001918	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/26/10	05/26/10	JWG1001918	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/26/10	05/26/10	JWG1001918	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/26/10	05/26/10	JWG1001918	
1,2-Dibromo-3-chloropropane (DI	ND	U	5.0	2.3	1	05/26/10	05/26/10	JWG1001918	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	105	71-122	05/26/10	Acceptable
4-Bromofluorobenzene	108	75-120	05/26/10	Acceptable
Dibromofluoromethane	104	82-116	05/26/10	Acceptable
Toluene-d8	103	88-117	05/26/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 05/18/2010
Date Received: 05/19/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-16A
Lab Code: J1002335-007

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/30/10	05/30/10	JWG1001943	
Vinyl Chloride	ND	U	1.0	0.16	1	05/30/10	05/30/10	JWG1001943	
Bromomethane	ND	U	1.0	0.49	1	05/30/10	05/30/10	JWG1001943	
Chloroethane	ND	U	5.0	0.68	1	05/30/10	05/30/10	JWG1001943	
Trichlorofluoromethane	ND	U	20	0.71	1	05/30/10	05/30/10	JWG1001943	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/30/10	05/30/10	JWG1001943	
Acetone	ND	U	50	5.6	1	05/30/10	05/30/10	JWG1001943	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/30/10	05/30/10	JWG1001943	
Carbon Disulfide	ND	U	10	3.1	1	05/30/10	05/30/10	JWG1001943	
Methylene Chloride	ND	U	5.0	0.45	1	05/30/10	05/30/10	JWG1001943	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/30/10	05/30/10	JWG1001943	
Acrylonitrile	ND	U	10	2.7	1	05/30/10	05/30/10	JWG1001943	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/30/10	05/30/10	JWG1001943	
Vinyl Acetate	ND	U	10	2.7	1	05/30/10	05/30/10	JWG1001943	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/30/10	05/30/10	JWG1001943	
2-Butanone (MEK)	ND	U	25	2.5	1	05/30/10	05/30/10	JWG1001943	
Bromochloromethane	ND	U	5.0	0.67	1	05/30/10	05/30/10	JWG1001943	
Chloroform	ND	U	1.0	0.35	1	05/30/10	05/30/10	JWG1001943	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/30/10	05/30/10	JWG1001943	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/30/10	05/30/10	JWG1001943	
Benzene	ND	U	1.0	0.066	1	05/30/10	05/30/10	JWG1001943	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/30/10	05/30/10	JWG1001943	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/30/10	05/30/10	JWG1001943	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/30/10	05/30/10	JWG1001943	
Dibromomethane	ND	U	5.0	0.39	1	05/30/10	05/30/10	JWG1001943	
Bromodichloromethane	ND	U	1.0	0.19	1	05/30/10	05/30/10	JWG1001943	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/30/10	05/30/10	JWG1001943	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/30/10	05/30/10	JWG1001943	
Toluene	ND	U	1.0	0.47	1	05/30/10	05/30/10	JWG1001943	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/30/10	05/30/10	JWG1001943	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/30/10	05/30/10	JWG1001943	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/30/10	05/30/10	JWG1001943	
2-Hexanone	ND	U	25	2.1	1	05/30/10	05/30/10	JWG1001943	
Dibromochloromethane	ND	U	1.0	0.34	1	05/30/10	05/30/10	JWG1001943	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	05/18/2010
Sample Matrix:	Water	**Date Received:**	05/19/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-16A	**Units:**	ug/L
Lab Code:	J1002335-007	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/30/10	05/30/10	JWG1001943	
Chlorobenzene	ND	U	1.0	0.42	1	05/30/10	05/30/10	JWG1001943	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/30/10	05/30/10	JWG1001943	
Ethylbenzene	ND	U	1.0	0.52	1	05/30/10	05/30/10	JWG1001943	
m,p-Xylenes	ND	U	2.0	1.1	1	05/30/10	05/30/10	JWG1001943	
o-Xylene	ND	U	1.0	0.49	1	05/30/10	05/30/10	JWG1001943	
Styrene	ND	U	1.0	0.49	1	05/30/10	05/30/10	JWG1001943	
Bromoform	ND	U	2.0	0.44	1	05/30/10	05/30/10	JWG1001943	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/30/10	05/30/10	JWG1001943	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/30/10	05/30/10	JWG1001943	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/30/10	05/30/10	JWG1001943	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/30/10	05/30/10	JWG1001943	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/30/10	05/30/10	JWG1001943	
1,2-Dibromo-3-chloropropane (DE	ND	U	5.0	2.3	1	05/30/10	05/30/10	JWG1001943	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	84	71-122	05/30/10	Acceptable
4-Bromofluorobenzene	104	75-120	05/30/10	Acceptable
Dibromofluoromethane	95	82-116	05/30/10	Acceptable
Toluene-d8	99	88-117	05/30/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 05/18/2010
Date Received: 05/19/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-16B
Lab Code: J1002335-008

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/30/10	05/30/10	JWG1001943	
Vinyl Chloride	ND	U	1.0	0.16	1	05/30/10	05/30/10	JWG1001943	
Bromomethane	ND	U	1.0	0.49	1	05/30/10	05/30/10	JWG1001943	
Chloroethane	ND	U	5.0	0.68	1	05/30/10	05/30/10	JWG1001943	
Trichlorofluoromethane	ND	U	20	0.71	1	05/30/10	05/30/10	JWG1001943	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/30/10	05/30/10	JWG1001943	
Acetone	ND	U	50	5.6	1	05/30/10	05/30/10	JWG1001943	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/30/10	05/30/10	JWG1001943	
Carbon Disulfide	ND	U	10	3.1	1	05/30/10	05/30/10	JWG1001943	
Methylene Chloride	ND	U	5.0	0.45	1	05/30/10	05/30/10	JWG1001943	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/30/10	05/30/10	JWG1001943	
Acrylonitrile	ND	U	10	2.7	1	05/30/10	05/30/10	JWG1001943	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/30/10	05/30/10	JWG1001943	
Vinyl Acetate	ND	U	10	2.7	1	05/30/10	05/30/10	JWG1001943	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/30/10	05/30/10	JWG1001943	
2-Butanone (MEK)	ND	U	25	2.5	1	05/30/10	05/30/10	JWG1001943	
Bromochloromethane	ND	U	5.0	0.67	1	05/30/10	05/30/10	JWG1001943	
Chloroform	ND	U	1.0	0.35	1	05/30/10	05/30/10	JWG1001943	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/30/10	05/30/10	JWG1001943	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/30/10	05/30/10	JWG1001943	
Benzene	ND	U	1.0	0.066	1	05/30/10	05/30/10	JWG1001943	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/30/10	05/30/10	JWG1001943	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/30/10	05/30/10	JWG1001943	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/30/10	05/30/10	JWG1001943	
Dibromomethane	ND	U	5.0	0.39	1	05/30/10	05/30/10	JWG1001943	
Bromodichloromethane	ND	U	1.0	0.19	1	05/30/10	05/30/10	JWG1001943	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/30/10	05/30/10	JWG1001943	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/30/10	05/30/10	JWG1001943	
Toluene	ND	U	1.0	0.47	1	05/30/10	05/30/10	JWG1001943	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/30/10	05/30/10	JWG1001943	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/30/10	05/30/10	JWG1001943	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/30/10	05/30/10	JWG1001943	
2-Hexanone	ND	U	25	2.1	1	05/30/10	05/30/10	JWG1001943	
Dibromochloromethane	ND	U	1.0	0.34	1	05/30/10	05/30/10	JWG1001943	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	05/18/2010
Sample Matrix:	Water	**Date Received:**	05/19/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-16B	**Units:**	ug/L
Lab Code:	J1002335-008	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/30/10	05/30/10	JWG1001943	
Chlorobenzene	ND	U	1.0	0.42	1	05/30/10	05/30/10	JWG1001943	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/30/10	05/30/10	JWG1001943	
Ethylbenzene	ND	U	1.0	0.52	1	05/30/10	05/30/10	JWG1001943	
m,p-Xylenes	ND	U	2.0	1.1	1	05/30/10	05/30/10	JWG1001943	
o-Xylene	ND	U	1.0	0.49	1	05/30/10	05/30/10	JWG1001943	
Styrene	ND	U	1.0	0.49	1	05/30/10	05/30/10	JWG1001943	
Bromoform	ND	U	2.0	0.44	1	05/30/10	05/30/10	JWG1001943	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/30/10	05/30/10	JWG1001943	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/30/10	05/30/10	JWG1001943	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/30/10	05/30/10	JWG1001943	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/30/10	05/30/10	JWG1001943	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/30/10	05/30/10	JWG1001943	
1,2-Dibromo-3-chloropropane (DI	ND	U	5.0	2.3	1	05/30/10	05/30/10	JWG1001943	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	104	71-122	05/30/10	Acceptable
4-Bromofluorobenzene	107	75-120	05/30/10	Acceptable
Dibromofluoromethane	103	82-116	05/30/10	Acceptable
Toluene-d8	98	88-117	05/30/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 05/18/2010
Date Received: 05/19/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-16C
Lab Code: J1002335-009

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/30/10	05/30/10	JWG1001943	
Vinyl Chloride	ND	U	1.0	0.16	1	05/30/10	05/30/10	JWG1001943	
Bromomethane	ND	U	1.0	0.49	1	05/30/10	05/30/10	JWG1001943	
Chloroethane	ND	U	5.0	0.68	1	05/30/10	05/30/10	JWG1001943	
Trichlorofluoromethane	ND	U	20	0.71	1	05/30/10	05/30/10	JWG1001943	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/30/10	05/30/10	JWG1001943	
Acetone	ND	U	50	5.6	1	05/30/10	05/30/10	JWG1001943	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/30/10	05/30/10	JWG1001943	
Carbon Disulfide	ND	U	10	3.1	1	05/30/10	05/30/10	JWG1001943	
Methylene Chloride	ND	U	5.0	0.45	1	05/30/10	05/30/10	JWG1001943	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/30/10	05/30/10	JWG1001943	
Acrylonitrile	ND	U	10	2.7	1	05/30/10	05/30/10	JWG1001943	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/30/10	05/30/10	JWG1001943	
Vinyl Acetate	ND	U	10	2.7	1	05/30/10	05/30/10	JWG1001943	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/30/10	05/30/10	JWG1001943	
2-Butanone (MEK)	ND	U	25	2.5	1	05/30/10	05/30/10	JWG1001943	
Bromochloromethane	ND	U	5.0	0.67	1	05/30/10	05/30/10	JWG1001943	
Chloroform	ND	U	1.0	0.35	1	05/30/10	05/30/10	JWG1001943	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/30/10	05/30/10	JWG1001943	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/30/10	05/30/10	JWG1001943	
Benzene	ND	U	1.0	0.066	1	05/30/10	05/30/10	JWG1001943	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/30/10	05/30/10	JWG1001943	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/30/10	05/30/10	JWG1001943	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/30/10	05/30/10	JWG1001943	
Dibromomethane	ND	U	5.0	0.39	1	05/30/10	05/30/10	JWG1001943	
Bromodichloromethane	ND	U	1.0	0.19	1	05/30/10	05/30/10	JWG1001943	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/30/10	05/30/10	JWG1001943	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/30/10	05/30/10	JWG1001943	
Toluene	**1.1**		1.0	0.47	1	05/30/10	05/30/10	JWG1001943	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/30/10	05/30/10	JWG1001943	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/30/10	05/30/10	JWG1001943	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/30/10	05/30/10	JWG1001943	
2-Hexanone	ND	U	25	2.1	1	05/30/10	05/30/10	JWG1001943	
Dibromochloromethane	ND	U	1.0	0.34	1	05/30/10	05/30/10	JWG1001943	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	05/18/2010
Sample Matrix:	Water	**Date Received:**	05/19/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-16C	**Units:**	ug/L
Lab Code:	J1002335-009	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/30/10	05/30/10	JWG1001943	
Chlorobenzene	ND	U	1.0	0.42	1	05/30/10	05/30/10	JWG1001943	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/30/10	05/30/10	JWG1001943	
Ethylbenzene	**0.56**	I	1.0	0.52	1	05/30/10	05/30/10	JWG1001943	
m,p-Xylenes	ND	U	2.0	1.1	1	05/30/10	05/30/10	JWG1001943	
o-Xylene	ND	U	1.0	0.49	1	05/30/10	05/30/10	JWG1001943	
Styrene	ND	U	1.0	0.49	1	05/30/10	05/30/10	JWG1001943	
Bromoform	ND	U	2.0	0.44	1	05/30/10	05/30/10	JWG1001943	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/30/10	05/30/10	JWG1001943	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/30/10	05/30/10	JWG1001943	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/30/10	05/30/10	JWG1001943	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/30/10	05/30/10	JWG1001943	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/30/10	05/30/10	JWG1001943	
1,2-Dibromo-3-chloropropane (DI	ND	U	5.0	2.3	1	05/30/10	05/30/10	JWG1001943	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	106	71-122	05/30/10	Acceptable
4-Bromofluorobenzene	105	75-120	05/30/10	Acceptable
Dibromofluoromethane	100	82-116	05/30/10	Acceptable
Toluene-d8	98	88-117	05/30/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 05/18/2010
Date Received: 05/19/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: EB
Lab Code: J1002335-010

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/30/10	05/30/10	JWG1001943	
Vinyl Chloride	ND	U	1.0	0.16	1	05/30/10	05/30/10	JWG1001943	
Bromomethane	ND	U	1.0	0.49	1	05/30/10	05/30/10	JWG1001943	
Chloroethane	ND	U	5.0	0.68	1	05/30/10	05/30/10	JWG1001943	
Trichlorofluoromethane	ND	U	20	0.71	1	05/30/10	05/30/10	JWG1001943	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/30/10	05/30/10	JWG1001943	
Acetone	ND	U	50	5.6	1	05/30/10	05/30/10	JWG1001943	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/30/10	05/30/10	JWG1001943	
Carbon Disulfide	ND	U	10	3.1	1	05/30/10	05/30/10	JWG1001943	
Methylene Chloride	ND	U	5.0	0.45	1	05/30/10	05/30/10	JWG1001943	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/30/10	05/30/10	JWG1001943	
Acrylonitrile	ND	U	10	2.7	1	05/30/10	05/30/10	JWG1001943	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/30/10	05/30/10	JWG1001943	
Vinyl Acetate	ND	U	10	2.7	1	05/30/10	05/30/10	JWG1001943	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/30/10	05/30/10	JWG1001943	
2-Butanone (MEK)	ND	U	25	2.5	1	05/30/10	05/30/10	JWG1001943	
Bromochloromethane	ND	U	5.0	0.67	1	05/30/10	05/30/10	JWG1001943	
Chloroform	ND	U	1.0	0.35	1	05/30/10	05/30/10	JWG1001943	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/30/10	05/30/10	JWG1001943	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/30/10	05/30/10	JWG1001943	
Benzene	ND	U	1.0	0.066	1	05/30/10	05/30/10	JWG1001943	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/30/10	05/30/10	JWG1001943	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/30/10	05/30/10	JWG1001943	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/30/10	05/30/10	JWG1001943	
Dibromomethane	ND	U	5.0	0.39	1	05/30/10	05/30/10	JWG1001943	
Bromodichloromethane	ND	U	1.0	0.19	1	05/30/10	05/30/10	JWG1001943	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/30/10	05/30/10	JWG1001943	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/30/10	05/30/10	JWG1001943	
Toluene	ND	U	1.0	0.47	1	05/30/10	05/30/10	JWG1001943	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/30/10	05/30/10	JWG1001943	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/30/10	05/30/10	JWG1001943	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/30/10	05/30/10	JWG1001943	
2-Hexanone	ND	U	25	2.1	1	05/30/10	05/30/10	JWG1001943	
Dibromochloromethane	ND	U	1.0	0.34	1	05/30/10	05/30/10	JWG1001943	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	05/18/2010
Sample Matrix:	Water	**Date Received:**	05/19/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	EB	**Units:**	ug/L
Lab Code:	J1002335-010	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/30/10	05/30/10	JWG1001943	
Chlorobenzene	ND	U	1.0	0.42	1	05/30/10	05/30/10	JWG1001943	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/30/10	05/30/10	JWG1001943	
Ethylbenzene	ND	U	1.0	0.52	1	05/30/10	05/30/10	JWG1001943	
m,p-Xylenes	ND	U	2.0	1.1	1	05/30/10	05/30/10	JWG1001943	
o-Xylene	ND	U	1.0	0.49	1	05/30/10	05/30/10	JWG1001943	
Styrene	ND	U	1.0	0.49	1	05/30/10	05/30/10	JWG1001943	
Bromoform	ND	U	2.0	0.44	1	05/30/10	05/30/10	JWG1001943	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/30/10	05/30/10	JWG1001943	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/30/10	05/30/10	JWG1001943	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/30/10	05/30/10	JWG1001943	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/30/10	05/30/10	JWG1001943	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/30/10	05/30/10	JWG1001943	
1,2-Dibromo-3-chloropropane (DI	ND	U	5.0	2.3	1	05/30/10	05/30/10	JWG1001943	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	102	71-122	05/30/10	Acceptable
4-Bromofluorobenzene	104	75-120	05/30/10	Acceptable
Dibromofluoromethane	100	82-116	05/30/10	Acceptable
Toluene-d8	100	88-117	05/30/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 05/18/2010
Date Received: 05/19/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1002335-011

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/30/10	05/30/10	JWG1001943	
Vinyl Chloride	ND	U	1.0	0.16	1	05/30/10	05/30/10	JWG1001943	
Bromomethane	ND	U	1.0	0.49	1	05/30/10	05/30/10	JWG1001943	
Chloroethane	ND	U	5.0	0.68	1	05/30/10	05/30/10	JWG1001943	
Trichlorofluoromethane	ND	U	20	0.71	1	05/30/10	05/30/10	JWG1001943	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/30/10	05/30/10	JWG1001943	
Acetone	ND	U	50	5.6	1	05/30/10	05/30/10	JWG1001943	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/30/10	05/30/10	JWG1001943	
Carbon Disulfide	ND	U	10	3.1	1	05/30/10	05/30/10	JWG1001943	
Methylene Chloride	ND	U	5.0	0.45	1	05/30/10	05/30/10	JWG1001943	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/30/10	05/30/10	JWG1001943	
Acrylonitrile	ND	U	10	2.7	1	05/30/10	05/30/10	JWG1001943	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/30/10	05/30/10	JWG1001943	
Vinyl Acetate	ND	U	10	2.7	1	05/30/10	05/30/10	JWG1001943	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/30/10	05/30/10	JWG1001943	
2-Butanone (MEK)	ND	U	25	2.5	1	05/30/10	05/30/10	JWG1001943	
Bromochloromethane	ND	U	5.0	0.67	1	05/30/10	05/30/10	JWG1001943	
Chloroform	ND	U	1.0	0.35	1	05/30/10	05/30/10	JWG1001943	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/30/10	05/30/10	JWG1001943	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/30/10	05/30/10	JWG1001943	
Benzene	ND	U	1.0	0.066	1	05/30/10	05/30/10	JWG1001943	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/30/10	05/30/10	JWG1001943	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/30/10	05/30/10	JWG1001943	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/30/10	05/30/10	JWG1001943	
Dibromomethane	ND	U	5.0	0.39	1	05/30/10	05/30/10	JWG1001943	
Bromodichloromethane	ND	U	1.0	0.19	1	05/30/10	05/30/10	JWG1001943	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/30/10	05/30/10	JWG1001943	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/30/10	05/30/10	JWG1001943	
Toluene	ND	U	1.0	0.47	1	05/30/10	05/30/10	JWG1001943	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/30/10	05/30/10	JWG1001943	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/30/10	05/30/10	JWG1001943	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/30/10	05/30/10	JWG1001943	
2-Hexanone	ND	U	25	2.1	1	05/30/10	05/30/10	JWG1001943	
Dibromochloromethane	ND	U	1.0	0.34	1	05/30/10	05/30/10	JWG1001943	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 05/18/2010
Date Received: 05/19/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1002335-011

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/30/10	05/30/10	JWG1001943	
Chlorobenzene	ND	U	1.0	0.42	1	05/30/10	05/30/10	JWG1001943	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/30/10	05/30/10	JWG1001943	
Ethylbenzene	ND	U	1.0	0.52	1	05/30/10	05/30/10	JWG1001943	
m,p-Xylenes	ND	U	2.0	1.1	1	05/30/10	05/30/10	JWG1001943	
o-Xylene	ND	U	1.0	0.49	1	05/30/10	05/30/10	JWG1001943	
Styrene	ND	U	1.0	0.49	1	05/30/10	05/30/10	JWG1001943	
Bromoform	ND	U	2.0	0.44	1	05/30/10	05/30/10	JWG1001943	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/30/10	05/30/10	JWG1001943	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/30/10	05/30/10	JWG1001943	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/30/10	05/30/10	JWG1001943	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/30/10	05/30/10	JWG1001943	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/30/10	05/30/10	JWG1001943	
1,2-Dibromo-3-chloropropane (DI	ND	U	5.0	2.3	1	05/30/10	05/30/10	JWG1001943	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	103	71-122	05/30/10	Acceptable
4-Bromofluorobenzene	105	75-120	05/30/10	Acceptable
Dibromofluoromethane	102	82-116	05/30/10	Acceptable
Toluene-d8	98	88-117	05/30/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1001918-2

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/26/10	05/26/10	JWG1001918	
Vinyl Chloride	ND	U	1.0	0.16	1	05/26/10	05/26/10	JWG1001918	
Bromomethane	ND	U	1.0	0.49	1	05/26/10	05/26/10	JWG1001918	
Chloroethane	ND	U	5.0	0.68	1	05/26/10	05/26/10	JWG1001918	
Trichlorofluoromethane	ND	U	20	0.71	1	05/26/10	05/26/10	JWG1001918	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/26/10	05/26/10	JWG1001918	
Acetone	ND	U	50	5.6	1	05/26/10	05/26/10	JWG1001918	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/26/10	05/26/10	JWG1001918	
Carbon Disulfide	ND	U	10	3.1	1	05/26/10	05/26/10	JWG1001918	
Methylene Chloride	ND	U	5.0	0.45	1	05/26/10	05/26/10	JWG1001918	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/26/10	05/26/10	JWG1001918	
Acrylonitrile	ND	U	10	2.7	1	05/26/10	05/26/10	JWG1001918	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/26/10	05/26/10	JWG1001918	
Vinyl Acetate	ND	U	10	2.7	1	05/26/10	05/26/10	JWG1001918	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/26/10	05/26/10	JWG1001918	
2-Butanone (MEK)	ND	U	25	2.5	1	05/26/10	05/26/10	JWG1001918	
Bromochloromethane	ND	U	5.0	0.67	1	05/26/10	05/26/10	JWG1001918	
Chloroform	ND	U	1.0	0.35	1	05/26/10	05/26/10	JWG1001918	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/26/10	05/26/10	JWG1001918	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/26/10	05/26/10	JWG1001918	
Benzene	ND	U	1.0	0.066	1	05/26/10	05/26/10	JWG1001918	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/26/10	05/26/10	JWG1001918	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/26/10	05/26/10	JWG1001918	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/26/10	05/26/10	JWG1001918	
Dibromomethane	ND	U	5.0	0.39	1	05/26/10	05/26/10	JWG1001918	
Bromodichloromethane	ND	U	1.0	0.19	1	05/26/10	05/26/10	JWG1001918	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/26/10	05/26/10	JWG1001918	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/26/10	05/26/10	JWG1001918	
Toluene	ND	U	1.0	0.47	1	05/26/10	05/26/10	JWG1001918	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/26/10	05/26/10	JWG1001918	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/26/10	05/26/10	JWG1001918	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/26/10	05/26/10	JWG1001918	
2-Hexanone	ND	U	25	2.1	1	05/26/10	05/26/10	JWG1001918	
Dibromochloromethane	ND	U	1.0	0.34	1	05/26/10	05/26/10	JWG1001918	

Comments:

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1001918-2

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/26/10	05/26/10	JWG1001918	
Chlorobenzene	ND	U	1.0	0.42	1	05/26/10	05/26/10	JWG1001918	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/26/10	05/26/10	JWG1001918	
Ethylbenzene	ND	U	1.0	0.52	1	05/26/10	05/26/10	JWG1001918	
m,p-Xylenes	ND	U	2.0	1.1	1	05/26/10	05/26/10	JWG1001918	
o-Xylene	ND	U	1.0	0.49	1	05/26/10	05/26/10	JWG1001918	
Styrene	ND	U	1.0	0.49	1	05/26/10	05/26/10	JWG1001918	
Bromoform	ND	U	2.0	0.44	1	05/26/10	05/26/10	JWG1001918	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/26/10	05/26/10	JWG1001918	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/26/10	05/26/10	JWG1001918	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/26/10	05/26/10	JWG1001918	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/26/10	05/26/10	JWG1001918	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/26/10	05/26/10	JWG1001918	
1,2-Dibromo-3-chloropropane (DE	ND	U	5.0	2.3	1	05/26/10	05/26/10	JWG1001918	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	102	71-122	05/26/10	Acceptable
4-Bromofluorobenzene	107	75-120	05/26/10	Acceptable
Dibromofluoromethane	101	82-116	05/26/10	Acceptable
Toluene-d8	101	88-117	05/26/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1001943-4

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/30/10	05/30/10	JWG1001943	
Vinyl Chloride	ND	U	1.0	0.16	1	05/30/10	05/30/10	JWG1001943	
Bromomethane	ND	U	1.0	0.49	1	05/30/10	05/30/10	JWG1001943	
Chloroethane	ND	U	5.0	0.68	1	05/30/10	05/30/10	JWG1001943	
Trichlorofluoromethane	ND	U	20	0.71	1	05/30/10	05/30/10	JWG1001943	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/30/10	05/30/10	JWG1001943	
Acetone	ND	U	50	5.6	1	05/30/10	05/30/10	JWG1001943	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/30/10	05/30/10	JWG1001943	
Carbon Disulfide	ND	U	10	3.1	1	05/30/10	05/30/10	JWG1001943	
Methylene Chloride	ND	U	5.0	0.45	1	05/30/10	05/30/10	JWG1001943	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/30/10	05/30/10	JWG1001943	
Acrylonitrile	ND	U	10	2.7	1	05/30/10	05/30/10	JWG1001943	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/30/10	05/30/10	JWG1001943	
Vinyl Acetate	ND	U	10	2.7	1	05/30/10	05/30/10	JWG1001943	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/30/10	05/30/10	JWG1001943	
2-Butanone (MEK)	ND	U	25	2.5	1	05/30/10	05/30/10	JWG1001943	
Bromochloromethane	ND	U	5.0	0.67	1	05/30/10	05/30/10	JWG1001943	
Chloroform	ND	U	1.0	0.35	1	05/30/10	05/30/10	JWG1001943	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/30/10	05/30/10	JWG1001943	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/30/10	05/30/10	JWG1001943	
Benzene	ND	U	1.0	0.066	1	05/30/10	05/30/10	JWG1001943	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/30/10	05/30/10	JWG1001943	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/30/10	05/30/10	JWG1001943	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/30/10	05/30/10	JWG1001943	
Dibromomethane	ND	U	5.0	0.39	1	05/30/10	05/30/10	JWG1001943	
Bromodichloromethane	ND	U	1.0	0.19	1	05/30/10	05/30/10	JWG1001943	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/30/10	05/30/10	JWG1001943	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/30/10	05/30/10	JWG1001943	
Toluene	ND	U	1.0	0.47	1	05/30/10	05/30/10	JWG1001943	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/30/10	05/30/10	JWG1001943	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/30/10	05/30/10	JWG1001943	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/30/10	05/30/10	JWG1001943	
2-Hexanone	ND	U	25	2.1	1	05/30/10	05/30/10	JWG1001943	
Dibromochloromethane	ND	U	1.0	0.34	1	05/30/10	05/30/10	JWG1001943	

Comments:

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1001943-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/30/10	05/30/10	JWG1001943	
Chlorobenzene	ND	U	1.0	0.42	1	05/30/10	05/30/10	JWG1001943	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.45	1	05/30/10	05/30/10	JWG1001943	
Ethylbenzene	ND	U	1.0	0.52	1	05/30/10	05/30/10	JWG1001943	
m,p-Xylenes	ND	U	2.0	1.1	1	05/30/10	05/30/10	JWG1001943	
o-Xylene	ND	U	1.0	0.49	1	05/30/10	05/30/10	JWG1001943	
Styrene	ND	U	1.0	0.49	1	05/30/10	05/30/10	JWG1001943	
Bromoform	ND	U	2.0	0.44	1	05/30/10	05/30/10	JWG1001943	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/30/10	05/30/10	JWG1001943	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/30/10	05/30/10	JWG1001943	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/30/10	05/30/10	JWG1001943	
trans-1,4-Dichloro-2-butene	ND	U	20	4.3	1	05/30/10	05/30/10	JWG1001943	
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/30/10	05/30/10	JWG1001943	
1,2-Dibromo-3-chloropropane (DI	ND	U	5.0	2.3	1	05/30/10	05/30/10	JWG1001943	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	101	71-122	05/30/10	Acceptable
4-Bromofluorobenzene	106	75-120	05/30/10	Acceptable
Dibromofluoromethane	99	82-116	05/30/10	Acceptable
Toluene-d8	100	88-117	05/30/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	05/18/2010
Sample Matrix:	Water	**Date Received:**	05/19/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-3A	**Units:**	ug/L
Lab Code:	J1002335-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0071	1	05/20/10	05/22/10	JWG1001767	
1,2-Dibromo-3-chloropropane (DE	ND	U	0.021	0.0058	1	05/20/10	05/22/10	JWG1001767	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	121	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	05/18/2010
Sample Matrix:	Water	**Date Received:**	05/19/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-3B	**Units:**	ug/L
Lab Code:	J1002335-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	05/20/10	05/22/10	JWG1001767	
1,2-Dibromo-3-chloropropane (DE	ND	U	0.020	0.0057	1	05/20/10	05/22/10	JWG1001767	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	121	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	05/18/2010
Sample Matrix:	Water	**Date Received:**	05/19/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-2A	**Units:**	ug/L
Lab Code:	J1002335-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	05/20/10	05/22/10	JWG1001767	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.020	0.0057	1	05/20/10	05/22/10	JWG1001767	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	119	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	05/18/2010
Sample Matrix:	Water	**Date Received:**	05/19/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-2B	**Units:**	ug/L
Lab Code:	J1002335-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0071	1	05/20/10	05/22/10	JWG1001767	
1,2-Dibromo-3-chloropropane (DE	ND	U	0.021	0.0058	1	05/20/10	05/22/10	JWG1001767	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	119	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	05/18/2010
Sample Matrix:	Water	**Date Received:**	05/19/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-23A	**Units:**	ug/L
Lab Code:	J1002335-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	05/20/10	05/22/10	JWG1001767	
1,2-Dibromo-3-chloropropane (DE	ND	U	0.020	0.0057	1	05/20/10	05/22/10	JWG1001767	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	48	77-150	05/22/10	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	05/18/2010
Sample Matrix:	Water	**Date Received:**	05/19/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-23B	**Units:**	ug/L
Lab Code:	J1002335-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0071	1	05/20/10	05/22/10	JWG1001767	
1,2-Dibromo-3-chloropropane (DE	ND	U	0.021	0.0058	1	05/20/10	05/22/10	JWG1001767	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	120	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	05/18/2010
Sample Matrix:	Water	**Date Received:**	05/19/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-16A	**Units:**	ug/L
Lab Code:	J1002335-007	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0071	1	05/20/10	05/22/10	JWG1001767	
1,2-Dibromo-3-chloropropane (DE	ND	U	0.021	0.0058	1	05/20/10	05/22/10	JWG1001767	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	121	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	05/18/2010
Sample Matrix:	Water	**Date Received:**	05/19/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-16B	**Units:**	ug/L
Lab Code:	J1002335-008	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0071	1	05/20/10	05/22/10	JWG1001767	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.0058	1	05/20/10	05/22/10	JWG1001767	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	118	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	05/18/2010
Sample Matrix:	Water	**Date Received:**	05/19/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-16C	**Units:**	ug/L
Lab Code:	J1002335-009	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0071	1	05/20/10	05/22/10	JWG1001767	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.0058	1	05/20/10	05/22/10	JWG1001767	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	144	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	05/18/2010
Sample Matrix:	Water	**Date Received:**	05/19/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	EB	**Units:**	ug/L
Lab Code:	J1002335-010	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	05/20/10	05/22/10	JWG1001767	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.020	0.0057	1	05/20/10	05/22/10	JWG1001767	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	117	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: NA
Date Received: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: Method Blank
Lab Code: JWG1001767-4

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	05/20/10	05/22/10	JWG1001767	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.020	0.0057	1	05/20/10	05/22/10	JWG1001767	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	117	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 5/18/10 1315
Date Received: 5/19/10

Sample Name: MW-3A
Lab Code: J1002335-001

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	6/1/10 15:53
Arsenic, Total	6020	**1.58**		µg/L	0.50	0.14	1	5/25/10	6/1/10 15:53
Barium, Total	6020	**42.9**		µg/L	2.0	0.5	1	5/25/10	6/1/10 15:53
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	6/1/10 15:53
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	6/1/10 15:53
Chromium, Total	6020	**1.3**	I	µg/L	2.0	0.6	1	5/25/10	6/1/10 15:53
Cobalt, Total	6020	**0.9**	I	µg/L	1.0	0.2	1	5/25/10	6/1/10 15:53
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	6/1/10 15:53
Iron, Total	6010B	**2450**		µg/L	100	10	1	5/26/10	5/28/10 03:47
Lead, Total	6020	**1.3**		µg/L	1.0	0.3	1	5/25/10	6/1/10 15:53
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 17:43
Nickel, Total	6020	**1.0**	I	µg/L	2.0	0.3	1	5/25/10	6/1/10 15:53
Selenium, Total	6020	**1.4**	I	µg/L	5.0	0.9	1	5/25/10	6/1/10 15:53
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	6/1/10 15:53
Sodium, Total	6010B	**28.6**		mg/L	0.50	0.02	1	5/26/10	5/28/10 03:45
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	6/1/10 15:53
Vanadium, Total	6020	**1.5**	I	µg/L	5.0	1.2	1	5/25/10	6/1/10 15:53
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	6/1/10 15:53

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 5/18/10 1340
Date Received: 5/19/10

Sample Name: MW-3B
Lab Code: J1002335-002

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	6/1/10 15:58
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	5/25/10	6/1/10 15:58
Barium, Total	6020	**15.1**		µg/L	2.0	0.5	1	5/25/10	6/1/10 15:58
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	6/1/10 15:58
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	6/1/10 15:58
Chromium, Total	6020	**0.6**	I	µg/L	2.0	0.6	1	5/25/10	6/1/10 15:58
Cobalt, Total	6020	**0.2**	I	µg/L	1.0	0.2	1	5/25/10	6/1/10 15:58
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	6/1/10 15:58
Iron, Total	6010B	**910**		µg/L	100	10	1	5/26/10	5/28/10 03:51
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	6/1/10 15:58
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 17:44
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	6/1/10 15:58
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/25/10	6/1/10 15:58
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	6/1/10 15:58
Sodium, Total	6010B	**7.57**		mg/L	0.50	0.02	1	5/26/10	5/28/10 03:50
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	6/1/10 15:58
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	5/25/10	6/1/10 15:58
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	6/1/10 15:58

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 5/18/10 1500
Date Received: 5/19/10

Sample Name: MW-2A
Lab Code: J1002335-003

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	6/1/10 16:03
Arsenic, Total	6020	**0.87**		µg/L	0.50	0.14	1	5/25/10	6/1/10 16:03
Barium, Total	6020	**15.7**		µg/L	2.0	0.5	1	5/25/10	6/1/10 16:03
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	6/1/10 16:03
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	6/1/10 16:03
Chromium, Total	6020	**1.8**	I	µg/L	2.0	0.6	1	5/25/10	6/1/10 16:03
Cobalt, Total	6020	**2.6**		µg/L	1.0	0.2	1	5/25/10	6/1/10 16:03
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	6/1/10 16:03
Iron, Total	6010B	**9890**		µg/L	100	10	1	5/26/10	5/28/10 03:56
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	6/1/10 16:03
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 17:49
Nickel, Total	6020	**1.2**	I	µg/L	2.0	0.3	1	5/25/10	6/1/10 16:03
Selenium, Total	6020	**1**	I	µg/L	5.0	0.9	1	5/25/10	6/1/10 16:03
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	6/1/10 16:03
Sodium, Total	6010B	**13.5**		mg/L	0.50	0.02	1	5/26/10	5/28/10 03:54
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	6/1/10 16:03
Vanadium, Total	6020	**2.0**	I	µg/L	5.0	1.2	1	5/25/10	6/1/10 16:03
Zinc, Total	6020	**3**	I	µg/L	10	3	1	5/25/10	6/1/10 16:03

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 5/18/10 1525
Date Received: 5/19/10

Sample Name: MW-2B
Lab Code: J1002335-004

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	6/1/10 16:18
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	5/25/10	6/1/10 16:18
Barium, Total	6020	**11.1**		µg/L	2.0	0.5	1	5/25/10	6/1/10 16:18
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	6/1/10 16:18
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	6/1/10 16:18
Chromium, Total	6020	**0.8**	I	µg/L	2.0	0.6	1	5/25/10	6/1/10 16:18
Cobalt, Total	6020	**0.4**	I	µg/L	1.0	0.2	1	5/25/10	6/1/10 16:18
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	6/1/10 16:18
Iron, Total	6010B	**950**		µg/L	100	10	1	5/26/10	5/28/10 04:00
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	6/1/10 16:18
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 17:50
Nickel, Total	6020	**0.5**	I	µg/L	2.0	0.3	1	5/25/10	6/1/10 16:18
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/25/10	6/1/10 16:18
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	6/1/10 16:18
Sodium, Total	6010B	**6.17**		mg/L	0.50	0.02	1	5/26/10	5/28/10 03:59
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	6/1/10 16:18
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	5/25/10	6/1/10 16:18
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	6/1/10 16:18

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	5/18/10 0752
Sample Matrix:	Water	**Date Received:**	5/19/10
Sample Name:	MW-23A		
Lab Code:	J1002335-005	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	6/1/10 16:42
Arsenic, Total	6020	**0.65**		µg/L	0.50	0.14	1	5/25/10	6/1/10 16:42
Barium, Total	6020	**16.4**		µg/L	2.0	0.5	1	5/25/10	6/1/10 16:42
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	6/1/10 16:42
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	6/1/10 16:42
Chromium, Total	6020	**3.3**		µg/L	2.0	0.6	1	5/25/10	6/1/10 16:42
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	5/25/10	6/1/10 16:42
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	6/1/10 16:42
Iron, Total	6010B	**2370**		µg/L	100	10	1	5/26/10	5/28/10 04:05
Lead, Total	6020	**1.2**		µg/L	1.0	0.3	1	5/25/10	6/1/10 16:42
Mercury, Total	7470A	**0.11**	I	µg/L	0.50	0.08	1	5/24/10	5/24/10 17:52
Nickel, Total	6020	**0.7**	I	µg/L	2.0	0.3	1	5/25/10	6/1/10 16:42
Selenium, Total	6020	**1.3**	I	µg/L	5.0	0.9	1	5/25/10	6/1/10 16:42
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	6/1/10 16:42
Sodium, Total	6010B	**12.7**		mg/L	0.50	0.02	1	5/26/10	5/28/10 04:03
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	6/1/10 16:42
Vanadium, Total	6020	**4.7**	I	µg/L	5.0	1.2	1	5/25/10	6/1/10 16:42
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	6/1/10 16:42

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 5/18/10 0720
Date Received: 5/19/10

Sample Name: MW-23B
Lab Code: J1002335-006

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	6/1/10 16:47
Arsenic, Total	6020	**0.22**	I	µg/L	0.50	0.14	1	5/25/10	6/1/10 16:47
Barium, Total	6020	**9.4**		µg/L	2.0	0.5	1	5/25/10	6/1/10 16:47
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	6/1/10 16:47
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	6/1/10 16:47
Chromium, Total	6020	**4.8**		µg/L	2.0	0.6	1	5/25/10	6/1/10 16:47
Cobalt, Total	6020	**0.3**	I	µg/L	1.0	0.2	1	5/25/10	6/1/10 16:47
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	6/1/10 16:47
Iron, Total	6010B	**490**		µg/L	100	10	1	5/26/10	5/28/10 04:09
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	6/1/10 16:47
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 17:53
Nickel, Total	6020	**2.1**		µg/L	2.0	0.3	1	5/25/10	6/1/10 16:47
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/25/10	6/1/10 16:47
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	6/1/10 16:47
Sodium, Total	6010B	**10.3**		mg/L	0.50	0.02	1	5/26/10	5/28/10 04:08
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	6/1/10 16:47
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	5/25/10	6/1/10 16:47
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	6/1/10 16:47

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	5/18/10 0955
Sample Matrix:	Water	**Date Received:**	5/19/10
Sample Name:	MW-16A		
Lab Code:	J1002335-007	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	**0.3**	I	µg/L	2.0	0.3	1	5/25/10	6/1/10 16:52
Arsenic, Total	6020	**0.15**	I	µg/L	0.50	0.14	1	5/25/10	6/1/10 16:52
Barium, Total	6020	**12.6**		µg/L	2.0	0.5	1	5/25/10	6/1/10 16:52
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	6/1/10 16:52
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	6/1/10 16:52
Chromium, Total	6020	**1.5**	I	µg/L	2.0	0.6	1	5/25/10	6/1/10 16:52
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	5/25/10	6/1/10 16:52
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	6/1/10 16:52
Iron, Total	6010B	**180**		µg/L	100	10	1	5/26/10	5/28/10 04:41
Lead, Total	6020	**0.6**	I	µg/L	1.0	0.3	1	5/25/10	6/1/10 16:52
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 17:55
Nickel, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	5/25/10	6/1/10 16:52
Selenium, Total	6020	**2.7**	I	µg/L	5.0	0.9	1	5/25/10	6/1/10 16:52
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	6/1/10 16:52
Sodium, Total	6010B	**1.57**		mg/L	0.50	0.02	1	5/26/10	5/28/10 04:39
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	6/1/10 16:52
Vanadium, Total	6020	**10.0**		µg/L	5.0	1.2	1	5/25/10	6/1/10 16:52
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	6/1/10 16:52

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 5/18/10 1045
Date Received: 5/19/10

Sample Name: MW-16B
Lab Code: J1002335-008

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	6/1/10 16:57
Arsenic, Total	6020	**0.34**	I	µg/L	0.50	0.14	1	5/25/10	6/1/10 16:57
Barium, Total	6020	**23.0**		µg/L	2.0	0.5	1	5/25/10	6/1/10 16:57
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	6/1/10 16:57
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	6/1/10 16:57
Chromium, Total	6020	**1.6**	I	µg/L	2.0	0.6	1	5/25/10	6/1/10 16:57
Cobalt, Total	6020	**0.4**	I	µg/L	1.0	0.2	1	5/25/10	6/1/10 16:57
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	6/1/10 16:57
Iron, Total	6010B	**1300**		µg/L	100	10	1	5/26/10	5/28/10 04:45
Lead, Total	6020	**0.9**	I	µg/L	1.0	0.3	1	5/25/10	6/1/10 16:57
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 17:56
Nickel, Total	6020	**0.5**	I	µg/L	2.0	0.3	1	5/25/10	6/1/10 16:57
Selenium, Total	6020	**1.0**	I	µg/L	5.0	0.9	1	5/25/10	6/1/10 16:57
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	6/1/10 16:57
Sodium, Total	6010B	**7.95**		mg/L	0.50	0.02	1	5/26/10	5/28/10 04:44
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	6/1/10 16:57
Vanadium, Total	6020	**1.8**	I	µg/L	5.0	1.2	1	5/25/10	6/1/10 16:57
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	6/1/10 16:57

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 5/18/10 1020
Date Received: 5/19/10

Sample Name: MW-16C
Lab Code: J1002335-009

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	6/1/10 17:12
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	5/25/10	6/1/10 17:12
Barium, Total	6020	**17.9**		µg/L	2.0	0.5	1	5/25/10	6/1/10 17:12
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	6/1/10 17:12
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	6/1/10 17:12
Chromium, Total	6020	**1.3**	I	µg/L	2.0	0.6	1	5/25/10	6/1/10 17:12
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	5/25/10	6/1/10 17:12
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	6/1/10 17:12
Iron, Total	6010B	**930**		µg/L	100	10	1	5/26/10	5/28/10 04:50
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	6/1/10 17:12
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 17:57
Nickel, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	5/25/10	6/1/10 17:12
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/25/10	6/1/10 17:12
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	6/1/10 17:12
Sodium, Total	6010B	**11.8**		mg/L	0.50	0.02	1	5/26/10	5/28/10 04:48
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	6/1/10 17:12
Vanadium, Total	6020	**1.7**	I	µg/L	5.0	1.2	1	5/25/10	6/1/10 17:12
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	6/1/10 17:12

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	5/18/10 1120
Sample Matrix:	Water	**Date Received:**	5/19/10
Sample Name:	EB		
Lab Code:	J1002335-010	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	6/1/10 17:17
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	5/25/10	6/1/10 17:17
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	6/1/10 17:17
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	6/1/10 17:17
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	6/1/10 17:17
Chromium, Total	6020	ND	U	µg/L	2.0	0.6	1	5/25/10	6/1/10 17:17
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	5/25/10	6/1/10 17:17
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	6/1/10 17:17
Iron, Total	6010B	ND	U	µg/L	100	10	1	5/26/10	5/28/10 04:54
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	6/1/10 17:17
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 17:59
Nickel, Total	6020	**0.3**	I	µg/L	2.0	0.3	1	5/25/10	6/1/10 17:17
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/25/10	6/1/10 17:17
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	6/1/10 17:17
Sodium, Total	6010B	**0.07**	I	mg/L	0.50	0.02	1	5/26/10	5/28/10 04:53
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	6/1/10 17:17
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	5/25/10	6/1/10 17:17
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	6/1/10 17:17

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	J1002335-MB	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	6/1/10 15:43
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	5/25/10	6/1/10 15:43
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	6/1/10 15:43
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	6/1/10 15:43
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	6/1/10 15:43
Chromium, Total	6020	ND	U	µg/L	2.0	0.6	1	5/25/10	6/1/10 15:43
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	5/25/10	6/1/10 15:43
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	6/1/10 15:43
Iron, Total	6010B	ND	U	µg/L	100	10	1	5/26/10	5/28/10 03:29
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	6/1/10 15:43
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/24/10	5/24/10 17:18
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	6/1/10 15:43
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/25/10	6/1/10 15:43
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	6/1/10 15:43
Sodium, Total	6010B	**0.05**	I	mg/L	0.50	0.02	1	5/26/10	5/28/10 03:27
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	6/1/10 15:43
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	5/25/10	6/1/10 15:43
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	6/1/10 15:43

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	5/18/10
Sample Matrix:	Water	**Date Received:**	5/19/10
		Units:	mg/L
Analysis Method:	350.1	**Basis:**	NA

Ammonia as Nitrogen

Sample Name	Lab Code	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
MW-3A	J1002335-001	**6.82**		0.010	0.005	1	NA	5/25/10 12:22
MW-3B	J1002335-002	**0.086**		0.010	0.005	1	NA	5/25/10 12:22
MW-2A	J1002335-003	**0.673**		0.010	0.005	1	NA	5/25/10 12:23
MW-2B	J1002335-004	**0.069**		0.010	0.005	1	NA	5/25/10 12:24
MW-23A	J1002335-005	**2.17**		0.010	0.005	1	NA	5/25/10 12:25
MW-23B	J1002335-006	**0.025**		0.010	0.005	1	NA	5/25/10 12:29
MW-16A	J1002335-007	0.005	U	0.010	0.005	1	NA	5/25/10 12:30
MW-16B	J1002335-008	**0.119**		0.010	0.005	1	NA	5/25/10 12:31
MW-16C	J1002335-009	**0.088**		0.010	0.005	1	NA	5/25/10 12:32
EB	J1002335-010	0.005	U	0.010	0.005	1	NA	5/25/10 12:33
Method Blank	J1002335-MB	0.005	U	0.010	0.005	1	NA	5/25/10 12:05

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 5/18/10
Date Received: 5/19/10

Analysis Method: 300.0

Units: mg/L
Basis: NA

Chloride

Sample Name	Lab Code	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
MW-3A	J1002335-001	**54.4**		0.50	0.09	1	NA	5/19/10 13:30
MW-3B	J1002335-002	**18.3**		0.50	0.09	1	NA	5/19/10 15:00
MW-2A	J1002335-003	**31.6**		0.50	0.09	1	NA	5/19/10 15:14
MW-2B	J1002335-004	**12.4**		0.50	0.09	1	NA	5/19/10 15:59
MW-23A	J1002335-005	**23.3**		0.50	0.09	1	NA	5/19/10 16:14
MW-23B	J1002335-006	**16.6**		0.50	0.09	1	NA	5/19/10 16:29
MW-16A	J1002335-007	**1.87**		0.50	0.09	1	NA	5/19/10 16:44
MW-16B	J1002335-008	**13.0**		0.50	0.09	1	NA	5/19/10 16:59
MW-16C	J1002335-009	**20.6**		0.50	0.09	1	NA	5/19/10 17:44
EB	J1002335-010	0.09	U	0.50	0.09	1	NA	5/19/10 17:59
Method Blank	J1002335-MB	0.09	U	0.50	0.09	1	NA	5/19/10 13:00

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 5/18/10
Date Received: 5/19/10

Units: mg/L
Analysis Method: 300.0
Basis: NA

Nitrate as Nitrogen

Sample Name	Lab Code	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
MW-3A	J1002335-001	0.07	U	0.20	0.07	1	NA	5/19/10 13:30
MW-3B	J1002335-002	0.07	U	0.20	0.07	1	NA	5/19/10 15:00
MW-2A	J1002335-003	0.07	U	0.20	0.07	1	NA	5/19/10 15:14
MW-2B	J1002335-004	0.07	U	0.20	0.07	1	NA	5/19/10 15:59
MW-23A	J1002335-005	0.07	U	0.20	0.07	1	NA	5/19/10 16:14
MW-23B	J1002335-006	0.07	U	0.20	0.07	1	NA	5/19/10 16:29
MW-16A	J1002335-007	**0.19**	I	0.20	0.07	1	NA	5/19/10 16:44
MW-16B	J1002335-008	0.07	U	0.20	0.07	1	NA	5/19/10 16:59
MW-16C	J1002335-009	0.07	U	0.20	0.07	1	NA	5/19/10 17:44
EB	J1002335-010	**0.19**	I	0.20	0.07	1	NA	5/19/10 17:59
Method Blank	J1002335-MB	0.07	U	0.20	0.07	1	NA	5/19/10 13:00

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	5/18/10
Sample Matrix:	Water	**Date Received:**	5/19/10
		Units:	mg/L
Analysis Method:	SM 2540 C	**Basis:**	NA

Solids, Total Dissolved

Sample Name	Lab Code	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
MW-3A	J1002335-001	**280**		10	10	1	NA	5/25/10 16:00
MW-3B	J1002335-002	**57**		10	10	1	NA	5/25/10 16:00
MW-2A	J1002335-003	**85**		10	10	1	NA	5/25/10 16:00
MW-2B	J1002335-004	**27**		10	10	1	NA	5/25/10 16:00
MW-23A	J1002335-005	**117**		10	10	1	NA	5/25/10 16:00
MW-23B	J1002335-006	**45**		10	10	1	NA	5/25/10 16:00
MW-16A	J1002335-007	**16**		10	10	1	NA	5/25/10 16:00
MW-16B	J1002335-008	**44**		10	10	1	NA	5/25/10 16:00
MW-16C	J1002335-009	**69**		10	10	1	NA	5/25/10 16:00
EB	J1002335-010	10	U	10	10	1	NA	5/25/10 16:00
Method Blank	J1002335-MB	10	U	10	10	1	NA	5/25/10 16:00

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335

Surrogate Recovery Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
MW-3A	J1002335-001	106	110	103	99
MW-3B	J1002335-002	106	109	103	106
MW-2A	J1002335-003	108	108	107	101
MW-2B	J1002335-004	111	110	109	105
MW-23A	J1002335-005	112	111	105	100
MW-23B	J1002335-006	105	108	104	103
MW-16A	J1002335-007	84	104	95	99
MW-16B	J1002335-008	104	107	103	98
MW-16C	J1002335-009	106	105	100	98
EB	J1002335-010	102	104	100	100
Trip Blank	J1002335-011	103	105	102	98
Method Blank	JWG1001918-2	102	107	101	101
Method Blank	JWG1001943-4	101	106	99	100
Lab Control Sample	JWG1001918-1	103	103	103	103
Lab Control Sample	JWG1001943-3	95	99	97	99

Surrogate Recovery Control Limits (%)

Sur1 =	1,2-Dichloroethane-d4	71-122
Sur2 =	4-Bromofluorobenzene	75-120
Sur3 =	Dibromofluoromethane	82-116
Sur4 =	Toluene-d8	88-117

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Extracted: 05/26/2010
Date Analyzed: 05/26/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1001918

	Lab Control Sample JWG1001918-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Chloromethane	22.8	20.0	114	67-135
Vinyl Chloride	22.2	20.0	111	78-132
Bromomethane	21.4	20.0	107	79-130
Chloroethane	20.6	20.0	103	74-126
Trichlorofluoromethane	22.7	20.0	113	74-134
1,1-Dichloroethene	22.0	20.0	110	78-130
Acetone	98.7	100	99	67-133
Iodomethane (Methyl Iodide)	106	100	106	68-134
Carbon Disulfide	108	100	108	76-138
Methylene Chloride	20.5	20.0	102	72-124
trans-1,2-Dichloroethene	21.5	20.0	107	77-124
Acrylonitrile	106	100	106	77-127
1,1-Dichloroethane	21.1	20.0	106	80-128
Vinyl Acetate	102	100	102	61-148
cis-1,2-Dichloroethene	21.2	20.0	106	80-126
2-Butanone (MEK)	99.2	100	99	73-127
Bromochloromethane	19.7	20.0	99	79-129
Chloroform	20.7	20.0	103	83-124
1,1,1-Trichloroethane (TCA)	21.6	20.0	108	79-124
Carbon Tetrachloride	21.9	20.0	110	81-125
Benzene	21.1	20.0	106	79-119
1,2-Dichloroethane (EDC)	20.3	20.0	101	80-124
Trichloroethene (TCE)	20.1	20.0	100	76-124
1,2-Dichloropropane	20.5	20.0	103	79-123
Dibromomethane	20.4	20.0	102	83-123
Bromodichloromethane	20.2	20.0	101	81-123
cis-1,3-Dichloropropene	21.2	20.0	106	86-123
4-Methyl-2-pentanone (MIBK)	104	100	104	72-136
Toluene	20.8	20.0	104	86-117
trans-1,3-Dichloropropene	20.9	20.0	105	83-124
1,1,2-Trichloroethane	20.5	20.0	103	86-114
Tetrachloroethene (PCE)	21.1	20.0	105	80-121
2-Hexanone	104	100	104	71-138
Dibromochloromethane	20.3	20.0	101	82-121
1,2-Dibromoethane (EDB)	20.2	20.0	101	88-117
Chlorobenzene	20.6	20.0	103	86-113

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Extracted: 05/26/2010
Date Analyzed: 05/26/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1001918

	Lab Control Sample JWG1001918-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,1,1,2-Tetrachloroethane	21.3	20.0	106	85-117
Ethylbenzene	20.5	20.0	103	90-118
m,p-Xylenes	41.9	40.0	105	86-121
o-Xylene	20.3	20.0	101	89-119
Styrene	19.7	20.0	99	89-122
Bromoform	19.1	20.0	96	68-129
1,1,2,2-Tetrachloroethane	20.7	20.0	103	83-120
1,2,3-Trichloropropane	20.2	20.0	101	83-123
1,4-Dichlorobenzene	20.3	20.0	101	83-113
trans-1,4-Dichloro-2-butene	14.1	20.0	70	53-143
1,2-Dichlorobenzene	20.1	20.0	100	84-115
1,2-Dibromo-3-chloropropane (DBCP	18.0	20.0	90	62-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Extracted:**	05/30/2010
Sample Matrix:	Water	**Date Analyzed:**	05/30/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	8260B	**Basis:**	NA
		Level:	Low
		Extraction Lot:	JWG1001943

	Lab Control Sample JWG1001943-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Chloromethane	20.1	20.0	100	67-135
Vinyl Chloride	18.9	20.0	95	78-132
Bromomethane	18.9	20.0	95	79-130
Chloroethane	19.3	20.0	97	74-126
Trichlorofluoromethane	19.6	20.0	98	74-134
1,1-Dichloroethene	19.5	20.0	97	78-130
Acetone	106	100	106	67-133
Iodomethane (Methyl Iodide)	95.4	100	95	68-134
Carbon Disulfide	96.4	100	96	76-138
Methylene Chloride	19.3	20.0	96	72-124
trans-1,2-Dichloroethene	18.9	20.0	94	77-124
Acrylonitrile	107	100	107	77-127
1,1-Dichloroethane	18.8	20.0	94	80-128
Vinyl Acetate	95.5	100	96	61-148
cis-1,2-Dichloroethene	19.4	20.0	97	80-126
2-Butanone (MEK)	105	100	105	73-127
Bromochloromethane	19.7	20.0	98	79-129
Chloroform	19.2	20.0	96	83-124
1,1,1-Trichloroethane (TCA)	20.1	20.0	101	79-124
Carbon Tetrachloride	19.5	20.0	97	81-125
Benzene	19.0	20.0	95	79-119
1,2-Dichloroethane (EDC)	19.9	20.0	100	80-124
Trichloroethene (TCE)	19.8	20.0	99	76-124
1,2-Dichloropropane	19.2	20.0	96	79-123
Dibromomethane	19.9	20.0	99	83-123
Bromodichloromethane	19.4	20.0	97	81-123
cis-1,3-Dichloropropene	19.1	20.0	95	86-123
4-Methyl-2-pentanone (MIBK)	100	100	100	72-136
Toluene	19.3	20.0	97	86-117
trans-1,3-Dichloropropene	19.4	20.0	97	83-124
1,1,2-Trichloroethane	19.3	20.0	97	86-114
Tetrachloroethene (PCE)	19.7	20.0	98	80-121
2-Hexanone	102	100	102	71-138
Dibromochloromethane	20.4	20.0	102	82-121
1,2-Dibromoethane (EDB)	19.8	20.0	99	88-117
Chlorobenzene	19.6	20.0	98	86-113

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Extracted: 05/30/2010
Date Analyzed: 05/30/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1001943

Analyte Name	Lab Control Sample JWG1001943-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	18.8	20.0	94	85-117
Ethylbenzene	19.5	20.0	98	90-118
m,p-Xylenes	39.9	40.0	100	86-121
o-Xylene	19.4	20.0	97	89-119
Styrene	19.6	20.0	98	89-122
Bromoform	19.2	20.0	96	68-129
1,1,2,2-Tetrachloroethane	19.6	20.0	98	83-120
1,2,3-Trichloropropane	20.8	20.0	104	83-123
1,4-Dichlorobenzene	19.0	20.0	95	83-113
trans-1,4-Dichloro-2-butene	13.9	20.0	70	53-143
1,2-Dichlorobenzene	19.2	20.0	96	84-115
1,2-Dibromo-3-chloropropane (DBCP	20.4	20.0	102	62-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335

Surrogate Recovery Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	
MW-3A	J1002335-001	121	
MW-3B	J1002335-002	121	
MW-2A	J1002335-003	119	
MW-2B	J1002335-004	119	
MW-23A	J1002335-005	48	#
MW-23B	J1002335-006	120	
MW-16A	J1002335-007	121	
MW-16B	J1002335-008	118	
MW-16C	J1002335-009	144	
EB	J1002335-010	117	
Method Blank	JWG1001767-4	117	
Lab Control Sample	JWG1001767-3	114	

Surrogate Recovery Control Limits (%)

Sur1 = 1,1,1,2-Tetrachloroethane 77-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Extracted:**	05/20/2010
Sample Matrix:	Water	**Date Analyzed:**	05/22/2010

Lab Control Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	8011	**Basis:**	NA
		Level:	Low
		Extraction Lot:	JWG1001767

	Lab Control Sample JWG1001767-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,2-Dibromoethane (EDB)	0.0149	0.0143	104	70-130
1,2-Dibromo-3-chloropropane (DBCP	0.0149	0.0143	104	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 5/18/10
Date Received: 5/19/10
Date Analyzed: 6/ 1/10

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-2B
Lab Code: J1002335-004

Units: µg/L
Basis: NA

Analytical Method: 6020
Prep Method: EPA 3020A

		Matrix Spike J1002335-MS1				Duplicate Matrix Spike J1002335-DMS1					
Analyte Name	**Sample Result**	**Result**	**Amount**	**% Rec**		**Result**	**Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Antimony, Total	ND	52.4	50.0	105		52.9	50.0	106	75 - 125	1	20
Arsenic, Total	ND	48.9	50.0	98		49.3	50.0	99	75 - 125	1	20
Barium, Total	11.1	76.3	50.0	130	*	62.7	50.0	103	75 - 125	20	20
Beryllium, Total	ND	47.7	50.0	95		48.8	50.0	98	75 - 125	2	20
Cadmium, Total	ND	48.6	50.0	97		48.2	50.0	96	75 - 125	1	20
Chromium, Total	0.8	52.8	50.0	104		52.8	50.0	104	75 - 125	0	20
Cobalt, Total	0.4	52.1	50.0	104		52.9	50.0	105	75 - 125	2	20
Copper, Total	ND	50.2	50.0	100		50.9	50.0	102	75 - 125	1	20
Lead, Total	ND	54.9	50.0	110		53.8	50.0	108	75 - 125	2	20
Nickel, Total	0.5	50.5	50.0	100		51.0	50.0	101	75 - 125	1	20
Selenium, Total	ND	45.0	50.0	90		45.0	50.0	90	75 - 125	0	20
Silver, Total	ND	51.9	50.0	104		51.6	50.0	103	75 - 125	1	20
Thallium, Total	ND	54.2	50.0	108		53.2	50.0	106	75 - 125	2	20
Vanadium, Total	ND	53.5	50.0	107		53.7	50.0	107	75 - 125	0	20
Zinc, Total	ND	94.2	100	94		94.4	100	94	75 - 125	0	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 5/18/10
Date Received: 5/19/10
Date Analyzed: 5/28/10

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-23B
Lab Code: J1002335-006

Units: µg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3010A

		Matrix Spike J1002335-MS2			Duplicate Matrix Spike J1002335-DMS2					
Analyte Name	**Sample Result**	**Result**	**Amount**	**% Rec**	**Result**	**Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Iron, Total	490	2420	2000	97	2430	2000	97	75 - 125	1	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 5/18/10
Date Received: 5/19/10
Date Analyzed: 5/28/10

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-23B
Lab Code: J1002335-006

Units: mg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3010A

		Matrix Spike J1002335-MS2			Duplicate Matrix Spike J1002335-DMS2					
Analyte Name	**Sample Result**	**Result**	**Amount**	**% Rec**	**Result**	**Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Sodium, Total	10.3	20.0	10.0	98	20.0	10.0	97	75 - 125	0	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Analyzed: 5/24/10 - 6/ 1/10

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1002335-LCS Result	Expected	% Rec	% Rec Limits
Antimony, Total	6020	**52.1**	50.0	104	80 - 120
Arsenic, Total	6020	**48.7**	50.0	97	80 - 120
Barium, Total	6020	**51.1**	50.0	102	80 - 120
Beryllium, Total	6020	**48.4**	50.0	97	80 - 120
Cadmium, Total	6020	**46.9**	50.0	94	80 - 120
Chromium, Total	6020	**50.5**	50.0	101	80 - 120
Cobalt, Total	6020	**51.3**	50.0	103	80 - 120
Copper, Total	6020	**50.8**	50.0	102	80 - 120
Iron, Total	6010B	**1940**	2000	97	80 - 120
Lead, Total	6020	**52.4**	50.0	105	80 - 120
Mercury, Total	7470A	**4.83**	5.00	97	80 - 120
Nickel, Total	6020	**49.6**	50.0	99	80 - 120
Selenium, Total	6020	**44.3**	50.0	89	80 - 120
Silver, Total	6020	**50.5**	50.0	101	80 - 120
Thallium, Total	6020	**51.8**	50.0	104	80 - 120
Vanadium, Total	6020	**51.1**	50.0	102	80 - 120
Zinc, Total	6020	**93.7**	100	94	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Analyzed: 5/28/10

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1002335-LCS Result	Expected	% Rec	% Rec Limits
Sodium, Total	6010B	**10.1**	10.0	101	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002335
Project:	JED SWDF/Task 02	**Date Collected:**	5/18/10
Sample Matrix:	Water	**Date Received:**	5/19/10
		Date Analyzed:	5/19/10

Duplicate Sample Summary
General Chemistry Parameters

Sample Name:	MW-3A	**Units:**	mg/L
Lab Code:	J1002335-001	**Basis:**	NA

Analyte Name	Method	MRL	MDL	Sample Result	Duplicate Sample J1002335-DUP1 Result	Average	RPD	RPD Limit
Chloride	300.0	0.50	0.09	54.4	54.4	54.4	<1	20
Nitrate as Nitrogen	300.0	0.20	0.07	0.07 U	0.07 U	NC	NC	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Collected: 5/18/10
Date Received: 5/19/10
Date Analyzed: 5/19/10

Duplicate Sample Summary
General Chemistry Parameters

Sample Name: MW-16B
Lab Code: J1002335-008

Units: mg/L
Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	Duplicate Sample J1002335-DUP2 Result	Average	RPD	RPD Limit
Chloride	300.0	0.50	0.09	13.0	13.1	13.1	<1	20
Nitrate as Nitrogen	300.0	0.20	0.07	0.07 U	0.07 U	NC	NC	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Analyzed: 5/25/10

Lab Control Sample Summary
Total Dissolved Solids Dried at 180 Deg C (TDS) 20th Ed.

Units: mg/L
Basis: NA

		Lab Control Sample J1002335-LCS1			Duplicate Lab Control Sample J1002335-DLCS1					
Analyte Name	**Method**	**Result**	**Expected**	**% Rec**	**Result**	**Expected**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Solids, Total Dissolved	SM 2540 C	**295**	300	98	**297**	300	99	85 - 115	1	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002335
Date Analyzed: 5/25/10

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1002335-LCS2 Result	Expected	% Rec	% Rec Limits
Ammonia as Nitrogen	350.1	**0.961**	1.00	96	90 - 110
Solids, Total Dissolved	SM 2540 C	**295**	300	98	85 - 115

Comments:

Columbia Analytical Services, Inc.
Cooler Receipt Form

Client: EPS Service Request #: J1002335

Project: JED SWDF

Cooler received on 5/19/10 and opened on 5/19/10 by SC

COURIER: CAS UPS FEDEX Client Other _____ Airbill #1ZX5W0982210001455

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 4 +/- 2 degrees C)	5.9		
5	Thermometer ID	T16		
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	bubble wrap		
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 VOA vials checked for absence 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

Jacksonville Laboratory
Condition Upon Receipt - Sample pH

SR # : J 1002335 Date: 5-19-10 Initials: SL

Note that pH is check and meets the required pH criterion listed in the column heading unless otherwise noted on the cooler receipt form.

	Bottle Code																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	40mL	40mL	40mL	125mL	125mL	125mL	125mL	250mL	250mL	250mL	250mL	250mL	250mL	250mL	500mL	500mL	500mL	500mL	500mL	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	100ml	Ziplock	Misc.
Container	G	G	G	P	P	P	P	P	P	P	P	P	G	G	P	P	P	P	G	P	P	G	G	G	G	G	G	G	P	P	Misc.
Pres.		HCl	Na2S2O3		HCl	H2SO4	HNO3		H2SO4	HNO3	ZnAc2 NaOH	NaOH		HNO3		HCl	H2SO4	HNO3			HNO3		HCl	H2SO4					Sodium Thiosulfate		
Req. pH	N/A	<2	N/A	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	<2	N/A	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A		N/A
Sample #	-	-		-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-		-				-	-		-
-001	3	3				1	1	1																							-001
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96

NOTE: VOA pH checks are performed by the analytical area, not sample control

Columbia Analytical Services™

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

www.caslab.com

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PAGE 1 OF 1

SR # J1002335
CAS Contact

Project Name: JED SWDF	Project Number: Task 02
Project Manager: Kirk Wills	Email Address: kwills@enviplanning.com
Company/Address: EPS 1936 Bruce B Downs Blvd #328 Wesley Chapel, FL 33543	
Phone #: 813-388-1026	FAX#:
Sampler's Signature: Joe Terry	Sampler's Printed Name: Joe Terry

ANALYSIS REQUESTED (Include Method Number and Co[redacted]

PRESERVATIVE: 1 0 2 3 0

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

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	8260	8011	Metals	NH3 TDS, Cl, NO3			REMARKS/ ALTERNATE DESCRIPTION
MW-3A		5.18.10	1315	GW	9	3	3	1	1	1		
MW-3B			1340									
MW-2A			1500									
MW-2B			1525									
MW-23A			0752									
MW-23B			0720									
MW-16A			0955									
MW-16B			1045									
MW-16C			1020	GW								
5.18.10 JT ~~AW~~ EB			1120	DI H_2O	9	3	3	1	1	1		
Trip Blank		5.4.10	1330	DI H_2O	2	2						

SPECIAL INSTRUCTIONS/COMMENTS

Cooler ID: 10138-JED-1

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: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Joe Terry	Signature: Sharon Lightsey	Signature	Signature	Signature	Signature
Printed Name: Joe Terry	Printed Name: Sharon Lightsey	Printed Name	Printed Name	Printed Name	Printed Name
Firm: EPS	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 5-18-10/1620	Date/Time: 5/19/10 0915	Date/Time	Date/Time	Date/Time	Date/Time

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

JSCOC-06/20/08

Columbia Analytical Services™ 9143 Philips Highway, Suite 200 | Jacksonville, FL 32256 | 904-739-2277 | 904-739-2011 fax | www.caslab.com

June 04, 2010

Service Request No: J1002355

Kirk Wills
Environmental Planning Specialists
1936 Bruce B Downs Blvd
#328
Wesley Chapel, FL 33543

Laboratory Results for: JED SWDF/Task 02

Dear Kirk:

Enclosed are the results of the sample(s) submitted to our laboratory on May 20, 2010. For your reference, these analyses have been assigned our service request number **J1002355**.

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.

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

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COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Environmental Planning Specialists	**Service Request No.:**	J1002355
Project:	JED SWDF	**Date Received:**	5/20/10
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Four water samples and one trip blank were received for analysis at Columbia Analytical Services on 5/20/10. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

The samples were analyzed for Volatile Organics using EPA Method 8260. The following observations were made regarding this delivery group.

Lab Control Sample Exceptions

The spike recovery of trans-1,4-Dichloro-2-butene and 1,1,1,2-Tetrachloroethane for Laboratory Control Sample (LCS) JWG1001904-3 was outside the lower control criterion. The analytes in question were not detected in the associated field samples. Since the analytes were detected in the MRL check standard, instrument sensitivity was documented. The data quality was not significantly affected and no further corrective action was taken.

Elevated Method Reporting Limits

The reporting limits are elevated for all analytes in sample MW-19A. The sample was diluted prior to instrumental analysis due to the foaming nature of the matrix. The reporting limits are adjusted to reflect the dilution.

EDB and DBCP by GC-ECD

The samples were analyzed for EDB and DBCP using EPA Method 8011. The following observations were made regarding this delivery group.

Surrogate Exceptions

The lower control criterion was exceeded for the following surrogate in Method Blank (MB) JWG1001768-4: 1,1,1,2-Tetrachloroethane. Low recovery suggests a potential negative bias in the Method Blank. Since all field samples associated with this Method Blank have passing surrogate recoveries and have no target analyte results above the Method Reporting Limit (MRL), the affect on the data is not significant. No further corrective action was appropriate.

Approved by_____ **Date** 6/4/10

The lower control criterion was exceeded for the following surrogate in duplicate matrix spike JWG1001768-2: 1,1,1,2-Tetrachloroethane. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The parent sample had passing surrogate recovery. No corrective action was appropriate.

Matrix Spike Recovery Exceptions

The matrix spike recoveries of 1,2-Dibromoethane (EDB) and 1,2-Dibromo-3-chloropropane (DBCP) for sample MW-1A were outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. No further corrective action was appropriate.

Relative Percent Difference Exceptions

The Relative Percent Difference (RPD) for the following analytes in the replicate matrix spike analyses of sample MW-1A were outside control criteria: 1,2-Dibromoethane (EDB) and 1,2-Dibromo-3-chloropropane (DBCP). All spike recoveries in the associated Laboratory Control Sample (LCS) were within acceptance limits, indicating the analytical batch was in control. No further corrective action was appropriate.

Metals by ICP-MS/ICP-OES/CVAA

The samples were analyzed for Total Metals using EPA Methods 6020/6010B/7470A. No problems were observed.

Batch QC Notes and Discussion

Quality control samples (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

General Chemistry Parameters

The samples were analyzed for Inorganic Parameters using various EPA and Standard Methods. The following observations were made regarding this delivery group.

Matrix Spike Recovery Exceptions

The matrix spike recovery of Ammonia for sample MW-1A was outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The recovery was not significantly outside of control criteria. No further corrective action was needed.

Approved by _____ **Date** 6/4/10

Florida DEP Data Qualifiers

B Results based upon colony counts outside the acceptable range.

D Measurement was made in the field.

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 practical quantitation limit.

J Estimated value (one of the following reasons is discussed in the project case narrative).
1. The result may be inaccurate because the surrogate recovery limits have been exceeded.
2. No known quality control criteria exists for the component.
3. The reported value failed to meet the established quality control criteria for either precision or accuracy.
4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD).
5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).

K Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).

L Off scale high. The analyte is above the upper limit of the linear calibration range.

M The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.

N Presumptive evidence of the analyte. Confirmation was not performed.

Q Sample held beyond the accepted holding time.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.

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.

Y The laboratory analysis was from an improperly preserved sample.

Z Too many colonies were present (TNTC). 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: Environmental Planning Specialists
Project: JED SWDF/Task 02

Service Request: J1002355

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J1002355-001	MW-1A	5/19/10	10:50
J1002355-002	MW-1B	5/19/10	10:25
J1002355-003	MW-19A	5/19/10	08:35
J1002355-004	MW-19B	5/19/10	07:50
J1002355-005	Trip Blank	5/19/10	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002355
Date Collected: 05/19/2010
Date Received: 05/20/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-1A
Lab Code: J1002355-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/27/10	05/27/10	JWG1001904	
Vinyl Chloride	**3.7**		1.0	0.16	1	05/27/10	05/27/10	JWG1001904	
Bromomethane	ND	U	1.0	0.49	1	05/27/10	05/27/10	JWG1001904	
Chloroethane	ND	U	5.0	0.68	1	05/27/10	05/27/10	JWG1001904	
Trichlorofluoromethane	ND	U	20	0.71	1	05/27/10	05/27/10	JWG1001904	
1,1-Dichloroethene	**2.0**		1.0	0.41	1	05/27/10	05/27/10	JWG1001904	
Acetone	ND	U	50	5.6	1	05/27/10	05/27/10	JWG1001904	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/27/10	05/27/10	JWG1001904	
Carbon Disulfide	ND	U	10	3.1	1	05/27/10	05/27/10	JWG1001904	
Methylene Chloride	ND	U	5.0	0.45	1	05/27/10	05/27/10	JWG1001904	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/27/10	05/27/10	JWG1001904	
Acrylonitrile	ND	U	10	2.7	1	05/27/10	05/27/10	JWG1001904	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/27/10	05/27/10	JWG1001904	
Vinyl Acetate	ND	U	10	2.7	1	05/27/10	05/27/10	JWG1001904	
cis-1,2-Dichloroethene	**0.73**	I	1.0	0.083	1	05/27/10	05/27/10	JWG1001904	
2-Butanone (MEK)	ND	U	10	2.5	1	05/27/10	05/27/10	JWG1001904	
Bromochloromethane	ND	U	5.0	0.67	1	05/27/10	05/27/10	JWG1001904	
Chloroform	ND	U	1.0	0.35	1	05/27/10	05/27/10	JWG1001904	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/27/10	05/27/10	JWG1001904	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/27/10	05/27/10	JWG1001904	
Benzene	**5.6**		1.0	0.066	1	05/27/10	05/27/10	JWG1001904	
1,2-Dichloroethane (EDC)	**0.37**	I	1.0	0.30	1	05/27/10	05/27/10	JWG1001904	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/27/10	05/27/10	JWG1001904	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/27/10	05/27/10	JWG1001904	
Dibromomethane	ND	U	5.0	0.39	1	05/27/10	05/27/10	JWG1001904	
Bromodichloromethane	ND	U	1.0	0.19	1	05/27/10	05/27/10	JWG1001904	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/27/10	05/27/10	JWG1001904	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/27/10	05/27/10	JWG1001904	
Toluene	**1.8**		1.0	0.47	1	05/27/10	05/27/10	JWG1001904	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/27/10	05/27/10	JWG1001904	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/27/10	05/27/10	JWG1001904	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/27/10	05/27/10	JWG1001904	
2-Hexanone	ND	U	25	2.1	1	05/27/10	05/27/10	JWG1001904	
Dibromochloromethane	ND	U	1.0	0.34	1	05/27/10	05/27/10	JWG1001904	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002355
Project:	JED SWDF/Task 02	**Date Collected:**	05/19/2010
Sample Matrix:	Water	**Date Received:**	05/20/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-1A	**Units:**	ug/L
Lab Code:	J1002355-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/27/10	05/27/10	JWG1001904	
Chlorobenzene	ND	U	1.0	0.42	1	05/27/10	05/27/10	JWG1001904	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.45	1	05/27/10	05/27/10	JWG1001904	J(3)
Ethylbenzene	**5.1**		1.0	0.52	1	05/27/10	05/27/10	JWG1001904	
m,p-Xylenes	**3.5**		2.0	1.1	1	05/27/10	05/27/10	JWG1001904	
o-Xylene	**1.3**		1.0	0.49	1	05/27/10	05/27/10	JWG1001904	
Styrene	ND	U	1.0	0.49	1	05/27/10	05/27/10	JWG1001904	
Bromoform	ND	U	2.0	0.44	1	05/27/10	05/27/10	JWG1001904	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/27/10	05/27/10	JWG1001904	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/27/10	05/27/10	JWG1001904	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/27/10	05/27/10	JWG1001904	
trans-1,4-Dichloro-2-butene	ND	UJ	20	4.3	1	05/27/10	05/27/10	JWG1001904	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/27/10	05/27/10	JWG1001904	
1,2-Dibromo-3-chloropropane (DE	ND	U	5.0	2.3	1	05/27/10	05/27/10	JWG1001904	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	101	71-122	05/27/10	Acceptable
4-Bromofluorobenzene	113	75-120	05/27/10	Acceptable
Dibromofluoromethane	100	82-116	05/27/10	Acceptable
Toluene-d8	101	88-117	05/27/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002355
Date Collected: 05/19/2010
Date Received: 05/20/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-1B
Lab Code: J1002355-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/27/10	05/27/10	JWG1001904	
Vinyl Chloride	ND	U	1.0	0.16	1	05/27/10	05/27/10	JWG1001904	
Bromomethane	ND	U	1.0	0.49	1	05/27/10	05/27/10	JWG1001904	
Chloroethane	ND	U	5.0	0.68	1	05/27/10	05/27/10	JWG1001904	
Trichlorofluoromethane	ND	U	20	0.71	1	05/27/10	05/27/10	JWG1001904	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/27/10	05/27/10	JWG1001904	
Acetone	ND	U	50	5.6	1	05/27/10	05/27/10	JWG1001904	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/27/10	05/27/10	JWG1001904	
Carbon Disulfide	ND	U	10	3.1	1	05/27/10	05/27/10	JWG1001904	
Methylene Chloride	ND	U	5.0	0.45	1	05/27/10	05/27/10	JWG1001904	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/27/10	05/27/10	JWG1001904	
Acrylonitrile	ND	U	10	2.7	1	05/27/10	05/27/10	JWG1001904	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/27/10	05/27/10	JWG1001904	
Vinyl Acetate	ND	U	10	2.7	1	05/27/10	05/27/10	JWG1001904	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/27/10	05/27/10	JWG1001904	
2-Butanone (MEK)	ND	U	10	2.5	1	05/27/10	05/27/10	JWG1001904	
Bromochloromethane	ND	U	5.0	0.67	1	05/27/10	05/27/10	JWG1001904	
Chloroform	ND	U	1.0	0.35	1	05/27/10	05/27/10	JWG1001904	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/27/10	05/27/10	JWG1001904	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/27/10	05/27/10	JWG1001904	
Benzene	ND	U	1.0	0.066	1	05/27/10	05/27/10	JWG1001904	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/27/10	05/27/10	JWG1001904	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/27/10	05/27/10	JWG1001904	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/27/10	05/27/10	JWG1001904	
Dibromomethane	ND	U	5.0	0.39	1	05/27/10	05/27/10	JWG1001904	
Bromodichloromethane	ND	U	1.0	0.19	1	05/27/10	05/27/10	JWG1001904	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/27/10	05/27/10	JWG1001904	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/27/10	05/27/10	JWG1001904	
Toluene	ND	U	1.0	0.47	1	05/27/10	05/27/10	JWG1001904	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/27/10	05/27/10	JWG1001904	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/27/10	05/27/10	JWG1001904	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/27/10	05/27/10	JWG1001904	
2-Hexanone	ND	U	25	2.1	1	05/27/10	05/27/10	JWG1001904	
Dibromochloromethane	ND	U	1.0	0.34	1	05/27/10	05/27/10	JWG1001904	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002355
Project:	JED SWDF/Task 02	**Date Collected:**	05/19/2010
Sample Matrix:	Water	**Date Received:**	05/20/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-1B	**Units:**	ug/L
Lab Code:	J1002355-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/27/10	05/27/10	JWG1001904	
Chlorobenzene	ND	U	1.0	0.42	1	05/27/10	05/27/10	JWG1001904	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.45	1	05/27/10	05/27/10	JWG1001904	J(3)
Ethylbenzene	ND	U	1.0	0.52	1	05/27/10	05/27/10	JWG1001904	
m,p-Xylenes	ND	U	2.0	1.1	1	05/27/10	05/27/10	JWG1001904	
o-Xylene	ND	U	1.0	0.49	1	05/27/10	05/27/10	JWG1001904	
Styrene	ND	U	1.0	0.49	1	05/27/10	05/27/10	JWG1001904	
Bromoform	ND	U	2.0	0.44	1	05/27/10	05/27/10	JWG1001904	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/27/10	05/27/10	JWG1001904	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/27/10	05/27/10	JWG1001904	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/27/10	05/27/10	JWG1001904	
trans-1,4-Dichloro-2-butene	ND	UJ	20	4.3	1	05/27/10	05/27/10	JWG1001904	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/27/10	05/27/10	JWG1001904	
1,2-Dibromo-3-chloropropane (DI	ND	U	5.0	2.3	1	05/27/10	05/27/10	JWG1001904	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	103	71-122	05/27/10	Acceptable
4-Bromofluorobenzene	114	75-120	05/27/10	Acceptable
Dibromofluoromethane	101	82-116	05/27/10	Acceptable
Toluene-d8	104	88-117	05/27/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002355
Date Collected: 05/19/2010
Date Received: 05/20/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-19A
Lab Code: J1002355-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	5.0	0.65	5	05/27/10	05/27/10	JWG1001904	
Vinyl Chloride	ND	U	5.0	0.80	5	05/27/10	05/27/10	JWG1001904	
Bromomethane	ND	U	5.0	2.5	5	05/27/10	05/27/10	JWG1001904	
Chloroethane	ND	U	25	3.4	5	05/27/10	05/27/10	JWG1001904	
Trichlorofluoromethane	ND	U	100	3.6	5	05/27/10	05/27/10	JWG1001904	
1,1-Dichloroethene	ND	U	5.0	2.1	5	05/27/10	05/27/10	JWG1001904	
Acetone	ND	U	250	28	5	05/27/10	05/27/10	JWG1001904	
Iodomethane (Methyl Iodide)	ND	U	25	14	5	05/27/10	05/27/10	JWG1001904	
Carbon Disulfide	ND	U	50	16	5	05/27/10	05/27/10	JWG1001904	
Methylene Chloride	ND	U	25	2.3	5	05/27/10	05/27/10	JWG1001904	
trans-1,2-Dichloroethene	ND	U	5.0	2.0	5	05/27/10	05/27/10	JWG1001904	
Acrylonitrile	ND	U	50	14	5	05/27/10	05/27/10	JWG1001904	
1,1-Dichloroethane	ND	U	5.0	1.9	5	05/27/10	05/27/10	JWG1001904	
Vinyl Acetate	ND	U	50	14	5	05/27/10	05/27/10	JWG1001904	
cis-1,2-Dichloroethene	ND	U	5.0	0.42	5	05/27/10	05/27/10	JWG1001904	
2-Butanone (MEK)	ND	U	50	13	5	05/27/10	05/27/10	JWG1001904	
Bromochloromethane	ND	U	25	3.4	5	05/27/10	05/27/10	JWG1001904	
Chloroform	ND	U	5.0	1.8	5	05/27/10	05/27/10	JWG1001904	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	2.4	5	05/27/10	05/27/10	JWG1001904	
Carbon Tetrachloride	ND	U	5.0	1.7	5	05/27/10	05/27/10	JWG1001904	
Benzene	ND	U	5.0	0.33	5	05/27/10	05/27/10	JWG1001904	
1,2-Dichloroethane (EDC)	ND	U	5.0	1.5	5	05/27/10	05/27/10	JWG1001904	
Trichloroethene (TCE)	ND	U	5.0	0.60	5	05/27/10	05/27/10	JWG1001904	
1,2-Dichloropropane	ND	U	5.0	1.5	5	05/27/10	05/27/10	JWG1001904	
Dibromomethane	ND	U	25	2.0	5	05/27/10	05/27/10	JWG1001904	
Bromodichloromethane	ND	U	5.0	0.95	5	05/27/10	05/27/10	JWG1001904	
cis-1,3-Dichloropropene	ND	U	5.0	0.75	5	05/27/10	05/27/10	JWG1001904	
4-Methyl-2-pentanone (MIBK)	ND	U	130	11	5	05/27/10	05/27/10	JWG1001904	
Toluene	ND	U	5.0	2.4	5	05/27/10	05/27/10	JWG1001904	
trans-1,3-Dichloropropene	ND	U	5.0	0.80	5	05/27/10	05/27/10	JWG1001904	
1,1,2-Trichloroethane	ND	U	5.0	2.4	5	05/27/10	05/27/10	JWG1001904	
Tetrachloroethene (PCE)	ND	U	5.0	0.85	5	05/27/10	05/27/10	JWG1001904	
2-Hexanone	ND	U	130	11	5	05/27/10	05/27/10	JWG1001904	
Dibromochloromethane	ND	U	5.0	1.7	5	05/27/10	05/27/10	JWG1001904	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002355
Project:	JED SWDF/Task 02	**Date Collected:**	05/19/2010
Sample Matrix:	Water	**Date Received:**	05/20/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-19A	**Units:**	ug/L
Lab Code:	J1002355-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	5.0	2.4	5	05/27/10	05/27/10	JWG1001904	
Chlorobenzene	ND	U	5.0	2.1	5	05/27/10	05/27/10	JWG1001904	
1,1,1,2-Tetrachloroethane	ND	UJ	5.0	2.3	5	05/27/10	05/27/10	JWG1001904	J(3)
Ethylbenzene	ND	U	5.0	2.6	5	05/27/10	05/27/10	JWG1001904	
m,p-Xylenes	ND	U	10	5.2	5	05/27/10	05/27/10	JWG1001904	
o-Xylene	ND	U	5.0	2.5	5	05/27/10	05/27/10	JWG1001904	
Styrene	ND	U	5.0	2.5	5	05/27/10	05/27/10	JWG1001904	
Bromoform	ND	U	10	2.2	5	05/27/10	05/27/10	JWG1001904	
1,1,2,2-Tetrachloroethane	ND	U	5.0	0.80	5	05/27/10	05/27/10	JWG1001904	
1,2,3-Trichloropropane	ND	U	10	3.3	5	05/27/10	05/27/10	JWG1001904	
1,4-Dichlorobenzene	ND	U	5.0	2.3	5	05/27/10	05/27/10	JWG1001904	
trans-1,4-Dichloro-2-butene	ND	UJ	100	22	5	05/27/10	05/27/10	JWG1001904	J(3)
1,2-Dichlorobenzene	ND	U	5.0	2.4	5	05/27/10	05/27/10	JWG1001904	
1,2-Dibromo-3-chloropropane (DI	ND	U	25	12	5	05/27/10	05/27/10	JWG1001904	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	102	71-122	05/27/10	Acceptable
4-Bromofluorobenzene	114	75-120	05/27/10	Acceptable
Dibromofluoromethane	101	82-116	05/27/10	Acceptable
Toluene-d8	105	88-117	05/27/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002355
Date Collected: 05/19/2010
Date Received: 05/20/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-19B
Lab Code: J1002355-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/27/10	05/27/10	JWG1001904	
Vinyl Chloride	ND	U	1.0	0.16	1	05/27/10	05/27/10	JWG1001904	
Bromomethane	ND	U	1.0	0.49	1	05/27/10	05/27/10	JWG1001904	
Chloroethane	ND	U	5.0	0.68	1	05/27/10	05/27/10	JWG1001904	
Trichlorofluoromethane	ND	U	20	0.71	1	05/27/10	05/27/10	JWG1001904	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/27/10	05/27/10	JWG1001904	
Acetone	ND	U	50	5.6	1	05/27/10	05/27/10	JWG1001904	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/27/10	05/27/10	JWG1001904	
Carbon Disulfide	ND	U	10	3.1	1	05/27/10	05/27/10	JWG1001904	
Methylene Chloride	ND	U	5.0	0.45	1	05/27/10	05/27/10	JWG1001904	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/27/10	05/27/10	JWG1001904	
Acrylonitrile	ND	U	10	2.7	1	05/27/10	05/27/10	JWG1001904	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/27/10	05/27/10	JWG1001904	
Vinyl Acetate	ND	U	10	2.7	1	05/27/10	05/27/10	JWG1001904	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/27/10	05/27/10	JWG1001904	
2-Butanone (MEK)	ND	U	10	2.5	1	05/27/10	05/27/10	JWG1001904	
Bromochloromethane	ND	U	5.0	0.67	1	05/27/10	05/27/10	JWG1001904	
Chloroform	ND	U	1.0	0.35	1	05/27/10	05/27/10	JWG1001904	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/27/10	05/27/10	JWG1001904	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/27/10	05/27/10	JWG1001904	
Benzene	ND	U	1.0	0.066	1	05/27/10	05/27/10	JWG1001904	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/27/10	05/27/10	JWG1001904	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/27/10	05/27/10	JWG1001904	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/27/10	05/27/10	JWG1001904	
Dibromomethane	ND	U	5.0	0.39	1	05/27/10	05/27/10	JWG1001904	
Bromodichloromethane	ND	U	1.0	0.19	1	05/27/10	05/27/10	JWG1001904	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/27/10	05/27/10	JWG1001904	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/27/10	05/27/10	JWG1001904	
Toluene	ND	U	1.0	0.47	1	05/27/10	05/27/10	JWG1001904	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/27/10	05/27/10	JWG1001904	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/27/10	05/27/10	JWG1001904	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/27/10	05/27/10	JWG1001904	
2-Hexanone	ND	U	25	2.1	1	05/27/10	05/27/10	JWG1001904	
Dibromochloromethane	ND	U	1.0	0.34	1	05/27/10	05/27/10	JWG1001904	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002355
Project:	JED SWDF/Task 02	**Date Collected:**	05/19/2010
Sample Matrix:	Water	**Date Received:**	05/20/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-19B	**Units:**	ug/L
Lab Code:	J1002355-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/27/10	05/27/10	JWG1001904	
Chlorobenzene	ND	U	1.0	0.42	1	05/27/10	05/27/10	JWG1001904	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.45	1	05/27/10	05/27/10	JWG1001904	J(3)
Ethylbenzene	**1.3**		1.0	0.52	1	05/27/10	05/27/10	JWG1001904	
m,p-Xylenes	ND	U	2.0	1.1	1	05/27/10	05/27/10	JWG1001904	
o-Xylene	ND	U	1.0	0.49	1	05/27/10	05/27/10	JWG1001904	
Styrene	ND	U	1.0	0.49	1	05/27/10	05/27/10	JWG1001904	
Bromoform	ND	U	2.0	0.44	1	05/27/10	05/27/10	JWG1001904	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/27/10	05/27/10	JWG1001904	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/27/10	05/27/10	JWG1001904	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/27/10	05/27/10	JWG1001904	
trans-1,4-Dichloro-2-butene	ND	UJ	20	4.3	1	05/27/10	05/27/10	JWG1001904	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/27/10	05/27/10	JWG1001904	
1,2-Dibromo-3-chloropropane (DE	ND	U	5.0	2.3	1	05/27/10	05/27/10	JWG1001904	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	101	71-122	05/27/10	Acceptable
4-Bromofluorobenzene	112	75-120	05/27/10	Acceptable
Dibromofluoromethane	100	82-116	05/27/10	Acceptable
Toluene-d8	105	88-117	05/27/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002355
Date Collected: 05/19/2010
Date Received: 05/20/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1002355-005

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/27/10	05/27/10	JWG1001904	
Vinyl Chloride	ND	U	1.0	0.16	1	05/27/10	05/27/10	JWG1001904	
Bromomethane	ND	U	1.0	0.49	1	05/27/10	05/27/10	JWG1001904	
Chloroethane	ND	U	5.0	0.68	1	05/27/10	05/27/10	JWG1001904	
Trichlorofluoromethane	ND	U	20	0.71	1	05/27/10	05/27/10	JWG1001904	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/27/10	05/27/10	JWG1001904	
Acetone	ND	U	50	5.6	1	05/27/10	05/27/10	JWG1001904	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/27/10	05/27/10	JWG1001904	
Carbon Disulfide	ND	U	10	3.1	1	05/27/10	05/27/10	JWG1001904	
Methylene Chloride	ND	U	5.0	0.45	1	05/27/10	05/27/10	JWG1001904	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/27/10	05/27/10	JWG1001904	
Acrylonitrile	ND	U	10	2.7	1	05/27/10	05/27/10	JWG1001904	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/27/10	05/27/10	JWG1001904	
Vinyl Acetate	ND	U	10	2.7	1	05/27/10	05/27/10	JWG1001904	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/27/10	05/27/10	JWG1001904	
2-Butanone (MEK)	ND	U	10	2.5	1	05/27/10	05/27/10	JWG1001904	
Bromochloromethane	ND	U	5.0	0.67	1	05/27/10	05/27/10	JWG1001904	
Chloroform	ND	U	1.0	0.35	1	05/27/10	05/27/10	JWG1001904	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/27/10	05/27/10	JWG1001904	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/27/10	05/27/10	JWG1001904	
Benzene	ND	U	1.0	0.066	1	05/27/10	05/27/10	JWG1001904	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/27/10	05/27/10	JWG1001904	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/27/10	05/27/10	JWG1001904	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/27/10	05/27/10	JWG1001904	
Dibromomethane	ND	U	5.0	0.39	1	05/27/10	05/27/10	JWG1001904	
Bromodichloromethane	ND	U	1.0	0.19	1	05/27/10	05/27/10	JWG1001904	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/27/10	05/27/10	JWG1001904	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/27/10	05/27/10	JWG1001904	
Toluene	ND	U	1.0	0.47	1	05/27/10	05/27/10	JWG1001904	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/27/10	05/27/10	JWG1001904	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/27/10	05/27/10	JWG1001904	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/27/10	05/27/10	JWG1001904	
2-Hexanone	ND	U	25	2.1	1	05/27/10	05/27/10	JWG1001904	
Dibromochloromethane	ND	U	1.0	0.34	1	05/27/10	05/27/10	JWG1001904	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002355
Date Collected: 05/19/2010
Date Received: 05/20/2010

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1002355-005

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/27/10	05/27/10	JWG1001904	
Chlorobenzene	ND	U	1.0	0.42	1	05/27/10	05/27/10	JWG1001904	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.45	1	05/27/10	05/27/10	JWG1001904	J(3)
Ethylbenzene	ND	U	1.0	0.52	1	05/27/10	05/27/10	JWG1001904	
m,p-Xylenes	ND	U	2.0	1.1	1	05/27/10	05/27/10	JWG1001904	
o-Xylene	ND	U	1.0	0.49	1	05/27/10	05/27/10	JWG1001904	
Styrene	ND	U	1.0	0.49	1	05/27/10	05/27/10	JWG1001904	
Bromoform	ND	U	2.0	0.44	1	05/27/10	05/27/10	JWG1001904	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/27/10	05/27/10	JWG1001904	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/27/10	05/27/10	JWG1001904	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/27/10	05/27/10	JWG1001904	
trans-1,4-Dichloro-2-butene	ND	UJ	20	4.3	1	05/27/10	05/27/10	JWG1001904	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/27/10	05/27/10	JWG1001904	
1,2-Dibromo-3-chloropropane (DI	ND	U	5.0	2.3	1	05/27/10	05/27/10	JWG1001904	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	101	71-122	05/27/10	Acceptable
4-Bromofluorobenzene	113	75-120	05/27/10	Acceptable
Dibromofluoromethane	101	82-116	05/27/10	Acceptable
Toluene-d8	104	88-117	05/27/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002355
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1001904-4

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.13	1	05/27/10	05/27/10	JWG1001904	
Vinyl Chloride	ND	U	1.0	0.16	1	05/27/10	05/27/10	JWG1001904	
Bromomethane	ND	U	1.0	0.49	1	05/27/10	05/27/10	JWG1001904	
Chloroethane	ND	U	5.0	0.68	1	05/27/10	05/27/10	JWG1001904	
Trichlorofluoromethane	ND	U	20	0.71	1	05/27/10	05/27/10	JWG1001904	
1,1-Dichloroethene	ND	U	1.0	0.41	1	05/27/10	05/27/10	JWG1001904	
Acetone	ND	U	50	5.6	1	05/27/10	05/27/10	JWG1001904	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.7	1	05/27/10	05/27/10	JWG1001904	
Carbon Disulfide	ND	U	10	3.1	1	05/27/10	05/27/10	JWG1001904	
Methylene Chloride	ND	U	5.0	0.45	1	05/27/10	05/27/10	JWG1001904	
trans-1,2-Dichloroethene	ND	U	1.0	0.39	1	05/27/10	05/27/10	JWG1001904	
Acrylonitrile	ND	U	10	2.7	1	05/27/10	05/27/10	JWG1001904	
1,1-Dichloroethane	ND	U	1.0	0.37	1	05/27/10	05/27/10	JWG1001904	
Vinyl Acetate	ND	U	10	2.7	1	05/27/10	05/27/10	JWG1001904	
cis-1,2-Dichloroethene	ND	U	1.0	0.083	1	05/27/10	05/27/10	JWG1001904	
2-Butanone (MEK)	ND	U	10	2.5	1	05/27/10	05/27/10	JWG1001904	
Bromochloromethane	ND	U	5.0	0.67	1	05/27/10	05/27/10	JWG1001904	
Chloroform	ND	U	1.0	0.35	1	05/27/10	05/27/10	JWG1001904	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.48	1	05/27/10	05/27/10	JWG1001904	
Carbon Tetrachloride	ND	U	1.0	0.34	1	05/27/10	05/27/10	JWG1001904	
Benzene	ND	U	1.0	0.066	1	05/27/10	05/27/10	JWG1001904	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.30	1	05/27/10	05/27/10	JWG1001904	
Trichloroethene (TCE)	ND	U	1.0	0.12	1	05/27/10	05/27/10	JWG1001904	
1,2-Dichloropropane	ND	U	1.0	0.30	1	05/27/10	05/27/10	JWG1001904	
Dibromomethane	ND	U	5.0	0.39	1	05/27/10	05/27/10	JWG1001904	
Bromodichloromethane	ND	U	1.0	0.19	1	05/27/10	05/27/10	JWG1001904	
cis-1,3-Dichloropropene	ND	U	1.0	0.15	1	05/27/10	05/27/10	JWG1001904	
4-Methyl-2-pentanone (MIBK)	ND	U	25	2.2	1	05/27/10	05/27/10	JWG1001904	
Toluene	ND	U	1.0	0.47	1	05/27/10	05/27/10	JWG1001904	
trans-1,3-Dichloropropene	ND	U	1.0	0.16	1	05/27/10	05/27/10	JWG1001904	
1,1,2-Trichloroethane	ND	U	1.0	0.48	1	05/27/10	05/27/10	JWG1001904	
Tetrachloroethene (PCE)	ND	U	1.0	0.17	1	05/27/10	05/27/10	JWG1001904	
2-Hexanone	ND	U	25	2.1	1	05/27/10	05/27/10	JWG1001904	
Dibromochloromethane	ND	U	1.0	0.34	1	05/27/10	05/27/10	JWG1001904	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002355
Project:	JED SWDF/Task 02	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG1001904-4	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.47	1	05/27/10	05/27/10	JWG1001904	
Chlorobenzene	ND	U	1.0	0.42	1	05/27/10	05/27/10	JWG1001904	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.45	1	05/27/10	05/27/10	JWG1001904	J(3)
Ethylbenzene	ND	U	1.0	0.52	1	05/27/10	05/27/10	JWG1001904	
m,p-Xylenes	ND	U	2.0	1.1	1	05/27/10	05/27/10	JWG1001904	
o-Xylene	ND	U	1.0	0.49	1	05/27/10	05/27/10	JWG1001904	
Styrene	ND	U	1.0	0.49	1	05/27/10	05/27/10	JWG1001904	
Bromoform	ND	U	2.0	0.44	1	05/27/10	05/27/10	JWG1001904	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.16	1	05/27/10	05/27/10	JWG1001904	
1,2,3-Trichloropropane	ND	U	2.0	0.66	1	05/27/10	05/27/10	JWG1001904	
1,4-Dichlorobenzene	ND	U	1.0	0.46	1	05/27/10	05/27/10	JWG1001904	
trans-1,4-Dichloro-2-butene	ND	UJ	20	4.3	1	05/27/10	05/27/10	JWG1001904	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.48	1	05/27/10	05/27/10	JWG1001904	
1,2-Dibromo-3-chloropropane (DI	ND	U	5.0	2.3	1	05/27/10	05/27/10	JWG1001904	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	101	71-122	05/27/10	Acceptable
4-Bromofluorobenzene	115	75-120	05/27/10	Acceptable
Dibromofluoromethane	101	82-116	05/27/10	Acceptable
Toluene-d8	104	88-117	05/27/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002355
Project:	JED SWDF/Task 02	**Date Collected:**	05/19/2010
Sample Matrix:	Water	**Date Received:**	05/20/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-1A	**Units:**	ug/L
Lab Code:	J1002355-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0071	1	05/20/10	05/22/10	JWG1001768	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0058	1	05/20/10	05/22/10	JWG1001768	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	81	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002355
Project:	JED SWDF/Task 02	**Date Collected:**	05/19/2010
Sample Matrix:	Water	**Date Received:**	05/20/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-1B	**Units:**	ug/L
Lab Code:	J1002355-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0072	1	05/20/10	05/22/10	JWG1001768	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0058	1	05/20/10	05/22/10	JWG1001768	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	121	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002355
Project:	JED SWDF/Task 02	**Date Collected:**	05/19/2010
Sample Matrix:	Water	**Date Received:**	05/20/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-19A	**Units:**	ug/L
Lab Code:	J1002355-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.021	0.0071	1	05/20/10	05/22/10	JWG1001768	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.021	0.0058	1	05/20/10	05/22/10	JWG1001768	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	106	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002355
Project:	JED SWDF/Task 02	**Date Collected:**	05/19/2010
Sample Matrix:	Water	**Date Received:**	05/20/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-19B	**Units:**	ug/L
Lab Code:	J1002355-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	05/20/10	05/22/10	JWG1001768	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	05/20/10	05/22/10	JWG1001768	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	107	77-150	05/22/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Planning Specialists	**Service Request:**	J1002355
Project:	JED SWDF/Task 02	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG1001768-4	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	05/20/10	05/22/10	JWG1001768	J(1)
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	05/20/10	05/22/10	JWG1001768	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	48	77-150	05/22/10	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002355
Project:	JED SWDF/Task 02	**Date Collected:**	5/19/10 1050
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	MW-1A		
Lab Code:	J1002355-001	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	**0.3**	I	µg/L	2.0	0.3	1	5/25/10	6/2/10 21:56
Arsenic, Total	6020	**2.01**		µg/L	0.50	0.14	1	5/25/10	5/27/10 11:22
Barium, Total	6020	**14.6**		µg/L	2.0	0.5	1	5/25/10	5/27/10 11:22
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/27/10 11:22
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	5/27/10 11:22
Chromium, Total	6020	**1.8**	I	µg/L	2.0	0.6	1	5/25/10	5/27/10 11:22
Cobalt, Total	6020	**0.7**	I	µg/L	1.0	0.2	1	5/25/10	5/27/10 11:22
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	5/27/10 11:22
Iron, Total	6010B	**3140**		µg/L	100	10	1	5/26/10	5/28/10 04:59
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/27/10 11:22
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/28/10	5/28/10 18:43
Nickel, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	5/25/10	5/27/10 11:22
Selenium, Total	6020	**1**	I	µg/L	5.0	0.9	1	5/25/10	5/27/10 11:22
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	6/2/10 21:56
Sodium, Total	6010B	**12.7**		mg/L	0.50	0.02	1	5/26/10	5/28/10 04:57
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	5/27/10 11:22
Vanadium, Total	6020	**1.3**	I	µg/L	5.0	1.2	1	5/25/10	5/27/10 11:22
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	5/27/10 11:22

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002355
Date Collected: 5/19/10 1025
Date Received: 5/20/10

Sample Name: MW-1B
Lab Code: J1002355-002

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	6/2/10 22:01
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	5/25/10	5/27/10 11:28
Barium, Total	6020	**4.4**		µg/L	2.0	0.5	1	5/25/10	5/27/10 11:28
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/27/10 11:28
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	5/27/10 11:28
Chromium, Total	6020	**0.7**	I	µg/L	2.0	0.6	1	5/25/10	5/27/10 11:28
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	5/25/10	5/27/10 11:28
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	5/27/10 11:28
Iron, Total	6010B	**230**		µg/L	100	10	1	5/26/10	5/28/10 05:03
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/27/10 11:28
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/28/10	5/28/10 18:44
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	5/27/10 11:28
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/25/10	5/27/10 11:28
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	6/2/10 22:01
Sodium, Total	6010B	**6.26**		mg/L	0.50	0.02	1	5/26/10	5/28/10 05:02
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	5/27/10 11:28
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	5/25/10	5/27/10 11:28
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	5/27/10 11:28

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002355
Date Collected: 5/19/10 0835
Date Received: 5/20/10

Sample Name: MW-19A
Lab Code: J1002355-003

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Dissolved	6020	ND	U	µg/L	2.0	0.3	1	5/24/10	5/25/10 02:27
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	6/2/10 22:06
Arsenic, Dissolved	6020	**8.42**		µg/L	0.50	0.14	1	5/24/10	5/25/10 02:27
Arsenic, Total	6020	**8.72**		µg/L	0.50	0.14	1	5/25/10	5/27/10 11:33
Barium, Dissolved	6020	**30.1**		µg/L	2.0	0.5	1	5/24/10	5/25/10 02:27
Barium, Total	6020	**38.0**		µg/L	2.0	0.5	1	5/25/10	5/27/10 11:33
Beryllium, Dissolved	6020	**0.9**	I	µg/L	1.0	0.3	1	5/24/10	5/25/10 02:27
Beryllium, Total	6020	**1.1**		µg/L	1.0	0.3	1	5/25/10	5/27/10 11:33
Cadmium, Dissolved	6020	ND	U	µg/L	0.50	0.17	1	5/24/10	5/25/10 02:27
Cadmium, Total	6020	**0.33**	I	µg/L	0.50	0.17	1	5/25/10	5/27/10 11:33
Chromium, Dissolved	6020	**27.0**		µg/L	2.0	0.6	1	5/24/10	5/25/10 02:27
Chromium, Total	6020	**38.8**		µg/L	2.0	0.6	1	5/25/10	5/27/10 11:33
Cobalt, Dissolved	6020	**1.4**		µg/L	1.0	0.2	1	5/24/10	5/25/10 02:27
Cobalt, Total	6020	**1.9**		µg/L	1.0	0.2	1	5/25/10	5/27/10 11:33
Copper, Dissolved	6020	**1.1**	I	µg/L	2.0	0.5	1	5/24/10	5/25/10 02:27
Copper, Total	6020	**2.0**	I	µg/L	2.0	0.5	1	5/25/10	5/27/10 11:33
Iron, Dissolved	6010B	**8590**		µg/L	100	10	1	5/28/10	6/3/10 02:38
Iron, Total	6010B	**10300**		µg/L	100	10	1	5/26/10	5/28/10 05:08
Lead, Dissolved	6020	**7.4**		µg/L	1.0	0.3	1	5/24/10	5/25/10 02:27
Lead, Total	6020	**13.5**		µg/L	1.0	0.3	1	5/25/10	5/27/10 11:33
Mercury, Dissolved	7470A	**0.11**	I	µg/L	0.50	0.08	1	5/28/10	5/28/10 18:47
Mercury, Total	7470A	**0.20**	I	µg/L	0.50	0.08	1	5/28/10	5/28/10 18:46
Nickel, Dissolved	6020	**4.6**		µg/L	2.0	0.3	1	5/24/10	5/25/10 02:27
Nickel, Total	6020	**7.0**		µg/L	2.0	0.3	1	5/25/10	5/27/10 11:33
Selenium, Dissolved	6020	**4.9**	I	µg/L	5.0	0.9	1	5/24/10	5/25/10 02:27
Selenium, Total	6020	**7.1**		µg/L	5.0	0.9	1	5/25/10	5/27/10 11:33
Silver, Dissolved	6020	ND	U	µg/L	0.50	0.09	1	5/24/10	5/25/10 02:27
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	6/2/10 22:06
Sodium, Dissolved	6010B	**17.5**		mg/L	0.50	0.02	1	5/28/10	6/3/10 02:36
Sodium, Total	6010B	**18.0**		mg/L	0.50	0.02	1	5/26/10	5/28/10 05:06
Thallium, Dissolved	6020	ND	U	µg/L	1.0	0.4	1	5/24/10	5/25/10 02:27
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	5/27/10 11:33
Vanadium, Dissolved	6020	**31.1**		µg/L	5.0	1.2	1	5/24/10	5/25/10 02:27
Vanadium, Total	6020	**39.3**		µg/L	5.0	1.2	1	5/25/10	5/27/10 11:33
Zinc, Dissolved	6020	**6**	I	µg/L	10	3	1	5/24/10	5/25/10 02:27

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002355
Project:	JED SWDF/Task 02	**Date Collected:**	5/19/10 0835
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	MW-19A		
Lab Code:	J1002355-003	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Zinc, Total	6020	6	I	µg/L	10	3	1	5/25/10	5/27/10 11:33

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002355
Date Collected: 5/19/10 0750
Date Received: 5/20/10

Sample Name: MW-19B
Lab Code: J1002355-004

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	6/2/10 22:10
Arsenic, Total	6020	**0.28**	I	µg/L	0.50	0.14	1	5/25/10	5/27/10 11:38
Barium, Total	6020	**33.8**		µg/L	2.0	0.5	1	5/25/10	5/27/10 11:38
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/27/10 11:38
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	5/27/10 11:38
Chromium, Total	6020	**2.3**		µg/L	2.0	0.6	1	5/25/10	5/27/10 11:38
Cobalt, Total	6020	**0.2**	I	µg/L	1.0	0.2	1	5/25/10	5/27/10 11:38
Copper, Total	6020	**1.3**	I	µg/L	2.0	0.5	1	5/25/10	5/27/10 11:38
Iron, Total	6010B	**800**		µg/L	100	10	1	5/26/10	5/28/10 05:12
Lead, Total	6020	**1.8**		µg/L	1.0	0.3	1	5/25/10	5/27/10 11:38
Mercury, Total	7470A	**0.09**	I	µg/L	0.50	0.08	1	5/28/10	5/28/10 18:49
Nickel, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	5/25/10	5/27/10 11:38
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/25/10	5/27/10 11:38
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	6/2/10 22:10
Sodium, Total	6010B	**17.1**		mg/L	0.50	0.02	1	5/26/10	5/28/10 05:11
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	5/27/10 11:38
Vanadium, Total	6020	**3.1**	I	µg/L	5.0	1.2	1	5/25/10	5/27/10 11:38
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	5/27/10 11:38

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002355
Project:	JED SWDF/Task 02	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	J1002355-MB	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Dissolved	6020	ND	U	µg/L	2.0	0.3	1	5/24/10	5/25/10 00:49
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	5/25/10	6/2/10 16:30
Arsenic, Dissolved	6020	**0.24**	I	µg/L	0.50	0.14	1	5/24/10	5/25/10 00:49
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	5/25/10	5/27/10 09:06
Barium, Dissolved	6020	ND	U	µg/L	2.0	0.5	1	5/24/10	5/25/10 00:49
Barium, Total	6020	**0.9**	I	µg/L	2.0	0.5	1	5/25/10	5/27/10 09:06
Beryllium, Dissolved	6020	ND	U	µg/L	1.0	0.3	1	5/24/10	5/25/10 00:49
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/27/10 09:06
Cadmium, Dissolved	6020	ND	U	µg/L	0.50	0.17	1	5/24/10	5/25/10 00:49
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	5/25/10	5/27/10 09:06
Chromium, Dissolved	6020	ND	U	µg/L	2.0	0.6	1	5/24/10	5/25/10 00:49
Chromium, Total	6020	ND	U	µg/L	2.0	0.6	1	5/25/10	5/27/10 09:06
Cobalt, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	5/24/10	5/25/10 00:49
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	5/25/10	5/27/10 09:06
Copper, Dissolved	6020	ND	U	µg/L	2.0	0.5	1	5/24/10	5/25/10 00:49
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	5/25/10	5/27/10 09:06
Iron, Dissolved	6010B	**10**	I	µg/L	100	10	1	5/28/10	6/3/10 02:29
Iron, Total	6010B	ND	U	µg/L	100	10	1	5/26/10	5/28/10 03:29
Lead, Dissolved	6020	ND	U	µg/L	1.0	0.3	1	5/24/10	5/25/10 00:49
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	5/25/10	5/27/10 09:06
Mercury, Dissolved	7470A	ND	U	µg/L	0.50	0.08	1	5/28/10	5/28/10 18:18
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	5/28/10	5/28/10 18:18
Nickel, Dissolved	6020	ND	U	µg/L	2.0	0.3	1	5/24/10	5/25/10 00:49
Nickel, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	5/25/10	5/27/10 09:06
Selenium, Dissolved	6020	ND	U	µg/L	5.0	0.9	1	5/24/10	5/25/10 00:49
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	5/25/10	5/27/10 09:06
Silver, Dissolved	6020	ND	U	µg/L	0.50	0.09	1	5/24/10	5/25/10 00:49
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	5/25/10	6/2/10 16:30
Sodium, Dissolved	6010B	ND	U	mg/L	0.50	0.02	1	5/28/10	6/3/10 02:27
Sodium, Total	6010B	**0.05**	I	mg/L	0.50	0.02	1	5/26/10	5/28/10 03:27
Thallium, Dissolved	6020	ND	U	µg/L	1.0	0.4	1	5/24/10	5/25/10 00:49
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	5/25/10	5/27/10 09:06
Vanadium, Dissolved	6020	ND	U	µg/L	5.0	1.2	1	5/24/10	5/25/10 00:49
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	5/25/10	5/27/10 09:06
Zinc, Dissolved	6020	ND	U	µg/L	10	3	1	5/24/10	5/25/10 00:49

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002355
Project:	JED SWDF/Task 02	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	J1002355-MB	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Zinc, Total	6020	ND	U	µg/L	10	3	1	5/25/10	5/27/10 09:06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002355
Project:	JED SWDF/Task 02	**Date Collected:**	5/19/10 1050
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	MW-1A		
Lab Code:	J1002355-001	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**3.68**		mg/L	0.010	0.005	1	NA	5/25/10 13:06
Chloride	300.0	**30.1**		mg/L	0.50	0.09	1	NA	5/20/10 16:55
Nitrate as Nitrogen	300.0	0.07	U	mg/L	0.20	0.07	1	NA	5/20/10 16:55
Solids, Total Dissolved	SM 2540 C	**73**		mg/L	10	10	1	NA	5/26/10 17:00

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002355
Date Collected: 5/19/10 1025
Date Received: 5/20/10

Sample Name: MW-1B
Lab Code: J1002355-002

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.055**		mg/L	0.010	0.005	1	NA	5/25/10 13:08
Chloride	300.0	**7.44**		mg/L	0.50	0.09	1	NA	5/20/10 17:40
Nitrate as Nitrogen	300.0	0.07	U	mg/L	0.20	0.07	1	NA	5/20/10 17:40
Solids, Total Dissolved	SM 2540 C	**34**		mg/L	10	10	1	NA	5/26/10 17:00

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002355
Project:	JED SWDF/Task 02	**Date Collected:**	5/19/10 0835
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	MW-19A		
Lab Code:	J1002355-003	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**15.3**		mg/L	0.050	0.025	5	NA	5/25/10 14:20
Chloride	300.0	**12.4**		mg/L	0.50	0.09	1	NA	5/20/10 17:55
Nitrate as Nitrogen	300.0	0.07	U	mg/L	0.20	0.07	1	NA	5/20/10 17:55
Solids, Total Dissolved	SM 2540 C	**860**		mg/L	10	10	1	NA	5/26/10 17:00

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002355
Project:	JED SWDF/Task 02	**Date Collected:**	5/19/10 0750
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	MW-19B		
Lab Code:	J1002355-004	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.043**		mg/L	0.010	0.005	1	NA	5/25/10 13:15
Chloride	300.0	**31.4**		mg/L	0.50	0.09	1	NA	5/20/10 18:10
Nitrate as Nitrogen	300.0	0.07	U	mg/L	0.20	0.07	1	NA	5/20/10 18:10
Solids, Total Dissolved	SM 2540 C	**87**		mg/L	10	10	1	NA	5/26/10 17:00

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002355
Project:	JED SWDF/Task 02	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	J1002355-MB	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	0.005	U	mg/L	0.010	0.005	1	NA	5/25/10 13:14
Chloride	300.0	0.09	U	mg/L	0.50	0.09	1	NA	5/20/10 16:26
Nitrate as Nitrogen	300.0	0.07	U	mg/L	0.20	0.07	1	NA	5/20/10 16:26
Solids, Total Dissolved	SM 2540 C	10	U	mg/L	10	10	1	NA	5/26/10 17:00

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002355

Surrogate Recovery Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
MW-1A	J1002355-001	101	113	100	101
MW-1B	J1002355-002	103	114	101	104
MW-19A	J1002355-003	102	114	101	105
MW-19B	J1002355-004	101	112	100	105
Trip Blank	J1002355-005	101	113	101	104
Method Blank	JWG1001904-4	101	115	101	104
Lab Control Sample	JWG1001904-3	104	110	105	105

Surrogate Recovery Control Limits (%)

Sur1 =	1,2-Dichloroethane-d4	71-122
Sur2 =	4-Bromofluorobenzene	75-120
Sur3 =	Dibromofluoromethane	82-116
Sur4 =	Toluene-d8	88-117

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002355
Date Extracted: 05/27/2010
Date Analyzed: 05/27/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1001904

	Lab Control Sample JWG1001904-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Chloromethane	17.5	20.0	87	67-135
Vinyl Chloride	19.2	20.0	96	78-132
Bromomethane	20.0	20.0	100	79-130
Chloroethane	20.0	20.0	100	74-126
Trichlorofluoromethane	18.6	20.0	93	74-134
1,1-Dichloroethene	19.7	20.0	98	78-130
Acetone	92.3	100	92	67-133
Iodomethane (Methyl Iodide)	89.5	100	90	68-134
Carbon Disulfide	96.8	100	97	76-138
Methylene Chloride	20.6	20.0	103	72-124
trans-1,2-Dichloroethene	19.7	20.0	99	77-124
Acrylonitrile	100	100	100	77-127
1,1-Dichloroethane	19.5	20.0	98	80-128
Vinyl Acetate	95.2	100	95	61-148
cis-1,2-Dichloroethene	19.6	20.0	98	80-126
2-Butanone (MEK)	94.7	100	95	73-127
Bromochloromethane	19.9	20.0	100	79-129
Chloroform	19.4	20.0	97	83-124
1,1,1-Trichloroethane (TCA)	18.4	20.0	92	79-124
Carbon Tetrachloride	16.9	20.0	84	81-125
Benzene	19.0	20.0	95	79-119
1,2-Dichloroethane (EDC)	19.2	20.0	96	80-124
Trichloroethene (TCE)	18.0	20.0	90	76-124
1,2-Dichloropropane	20.4	20.0	102	79-123
Dibromomethane	20.2	20.0	101	83-123
Bromodichloromethane	18.4	20.0	92	81-123
cis-1,3-Dichloropropene	18.5	20.0	93	86-123
4-Methyl-2-pentanone (MIBK)	92.5	100	93	72-136
Toluene	18.8	20.0	94	86-117
trans-1,3-Dichloropropene	17.8	20.0	89	83-124
1,1,2-Trichloroethane	19.6	20.0	98	86-114
Tetrachloroethene (PCE)	16.9	20.0	84	80-121
2-Hexanone	92.6	100	93	71-138
Dibromochloromethane	16.4	20.0	82	82-121
1,2-Dibromoethane (EDB)	19.4	20.0	97	88-117
Chlorobenzene	17.9	20.0	89	86-113

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002355
Project:	JED SWDF/Task 02	**Date Extracted:**	05/27/2010
Sample Matrix:	Water	**Date Analyzed:**	05/27/2010

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	8260B	**Basis:**	NA
		Level:	Low
		Extraction Lot:	JWG1001904

	Lab Control Sample JWG1001904-3 Lab Control Spike				
Analyte Name	**Result**	**Expected**	**%Rec**		**%Rec Limits**
1,1,1,2-Tetrachloroethane	16.7	20.0	84	*	85-117
Ethylbenzene	18.3	20.0	92		90-118
m,p-Xylenes	36.7	40.0	92		86-121
o-Xylene	17.9	20.0	89		89-119
Styrene	18.4	20.0	92		89-122
Bromoform	13.6	20.0	68		68-129
1,1,2,2-Tetrachloroethane	19.9	20.0	100		83-120
1,2,3-Trichloropropane	19.0	20.0	95		83-123
1,4-Dichlorobenzene	17.9	20.0	89		83-113
trans-1,4-Dichloro-2-butene	1.72	20.0	9	*	53-143
1,2-Dichlorobenzene	18.1	20.0	91		84-115
1,2-Dibromo-3-chloropropane (DBCP	16.4	20.0	82		62-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002355

Surrogate Recovery Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	
MW-1A	J1002355-001	81	
MW-1B	J1002355-002	121	
MW-19A	J1002355-003	106	
MW-19B	J1002355-004	107	
Method Blank	JWG1001768-4	48	*
MW-1AMS	JWG1001768-1	89	
MW-1ADMS	JWG1001768-2	44	*
Lab Control Sample	JWG1001768-3	79	

Surrogate Recovery Control Limits (%)

Sur1 = 1,1,1,2-Tetrachloroethane 77-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002355
Project:	JED SWDF/Task 02	**Date Extracted:**	05/20/2010
Sample Matrix:	Water	**Date Analyzed:**	05/22/2010

Matrix Spike/Duplicate Matrix Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-1A	**Units:**	ug/L
Lab Code:	J1002355-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011	**Extraction Lot:**	JWG1001768

		MW-1AMS JWG1001768-1 Matrix Spike			MW-1ADMS JWG1001768-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,2-Dibromoethane (EDB)	ND	0.0133	0.0143	93	ND	0.0142	0 *	65-135	200 *	20
1,2-Dibromo-3-chloropropane (DBCP	ND	0.0103	0.0143	72	0.00439	0.0142	31 *	65-135	80 *	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002355
Project:	JED SWDF/Task 02	**Date Extracted:**	05/20/2010
Sample Matrix:	Water	**Date Analyzed:**	05/22/2010

Lab Control Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	8011	**Basis:**	NA
		Level:	Low
		Extraction Lot:	JWG1001768

	Lab Control Sample JWG1001768-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,2-Dibromoethane (EDB)	0.0106	0.0143	74	70-130
1,2-Dibromo-3-chloropropane (DBCP	0.0102	0.0143	71	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002355
Date Analyzed: 5/25/10 - 6/ 3/10

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1002355-LCS Result	Expected	% Rec	% Rec Limits
Antimony, Dissolved	6020	**55.1**	50.0	110	80 - 120
Antimony, Total	6020	**52.4**	50.0	105	80 - 120
Arsenic, Dissolved	6020	**52.5**	50.0	105	80 - 120
Arsenic, Total	6020	**48.5**	50.0	97	80 - 120
Barium, Dissolved	6020	**52.3**	50.0	105	80 - 120
Barium, Total	6020	**53.3**	50.0	107	80 - 120
Beryllium, Dissolved	6020	**54.8**	50.0	110	80 - 120
Beryllium, Total	6020	**48.6**	50.0	97	80 - 120
Cadmium, Dissolved	6020	**52.4**	50.0	105	80 - 120
Cadmium, Total	6020	**48.1**	50.0	96	80 - 120
Chromium, Dissolved	6020	**50.6**	50.0	101	80 - 120
Chromium, Total	6020	**52.2**	50.0	104	80 - 120
Cobalt, Dissolved	6020	**49.9**	50.0	100	80 - 120
Cobalt, Total	6020	**53.0**	50.0	106	80 - 120
Copper, Dissolved	6020	**50.8**	50.0	102	80 - 120
Copper, Total	6020	**50.2**	50.0	100	80 - 120
Iron, Dissolved	6010B	**1940**	2000	97	80 - 120
Iron, Total	6010B	**1940**	2000	97	80 - 120
Lead, Dissolved	6020	**51.2**	50.0	102	80 - 120
Lead, Total	6020	**54.6**	50.0	109	80 - 120
Mercury, Dissolved	7470A	**4.75**	5.00	95	80 - 120
Mercury, Total	7470A	**4.75**	5.00	95	80 - 120
Nickel, Dissolved	6020	**49.8**	50.0	100	80 - 120
Nickel, Total	6020	**51.5**	50.0	103	80 - 120
Selenium, Dissolved	6020	**54.6**	50.0	109	80 - 120
Selenium, Total	6020	**44.2**	50.0	88	80 - 120
Silver, Dissolved	6020	**53.5**	50.0	107	80 - 120
Silver, Total	6020	**54.5**	50.0	109	80 - 120
Thallium, Dissolved	6020	**51.1**	50.0	102	80 - 120
Thallium, Total	6020	**53.8**	50.0	108	80 - 120
Vanadium, Dissolved	6020	**50.9**	50.0	102	80 - 120
Vanadium, Total	6020	**51.9**	50.0	104	80 - 120
Zinc, Dissolved	6020	**103**	100	103	80 - 120
Zinc, Total	6020	**93.4**	100	93	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002355
Date Analyzed: 5/28/10 - 6/ 3/10

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1002355-LCS Result	Expected	% Rec	% Rec Limits
Sodium, Dissolved	6010B	**9.76**	10.0	98	80 - 120
Sodium, Total	6010B	**10.1**	10.0	101	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Environmental Planning Specialists	**Service Request:**	J1002355
Project:	JED SWDF/Task 02	**Date Collected:**	5/19/10
Sample Matrix:	Water	**Date Received:**	5/20/10
		Date Analyzed:	5/20/10 - 5/25/10

Matrix Spike Summary
General Chemistry Parameters

Sample Name:	MW-1A	**Units:**	mg/L
Lab Code:	J1002355-001	**Basis:**	NA

Analyte Name	Method	Sample Result	Matrix Spike J1002355-MS Result	Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	350.1	3.68	4.79	1.00	111	* 90 - 110
Chloride	300.0	30.1	77.2	50.0	94	90 - 110
Nitrate as Nitrogen	300.0	ND	4.88	5.00	98	90 - 110

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002355
Date Collected: 5/19/10
Date Received: 5/20/10
Date Analyzed: 5/20/10 - 5/25/10

Duplicate Sample Summary
General Chemistry Parameters

Sample Name: MW-1A
Lab Code: J1002355-001

Units: mg/L
Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	Duplicate Sample J1002355-DUP Result	Average	RPD	RPD Limit
Ammonia as Nitrogen	350.1	0.010	0.005	3.68	3.67	3.68	<1	20
Chloride	300.0	0.50	0.09	30.1	30.0	30.0	<1	20
Nitrate as Nitrogen	300.0	0.20	0.07	0.07 U	0.07 U	NC	NC	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002355
Date Analyzed: 5/20/10 - 5/26/10

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1002355-LCS2 Result	Expected	% Rec	% Rec Limits
Ammonia as Nitrogen	350.1	**0.968**	1.00	97	90 - 110
Chloride	300.0	**48.2**	50.0	96	90 - 110
Nitrate as Nitrogen	300.0	**4.80**	5.00	96	90 - 110
Solids, Total Dissolved	SM 2540 C	**296**	300	99	85 - 115

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF/Task 02
Sample Matrix: Water

Service Request: J1002355
Date Analyzed: 5/26/10

Lab Control Sample Summary
Total Dissolved Solids Dried at 180 Deg C (TDS) 20th Ed.

Units: mg/L
Basis: NA

		Lab Control Sample J1002355-LCS1			Duplicate Lab Control Sample J1002355-DLCS1					
Analyte Name	**Method**	**Result**	**Expected**	**% Rec**	**Result**	**Expected**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Solids, Total Dissolved	SM 2540 C	**296**	300	99	**298**	300	99	85 - 115	1	20

Comments:

Columbia Analytical Services, Inc.
Cooler Receipt Form

Client: EPS Service Request #: J1002355

Project: JEDSWDF

Cooler received on 5-20-10 and opened on 5-20-10 by GB

COURIER: CAS UPS FEDEX Client Other _____ Airbill # 12X5W098 22 1000 1428

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 4 +/- 2 degrees C)	4.9		
5	Thermometer ID	T16		
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	bubblewrap		
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 VOA vials checked for absence 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

Jacksonville Laboratory
Condition Upon Receipt - Sample pH

SR # : J1002355 Date: 5·20·10 Initials: GB

Note that pH is check and meets the required pH criterion listed in the column heading unless otherwise noted on the cooler receipt form.

	Bottle Code																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	40mL	40mL	40mL	125mL	125mL	125mL	125mL	250mL	250mL	250mL	250mL	250mL	250mL	250mL	500mL	500mL	500mL	500mL	500mL	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	100ml	Ziplock	Misc.
Container	G	G	G	P	P	P	P	P	P	P	P	P	G	G	P	P	P	P	G	P	P	G	G	G	G	G	G	G	P	P	Misc.
Pres.		HCl	Na2S2O3		HCl	H2SO4	HNO3		H2SO4	HNO3	ZnAc2 NaOH	NaOH		HNO3		HCl	H2SO4	HNO3			HNO3		HCl	H2SO4					Sodium Thiosulfate		
Req. pH	N/A	<2	N/A	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	<2	N/A	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A		N/A
Sample #	-	-		-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-		-				-	-		-
-001	3	3				1	1	1																							-001
-002						1	1	1																							-002
-003						1	2	1																							-003
-004						1	1	1																							-004
-005		1																													-005
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NOTE: VOA pH checks are performed by the analytical area, not sample control

Columbia Analytical Services™

www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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

PAGE 1 OF 1

SR # J1002355
CAS Contact

Project Name: JED SWDF	Project Number: Task 02
Project Manager: Kirk Wills	Email Address: kwills@envplanning.com
Company/Address: EPS 1936 Bruce B Downs Blvd #328 Wesley Chapel, FL 33543	
Phone #: 813-388-1026	FAX#:
Sampler's Signature: Joe Terry	Sampler's Printed Name: Joe Terry

ANALYSIS REQUESTED (Include Method Number and [redacted]

PRESERVATIVE: 1 0 2 3 0 2

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	8260	8021	Metals	NH3	TDS, Cl, NO3	Dissolved Metals									REMARKS/ ALTERNATE DESCRIPTION
MW-1A		5.19.10	1050	GW	9	3	3	1	1	1										
MW-1B		5.19.10	1025	GW	9	3	3	1	1	1										
MW-19A		5.19.10	0835	GW	10	3	3	1	1	1	1									
MW-19B		5.19.10	0750	GW	9	3	3	1	1	1										
Trip Blank		5.4.10	1415	DI H_2O	1	1														

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: 10139 - JED-1

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: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
50					
Signature: Joe Terry	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Joe Terry	Printed Name: UPS	Printed Name: UPS	Printed Name: Jim Beaver	Printed Name:	Printed Name:
Firm: EPS	Firm:	Firm:	Firm: CAS	Firm:	Firm:
Date/Time: 5-19-10/1430	Date/Time:	Date/Time:	Date/Time: 5-20-10 0923	Date/Time:	Date/Time:

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

JSCOC-06/20/08

Columbia Analytical Services™ 9143 Philips Highway, Suite 200 | Jacksonville, FL 32256 | 904-739-2277 | 904-739-2011 fax | www.caslab.com

August 05, 2010

Service Request No: J1003599

Kirk Wills
Environmental Planning Specialists
1936 Bruce B Downs Blvd
#328
Wesley Chapel, FL 33543

Laboratory Results for: JED SWDF

Dear Kirk:

Enclosed are the results of the sample(s) submitted to our laboratory on July 30, 2010. For your reference, these analyses have been assigned our service request number **J1003599**.

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.

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

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502. Other state accreditations include: Georgia, #958; Kentucky, #63; Louisiana, #02086; North Carolina, #527; South Carolina, #96021001; Texas, #T104704197-09-TX.

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Environmental Planning Specialists	**Service Request No.:**	J1003599
Project:	JED SWDF	**Date Received:**	7/30/10
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Five water samples and one trip blank were received for analysis at Columbia Analytical Services on 7/30/10. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

The samples were analyzed for Volatile Organics using EPA Method 8260. The following observations were made regarding this delivery group.

Lab Control Sample Exceptions

The spike recovery of 1,2-Dibromo-3-chloropropane (DBCP) for Laboratory Control Sample (LCS) JQ1003130-03 was outside the upper control criterion. The analyte in question was not detected in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

General Chemistry Parameters

The sample was analyzed for Ammonia using EPA Method 350.1. No problems were observed.

Approved by_____ **Date** 8/5/10

Florida DEP Data Qualifiers

B Results based upon colony counts outside the acceptable range.

D Measurement was made in the field.

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 practical quantitation limit.

J Estimated value (one of the following reasons is discussed in the project case narrative).
1. The result may be inaccurate because the surrogate recovery limits have been exceeded.
2. No known quality control criteria exists for the component.
3. The reported value failed to meet the established quality control criteria for either precision or accuracy.
4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD).
5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).

K Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).

L Off scale high. The analyte is above the upper limit of the linear calibration range.

M The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.

N Presumptive evidence of the analyte. Confirmation was not performed.

Q Sample held beyond the accepted holding time.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.

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.

Y The laboratory analysis was from an improperly preserved sample.

Z Too many colonies were present (TNTC). 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: Environmental Planning Specialists
Project: JED SWDF

Service Request: J1003599

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J1003599-001	MW-1A	7/29/10	15:00
J1003599-002	MW-3A	7/29/10	14:25
J1003599-003	MW-8A	7/29/10	13:50
J1003599-004	MW-12A	7/29/10	12:45
J1003599-005	MW-13A	7/29/10	11:45
J1003599-006	Trip Blank	7/29/10	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1003599
Date Collected: 7/29/10 1500
Date Received: 7/30/10

Sample Name: MW-1A
Lab Code: J1003599-001

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	8/3/10 17:37		211013
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	8/3/10 17:37		211013
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	8/3/10 17:37		211013
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	8/3/10 17:37		211013
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	8/3/10 17:37		211013
1,1-Dichloroethene (1,1-DCE)	**0.830**	I	1.00	0.160	1	NA	8/3/10 17:37		211013
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	8/3/10 17:37		211013
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	8/3/10 17:37		211013
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	8/3/10 17:37		211013
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	8/3/10 17:37		211013
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	8/3/10 17:37		211013
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	8/3/10 17:37		211013
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	8/3/10 17:37		211013
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	8/3/10 17:37		211013
2-Hexanone	ND	U	25.0	2.20	1	NA	8/3/10 17:37		211013
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	8/3/10 17:37		211013
Acetone	ND	U	50.0	5.60	1	NA	8/3/10 17:37		211013
Acrylonitrile	ND	U	10.0	1.20	1	NA	8/3/10 17:37		211013
Benzene	**4.38**		1.00	0.210	1	NA	8/3/10 17:37		211013
Bromochloromethane	ND	U	5.00	0.270	1	NA	8/3/10 17:37		211013
Bromodichloromethane	ND	U	1.00	0.170	1	NA	8/3/10 17:37		211013
Bromoform	ND	U	2.00	0.420	1	NA	8/3/10 17:37		211013
Bromomethane	ND	U	1.00	0.220	1	NA	8/3/10 17:37		211013
Carbon Disulfide	ND	U	10.0	2.36	1	NA	8/3/10 17:37		211013
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	8/3/10 17:37		211013
Chlorobenzene	ND	U	1.00	0.160	1	NA	8/3/10 17:37		211013
Chloroethane	ND	U	5.00	0.220	1	NA	8/3/10 17:37		211013
Chloroform	ND	U	1.00	0.350	1	NA	8/3/10 17:37		211013
Chloromethane	ND	U	1.00	0.110	1	NA	8/3/10 17:37		211013
cis-1,2-Dichloroethene	**0.484**	I	1.00	0.360	1	NA	8/3/10 17:37		211013
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	8/3/10 17:37		211013
Dibromochloromethane	ND	U	1.00	0.190	1	NA	8/3/10 17:37		211013
Dibromomethane	ND	U	5.00	0.180	1	NA	8/3/10 17:37		211013
Ethylbenzene	**3.90**		1.00	0.519	1	NA	8/3/10 17:37		211013
Iodomethane	ND	U	5.00	2.68	1	NA	8/3/10 17:37		211013
m,p-Xylenes	**3.06**		2.00	1.04	1	NA	8/3/10 17:37		211013

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1003599
Project:	JED SWDF	**Date Collected:**	7/29/10 1500
Sample Matrix:	Water	**Date Received:**	7/30/10
Sample Name:	MW-1A	**Units:**	µg/L
Lab Code:	J1003599-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	8/3/10 17:37		211013
o-Xylene	**1.22**		1.00	0.140	1	NA	8/3/10 17:37		211013
Styrene	ND	U	1.00	0.291	1	NA	8/3/10 17:37		211013
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	8/3/10 17:37		211013
Toluene	**1.30**		1.00	0.190	1	NA	8/3/10 17:37		211013
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	8/3/10 17:37		211013
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	8/3/10 17:37		211013
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	8/3/10 17:37		211013
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	8/3/10 17:37		211013
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	8/3/10 17:37		211013
Vinyl Acetate	ND	U	10.0	1.90	1	NA	8/3/10 17:37		211013
Vinyl Chloride	**2.78**		1.00	0.220	1	NA	8/3/10 17:37		211013

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	102	71-122	8/3/10 17:37	
4-Bromofluorobenzene	100	75-120	8/3/10 17:37	
Dibromofluoromethane	103	82-116	8/3/10 17:37	
Toluene-d8	101	88-117	8/3/10 17:37	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1003599
Project:	JED SWDF	**Date Collected:**	7/29/10 1425
Sample Matrix:	Water	**Date Received:**	7/30/10
Sample Name:	MW-3A	**Units:**	µg/L
Lab Code:	J1003599-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	8/3/10 18:05		211013
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	8/3/10 18:05		211013
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	8/3/10 18:05		211013
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	8/3/10 18:05		211013
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	8/3/10 18:05		211013
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	8/3/10 18:05		211013
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	8/3/10 18:05		211013
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	8/3/10 18:05		211013
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	8/3/10 18:05		211013
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	8/3/10 18:05		211013
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	8/3/10 18:05		211013
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	8/3/10 18:05		211013
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	8/3/10 18:05		211013
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	8/3/10 18:05		211013
2-Hexanone	ND	U	25.0	2.20	1	NA	8/3/10 18:05		211013
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	8/3/10 18:05		211013
Acetone	ND	U	50.0	5.60	1	NA	8/3/10 18:05		211013
Acrylonitrile	ND	U	10.0	1.20	1	NA	8/3/10 18:05		211013
Benzene	**2.43**		1.00	0.210	1	NA	8/3/10 18:05		211013
Bromochloromethane	ND	U	5.00	0.270	1	NA	8/3/10 18:05		211013
Bromodichloromethane	ND	U	1.00	0.170	1	NA	8/3/10 18:05		211013
Bromoform	ND	U	2.00	0.420	1	NA	8/3/10 18:05		211013
Bromomethane	ND	U	1.00	0.220	1	NA	8/3/10 18:05		211013
Carbon Disulfide	ND	U	10.0	2.36	1	NA	8/3/10 18:05		211013
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	8/3/10 18:05		211013
Chlorobenzene	ND	U	1.00	0.160	1	NA	8/3/10 18:05		211013
Chloroethane	ND	U	5.00	0.220	1	NA	8/3/10 18:05		211013
Chloroform	ND	U	1.00	0.350	1	NA	8/3/10 18:05		211013
Chloromethane	ND	U	1.00	0.110	1	NA	8/3/10 18:05		211013
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	8/3/10 18:05		211013
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	8/3/10 18:05		211013
Dibromochloromethane	ND	U	1.00	0.190	1	NA	8/3/10 18:05		211013
Dibromomethane	ND	U	5.00	0.180	1	NA	8/3/10 18:05		211013
Ethylbenzene	**0.694**	I	1.00	0.519	1	NA	8/3/10 18:05		211013
Iodomethane	ND	U	5.00	2.68	1	NA	8/3/10 18:05		211013
m,p-Xylenes	ND	U	2.00	1.04	1	NA	8/3/10 18:05		211013

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1003599
Project:	JED SWDF	**Date Collected:**	7/29/10 1425
Sample Matrix:	Water	**Date Received:**	7/30/10
Sample Name:	MW-3A	**Units:**	µg/L
Lab Code:	J1003599-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	8/3/10 18:05		211013
o-Xylene	ND	U	1.00	0.140	1	NA	8/3/10 18:05		211013
Styrene	ND	U	1.00	0.291	1	NA	8/3/10 18:05		211013
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	8/3/10 18:05		211013
Toluene	ND	U	1.00	0.190	1	NA	8/3/10 18:05		211013
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	8/3/10 18:05		211013
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	8/3/10 18:05		211013
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	8/3/10 18:05		211013
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	8/3/10 18:05		211013
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	8/3/10 18:05		211013
Vinyl Acetate	ND	U	10.0	1.90	1	NA	8/3/10 18:05		211013
Vinyl Chloride	ND	U	1.00	0.220	1	NA	8/3/10 18:05		211013

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	102	71-122	8/3/10 18:05	
4-Bromofluorobenzene	100	75-120	8/3/10 18:05	
Dibromofluoromethane	102	82-116	8/3/10 18:05	
Toluene-d8	101	88-117	8/3/10 18:05	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1003599
Project:	JED SWDF	**Date Collected:**	7/29/10 1350
Sample Matrix:	Water	**Date Received:**	7/30/10
Sample Name:	MW-8A	**Units:**	µg/L
Lab Code:	J1003599-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	8/3/10 18:32		211013
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	8/3/10 18:32		211013
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	8/3/10 18:32		211013
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	8/3/10 18:32		211013
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	8/3/10 18:32		211013
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	8/3/10 18:32		211013
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	8/3/10 18:32		211013
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	8/3/10 18:32		211013
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	8/3/10 18:32		211013
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	8/3/10 18:32		211013
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	8/3/10 18:32		211013
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	8/3/10 18:32		211013
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	8/3/10 18:32		211013
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	8/3/10 18:32		211013
2-Hexanone	ND	U	25.0	2.20	1	NA	8/3/10 18:32		211013
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	8/3/10 18:32		211013
Acetone	ND	U	50.0	5.60	1	NA	8/3/10 18:32		211013
Acrylonitrile	ND	U	10.0	1.20	1	NA	8/3/10 18:32		211013
Benzene	**1.16**		1.00	0.210	1	NA	8/3/10 18:32		211013
Bromochloromethane	ND	U	5.00	0.270	1	NA	8/3/10 18:32		211013
Bromodichloromethane	ND	U	1.00	0.170	1	NA	8/3/10 18:32		211013
Bromoform	ND	U	2.00	0.420	1	NA	8/3/10 18:32		211013
Bromomethane	ND	U	1.00	0.220	1	NA	8/3/10 18:32		211013
Carbon Disulfide	ND	U	10.0	2.36	1	NA	8/3/10 18:32		211013
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	8/3/10 18:32		211013
Chlorobenzene	ND	U	1.00	0.160	1	NA	8/3/10 18:32		211013
Chloroethane	ND	U	5.00	0.220	1	NA	8/3/10 18:32		211013
Chloroform	ND	U	1.00	0.350	1	NA	8/3/10 18:32		211013
Chloromethane	ND	U	1.00	0.110	1	NA	8/3/10 18:32		211013
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	8/3/10 18:32		211013
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	8/3/10 18:32		211013
Dibromochloromethane	ND	U	1.00	0.190	1	NA	8/3/10 18:32		211013
Dibromomethane	ND	U	5.00	0.180	1	NA	8/3/10 18:32		211013
Ethylbenzene	ND	U	1.00	0.519	1	NA	8/3/10 18:32		211013
Iodomethane	ND	U	5.00	2.68	1	NA	8/3/10 18:32		211013
m,p-Xylenes	ND	U	2.00	1.04	1	NA	8/3/10 18:32		211013

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1003599
Project:	JED SWDF	**Date Collected:**	7/29/10 1350
Sample Matrix:	Water	**Date Received:**	7/30/10
Sample Name:	MW-8A	**Units:**	µg/L
Lab Code:	J1003599-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	8/3/10 18:32		211013
o-Xylene	**0.303**	I	1.00	0.140	1	NA	8/3/10 18:32		211013
Styrene	ND	U	1.00	0.291	1	NA	8/3/10 18:32		211013
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	8/3/10 18:32		211013
Toluene	ND	U	1.00	0.190	1	NA	8/3/10 18:32		211013
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	8/3/10 18:32		211013
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	8/3/10 18:32		211013
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	8/3/10 18:32		211013
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	8/3/10 18:32		211013
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	8/3/10 18:32		211013
Vinyl Acetate	ND	U	10.0	1.90	1	NA	8/3/10 18:32		211013
Vinyl Chloride	ND	U	1.00	0.220	1	NA	8/3/10 18:32		211013

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	101	71-122	8/3/10 18:32	
4-Bromofluorobenzene	101	75-120	8/3/10 18:32	
Dibromofluoromethane	102	82-116	8/3/10 18:32	
Toluene-d8	101	88-117	8/3/10 18:32	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1003599
Date Collected: 7/29/10 1245
Date Received: 7/30/10

Sample Name: MW-12A
Lab Code: J1003599-004

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	8/3/10 19:00		211013
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	8/3/10 19:00		211013
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	8/3/10 19:00		211013
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	8/3/10 19:00		211013
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	8/3/10 19:00		211013
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	8/3/10 19:00		211013
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	8/3/10 19:00		211013
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	8/3/10 19:00		211013
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	8/3/10 19:00		211013
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	8/3/10 19:00		211013
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	8/3/10 19:00		211013
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	8/3/10 19:00		211013
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	8/3/10 19:00		211013
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	8/3/10 19:00		211013
2-Hexanone	ND	U	25.0	2.20	1	NA	8/3/10 19:00		211013
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	8/3/10 19:00		211013
Acetone	ND	U	50.0	5.60	1	NA	8/3/10 19:00		211013
Acrylonitrile	ND	U	10.0	1.20	1	NA	8/3/10 19:00		211013
Benzene	**2.03**		1.00	0.210	1	NA	8/3/10 19:00		211013
Bromochloromethane	ND	U	5.00	0.270	1	NA	8/3/10 19:00		211013
Bromodichloromethane	ND	U	1.00	0.170	1	NA	8/3/10 19:00		211013
Bromoform	ND	U	2.00	0.420	1	NA	8/3/10 19:00		211013
Bromomethane	ND	U	1.00	0.220	1	NA	8/3/10 19:00		211013
Carbon Disulfide	ND	U	10.0	2.36	1	NA	8/3/10 19:00		211013
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	8/3/10 19:00		211013
Chlorobenzene	ND	U	1.00	0.160	1	NA	8/3/10 19:00		211013
Chloroethane	ND	U	5.00	0.220	1	NA	8/3/10 19:00		211013
Chloroform	ND	U	1.00	0.350	1	NA	8/3/10 19:00		211013
Chloromethane	ND	U	1.00	0.110	1	NA	8/3/10 19:00		211013
cis-1,2-Dichloroethene	**0.635**	I	1.00	0.360	1	NA	8/3/10 19:00		211013
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	8/3/10 19:00		211013
Dibromochloromethane	ND	U	1.00	0.190	1	NA	8/3/10 19:00		211013
Dibromomethane	ND	U	5.00	0.180	1	NA	8/3/10 19:00		211013
Ethylbenzene	ND	U	1.00	0.519	1	NA	8/3/10 19:00		211013
Iodomethane	ND	U	5.00	2.68	1	NA	8/3/10 19:00		211013
m,p-Xylenes	ND	U	2.00	1.04	1	NA	8/3/10 19:00		211013

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1003599
Project:	JED SWDF	**Date Collected:**	7/29/10 1245
Sample Matrix:	Water	**Date Received:**	7/30/10
Sample Name:	MW-12A	**Units:**	µg/L
Lab Code:	J1003599-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	8/3/10 19:00		211013
o-Xylene	ND	U	1.00	0.140	1	NA	8/3/10 19:00		211013
Styrene	ND	U	1.00	0.291	1	NA	8/3/10 19:00		211013
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	8/3/10 19:00		211013
Toluene	ND	U	1.00	0.190	1	NA	8/3/10 19:00		211013
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	8/3/10 19:00		211013
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	8/3/10 19:00		211013
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	8/3/10 19:00		211013
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	8/3/10 19:00		211013
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	8/3/10 19:00		211013
Vinyl Acetate	ND	U	10.0	1.90	1	NA	8/3/10 19:00		211013
Vinyl Chloride	ND	U	1.00	0.220	1	NA	8/3/10 19:00		211013

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	101	71-122	8/3/10 19:00	
4-Bromofluorobenzene	103	75-120	8/3/10 19:00	
Dibromofluoromethane	101	82-116	8/3/10 19:00	
Toluene-d8	101	88-117	8/3/10 19:00	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1003599
Date Collected: 7/29/10 1145
Date Received: 7/30/10

Sample Name: MW-13A
Lab Code: J1003599-005

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	8/3/10 19:28		211013
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	8/3/10 19:28		211013
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	8/3/10 19:28		211013
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	8/3/10 19:28		211013
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	8/3/10 19:28		211013
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	8/3/10 19:28		211013
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	8/3/10 19:28		211013
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	8/3/10 19:28		211013
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	8/3/10 19:28		211013
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	8/3/10 19:28		211013
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	8/3/10 19:28		211013
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	8/3/10 19:28		211013
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	8/3/10 19:28		211013
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	8/3/10 19:28		211013
2-Hexanone	ND	U	25.0	2.20	1	NA	8/3/10 19:28		211013
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	8/3/10 19:28		211013
Acetone	ND	U	50.0	5.60	1	NA	8/3/10 19:28		211013
Acrylonitrile	ND	U	10.0	1.20	1	NA	8/3/10 19:28		211013
Benzene	**0.884**	I	1.00	0.210	1	NA	8/3/10 19:28		211013
Bromochloromethane	ND	U	5.00	0.270	1	NA	8/3/10 19:28		211013
Bromodichloromethane	ND	U	1.00	0.170	1	NA	8/3/10 19:28		211013
Bromoform	ND	U	2.00	0.420	1	NA	8/3/10 19:28		211013
Bromomethane	ND	U	1.00	0.220	1	NA	8/3/10 19:28		211013
Carbon Disulfide	ND	U	10.0	2.36	1	NA	8/3/10 19:28		211013
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	8/3/10 19:28		211013
Chlorobenzene	ND	U	1.00	0.160	1	NA	8/3/10 19:28		211013
Chloroethane	ND	U	5.00	0.220	1	NA	8/3/10 19:28		211013
Chloroform	ND	U	1.00	0.350	1	NA	8/3/10 19:28		211013
Chloromethane	ND	U	1.00	0.110	1	NA	8/3/10 19:28		211013
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	8/3/10 19:28		211013
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	8/3/10 19:28		211013
Dibromochloromethane	ND	U	1.00	0.190	1	NA	8/3/10 19:28		211013
Dibromomethane	ND	U	5.00	0.180	1	NA	8/3/10 19:28		211013
Ethylbenzene	ND	U	1.00	0.519	1	NA	8/3/10 19:28		211013
Iodomethane	ND	U	5.00	2.68	1	NA	8/3/10 19:28		211013
m,p-Xylenes	ND	U	2.00	1.04	1	NA	8/3/10 19:28		211013

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1003599
Project:	JED SWDF	**Date Collected:**	7/29/10 1145
Sample Matrix:	Water	**Date Received:**	7/30/10
Sample Name:	MW-13A	**Units:**	µg/L
Lab Code:	J1003599-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	8/3/10 19:28		211013
o-Xylene	ND	U	1.00	0.140	1	NA	8/3/10 19:28		211013
Styrene	ND	U	1.00	0.291	1	NA	8/3/10 19:28		211013
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	8/3/10 19:28		211013
Toluene	ND	U	1.00	0.190	1	NA	8/3/10 19:28		211013
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	8/3/10 19:28		211013
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	8/3/10 19:28		211013
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	8/3/10 19:28		211013
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	8/3/10 19:28		211013
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	8/3/10 19:28		211013
Vinyl Acetate	ND	U	10.0	1.90	1	NA	8/3/10 19:28		211013
Vinyl Chloride	ND	U	1.00	0.220	1	NA	8/3/10 19:28		211013

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	103	71-122	8/3/10 19:28	
4-Bromofluorobenzene	104	75-120	8/3/10 19:28	
Dibromofluoromethane	103	82-116	8/3/10 19:28	
Toluene-d8	101	88-117	8/3/10 19:28	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1003599
Project:	JED SWDF	**Date Collected:**	7/29/10 0000
Sample Matrix:	Water	**Date Received:**	7/30/10
Sample Name:	Trip Blank	**Units:**	µg/L
Lab Code:	J1003599-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	8/3/10 19:55		211013
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	8/3/10 19:55		211013
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	8/3/10 19:55		211013
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	8/3/10 19:55		211013
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	8/3/10 19:55		211013
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	8/3/10 19:55		211013
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	8/3/10 19:55		211013
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	8/3/10 19:55		211013
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	8/3/10 19:55		211013
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	8/3/10 19:55		211013
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	8/3/10 19:55		211013
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	8/3/10 19:55		211013
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	8/3/10 19:55		211013
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	8/3/10 19:55		211013
2-Hexanone	ND	U	25.0	2.20	1	NA	8/3/10 19:55		211013
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	8/3/10 19:55		211013
Acetone	ND	U	50.0	5.60	1	NA	8/3/10 19:55		211013
Acrylonitrile	ND	U	10.0	1.20	1	NA	8/3/10 19:55		211013
Benzene	ND	U	1.00	0.210	1	NA	8/3/10 19:55		211013
Bromochloromethane	ND	U	5.00	0.270	1	NA	8/3/10 19:55		211013
Bromodichloromethane	ND	U	1.00	0.170	1	NA	8/3/10 19:55		211013
Bromoform	ND	U	2.00	0.420	1	NA	8/3/10 19:55		211013
Bromomethane	ND	U	1.00	0.220	1	NA	8/3/10 19:55		211013
Carbon Disulfide	ND	U	10.0	2.36	1	NA	8/3/10 19:55		211013
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	8/3/10 19:55		211013
Chlorobenzene	ND	U	1.00	0.160	1	NA	8/3/10 19:55		211013
Chloroethane	ND	U	5.00	0.220	1	NA	8/3/10 19:55		211013
Chloroform	ND	U	1.00	0.350	1	NA	8/3/10 19:55		211013
Chloromethane	ND	U	1.00	0.110	1	NA	8/3/10 19:55		211013
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	8/3/10 19:55		211013
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	8/3/10 19:55		211013
Dibromochloromethane	ND	U	1.00	0.190	1	NA	8/3/10 19:55		211013
Dibromomethane	ND	U	5.00	0.180	1	NA	8/3/10 19:55		211013
Ethylbenzene	ND	U	1.00	0.519	1	NA	8/3/10 19:55		211013
Iodomethane	ND	U	5.00	2.68	1	NA	8/3/10 19:55		211013
m,p-Xylenes	ND	U	2.00	1.04	1	NA	8/3/10 19:55		211013

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1003599
Project:	JED SWDF	**Date Collected:**	7/29/10 0000
Sample Matrix:	Water	**Date Received:**	7/30/10
Sample Name:	Trip Blank	**Units:**	µg/L
Lab Code:	J1003599-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	8/3/10 19:55		211013
o-Xylene	ND	U	1.00	0.140	1	NA	8/3/10 19:55		211013
Styrene	ND	U	1.00	0.291	1	NA	8/3/10 19:55		211013
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	8/3/10 19:55		211013
Toluene	ND	U	1.00	0.190	1	NA	8/3/10 19:55		211013
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	8/3/10 19:55		211013
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	8/3/10 19:55		211013
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	8/3/10 19:55		211013
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	8/3/10 19:55		211013
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	8/3/10 19:55		211013
Vinyl Acetate	ND	U	10.0	1.90	1	NA	8/3/10 19:55		211013
Vinyl Chloride	ND	U	1.00	0.220	1	NA	8/3/10 19:55		211013

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	101	71-122	8/3/10 19:55	
4-Bromofluorobenzene	102	75-120	8/3/10 19:55	
Dibromofluoromethane	102	82-116	8/3/10 19:55	
Toluene-d8	103	88-117	8/3/10 19:55	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1003599
Project:	JED SWDF	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	JQ1003130-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	8/3/10 12:06		211013
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	8/3/10 12:06		211013
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	8/3/10 12:06		211013
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	8/3/10 12:06		211013
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	8/3/10 12:06		211013
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	8/3/10 12:06		211013
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	8/3/10 12:06		211013
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	8/3/10 12:06		211013
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	8/3/10 12:06		211013
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	8/3/10 12:06		211013
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	8/3/10 12:06		211013
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	8/3/10 12:06		211013
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	8/3/10 12:06		211013
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	8/3/10 12:06		211013
2-Hexanone	ND	U	25.0	2.20	1	NA	8/3/10 12:06		211013
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	8/3/10 12:06		211013
Acetone	ND	U	50.0	5.60	1	NA	8/3/10 12:06		211013
Acrylonitrile	ND	U	10.0	1.20	1	NA	8/3/10 12:06		211013
Benzene	ND	U	1.00	0.210	1	NA	8/3/10 12:06		211013
Bromochloromethane	ND	U	5.00	0.270	1	NA	8/3/10 12:06		211013
Bromodichloromethane	ND	U	1.00	0.170	1	NA	8/3/10 12:06		211013
Bromoform	ND	U	2.00	0.420	1	NA	8/3/10 12:06		211013
Bromomethane	ND	U	1.00	0.220	1	NA	8/3/10 12:06		211013
Carbon Disulfide	ND	U	10.0	2.36	1	NA	8/3/10 12:06		211013
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	8/3/10 12:06		211013
Chlorobenzene	ND	U	1.00	0.160	1	NA	8/3/10 12:06		211013
Chloroethane	ND	U	5.00	0.220	1	NA	8/3/10 12:06		211013
Chloroform	ND	U	1.00	0.350	1	NA	8/3/10 12:06		211013
Chloromethane	ND	U	1.00	0.110	1	NA	8/3/10 12:06		211013
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	8/3/10 12:06		211013
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	8/3/10 12:06		211013
Dibromochloromethane	ND	U	1.00	0.190	1	NA	8/3/10 12:06		211013
Dibromomethane	ND	U	5.00	0.180	1	NA	8/3/10 12:06		211013
Ethylbenzene	ND	U	1.00	0.519	1	NA	8/3/10 12:06		211013
Iodomethane	ND	U	5.00	2.68	1	NA	8/3/10 12:06		211013
m,p-Xylenes	ND	U	2.00	1.04	1	NA	8/3/10 12:06		211013

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1003599
Project:	JED SWDF	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	JQ1003130-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	8/3/10 12:06		211013
o-Xylene	ND	U	1.00	0.140	1	NA	8/3/10 12:06		211013
Styrene	ND	U	1.00	0.291	1	NA	8/3/10 12:06		211013
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	8/3/10 12:06		211013
Toluene	ND	U	1.00	0.190	1	NA	8/3/10 12:06		211013
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	8/3/10 12:06		211013
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	8/3/10 12:06		211013
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	8/3/10 12:06		211013
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	8/3/10 12:06		211013
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	8/3/10 12:06		211013
Vinyl Acetate	ND	U	10.0	1.90	1	NA	8/3/10 12:06		211013
Vinyl Chloride	ND	U	1.00	0.220	1	NA	8/3/10 12:06		211013

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	102	71-122	8/3/10 12:06	
4-Bromofluorobenzene	99	75-120	8/3/10 12:06	
Dibromofluoromethane	101	82-116	8/3/10 12:06	
Toluene-d8	100	88-117	8/3/10 12:06	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Environmental Planning Specialists	**Service Request:**	J1003599
Project:	JED SWDF	**Date Collected:**	7/29/10
Sample Matrix:	Water	**Date Received:**	7/30/10
		Units:	mg/L
Analysis Method:	350.1	**Basis:**	NA

Ammonia as Nitrogen

Sample Name	Lab Code	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
MW-1A	J1003599-001	**3.67**		0.010	0.004	1	NA	8/2/10 13:14
Method Blank	J1003599-MB	**0.005**	I	0.010	0.004	1	NA	8/2/10 12:37

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1003599

Surrogate Recovery Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: Percent

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
MW-1A	J1003599-001	102	100	103	101
MW-3A	J1003599-002	102	100	102	101
MW-8A	J1003599-003	101	101	102	101
MW-12A	J1003599-004	101	103	101	101
MW-13A	J1003599-005	103	104	103	101
Trip Blank	J1003599-006	101	102	102	103
Method Blank	JQ1003130-04	102	99	101	100
Lab Control Sample	JQ1003130-03	105	97	105	101

Surrogate Recovery Control Limits (%)

Sur1	=	1,2-Dichloroethane-d4	71 - 122
Sur2	=	4-Bromofluorobenzene	75 - 120
Sur3	=	Dibromofluoromethane	82 - 116
Sur4	=	Toluene-d8	88 - 117

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1003599
Date Analyzed: 8/ 3/10

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L
Basis: NA

Analysis Lot: 211013

Lab Control Sample
JQ1003130-03

Analyte Name	Result	Spike Amount	% Rec		% Rec Limits
1,1,1,2-Tetrachloroethane	**21.9**	20.0	109		85 - 117
1,1,1-Trichloroethane (TCA)	**22.2**	20.0	111		79 - 124
1,1,2,2-Tetrachloroethane	**21.7**	20.0	109		83 - 120
1,1,2-Trichloroethane	**21.0**	20.0	105		86 - 114
1,1-Dichloroethane (1,1-DCA)	**19.9**	20.0	100		80 - 128
1,1-Dichloroethene (1,1-DCE)	**19.5**	20.0	97		78 - 130
1,2,3-Trichloropropane	**21.5**	20.0	107		83 - 123
1,2-Dibromo-3-chloropropane (DBCP)	**25.0**	20.0	125	*	62 - 123
1,2-Dibromoethane (EDB)	**22.1**	20.0	110		88 - 117
1,2-Dichlorobenzene	**19.8**	20.0	99		84 - 115
1,2-Dichloroethane	**21.2**	20.0	106		80 - 124
1,2-Dichloropropane	**20.4**	20.0	102		79 - 123
1,4-Dichlorobenzene	**19.4**	20.0	97		83 - 113
2-Butanone (MEK)	**102**	100	102		73 - 127
2-Hexanone	**106**	100	106		71 - 138
4-Methyl-2-pentanone (MIBK)	**108**	100	108		72 - 136
Acetone	**109**	100	109		67 - 133
Acrylonitrile	**107**	100	107		77 - 127
Benzene	**20.0**	20.0	100		79 - 119
Bromochloromethane	**21.4**	20.0	107		79 - 129
Bromodichloromethane	**21.9**	20.0	110		81 - 123
Bromoform	**23.9**	20.0	120		68 - 129
Bromomethane	**20.7**	20.0	104		79 - 130
Carbon Disulfide	**95.6**	100	96		76 - 138
Carbon Tetrachloride	**22.3**	20.0	112		81 - 125
Chlorobenzene	**19.7**	20.0	99		86 - 113
Chloroethane	**20.2**	20.0	101		74 - 126
Chloroform	**20.5**	20.0	103		83 - 124
Chloromethane	**20.5**	20.0	102		67 - 135
cis-1,2-Dichloroethene	**20.5**	20.0	103		80 - 126
cis-1,3-Dichloropropene	**21.6**	20.0	108		86 - 123
Dibromochloromethane	**22.7**	20.0	114		82 - 121
Dibromomethane	**22.0**	20.0	110		83 - 123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1003599
Date Analyzed: 8/ 3/10

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L
Basis: NA

Analysis Lot: 211013

Lab Control Sample
JQ1003130-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Ethylbenzene	**20.0**	20.0	100	90 - 118
Iodomethane	**95.4**	100	95	68 - 134
m,p-Xylenes	**40.3**	40.0	101	86 - 121
Methylene Chloride	**20.1**	20.0	101	72 - 124
o-Xylene	**20.2**	20.0	101	89 - 119
Styrene	**20.5**	20.0	103	89 - 122
Tetrachloroethene (PCE)	**20.3**	20.0	101	80 - 121
Toluene	**19.7**	20.0	99	86 - 117
trans-1,2-Dichloroethene	**20.4**	20.0	102	77 - 124
trans-1,3-Dichloropropene	**21.9**	20.0	110	83 - 124
trans-1,4-Dichloro-2-butene	**26.4**	20.0	132	53 - 143
Trichloroethene (TCE)	**19.9**	20.0	99	76 - 124
Trichlorofluoromethane	**21.5**	20.0	108	74 - 134
Vinyl Acetate	**107**	100	107	61 - 148
Vinyl Chloride	**21.2**	20.0	106	78 - 132

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water

Service Request: J1003599
Date Analyzed: 8/ 2/10

Lab Control Sample Summary
Nitrogen, Ammonia, (Colorimetric, Automated Phenate)

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1003599-LCS Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	350.1	**1.02**	1.00	102	90 - 110

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Columbia Analytical Services, Inc.
Cooler Receipt Form

Client: EPS Service Request #: J1003599

Project: JED SWDF

Cooler received on 7-30-10 and opened on 7-30-10 by SC

COURIER: CAS (UPS) FEDEX Client Other _____ Airbill # J247202 7428

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)	1.9			
5	Thermometer ID	TT5			
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	bubble wrap			
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 VOA vials checked for absence 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

Jacksonville Laboratory
Condition Upon Receipt - Sample pH

SR # : J 1003599 Date: 7-30-10 Initials: SC

Note that pH is check and meets the required pH criterion listed in the column heading unless otherwise noted on the cooler receipt form.

	Bottle Code																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Container	40mL G	40mL G	40mL G	125mL P	125mL P	125mL P	125mL P	250mL P	250mL P	250mL P	250mL P	250mL P	250mL G	250mL G	500mL P	500mL P	500mL P	500mL P	500mL G	1L P	1L P	1L G	1L G	1L G	2oz G	4oz G	8oz G	16oz G	100ml P	Ziplock P	Misc. Misc.
Pres.		HCl	Na2S2O3		HCl	H2SO4	HNO3		H2SO4	HNO3	ZnAc2 NaOH	NaOH		HNO3		HCl	H2SO4	HNO3			HNO3		HCl	H2SO4					Sodium Thiosulfate		
Req. pH	N/A	<2	N/A	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	<2	N/A	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A		N/A
Sample #	-	-		-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-		-				-	-		-
-001		3				1																									-001
-002		↓																													-002
-003																															-003
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NOTE: VOA pH checks are performed by the analytical area, not sample control

Columbia Analytical Services™

www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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

PAGE 1 OF 1

SR # J1003599

CAS Contact [redacted]

Project Name: JED SWDF	Project Number:
Project Manager: Kirk Wills	Email Address: kwills@enviplanning.com
Company/Address: EPS 1936 Bruce B Downs Blvd #328 Wesley Chapel, FL 33543	
Phone #: 813-388-1026	FAX#:
Sampler's Signature: Joe Terry	Sampler's Printed Name: Joe Terry

ANALYSIS REQUESTED (Include Method Number and [redacted]

PRESERVATIVE: 1 | 3

NUMBER OF CONTAINERS: 8260 | NH_3

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

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	8260	NH_3	1	REMARKS/ ALTERNATE DESCRIPTION
MW-1A		7-29-10	1500	GW	4	3	1	
MW-3A		7-29-10	1425	GW	3	3		
MW-8A		7-29-10	1350	GW	3	3		
MW-12A		7-29-10	1245	GW	3	3		
MW-13A		7-29-10	1145	GW	3	3		
Trip Blank		7-2-10	0800	DI H_2O	2	2		

SPECIAL INSTRUCTIONS/COMMENTS

Cooler ID: 10210 - JED

See QAPP ☐

TURNAROUND REQUIREMENTS

X RUSH (SURCHARGES APPLY)

____ 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: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Joe Terry	Signature: Shawn Lightsey	Signature	Signature	Signature	Signature
Printed Name: Joe Terry	Printed Name: Shawn Lightsey	Printed Name	Printed Name	Printed Name	Printed Name
Firm: EPS	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 7-29-10/1600	Date/Time: 7-30-10 0930	Date/Time	Date/Time	Date/Time	Date/Time

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

JSCOC-06/20/08