

June 02, 2011

Service Request No: J1102198

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 18, 2011. For your reference, these analyses have been assigned our service request number **J1102198**.

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. This report shall not be reproduced except in full without written approval of the laboratory, as all results are intended to be considered in their entirety, and Columbia Analytical Services, Inc.

(CAS) cannot be held responsible for use of the less than the complete report.

Results apply only to the items submitted to the laboratory for analysis and individual items (samples)

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

Page 1 of 73

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: J1102198

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J1102198-001	MW-13A	5/17/11	08:12
J1102198-002	MW-13B	5/17/11	07:45
J1102198-003	MW-12A	5/17/11	11:10
J1102198-004	MW-12B	5/17/11	10:15
J1102198-005	MW-11A	5/17/11	13:05
J1102198-006	MW-11B	5/17/11	13:25
J1102198-007	MW-10A	5/17/11	15:27
J1102198-008	MW-10B	5/17/11	14:50
J1102198-009	Trip Blank	5/17/11	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-13A
Lab Code: J1102198-001

Service Request: J1102198
Date Collected: 5/17/11 0812
Date Received: 5/18/11

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/27/11 13:41		247970	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/27/11 13:41		247970	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/27/11 13:41		247970	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/27/11 13:41		247970	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/27/11 13:41		247970	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/27/11 13:41		247970	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/27/11 13:41		247970	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/27/11 13:41		247970	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/27/11 13:41		247970	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/27/11 13:41		247970	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/27/11 13:41		247970	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/27/11 13:41		247970	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 13:41		247970	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/27/11 13:41		247970	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/27/11 13:41		247970	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/27/11 13:41		247970	
Acetone	ND	U	50.0	5.60	1	NA	5/27/11 13:41		247970	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/27/11 13:41		247970	
Benzene	1.28		1.00	0.210	1	NA	5/27/11 13:41		247970	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/27/11 13:41		247970	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/27/11 13:41		247970	
Bromoform	ND	U	2.00	0.420	1	NA	5/27/11 13:41		247970	
Bromomethane	ND	U	1.00	0.230	1	NA	5/27/11 13:41		247970	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/27/11 13:41		247970	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/27/11 13:41		247970	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 13:41		247970	
Chloroethane	ND	U	5.00	0.520	1	NA	5/27/11 13:41		247970	
Chloroform	ND	U	1.00	0.350	1	NA	5/27/11 13:41		247970	
Chloromethane	ND	U	1.00	0.360	1	NA	5/27/11 13:41		247970	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/27/11 13:41		247970	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/27/11 13:41		247970	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/27/11 13:41		247970	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/27/11 13:41		247970	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/27/11 13:41		247970	
Iodomethane	ND	U	5.00	2.68	1	NA	5/27/11 13:41		247970	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/27/11 13:41		247970	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-13A
Lab Code: J1102198-001

Service Request: J1102198
Date Collected: 5/17/11 0812
Date Received: 5/18/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/27/11 13:41		247970	
o-Xylene	ND	U	1.00	0.140	1	NA	5/27/11 13:41		247970	
Styrene	ND	U	1.00	0.290	1	NA	5/27/11 13:41		247970	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/27/11 13:41		247970	
Toluene	ND	U	1.00	0.190	1	NA	5/27/11 13:41		247970	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/27/11 13:41		247970	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/27/11 13:41		247970	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/27/11 13:41		247970	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/27/11 13:41		247970	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/27/11 13:41		247970	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/27/11 13:41		247970	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/27/11 13:41		247970	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	95	68-118	5/27/11 13:41	
4-Bromofluorobenzene	105	78-129	5/27/11 13:41	
Dibromofluoromethane	96	80-114	5/27/11 13:41	
Toluene-d8	103	87-118	5/27/11 13:41	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-13B
Lab Code: J1102198-002

Service Request: J1102198
Date Collected: 5/17/11 0745
Date Received: 5/18/11

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/27/11 14:11		247970	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/27/11 14:11		247970	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/27/11 14:11		247970	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/27/11 14:11		247970	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/27/11 14:11		247970	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/27/11 14:11		247970	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/27/11 14:11		247970	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/27/11 14:11		247970	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/27/11 14:11		247970	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/27/11 14:11		247970	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/27/11 14:11		247970	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/27/11 14:11		247970	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 14:11		247970	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/27/11 14:11		247970	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/27/11 14:11		247970	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/27/11 14:11		247970	
Acetone	ND	U	50.0	5.60	1	NA	5/27/11 14:11		247970	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/27/11 14:11		247970	
Benzene	ND	U	1.00	0.210	1	NA	5/27/11 14:11		247970	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/27/11 14:11		247970	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/27/11 14:11		247970	
Bromoform	ND	U	2.00	0.420	1	NA	5/27/11 14:11		247970	
Bromomethane	ND	U	1.00	0.230	1	NA	5/27/11 14:11		247970	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/27/11 14:11		247970	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/27/11 14:11		247970	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 14:11		247970	
Chloroethane	ND	U	5.00	0.520	1	NA	5/27/11 14:11		247970	
Chloroform	ND	U	1.00	0.350	1	NA	5/27/11 14:11		247970	
Chloromethane	ND	U	1.00	0.360	1	NA	5/27/11 14:11		247970	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/27/11 14:11		247970	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/27/11 14:11		247970	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/27/11 14:11		247970	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/27/11 14:11		247970	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/27/11 14:11		247970	
Iodomethane	ND	U	5.00	2.68	1	NA	5/27/11 14:11		247970	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/27/11 14:11		247970	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-13B
Lab Code: J1102198-002

Service Request: J1102198
Date Collected: 5/17/11 0745
Date Received: 5/18/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/27/11 14:11		247970	
o-Xylene	ND	U	1.00	0.140	1	NA	5/27/11 14:11		247970	
Styrene	ND	U	1.00	0.290	1	NA	5/27/11 14:11		247970	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/27/11 14:11		247970	
Toluene	ND	U	1.00	0.190	1	NA	5/27/11 14:11		247970	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/27/11 14:11		247970	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/27/11 14:11		247970	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/27/11 14:11		247970	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/27/11 14:11		247970	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/27/11 14:11		247970	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/27/11 14:11		247970	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/27/11 14:11		247970	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	95	68-118	5/27/11 14:11	
4-Bromofluorobenzene	107	78-129	5/27/11 14:11	
Dibromofluoromethane	97	80-114	5/27/11 14:11	
Toluene-d8	97	87-118	5/27/11 14:11	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-12A
Lab Code: J1102198-003

Service Request: J1102198
Date Collected: 5/17/11 1110
Date Received: 5/18/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/27/11 14:41		247970	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/27/11 14:41		247970	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/27/11 14:41		247970	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/27/11 14:41		247970	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/27/11 14:41		247970	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/27/11 14:41		247970	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/27/11 14:41		247970	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/27/11 14:41		247970	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/27/11 14:41		247970	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/27/11 14:41		247970	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/27/11 14:41		247970	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/27/11 14:41		247970	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 14:41		247970	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/27/11 14:41		247970	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/27/11 14:41		247970	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/27/11 14:41		247970	
Acetone	ND	U	50.0	5.60	1	NA	5/27/11 14:41		247970	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/27/11 14:41		247970	
Benzene	2.69		1.00	0.210	1	NA	5/27/11 14:41		247970	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/27/11 14:41		247970	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/27/11 14:41		247970	
Bromoform	ND	U	2.00	0.420	1	NA	5/27/11 14:41		247970	
Bromomethane	ND	U	1.00	0.230	1	NA	5/27/11 14:41		247970	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/27/11 14:41		247970	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/27/11 14:41		247970	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 14:41		247970	
Chloroethane	ND	U	5.00	0.520	1	NA	5/27/11 14:41		247970	
Chloroform	ND	U	1.00	0.350	1	NA	5/27/11 14:41		247970	
Chloromethane	ND	U	1.00	0.360	1	NA	5/27/11 14:41		247970	
cis-1,2-Dichloroethene	0.610	I	1.00	0.360	1	NA	5/27/11 14:41		247970	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/27/11 14:41		247970	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/27/11 14:41		247970	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/27/11 14:41		247970	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/27/11 14:41		247970	
Iodomethane	ND	U	5.00	2.68	1	NA	5/27/11 14:41		247970	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/27/11 14:41		247970	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-12A
Lab Code: J1102198-003

Service Request: J1102198
Date Collected: 5/17/11 1110
Date Received: 5/18/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/27/11 14:41		247970	
o-Xylene	ND	U	1.00	0.140	1	NA	5/27/11 14:41		247970	
Styrene	ND	U	1.00	0.290	1	NA	5/27/11 14:41		247970	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/27/11 14:41		247970	
Toluene	ND	U	1.00	0.190	1	NA	5/27/11 14:41		247970	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/27/11 14:41		247970	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/27/11 14:41		247970	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/27/11 14:41		247970	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/27/11 14:41		247970	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/27/11 14:41		247970	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/27/11 14:41		247970	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/27/11 14:41		247970	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	95	68-118	5/27/11 14:41	
4-Bromofluorobenzene	113	78-129	5/27/11 14:41	
Dibromofluoromethane	94	80-114	5/27/11 14:41	
Toluene-d8	95	87-118	5/27/11 14:41	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-12B
Lab Code: J1102198-004

Service Request: J1102198
Date Collected: 5/17/11 1015
Date Received: 5/18/11

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/27/11 15:10		247970	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/27/11 15:10		247970	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/27/11 15:10		247970	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/27/11 15:10		247970	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/27/11 15:10		247970	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/27/11 15:10		247970	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/27/11 15:10		247970	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/27/11 15:10		247970	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/27/11 15:10		247970	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/27/11 15:10		247970	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/27/11 15:10		247970	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/27/11 15:10		247970	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 15:10		247970	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/27/11 15:10		247970	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/27/11 15:10		247970	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/27/11 15:10		247970	
Acetone	ND	U	50.0	5.60	1	NA	5/27/11 15:10		247970	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/27/11 15:10		247970	
Benzene	ND	U	1.00	0.210	1	NA	5/27/11 15:10		247970	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/27/11 15:10		247970	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/27/11 15:10		247970	
Bromoform	ND	U	2.00	0.420	1	NA	5/27/11 15:10		247970	
Bromomethane	ND	U	1.00	0.230	1	NA	5/27/11 15:10		247970	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/27/11 15:10		247970	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/27/11 15:10		247970	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 15:10		247970	
Chloroethane	ND	U	5.00	0.520	1	NA	5/27/11 15:10		247970	
Chloroform	ND	U	1.00	0.350	1	NA	5/27/11 15:10		247970	
Chloromethane	ND	U	1.00	0.360	1	NA	5/27/11 15:10		247970	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/27/11 15:10		247970	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/27/11 15:10		247970	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/27/11 15:10		247970	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/27/11 15:10		247970	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/27/11 15:10		247970	
Iodomethane	ND	U	5.00	2.68	1	NA	5/27/11 15:10		247970	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/27/11 15:10		247970	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-12B
Lab Code: J1102198-004

Service Request: J1102198
Date Collected: 5/17/11 1015
Date Received: 5/18/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/27/11 15:10		247970	
o-Xylene	ND	U	1.00	0.140	1	NA	5/27/11 15:10		247970	
Styrene	ND	U	1.00	0.290	1	NA	5/27/11 15:10		247970	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/27/11 15:10		247970	
Toluene	ND	U	1.00	0.190	1	NA	5/27/11 15:10		247970	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/27/11 15:10		247970	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/27/11 15:10		247970	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/27/11 15:10		247970	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/27/11 15:10		247970	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/27/11 15:10		247970	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/27/11 15:10		247970	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/27/11 15:10		247970	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	93	68-118	5/27/11 15:10	
4-Bromofluorobenzene	110	78-129	5/27/11 15:10	
Dibromofluoromethane	94	80-114	5/27/11 15:10	
Toluene-d8	102	87-118	5/27/11 15:10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
 Project: JED SWDF
 Sample Matrix: Water
 Sample Name: MW-11A
 Lab Code: J1102198-005

Service Request: J1102198
 Date Collected: 5/17/11 1305
 Date Received: 5/18/11
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/27/11 15:40		247970	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/27/11 15:40		247970	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/27/11 15:40		247970	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/27/11 15:40		247970	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/27/11 15:40		247970	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/27/11 15:40		247970	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/27/11 15:40		247970	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/27/11 15:40		247970	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/27/11 15:40		247970	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/27/11 15:40		247970	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/27/11 15:40		247970	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/27/11 15:40		247970	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 15:40		247970	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/27/11 15:40		247970	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/27/11 15:40		247970	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/27/11 15:40		247970	
Acetone	ND	U	50.0	5.60	1	NA	5/27/11 15:40		247970	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/27/11 15:40		247970	
Benzene	0.730	I	1.00	0.210	1	NA	5/27/11 15:40		247970	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/27/11 15:40		247970	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/27/11 15:40		247970	
Bromoform	ND	U	2.00	0.420	1	NA	5/27/11 15:40		247970	
Bromomethane	ND	U	1.00	0.230	1	NA	5/27/11 15:40		247970	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/27/11 15:40		247970	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/27/11 15:40		247970	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 15:40		247970	
Chloroethane	ND	U	5.00	0.520	1	NA	5/27/11 15:40		247970	
Chloroform	ND	U	1.00	0.350	1	NA	5/27/11 15:40		247970	
Chloromethane	ND	U	1.00	0.360	1	NA	5/27/11 15:40		247970	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/27/11 15:40		247970	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/27/11 15:40		247970	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/27/11 15:40		247970	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/27/11 15:40		247970	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/27/11 15:40		247970	
Iodomethane	ND	U	5.00	2.68	1	NA	5/27/11 15:40		247970	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/27/11 15:40		247970	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-11A
Lab Code: J1102198-005

Service Request: J1102198
Date Collected: 5/17/11 1305
Date Received: 5/18/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/27/11 15:40		247970	
o-Xylene	ND	U	1.00	0.140	1	NA	5/27/11 15:40		247970	
Styrene	ND	U	1.00	0.290	1	NA	5/27/11 15:40		247970	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/27/11 15:40		247970	
Toluene	ND	U	1.00	0.190	1	NA	5/27/11 15:40		247970	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/27/11 15:40		247970	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/27/11 15:40		247970	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/27/11 15:40		247970	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/27/11 15:40		247970	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/27/11 15:40		247970	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/27/11 15:40		247970	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/27/11 15:40		247970	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	101	68-118	5/27/11 15:40	
4-Bromofluorobenzene	117	78-129	5/27/11 15:40	
Dibromofluoromethane	98	80-114	5/27/11 15:40	
Toluene-d8	97	87-118	5/27/11 15:40	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-11B
Lab Code: J1102198-006

Service Request: J1102198
Date Collected: 5/17/11 1325
Date Received: 5/18/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/27/11 16:10		247970	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/27/11 16:10		247970	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/27/11 16:10		247970	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/27/11 16:10		247970	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/27/11 16:10		247970	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/27/11 16:10		247970	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/27/11 16:10		247970	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/27/11 16:10		247970	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/27/11 16:10		247970	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/27/11 16:10		247970	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/27/11 16:10		247970	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/27/11 16:10		247970	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 16:10		247970	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/27/11 16:10		247970	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/27/11 16:10		247970	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/27/11 16:10		247970	
Acetone	ND	U	50.0	5.60	1	NA	5/27/11 16:10		247970	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/27/11 16:10		247970	
Benzene	ND	U	1.00	0.210	1	NA	5/27/11 16:10		247970	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/27/11 16:10		247970	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/27/11 16:10		247970	
Bromoform	ND	U	2.00	0.420	1	NA	5/27/11 16:10		247970	
Bromomethane	ND	U	1.00	0.230	1	NA	5/27/11 16:10		247970	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/27/11 16:10		247970	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/27/11 16:10		247970	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 16:10		247970	
Chloroethane	ND	U	5.00	0.520	1	NA	5/27/11 16:10		247970	
Chloroform	ND	U	1.00	0.350	1	NA	5/27/11 16:10		247970	
Chloromethane	ND	U	1.00	0.360	1	NA	5/27/11 16:10		247970	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/27/11 16:10		247970	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/27/11 16:10		247970	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/27/11 16:10		247970	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/27/11 16:10		247970	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/27/11 16:10		247970	
Iodomethane	ND	U	5.00	2.68	1	NA	5/27/11 16:10		247970	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/27/11 16:10		247970	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-11B
Lab Code: J1102198-006

Service Request: J1102198
Date Collected: 5/17/11 1325
Date Received: 5/18/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/27/11 16:10		247970	
o-Xylene	ND	U	1.00	0.140	1	NA	5/27/11 16:10		247970	
Styrene	ND	U	1.00	0.290	1	NA	5/27/11 16:10		247970	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/27/11 16:10		247970	
Toluene	ND	U	1.00	0.190	1	NA	5/27/11 16:10		247970	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/27/11 16:10		247970	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/27/11 16:10		247970	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/27/11 16:10		247970	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/27/11 16:10		247970	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/27/11 16:10		247970	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/27/11 16:10		247970	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/27/11 16:10		247970	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	103	68-118	5/27/11 16:10	
4-Bromofluorobenzene	113	78-129	5/27/11 16:10	
Dibromofluoromethane	102	80-114	5/27/11 16:10	
Toluene-d8	99	87-118	5/27/11 16:10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-10A
Lab Code: J1102198-007

Service Request: J1102198
Date Collected: 5/17/11 1527
Date Received: 5/18/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/27/11 16:40		247970	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/27/11 16:40		247970	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/27/11 16:40		247970	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/27/11 16:40		247970	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/27/11 16:40		247970	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/27/11 16:40		247970	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/27/11 16:40		247970	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/27/11 16:40		247970	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/27/11 16:40		247970	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/27/11 16:40		247970	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/27/11 16:40		247970	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/27/11 16:40		247970	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 16:40		247970	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/27/11 16:40		247970	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/27/11 16:40		247970	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/27/11 16:40		247970	
Acetone	ND	U	50.0	5.60	1	NA	5/27/11 16:40		247970	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/27/11 16:40		247970	
Benzene	0.790	I	1.00	0.210	1	NA	5/27/11 16:40		247970	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/27/11 16:40		247970	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/27/11 16:40		247970	
Bromoform	ND	U	2.00	0.420	1	NA	5/27/11 16:40		247970	
Bromomethane	ND	U	1.00	0.230	1	NA	5/27/11 16:40		247970	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/27/11 16:40		247970	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/27/11 16:40		247970	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 16:40		247970	
Chloroethane	ND	U	5.00	0.520	1	NA	5/27/11 16:40		247970	
Chloroform	ND	U	1.00	0.350	1	NA	5/27/11 16:40		247970	
Chloromethane	ND	U	1.00	0.360	1	NA	5/27/11 16:40		247970	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/27/11 16:40		247970	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/27/11 16:40		247970	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/27/11 16:40		247970	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/27/11 16:40		247970	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/27/11 16:40		247970	
Iodomethane	ND	U	5.00	2.68	1	NA	5/27/11 16:40		247970	
m,p-Xylenes	0.760	I	2.00	0.310	1	NA	5/27/11 16:40		247970	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-10A
Lab Code: J1102198-007

Service Request: J1102198
Date Collected: 5/17/11 1527
Date Received: 5/18/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/27/11 16:40		247970	
o-Xylene	0.240	I	1.00	0.140	1	NA	5/27/11 16:40		247970	
Styrene	ND	U	1.00	0.290	1	NA	5/27/11 16:40		247970	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/27/11 16:40		247970	
Toluene	ND	U	1.00	0.190	1	NA	5/27/11 16:40		247970	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/27/11 16:40		247970	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/27/11 16:40		247970	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/27/11 16:40		247970	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/27/11 16:40		247970	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/27/11 16:40		247970	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/27/11 16:40		247970	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/27/11 16:40		247970	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	107	68-118	5/27/11 16:40	
4-Bromofluorobenzene	114	78-129	5/27/11 16:40	
Dibromofluoromethane	105	80-114	5/27/11 16:40	
Toluene-d8	98	87-118	5/27/11 16:40	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-10B
Lab Code: J1102198-008

Service Request: J1102198
Date Collected: 5/17/11 1450
Date Received: 5/18/11

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/27/11 17:09		247970	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/27/11 17:09		247970	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/27/11 17:09		247970	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/27/11 17:09		247970	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/27/11 17:09		247970	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/27/11 17:09		247970	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/27/11 17:09		247970	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/27/11 17:09		247970	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/27/11 17:09		247970	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/27/11 17:09		247970	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/27/11 17:09		247970	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/27/11 17:09		247970	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 17:09		247970	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/27/11 17:09		247970	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/27/11 17:09		247970	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/27/11 17:09		247970	
Acetone	ND	U	50.0	5.60	1	NA	5/27/11 17:09		247970	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/27/11 17:09		247970	
Benzene	ND	U	1.00	0.210	1	NA	5/27/11 17:09		247970	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/27/11 17:09		247970	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/27/11 17:09		247970	
Bromoform	ND	U	2.00	0.420	1	NA	5/27/11 17:09		247970	
Bromomethane	ND	U	1.00	0.230	1	NA	5/27/11 17:09		247970	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/27/11 17:09		247970	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/27/11 17:09		247970	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 17:09		247970	
Chloroethane	ND	U	5.00	0.520	1	NA	5/27/11 17:09		247970	
Chloroform	ND	U	1.00	0.350	1	NA	5/27/11 17:09		247970	
Chloromethane	ND	U	1.00	0.360	1	NA	5/27/11 17:09		247970	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/27/11 17:09		247970	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/27/11 17:09		247970	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/27/11 17:09		247970	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/27/11 17:09		247970	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/27/11 17:09		247970	
Iodomethane	ND	U	5.00	2.68	1	NA	5/27/11 17:09		247970	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/27/11 17:09		247970	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-10B
Lab Code: J1102198-008

Service Request: J1102198
Date Collected: 5/17/11 1450
Date Received: 5/18/11

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/27/11 17:09		247970	
o-Xylene	ND	U	1.00	0.140	1	NA	5/27/11 17:09		247970	
Styrene	ND	U	1.00	0.290	1	NA	5/27/11 17:09		247970	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/27/11 17:09		247970	
Toluene	ND	U	1.00	0.190	1	NA	5/27/11 17:09		247970	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/27/11 17:09		247970	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/27/11 17:09		247970	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/27/11 17:09		247970	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/27/11 17:09		247970	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/27/11 17:09		247970	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/27/11 17:09		247970	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/27/11 17:09		247970	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	95	68-118	5/27/11 17:09	
4-Bromofluorobenzene	111	78-129	5/27/11 17:09	
Dibromofluoromethane	97	80-114	5/27/11 17:09	
Toluene-d8	99	87-118	5/27/11 17:09	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Trip Blank
Lab Code: J1102198-009

Service Request: J1102198
Date Collected: 5/17/11 0000
Date Received: 5/18/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/27/11 17:39		247970	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/27/11 17:39		247970	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/27/11 17:39		247970	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/27/11 17:39		247970	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/27/11 17:39		247970	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/27/11 17:39		247970	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/27/11 17:39		247970	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/27/11 17:39		247970	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/27/11 17:39		247970	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/27/11 17:39		247970	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/27/11 17:39		247970	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/27/11 17:39		247970	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 17:39		247970	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/27/11 17:39		247970	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/27/11 17:39		247970	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/27/11 17:39		247970	
Acetone	ND	U	50.0	5.60	1	NA	5/27/11 17:39		247970	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/27/11 17:39		247970	
Benzene	ND	U	1.00	0.210	1	NA	5/27/11 17:39		247970	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/27/11 17:39		247970	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/27/11 17:39		247970	
Bromoform	ND	U	2.00	0.420	1	NA	5/27/11 17:39		247970	
Bromomethane	ND	U	1.00	0.230	1	NA	5/27/11 17:39		247970	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/27/11 17:39		247970	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/27/11 17:39		247970	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 17:39		247970	
Chloroethane	ND	U	5.00	0.520	1	NA	5/27/11 17:39		247970	
Chloroform	ND	U	1.00	0.350	1	NA	5/27/11 17:39		247970	
Chloromethane	ND	U	1.00	0.360	1	NA	5/27/11 17:39		247970	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/27/11 17:39		247970	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/27/11 17:39		247970	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/27/11 17:39		247970	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/27/11 17:39		247970	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/27/11 17:39		247970	
Iodomethane	ND	U	5.00	2.68	1	NA	5/27/11 17:39		247970	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/27/11 17:39		247970	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Trip Blank
Lab Code: J1102198-009

Service Request: J1102198
Date Collected: 5/17/11 0000
Date Received: 5/18/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/27/11 17:39		247970	
o-Xylene	ND	U	1.00	0.140	1	NA	5/27/11 17:39		247970	
Styrene	ND	U	1.00	0.290	1	NA	5/27/11 17:39		247970	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/27/11 17:39		247970	
Toluene	ND	U	1.00	0.190	1	NA	5/27/11 17:39		247970	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/27/11 17:39		247970	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/27/11 17:39		247970	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/27/11 17:39		247970	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/27/11 17:39		247970	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/27/11 17:39		247970	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/27/11 17:39		247970	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/27/11 17:39		247970	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	101	68-118	5/27/11 17:39	
4-Bromofluorobenzene	114	78-129	5/27/11 17:39	
Dibromofluoromethane	99	80-114	5/27/11 17:39	
Toluene-d8	97	87-118	5/27/11 17:39	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: JQ1102964-02

Service Request: J1102198
Date Collected: NA
Date Received: NA
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/27/11 13:11		247970	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/27/11 13:11		247970	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/27/11 13:11		247970	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/27/11 13:11		247970	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/27/11 13:11		247970	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/27/11 13:11		247970	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/27/11 13:11		247970	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/27/11 13:11		247970	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/27/11 13:11		247970	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/27/11 13:11		247970	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/27/11 13:11		247970	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/27/11 13:11		247970	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 13:11		247970	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/27/11 13:11		247970	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/27/11 13:11		247970	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/27/11 13:11		247970	
Acetone	ND	U	50.0	5.60	1	NA	5/27/11 13:11		247970	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/27/11 13:11		247970	
Benzene	ND	U	1.00	0.210	1	NA	5/27/11 13:11		247970	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/27/11 13:11		247970	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/27/11 13:11		247970	
Bromoform	ND	U	2.00	0.420	1	NA	5/27/11 13:11		247970	
Bromomethane	ND	U	1.00	0.230	1	NA	5/27/11 13:11		247970	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/27/11 13:11		247970	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/27/11 13:11		247970	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 13:11		247970	
Chloroethane	ND	U	5.00	0.520	1	NA	5/27/11 13:11		247970	
Chloroform	ND	U	1.00	0.350	1	NA	5/27/11 13:11		247970	
Chloromethane	ND	U	1.00	0.360	1	NA	5/27/11 13:11		247970	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/27/11 13:11		247970	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/27/11 13:11		247970	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/27/11 13:11		247970	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/27/11 13:11		247970	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/27/11 13:11		247970	
Iodomethane	ND	U	5.00	2.68	1	NA	5/27/11 13:11		247970	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/27/11 13:11		247970	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: JQ1102964-02

Service Request: J1102198
Date Collected: NA
Date Received: NA
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/27/11 13:11		247970	
o-Xylene	ND	U	1.00	0.140	1	NA	5/27/11 13:11		247970	
Styrene	ND	U	1.00	0.290	1	NA	5/27/11 13:11		247970	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/27/11 13:11		247970	
Toluene	ND	U	1.00	0.190	1	NA	5/27/11 13:11		247970	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/27/11 13:11		247970	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/27/11 13:11		247970	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/27/11 13:11		247970	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/27/11 13:11		247970	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/27/11 13:11		247970	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/27/11 13:11		247970	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/27/11 13:11		247970	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	95	68-118	5/27/11 13:11	
4-Bromofluorobenzene	105	78-129	5/27/11 13:11	
Dibromofluoromethane	93	80-114	5/27/11 13:11	
Toluene-d8	99	87-118	5/27/11 13:11	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102198
Date Collected: 05/17/2011
Date Received: 05/18/2011

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

Sample Name: MW-13A
Lab Code: J1102198-001
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/25/11	05/26/11	JWG1101220	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00040	1	05/25/11	05/26/11	JWG1101220	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	112	77-150	05/26/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102198
Date Collected: 05/17/2011
Date Received: 05/18/2011

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

Sample Name: MW-13B
Lab Code: J1102198-002
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/25/11	05/26/11	JWG1101220	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00039	1	05/25/11	05/26/11	JWG1101220	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	103	77-150	05/26/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102198
Date Collected: 05/17/2011
Date Received: 05/18/2011

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

Sample Name: MW-12A
Lab Code: J1102198-003
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/25/11	05/26/11	JWG1101220	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00040	1	05/25/11	05/26/11	JWG1101220	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	105	77-150	05/26/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102198
Date Collected: 05/17/2011
Date Received: 05/18/2011

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

Sample Name: MW-12B
Lab Code: J1102198-004
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/25/11	05/26/11	JWG1101220	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00039	1	05/25/11	05/26/11	JWG1101220	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	98	77-150	05/26/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102198
Date Collected: 05/17/2011
Date Received: 05/18/2011

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

Sample Name: MW-11A
Lab Code: J1102198-005
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/25/11	05/26/11	JWG1101220	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00039	1	05/25/11	05/26/11	JWG1101220	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	111	77-150	05/26/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102198
Date Collected: 05/17/2011
Date Received: 05/18/2011

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

Sample Name: MW-11B
Lab Code: J1102198-006
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/25/11	05/26/11	JWG1101220	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00039	1	05/25/11	05/26/11	JWG1101220	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	108	77-150	05/26/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102198
Date Collected: 05/17/2011
Date Received: 05/18/2011

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

Sample Name: MW-10A
Lab Code: J1102198-007
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/25/11	05/27/11	JWG1101220	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00039	1	05/25/11	05/27/11	JWG1101220	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	114	77-150	05/27/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102198
Date Collected: 05/17/2011
Date Received: 05/18/2011

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

Sample Name: MW-10B
Lab Code: J1102198-008
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/25/11	05/27/11	JWG1101220	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00039	1	05/25/11	05/27/11	JWG1101220	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	95	77-150	05/27/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102198
Date Collected: NA
Date Received: NA

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

Sample Name: Method Blank
Lab Code: JWG1101220-4
Extraction Method: METHOD
Analysis Method: 8011

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	0.020	0.00014	1	05/25/11	05/26/11	JWG1101220	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.020	0.00038	1	05/25/11	05/26/11	JWG1101220	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	103	77-150	05/26/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-13A
Lab Code: J1102198-001

Service Request: J1102198
Date Collected: 5/17/11 0812
Date Received: 5/18/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND U	µg/L	2.0	0.2	1	5/19/11	5/24/11 18:03	
Arsenic, Total Recoverable	6020	21.3	µg/L	0.50	0.40	1	5/19/11	5/24/11 18:03	
Barium, Total Recoverable	6020	8.8	µg/L	2.0	0.3	1	5/19/11	5/24/11 18:03	
Beryllium, Total Recoverable	6020	ND U	µg/L	1.0	0.2	1	5/19/11	5/24/11 18:03	
Cadmium, Total Recoverable	6020	ND U	µg/L	0.50	0.30	1	5/19/11	5/24/11 18:03	
Chromium, Total Recoverable	6020	3.3	µg/L	2.0	0.3	1	5/19/11	5/24/11 18:03	
Cobalt, Total Recoverable	6020	0.5 I	µg/L	1.0	0.08	1	5/19/11	5/24/11 18:03	
Copper, Total Recoverable	6020	ND U	µg/L	2.0	1.0	1	5/19/11	5/24/11 18:03	
Iron, Total Recoverable	6010B	20500	µg/L	100	20	1	5/24/11	5/27/11 19:49	
Lead, Total Recoverable	6020	ND U	µg/L	1.0	0.06	1	5/19/11	5/24/11 18:03	
Mercury, Total	7470A	ND U	µg/L	0.20	0.02	1	5/24/11	5/24/11 16:47	
Nickel, Total Recoverable	6020	1.0 I	µg/L	2.0	0.2	1	5/19/11	5/24/11 18:03	
Selenium, Total Recoverable	6020	2.0 I	µg/L	5.0	1.0	1	5/19/11	5/24/11 18:03	
Silver, Total Recoverable	6020	ND U	µg/L	0.50	0.07	1	5/19/11	5/24/11 18:03	
Sodium, Total Recoverable	6010B	7.44	mg/L	0.50	0.02	1	5/24/11	5/27/11 19:49	
Thallium, Total Recoverable	6020	ND U	µg/L	1.0	0.03	1	5/19/11	5/24/11 18:03	
Vanadium, Total Recoverable	6020	3.8 I	µg/L	5.0	0.5	1	5/19/11	5/24/11 18:03	
Zinc, Total Recoverable	6020	ND U	µg/L	10	1	1	5/19/11	5/24/11 18:03	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-13B
Lab Code: J1102198-002

Service Request: J1102198
Date Collected: 5/17/11 0745
Date Received: 5/18/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	0.3	I	µg/L	2.0	0.2	1	5/19/11	5/24/11 18:50	
Arsenic, Total Recoverable	6020	ND	U	µg/L	0.50	0.40	1	5/19/11	5/24/11 18:50	
Barium, Total Recoverable	6020	16.6		µg/L	2.0	0.3	1	5/19/11	5/24/11 18:50	
Beryllium, Total Recoverable	6020	ND	U	µg/L	1.0	0.2	1	5/19/11	5/24/11 18:50	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/19/11	5/24/11 18:50	
Chromium, Total Recoverable	6020	1.1	I	µg/L	2.0	0.3	1	5/19/11	5/24/11 18:50	
Cobalt, Total Recoverable	6020	0.2	I	µg/L	1.0	0.08	1	5/19/11	5/24/11 18:50	
Copper, Total Recoverable	6020	3.8		µg/L	2.0	1.0	1	5/19/11	5/24/11 18:50	
Iron, Total Recoverable	6010B	1110		µg/L	100	20	1	5/24/11	5/27/11 19:54	
Lead, Total Recoverable	6020	1.4		µg/L	1.0	0.06	1	5/19/11	5/24/11 18:50	
Mercury, Total	7470A	0.19	I	µg/L	0.20	0.02	1	5/24/11	5/24/11 16:49	
Nickel, Total Recoverable	6020	4.3		µg/L	2.0	0.2	1	5/19/11	5/24/11 18:50	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/19/11	5/24/11 18:50	
Silver, Total Recoverable	6020	ND	U	µg/L	0.50	0.07	1	5/19/11	5/24/11 18:50	
Sodium, Total Recoverable	6010B	8.76		mg/L	0.50	0.02	1	5/24/11	5/27/11 19:54	
Thallium, Total Recoverable	6020	0.2	I	µg/L	1.0	0.03	1	5/19/11	5/24/11 18:50	
Vanadium, Total Recoverable	6020	1.1	I	µg/L	5.0	0.5	1	5/19/11	5/24/11 18:50	
Zinc, Total Recoverable	6020	4	I	µg/L	10	1	1	5/19/11	5/24/11 18:50	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-12A
Lab Code: J1102198-003

Service Request: J1102198
Date Collected: 5/17/11 1110
Date Received: 5/18/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/19/11	5/24/11 18:55	
Arsenic, Total Recoverable	6020	5.27		µg/L	0.50	0.40	1	5/19/11	5/24/11 18:55	
Barium, Total Recoverable	6020	15.4		µg/L	2.0	0.3	1	5/19/11	5/24/11 18:55	
Beryllium, Total Recoverable	6020	ND	U	µg/L	1.0	0.2	1	5/19/11	5/24/11 18:55	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/19/11	5/24/11 18:55	
Chromium, Total Recoverable	6020	2.0	I	µg/L	2.0	0.3	1	5/19/11	5/24/11 18:55	
Cobalt, Total Recoverable	6020	1.2		µg/L	1.0	0.08	1	5/19/11	5/24/11 18:55	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/19/11	5/24/11 18:55	
Iron, Total Recoverable	6010B	29000		µg/L	100	20	1	5/24/11	5/27/11 19:58	
Lead, Total Recoverable	6020	0.6	I	µg/L	1.0	0.06	1	5/19/11	5/24/11 18:55	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/24/11	5/24/11 16:50	
Nickel, Total Recoverable	6020	1.5	I	µg/L	2.0	0.2	1	5/19/11	5/24/11 18:55	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/19/11	5/24/11 18:55	
Silver, Total Recoverable	6020	ND	U	µg/L	0.50	0.07	1	5/19/11	5/24/11 18:55	
Sodium, Total Recoverable	6010B	10.7		mg/L	0.50	0.02	1	5/24/11	5/27/11 19:58	
Thallium, Total Recoverable	6020	0.05	I	µg/L	1.0	0.03	1	5/19/11	5/24/11 18:55	
Vanadium, Total Recoverable	6020	2.0	I	µg/L	5.0	0.5	1	5/19/11	5/24/11 18:55	
Zinc, Total Recoverable	6020	1	I	µg/L	10	1	1	5/19/11	5/24/11 18:55	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-12B
Lab Code: J1102198-004

Service Request: J1102198
Date Collected: 5/17/11 1015
Date Received: 5/18/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/19/11	5/24/11 19:01	
Arsenic, Total Recoverable	6020	ND	U	µg/L	0.50	0.40	1	5/19/11	5/24/11 19:01	
Barium, Total Recoverable	6020	32.3		µg/L	2.0	0.3	1	5/19/11	5/24/11 19:01	
Beryllium, Total Recoverable	6020	ND	U	µg/L	1.0	0.2	1	5/19/11	5/24/11 19:01	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/19/11	5/24/11 19:01	
Chromium, Total Recoverable	6020	1.2	I	µg/L	2.0	0.3	1	5/19/11	5/24/11 19:01	
Cobalt, Total Recoverable	6020	0.2	I	µg/L	1.0	0.08	1	5/19/11	5/24/11 19:01	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/19/11	5/24/11 19:01	
Iron, Total Recoverable	6010B	1180		µg/L	100	20	1	5/24/11	5/27/11 20:04	
Lead, Total Recoverable	6020	0.2	I	µg/L	1.0	0.06	1	5/19/11	5/24/11 19:01	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/24/11	5/24/11 16:52	
Nickel, Total Recoverable	6020	0.7	I	µg/L	2.0	0.2	1	5/19/11	5/24/11 19:01	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/19/11	5/24/11 19:01	
Silver, Total Recoverable	6020	ND	U	µg/L	0.50	0.07	1	5/19/11	5/24/11 19:01	
Sodium, Total Recoverable	6010B	7.80		mg/L	0.50	0.02	1	5/24/11	5/27/11 20:03	
Thallium, Total Recoverable	6020	0.06	I	µg/L	1.0	0.03	1	5/19/11	5/24/11 19:01	
Vanadium, Total Recoverable	6020	0.7	I	µg/L	5.0	0.5	1	5/19/11	5/24/11 19:01	
Zinc, Total Recoverable	6020	11		µg/L	10	1	1	5/19/11	5/24/11 19:01	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-11A
Lab Code: J1102198-005

Service Request: J1102198
Date Collected: 5/17/11 1305
Date Received: 5/18/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/19/11	5/24/11 19:06	
Arsenic, Total Recoverable	6020	4.37		µg/L	0.50	0.40	1	5/19/11	5/24/11 19:06	
Barium, Total Recoverable	6020	11.3		µg/L	2.0	0.3	1	5/19/11	5/24/11 19:06	
Beryllium, Total Recoverable	6020	ND	U	µg/L	1.0	0.2	1	5/19/11	5/24/11 19:06	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/19/11	5/24/11 19:06	
Chromium, Total Recoverable	6020	3.1		µg/L	2.0	0.3	1	5/19/11	5/24/11 19:06	
Cobalt, Total Recoverable	6020	0.3	I	µg/L	1.0	0.08	1	5/19/11	5/24/11 19:06	
Copper, Total Recoverable	6020	2.5		µg/L	2.0	1.0	1	5/19/11	5/24/11 19:06	
Iron, Total Recoverable	6010B	2170		µg/L	100	20	1	5/24/11	5/27/11 20:08	
Lead, Total Recoverable	6020	1.0	I	µg/L	1.0	0.06	1	5/19/11	5/24/11 19:06	
Mercury, Total	7470A	0.21		µg/L	0.20	0.02	1	5/24/11	5/24/11 16:59	
Nickel, Total Recoverable	6020	1.0	I	µg/L	2.0	0.2	1	5/19/11	5/24/11 19:06	
Selenium, Total Recoverable	6020	3.3	I	µg/L	5.0	1.0	1	5/19/11	5/24/11 19:06	
Silver, Total Recoverable	6020	ND	U	µg/L	0.50	0.07	1	5/19/11	5/24/11 19:06	
Sodium, Total Recoverable	6010B	30.2		mg/L	0.50	0.02	1	5/24/11	5/27/11 20:08	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/19/11	5/24/11 19:06	
Vanadium, Total Recoverable	6020	5.8		µg/L	5.0	0.5	1	5/19/11	5/24/11 19:06	
Zinc, Total Recoverable	6020	2	I	µg/L	10	1	1	5/19/11	5/24/11 19:06	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-11B
Lab Code: J1102198-006

Service Request: J1102198
Date Collected: 5/17/11 1325
Date Received: 5/18/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/19/11	5/24/11 19:11	
Arsenic, Total Recoverable	6020	1.13		µg/L	0.50	0.40	1	5/19/11	5/24/11 19:11	
Barium, Total Recoverable	6020	16.8		µg/L	2.0	0.3	1	5/19/11	5/24/11 19:11	
Beryllium, Total Recoverable	6020	ND	U	µg/L	1.0	0.2	1	5/19/11	5/24/11 19:11	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/19/11	5/24/11 19:11	
Chromium, Total Recoverable	6020	1.7	I	µg/L	2.0	0.3	1	5/19/11	5/24/11 19:11	
Cobalt, Total Recoverable	6020	0.09	I	µg/L	1.0	0.08	1	5/19/11	5/24/11 19:11	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/19/11	5/24/11 19:11	
Iron, Total Recoverable	6010B	500		µg/L	100	20	1	5/24/11	5/27/11 20:30	
Lead, Total Recoverable	6020	0.4	I	µg/L	1.0	0.06	1	5/19/11	5/24/11 19:11	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/24/11	5/24/11 17:03	
Nickel, Total Recoverable	6020	0.2	I	µg/L	2.0	0.2	1	5/19/11	5/24/11 19:11	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/19/11	5/24/11 19:11	
Silver, Total Recoverable	6020	ND	U	µg/L	0.50	0.07	1	5/19/11	5/24/11 19:11	
Sodium, Total Recoverable	6010B	11.8		mg/L	0.50	0.02	1	5/24/11	5/27/11 20:29	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/19/11	5/24/11 19:11	
Vanadium, Total Recoverable	6020	2.9	I	µg/L	5.0	0.5	1	5/19/11	5/24/11 19:11	
Zinc, Total Recoverable	6020	ND	U	µg/L	10	1	1	5/19/11	5/24/11 19:11	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-10A
Lab Code: J1102198-007

Service Request: J1102198
Date Collected: 5/17/11 1527
Date Received: 5/18/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/19/11	5/24/11 19:27	
Arsenic, Total Recoverable	6020	1.85		µg/L	0.50	0.40	1	5/19/11	5/24/11 19:27	
Barium, Total Recoverable	6020	3.7		µg/L	2.0	0.3	1	5/19/11	5/24/11 19:27	
Beryllium, Total Recoverable	6020	ND	U	µg/L	1.0	0.2	1	5/19/11	5/24/11 19:27	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/19/11	5/24/11 19:27	
Chromium, Total Recoverable	6020	3.8		µg/L	2.0	0.3	1	5/19/11	5/24/11 19:27	
Cobalt, Total Recoverable	6020	0.2	I	µg/L	1.0	0.08	1	5/19/11	5/24/11 19:27	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/19/11	5/24/11 19:27	
Iron, Total Recoverable	6010B	1650		µg/L	100	20	1	5/24/11	5/27/11 20:35	
Lead, Total Recoverable	6020	0.2	I	µg/L	1.0	0.06	1	5/19/11	5/24/11 19:27	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/24/11	5/24/11 17:05	
Nickel, Total Recoverable	6020	2.1		µg/L	2.0	0.2	1	5/19/11	5/24/11 19:27	
Selenium, Total Recoverable	6020	1.1	I	µg/L	5.0	1.0	1	5/19/11	5/24/11 19:27	
Silver, Total Recoverable	6020	ND	U	µg/L	0.50	0.07	1	5/19/11	5/24/11 19:27	
Sodium, Total Recoverable	6010B	10.1		mg/L	0.50	0.02	1	5/24/11	5/27/11 20:34	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/19/11	5/24/11 19:27	
Vanadium, Total Recoverable	6020	6.1		µg/L	5.0	0.5	1	5/19/11	5/24/11 19:27	
Zinc, Total Recoverable	6020	ND	U	µg/L	10	1	1	5/19/11	5/24/11 19:27	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-10B
Lab Code: J1102198-008

Service Request: J1102198
Date Collected: 5/17/11 1450
Date Received: 5/18/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/19/11	5/24/11 19:32	
Arsenic, Total Recoverable	6020	0.85		µg/L	0.50	0.40	1	5/19/11	5/24/11 19:32	
Barium, Total Recoverable	6020	71.1		µg/L	2.0	0.3	1	5/19/11	5/24/11 19:32	
Beryllium, Total Recoverable	6020	0.2	I	µg/L	1.0	0.2	1	5/19/11	5/24/11 19:32	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/19/11	5/24/11 19:32	
Chromium, Total Recoverable	6020	1.1	I	µg/L	2.0	0.3	1	5/19/11	5/24/11 19:32	
Cobalt, Total Recoverable	6020	2.4		µg/L	1.0	0.08	1	5/19/11	5/24/11 19:32	
Copper, Total Recoverable	6020	11.5		µg/L	2.0	1.0	1	5/19/11	5/24/11 19:32	
Iron, Total Recoverable	6010B	3380		µg/L	100	20	1	5/24/11	5/27/11 20:52	
Lead, Total Recoverable	6020	1.1		µg/L	1.0	0.06	1	5/19/11	5/24/11 19:32	
Mercury, Total	7470A	0.02	I	µg/L	0.20	0.02	1	5/24/11	5/24/11 17:06	
Nickel, Total Recoverable	6020	79.0		µg/L	2.0	0.2	1	5/19/11	5/24/11 19:32	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/19/11	5/24/11 19:32	
Silver, Total Recoverable	6020	ND	U	µg/L	0.50	0.07	1	5/19/11	5/24/11 19:32	
Sodium, Total Recoverable	6010B	35.9		mg/L	0.50	0.02	1	5/24/11	5/27/11 20:52	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/19/11	5/24/11 19:32	
Vanadium, Total Recoverable	6020	4.0	I	µg/L	5.0	0.5	1	5/19/11	5/24/11 19:32	
Zinc, Total Recoverable	6020	19		µg/L	10	1	1	5/19/11	5/24/11 19:32	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1102198-MB

Service Request: J1102198
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/19/11	5/24/11 17:26	
Arsenic, Total Recoverable	6020	ND	U	µg/L	0.50	0.40	1	5/19/11	5/24/11 17:26	
Barium, Total Recoverable	6020	ND	U	µg/L	2.0	0.3	1	5/19/11	5/24/11 17:26	
Beryllium, Total Recoverable	6020	ND	U	µg/L	1.0	0.2	1	5/19/11	5/24/11 17:26	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/19/11	5/24/11 17:26	
Chromium, Total Recoverable	6020	ND	U	µg/L	2.0	0.3	1	5/19/11	5/24/11 17:26	
Cobalt, Total Recoverable	6020	ND	U	µg/L	1.0	0.08	1	5/19/11	5/24/11 17:26	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/19/11	5/24/11 17:26	
Iron, Total Recoverable	6010B	ND	U	µg/L	100	20	1	5/24/11	5/27/11 18:38	
Lead, Total Recoverable	6020	ND	U	µg/L	1.0	0.06	1	5/19/11	5/24/11 17:26	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/24/11	5/24/11 16:38	
Nickel, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/19/11	5/24/11 17:26	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/19/11	5/24/11 17:26	
Silver, Total Recoverable	6020	ND	U	µg/L	0.50	0.07	1	5/19/11	5/24/11 17:26	
Sodium, Total Recoverable	6010B	0.11	I	mg/L	0.50	0.02	1	5/24/11	5/27/11 18:38	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/19/11	5/24/11 17:26	
Vanadium, Total Recoverable	6020	ND	U	µg/L	5.0	0.5	1	5/19/11	5/24/11 17:26	
Zinc, Total Recoverable	6020	ND	U	µg/L	10	1	1	5/19/11	5/24/11 17:26	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-13A
Lab Code: J1102198-001

Service Request: J1102198
Date Collected: 5/17/11 0812
Date Received: 5/18/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	1.33	mg/L	0.010	0.005	1	NA	5/23/11 11:23	
Chloride	300.0	11.4	mg/L	0.50	0.10	1	NA	5/19/11 02:53	
Nitrate as Nitrogen	300.0	ND U	mg/L	0.20	0.04	1	NA	5/19/11 02:53	
Solids, Total Dissolved	SM 2540 C	117	mg/L	10	10	1	NA	5/20/11 09:12	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-13B
Lab Code: J1102198-002

Service Request: J1102198
Date Collected: 5/17/11 0745
Date Received: 5/18/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	0.120		mg/L	0.010	0.005	1	NA	5/23/11 11:24	
Chloride	300.0	17.8		mg/L	0.50	0.10	1	NA	5/19/11 03:37	
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.04	1	NA	5/19/11 03:37	
Solids, Total Dissolved	SM 2540 C	56		mg/L	10	10	1	NA	5/20/11 09:12	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-12A
Lab Code: J1102198-003

Service Request: J1102198
Date Collected: 5/17/11 1110
Date Received: 5/18/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	1.46		mg/L	0.010	0.005	1	NA	5/23/11 11:25	
Chloride	300.0	21.3		mg/L	0.50	0.10	1	NA	5/19/11 03:52	
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.04	1	NA	5/19/11 03:52	
Solids, Total Dissolved	SM 2540 C	169		mg/L	10	10	1	NA	5/20/11 09:12	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-12B
Lab Code: J1102198-004

Service Request: J1102198
Date Collected: 5/17/11 1015
Date Received: 5/18/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	0.124		mg/L	0.010	0.005	1	NA	5/23/11 11:28	
Chloride	300.0	24.1		mg/L	0.50	0.10	1	NA	5/19/11 04:07	
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.04	1	NA	5/19/11 04:07	
Solids, Total Dissolved	SM 2540 C	76		mg/L	10	10	1	NA	5/20/11 09:12	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-11A
Lab Code: J1102198-005

Service Request: J1102198
Date Collected: 5/17/11 1305
Date Received: 5/18/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	3.53		mg/L	0.010	0.005	1	NA	5/23/11 11:34	
Chloride	300.0	29.2		mg/L	0.50	0.10	1	NA	5/19/11 04:52	
Nitrate as Nitrogen	300.0	0.45		mg/L	0.20	0.04	1	NA	5/19/11 04:52	
Solids, Total Dissolved	SM 2540 C	192		mg/L	10	10	1	NA	5/20/11 09:12	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-11B
Lab Code: J1102198-006

Service Request: J1102198
Date Collected: 5/17/11 1325
Date Received: 5/18/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	0.061		mg/L	0.010	0.005	1	NA	5/23/11 11:35	
Chloride	300.0	15.7		mg/L	0.50	0.10	1	NA	5/19/11 05:07	
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.04	1	NA	5/19/11 05:07	
Solids, Total Dissolved	SM 2540 C	62		mg/L	10	10	1	NA	5/20/11 09:12	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-10A
Lab Code: J1102198-007

Service Request: J1102198
Date Collected: 5/17/11 1527
Date Received: 5/18/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	7.21		mg/L	0.010	0.005	1	NA	5/23/11 11:36	
Chloride	300.0	10.5		mg/L	0.50	0.10	1	NA	5/19/11 05:22	
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.04	1	NA	5/19/11 05:22	
Solids, Total Dissolved	SM 2540 C	157		mg/L	10	10	1	NA	5/20/11 09:12	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-10B
Lab Code: J1102198-008

Service Request: J1102198
Date Collected: 5/17/11 1450
Date Received: 5/18/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	0.369		mg/L	0.010	0.005	1	NA	5/23/11 11:37	
Chloride	300.0	37.4		mg/L	0.50	0.10	1	NA	5/19/11 05:37	
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.04	1	NA	5/19/11 05:37	
Solids, Total Dissolved	SM 2540 C	195		mg/L	10	10	1	NA	5/20/11 09:12	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1102198-MB1

Service Request: J1102198
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	ND	U	mg/L	0.010	0.005	1	NA	5/23/11 10:56	
Chloride	300.0	ND	U	mg/L	0.50	0.10	1	NA	5/18/11 23:08	
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.04	1	NA	5/18/11 23:08	
Solids, Total Dissolved	SM 2540 C	ND	U	mg/L	10	10	1	NA	5/20/11 09:12	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1102198-MB2

Service Request: J1102198
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	ND	U	mg/L	0.010	0.005	1	NA	5/23/11 11:26	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: J1102198

Surrogate Recovery Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: Percent

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>	<u>Sur4</u>
MW-13A	J1102198-001	95	105	96	103
MW-13B	J1102198-002	95	107	97	97
MW-12A	J1102198-003	95	113	94	95
MW-12B	J1102198-004	93	110	94	102
MW-11A	J1102198-005	101	117	98	97
MW-11B	J1102198-006	103	113	102	99
MW-10A	J1102198-007	107	114	105	98
MW-10B	J1102198-008	95	111	97	99
Trip Blank	J1102198-009	101	114	99	97
Method Blank	JQ1102964-02	95	105	93	99
Lab Control Sample	JQ1102964-01	95	103	96	92

Surrogate Recovery Control Limits (%)

Sur1	= 1,2-Dichloroethane-d4	68 - 118
Sur2	= 4-Bromofluorobenzene	78 - 129
Sur3	= Dibromofluoromethane	80 - 114
Sur4	= Toluene-d8	87 - 118

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: J1102198
 Date Analyzed: 5/27/11

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L

Basis: NA

Analysis Lot: 247970

Lab Control Sample JQ1102964-01				
Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	18.9	20.0	94	79 - 120
1,1,1-Trichloroethane (TCA)	16.4	20.0	82	78 - 120
1,1,2,2-Tetrachloroethane	19.9	20.0	99	65 - 137
1,1,2-Trichloroethane	20.0	20.0	100	81 - 121
1,1-Dichloroethane (1,1-DCA)	18.7	20.0	94	83 - 119
1,1-Dichloroethene (1,1-DCE)	17.7	20.0	88	79 - 123
1,2,3-Trichloropropane	19.9	20.0	99	71 - 129
1,2-Dibromo-3-chloropropane (DBCP)	15.7	20.0	79	36 - 143
1,2-Dibromoethane (EDB)	19.6	20.0	98	80 - 122
1,2-Dichlorobenzene	19.1	20.0	95	79 - 114
1,2-Dichloroethane	18.3	20.0	91	73 - 120
1,2-Dichloropropane	20.8	20.0	104	86 - 116
1,4-Dichlorobenzene	18.3	20.0	92	77 - 117
2-Butanone (MEK)	108	100	108	38 - 152
2-Hexanone	103	100	103	63 - 131
4-Methyl-2-pentanone (MIBK)	108	100	108	69 - 127
Acetone	112	100	112	45 - 157
Acrylonitrile	116	100	116	56 - 139
Benzene	19.0	20.0	95	83 - 118
Bromochloromethane	19.1	20.0	96	82 - 117
Bromodichloromethane	18.6	20.0	93	77 - 120
Bromoform	17.4	20.0	87	38 - 149
Bromomethane	17.6	20.0	88	78 - 132
Carbon Disulfide	94.3	100	94	74 - 132
Carbon Tetrachloride	15.1	20.0	75	67 - 129
Chlorobenzene	17.8	20.0	89	83 - 122
Chloroethane	18.4	20.0	92	80 - 129
Chloroform	18.4	20.0	92	81 - 118
Chloromethane	19.7	20.0	99	61 - 138
cis-1,2-Dichloroethene	19.5	20.0	98	74 - 127
cis-1,3-Dichloropropene	18.7	20.0	93	80 - 120
Dibromochloromethane	18.4	20.0	92	71 - 122

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: J1102198
Date Analyzed: 5/27/11

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L
Basis: NA

Analysis Lot: 247970

Lab Control Sample
JQ1102964-01

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Dibromomethane	20.1	20.0	100	73 - 125
Ethylbenzene	18.0	20.0	90	82 - 124
Iodomethane	87.7	100	88	78 - 128
m,p-Xylenes	33.3	40.0	83	82 - 125
Methylene Chloride	20.5	20.0	103	70 - 134
o-Xylene	17.4	20.0	87	82 - 122
Styrene	18.8	20.0	94	82 - 123
Tetrachloroethene (PCE)	17.1	20.0	85	77 - 129
Toluene	18.5	20.0	93	82 - 122
trans-1,2-Dichloroethene	18.5	20.0	93	81 - 119
trans-1,3-Dichloropropene	17.9	20.0	90	71 - 124
trans-1,4-Dichloro-2-butene	4.84	20.0	24	10 - 172
Trichloroethene (TCE)	17.4	20.0	87	81 - 120
Trichlorofluoromethane	15.4	20.0	77	72 - 127
Vinyl Acetate	84.1	100	84	50 - 145
Vinyl Chloride	17.7	20.0	89	72 - 133

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: J1102198

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

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
Lab Control Sample	JWG1101220-3	104
MW-13ADMS	JWG1101220-2	110
MW-13AMS	JWG1101220-1	107
Method Blank	JWG1101220-4	103
MW-10B	J1102198-008	95
MW-10A	J1102198-007	114
MW-11B	J1102198-006	108
MW-11A	J1102198-005	111
MW-12B	J1102198-004	98
MW-12A	J1102198-003	105
MW-13B	J1102198-002	103
MW-13A	J1102198-001	112

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: J1102198
Date Extracted: 05/25/2011
Date Analyzed: 05/26/2011

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

Sample Name: MW-13A
Lab Code: J1102198-001
Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1101220

Analyte Name	Sample Result	MW-13AMS JWG1101220-1 Matrix Spike			MW-13ADMS JWG1101220-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	ND	0.251	0.252	99	0.262	0.257	102	65-135	4	20
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.253	0.252	100	0.265	0.257	103	65-135	5	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: J1102198
Date Extracted: 05/25/2011
Date Analyzed: 05/26/2011

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: JWG1101220

Lab Control Sample
JWG1101220-3
Lab Control Spike

Analyte Name	Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
1,2-Dibromoethane (EDB)	0.259	0.250	104	70-130
1,2-Dibromo-3-chloropropane (DBCP)	0.233	0.250	93	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: J1102198
Date Collected: 5/17/11
Date Received: 5/18/11
Date Analyzed: 5/24/11

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-13A
Lab Code: J1102198-001

Units: µg/L
Basis: NA

Analytical Method: 6020
Prep Method: EPA 3020A

Analyte Name	Sample Result	MW-13AMS Matrix Spike J1102198-001MS1			MW-13ADMS Duplicate Matrix Spike J1102198-001DMS1			% Rec Limits	RPD	
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec		RPD	Limit
Antimony, Total Recoverable	ND	55.0	50.0	110	53.2	50.0	106	75 - 125	3	20
Arsenic, Total Recoverable	21.3	73.7	50.0	105	73.1	50.0	104	75 - 125	<1	20
Barium, Total Recoverable	8.8	57.9	50.0	98	58.4	50.0	99	75 - 125	<1	20
Beryllium, Total Recoverable	ND	46.2	50.0	92	52.3	50.0	105	75 - 125	12	20
Cadmium, Total Recoverable	ND	52.5	50.0	105	51.4	50.0	103	75 - 125	2	20
Chromium, Total Recoverable	3.3	52.9	50.0	99	52.6	50.0	99	75 - 125	<1	20
Cobalt, Total Recoverable	0.5	50.0	50.0	99	49.5	50.0	98	75 - 125	1	20
Copper, Total Recoverable	ND	51.1	50.0	102	49.9	50.0	100	75 - 125	2	20
Lead, Total Recoverable	ND	50.4	50.0	101	50.1	50.0	100	75 - 125	<1	20
Nickel, Total Recoverable	1.0	50.9	50.0	100	49.3	50.0	97	75 - 125	3	20
Selenium, Total Recoverable	2.0	46.8	50.0	90	47.5	50.0	91	75 - 125	2	20
Silver, Total Recoverable	ND	49.1	50.0	98	49.7	50.0	99	75 - 125	1	20
Thallium, Total Recoverable	ND	48.2	50.0	96	48.0	50.0	96	75 - 125	<1	20
Vanadium, Total Recoverable	3.8	54.8	50.0	102	52.7	50.0	98	75 - 125	4	20
Zinc, Total Recoverable	ND	106	100	106	103	100	103	75 - 125	3	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: J1102198
 Date Collected: 5/17/11
 Date Received: 5/18/11
 Date Analyzed: 5/24/11

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-12B
 Lab Code: J1102198-004

Units: µg/L
 Basis: NA

Analytical Method: 7470A
 Prep Method: Method

Analyte Name	Sample Result	MW-12BMS Matrix Spike J1102198-004MS2			MW-12BDMS Duplicate Matrix Spike J1102198-004DMS2			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Mercury, Total	ND	5.23	5.00	105	5.30	5.00	106	75 - 125	1	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: J1102198
Date Collected: 5/17/11
Date Received: 5/18/11
Date Analyzed: 5/27/11

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-11A
Lab Code: J1102198-005

Units: µg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3005A

Analyte Name	Sample Result	MW-11AMS Matrix Spike J1102198-005MS3			MW-11ADMS Duplicate Matrix Spike J1102198-005DMS3			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Iron, Total Recoverable	2170	7120	5000	99	7150	5000	100	75 - 125	<1	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: J1102198
 Date Collected: 5/17/11
 Date Received: 5/18/11
 Date Analyzed: 5/27/11

Matrix Spike Summary
 Inorganic Parameters

Sample Name: MW-11A
 Lab Code: J1102198-005

Units: mg/L
 Basis: NA

Analytical Method: 6010B
 Prep Method: EPA 3005A

Analyte Name	Sample Result	MW-11AMS Matrix Spike J1102198-005MS3			MW-11ADMS Duplicate Matrix Spike J1102198-005DMS3			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Sodium, Total Recoverable	30.2	60.8	25.0	123	60.7	25.0	122	75 - 125	<1	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: J1102198
 Date Analyzed: 5/24/11 -
 5/27/11

Lab Control Sample Summary
 Inorganic Parameters

Units: µg/L
 Basis: NA

Lab Control Sample
 J1102198-LCS

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Antimony, Total Recoverable	6020	52.7	50.0	105	80 - 120
Arsenic, Total Recoverable	6020	52.8	50.0	106	80 - 120
Barium, Total Recoverable	6020	50.3	50.0	101	80 - 120
Beryllium, Total Recoverable	6020	51.0	50.0	102	80 - 120
Cadmium, Total Recoverable	6020	52.3	50.0	105	80 - 120
Chromium, Total Recoverable	6020	49.9	50.0	100	80 - 120
Cobalt, Total Recoverable	6020	50.4	50.0	101	80 - 120
Copper, Total Recoverable	6020	50.7	50.0	101	80 - 120
Iron, Total Recoverable	6010B	4990	5000	100	85 - 115
Lead, Total Recoverable	6020	49.6	50.0	99	80 - 120
Mercury, Total	7470A	5.14	5.00	103	80 - 120
Nickel, Total Recoverable	6020	50.7	50.0	101	80 - 120
Selenium, Total Recoverable	6020	53.2	50.0	106	80 - 120
Silver, Total Recoverable	6020	49.6	50.0	99	80 - 120
Thallium, Total Recoverable	6020	48.3	50.0	97	80 - 120
Vanadium, Total Recoverable	6020	49.6	50.0	99	80 - 120
Zinc, Total Recoverable	6020	105	100	105	80 - 120

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: J1102198
Date Analyzed: 5/24/11 -
5/27/11

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Lab Control Sample J1102198-LCS					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Sodium, Total Recoverable	6010B	26.8	25.0	107	90 - 114

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: J1102198
Date Collected: 5/17/11
Date Received: 5/18/11
Date Analyzed: 5/19/11

Matrix Spike Summary
General Chemistry Parameters

Sample Name: MW-13A
Lab Code: J1102198-001

Units: mg/L
Basis: NA

Analytical Method: 300.0

MW-13AMS
Matrix Spike
J1102198-001MS1

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chloride	11.4	61.8	50.0	101	90 - 110
Nitrate as Nitrogen	ND	4.80	5.00	96	90 - 110

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: J1102198
Date Collected: 5/17/11
Date Received: 5/18/11
Date Analyzed: 5/23/11

Matrix Spike Summary
General Chemistry Parameters

Sample Name: MW-12B
Lab Code: J1102198-004

Units: mg/L
Basis: NA

Analytical Method: 350.1

	MW-12BMS Matrix Spike J1102198-004MS2				
Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	0.124	1.08	1.00	96	90 - 110

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: J1102198
Date Collected: 5/17/11
Date Received: 5/18/11
Date Analyzed: 5/19/11

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-13A
Lab Code: J1102198-001

Units: mg/L
Basis: NA

					MW-13ADUP Duplicate Sample			
					J1102198-001DUP1			
Analyte Name	Method	MRL	MDL	Sample Result	Result	Average	RPD	RPD Limit
Chloride	300.0	0.50	0.10	11.4	11.5	11.4	<1	20
Nitrate as Nitrogen	300.0	0.20	0.04	ND U	ND U	NC	NC	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: J1102198
Date Collected: 5/17/11
Date Received: 5/18/11
Date Analyzed: 5/23/11

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-12B
Lab Code: J1102198-004

Units: mg/L
Basis: NA

					MW-12BDUP Duplicate Sample J1102198-004DUP2			
Analyte Name	Method	MRL	MDL	Sample Result	Result	Average	RPD	RPD Limit
Ammonia as Nitrogen	350.1	0.010	0.005	0.124	0.122	0.123	2	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: J1102198
Date Analyzed: 5/18/11 -
5/23/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample J1102198-LCS1					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	350.1	0.980	1.00	98	90 - 110
Chloride	300.0	51.5	50.0	103	90 - 110
Nitrate as Nitrogen	300.0	4.92	5.00	98	90 - 110
Solids, Total Dissolved	SM 2540 C	285	300	95	85 - 115

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: J1102198
Date Analyzed: 5/23/11

**Lab Control Sample Summary
General Chemistry Parameters**

Units: mg/L

Basis: NA

Lab Control Sample J1102198-LCS2					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	350.1	0.963	1.00	96	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.

Cooler Receipt Form

Client: EPB Service Request #: J1102198
 Project: JED SWDF
 Cooler received on 5/18/11 and opened on 5/18/11 by SL
 COURIER: CAS ☒ UPS ☐ FEDEX ☐ Client ☐ Other ☐ Airbill # 1ZXS5W098221000 3655

- | | | | | |
|----|---|--------------------------------------|--------------------------|--|
| 1 | Were custody seals on outside of cooler? | ☒ Yes | ☐ No | |
| | If yes, how many and where? | #: <u>1</u> 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) | <u>4.3</u> | | |
| 5 | Thermometer ID | <u>T13</u> | | |
| 6 | Temperature Blank Present? | ☒ Yes | ☐ No | |
| 7 | Were Ice or Ice Packs present | ☒ Ice | Ice Packs | No |
| 8 | Did all bottles arrive in good condition (unbroken, etc....)? | ☒ Yes | ☐ No | N/A |
| 9 | Type of packing material present | Netting | Vial Holder | ☒ Bubble Wrap |
| | | Paper | Styrofoam | Other N/A |
| 10 | Were all bottle labels complete (sample ID, preservation, etc....)? | ☒ Yes | ☐ No | N/A |
| 11 | Did all bottle labels and tags agree with custody papers? | ☒ Yes | ☐ No | N/A |
| 12 | Were the correct bottles used for the tests indicated? | ☒ Yes | ☐ No | N/A |
| 13 | Were all of the preserved bottles received with the appropriate preservative? | ☒ Yes | ☐ No | N/A |
| | HNO ₃ pH<2 ☒ H ₂ SO ₄ pH<2 ZnAc ₂ /NaOH pH>9 NaOH pH>12 HCl pH<2 | Preservative additions noted below | | |
| 14 | Were all samples received within analysis holding times? | ☒ Yes | ☐ No | N/A |
| 15 | Were all VOA vials free of air bubbles? If present, note below | ☒ Yes | ☐ No | N/A |
| 16 | Where did the bottles originate? | ☒ CAS | Client | |

Sample ID	Reagent	Lot #	ml added	Initials Date/Time

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

SR #: J 1102198

Date: 5/13/11

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.

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	40mL	40mL	125mL	125mL	125mL	125mL	125mL	125mL	125mL	125mL	125mL	125mL	125mL	125mL	125mL	125mL	125mL	125mL	125mL	1L	1L	1L	1L	1L	20z	40z	80z	160z	100mL	Ziplock	Misc.	
Preserve			Na2								ZnAc2/																		Na2				
Req. pH	N/A	HCl	S2O3	N/A	HCl	H2SO4	HNO3	N/A	H2SO4	HNO3	NaOH	NaOH	N/A	HNO3	N/A	HCl	H2SO4	HNO3	N/A	N/A	HNO3	N/A	HCl	H2SO4	N/A	N/A	N/A	N/A	S2O3	N/A	N/A		
Sample #	N/A	<2	N/A	N/A	<2	<2	<2	<2	<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	N/A		
-1	2	3				1		1		1																						-	
-2																																	-1
-3																																	-2
-4																																	-3
-5																																	-4
-6																																	-5
-7																																	-6
-8																																	-7
-9																																	-8
-10																																	-9
-11																																	-10
-12																																	-11
-13																																	-12
-14																																	-13
-15																																	-14
-16																																	-15
-17																																	-16
-18																																	-17
-19																																	-18
-20																																	-19
-21																																	-20
-22																																	-21
-23																																	-22
-24																																	-23
-25																																	-24
-26																																	-25
-27																																	-26
-28																																	-27
-29																																	-28
-30																																	-29
-31																																	-30
-32																																	-31
-33																																	-32
-34																																	-33
-35																																	-34
-36																																	-35
-37																																	-36
-38																																	-37
-39																																	-38
-40																																	-39
																																	-40

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

SR # 51102198

Project Name JED SWDF		Project Number		ANALYSIS REQUESTED (Include Method Number and Containers)										PRESERVATIVE		PREPARATIVE KEY			
Project Manager Kirk Wills		Email Address kwills@envplanning.com														0. NONE 1. HCL 2. HNO ₃ 3. H ₂ SO ₄ 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO ₄ 8. Other _____			
Company/Address EPS																			
1936 Bruce B Downs Blvd #328																			
Wesley Chapel, FL 33543																			
Phone # 913-300-1026		FAX #																	
Sampler's Signature <i>Joe Terry</i>		Sampler's Printed Name Joe Terry																	
CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX															
MW-13A		5-17-11 0812		GW	9	3	3	1	1	1									
MW-13B		0745																	
MW-12A		1110																	
MW-12B		1015																	
MW-11A		1305																	
MW-11B		1325																	
MW-10A		1527																	
MW-10B		5-17-11 1450		GW	9	3	3	1	1	1									
Trap Blank		5-12-11 0800		PH ₂ O	2	2													

SPECIAL INSTRUCTIONS/COMMENTS Cooler ID: 11137-JED		TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) ☒ STANDARD		REPORT REQUIREMENTS ☐ I. Results Only ☒ II. Results + QC Summaries (LCS, DUP, MSMSD as required) ☐ III. Results + QC and Calibration Summaries ☐ IV. Data Validation Report with Raw Data ☐ V. Specialize Forms / Custom Report		INVOICE INFORMATION PO# BILL TO:	
See QAPP ☐		REQUESTED FAX DATE		REQUESTED REPORT DATE			

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____		CUSTODY SEALS: Y N	
RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature <i>Joe Terry</i>	Signature <i>Shawn Lythgoe</i>	Signature	Signature
Printed Name Joe Terry	Printed Name Shawn Lythgoe	Printed Name	Printed Name
Firm EPS	Firm CPS	Firm	Firm
Date/Time 5-17-11/1630	Date/Time 5/18/11 0943	Date/Time	Date/Time

June 03, 2011

Service Request No: J1102220

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 19, 2011. For your reference, these analyses have been assigned our service request number **J1102220**.

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. This report shall not be reproduced except in full without written approval of the laboratory, as all results are intended to be considered in their entirety, and Columbia Analytical Services, Inc.

(CAS) cannot be held responsible for use of the less than the complete report.

Results apply only to the items submitted to the laboratory for analysis and individual items (samples)

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

Page 1 of 88

COLUMBIA ANALYTICAL SERVICES, INC.

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

Service Request No.: J1102220
Date Received: 5/19/11

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

Nine water samples and one trip blank were received for analysis at Columbia Analytical Services on 5/19/11. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at $\leq 6^{\circ}\text{C}$ 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.

Matrix Spike Summary Exceptions

The matrix spike recovery of 1,2-Dichlorobenzene, 1,2-Dichloropropane, and trans-1,4-Dichloro-2-butene for sample MW-8B were outside control criteria. Recoveries in the Laboratory Control Sample 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.

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.

Matrix Spike Recovery Exceptions

The matrix spike recovery of Sodium for sample MW-8A 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.

General Chemistry Parameters

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

Approved by  Date 6/3/11

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: J1102220

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J1102220-001	MW-9A	5/18/11	08:25
J1102220-002	MW-9B	5/18/11	07:55
J1102220-003	MW-8A	5/18/11	10:17
J1102220-004	MW-8B	5/18/11	10:55
J1102220-005	MW-7A	5/18/11	12:55
J1102220-006	MW-7B	5/18/11	12:27
J1102220-007	MW-6A	5/18/11	15:00
J1102220-008	MW-6B	5/18/11	14:25
J1102220-009	EB-1	5/18/11	08:40
J1102220-010	Trip Blank	5/18/11	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-9A
Lab Code: J1102220-001

Service Request: J1102220
Date Collected: 5/18/11 0825
Date Received: 5/19/11

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/27/11 19:39		247970	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/27/11 19:39		247970	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/27/11 19:39		247970	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/27/11 19:39		247970	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/27/11 19:39		247970	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/27/11 19:39		247970	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/27/11 19:39		247970	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/27/11 19:39		247970	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/27/11 19:39		247970	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/27/11 19:39		247970	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/27/11 19:39		247970	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/27/11 19:39		247970	
1,4-Dichlorobenzene	1.36		1.00	0.160	1	NA	5/27/11 19:39		247970	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/27/11 19:39		247970	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/27/11 19:39		247970	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/27/11 19:39		247970	
Acetone	ND	U	50.0	5.60	1	NA	5/27/11 19:39		247970	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/27/11 19:39		247970	
Benzene	9.44		1.00	0.210	1	NA	5/27/11 19:39		247970	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/27/11 19:39		247970	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/27/11 19:39		247970	
Bromoform	ND	U	2.00	0.420	1	NA	5/27/11 19:39		247970	
Bromomethane	ND	U	1.00	0.230	1	NA	5/27/11 19:39		247970	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/27/11 19:39		247970	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/27/11 19:39		247970	
Chlorobenzene	0.210	I	1.00	0.160	1	NA	5/27/11 19:39		247970	
Chloroethane	ND	U	5.00	0.520	1	NA	5/27/11 19:39		247970	
Chloroform	ND	U	1.00	0.350	1	NA	5/27/11 19:39		247970	
Chloromethane	ND	U	1.00	0.360	1	NA	5/27/11 19:39		247970	
cis-1,2-Dichloroethene	1.22		1.00	0.360	1	NA	5/27/11 19:39		247970	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/27/11 19:39		247970	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/27/11 19:39		247970	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/27/11 19:39		247970	
Ethylbenzene	0.970	I	1.00	0.210	1	NA	5/27/11 19:39		247970	
Iodomethane	ND	U	5.00	2.68	1	NA	5/27/11 19:39		247970	
m,p-Xylenes	3.61		2.00	0.310	1	NA	5/27/11 19:39		247970	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-9A
Lab Code: J1102220-001

Service Request: J1102220
Date Collected: 5/18/11 0825
Date Received: 5/19/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/27/11 19:39		247970	
o-Xylene	1.44		1.00	0.140	1	NA	5/27/11 19:39		247970	
Styrene	ND	U	1.00	0.290	1	NA	5/27/11 19:39		247970	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/27/11 19:39		247970	
Toluene	0.780	I	1.00	0.190	1	NA	5/27/11 19:39		247970	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/27/11 19:39		247970	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/27/11 19:39		247970	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/27/11 19:39		247970	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/27/11 19:39		247970	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/27/11 19:39		247970	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/27/11 19:39		247970	
Vinyl Chloride	1.25		1.00	0.360	1	NA	5/27/11 19:39		247970	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	104	68-118	5/27/11 19:39	
4-Bromofluorobenzene	121	78-129	5/27/11 19:39	
Dibromofluoromethane	98	80-114	5/27/11 19:39	
Toluene-d8	101	87-118	5/27/11 19:39	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-9B
Lab Code: J1102220-002

Service Request: J1102220
Date Collected: 5/18/11 0755
Date Received: 5/19/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/27/11 20:08		247970	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/27/11 20:08		247970	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/27/11 20:08		247970	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/27/11 20:08		247970	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/27/11 20:08		247970	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/27/11 20:08		247970	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/27/11 20:08		247970	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/27/11 20:08		247970	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/27/11 20:08		247970	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/27/11 20:08		247970	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/27/11 20:08		247970	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/27/11 20:08		247970	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 20:08		247970	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/27/11 20:08		247970	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/27/11 20:08		247970	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/27/11 20:08		247970	
Acetone	ND	U	50.0	5.60	1	NA	5/27/11 20:08		247970	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/27/11 20:08		247970	
Benzene	ND	U	1.00	0.210	1	NA	5/27/11 20:08		247970	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/27/11 20:08		247970	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/27/11 20:08		247970	
Bromoform	ND	U	2.00	0.420	1	NA	5/27/11 20:08		247970	
Bromomethane	ND	U	1.00	0.230	1	NA	5/27/11 20:08		247970	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/27/11 20:08		247970	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/27/11 20:08		247970	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 20:08		247970	
Chloroethane	ND	U	5.00	0.520	1	NA	5/27/11 20:08		247970	
Chloroform	ND	U	1.00	0.350	1	NA	5/27/11 20:08		247970	
Chloromethane	ND	U	1.00	0.360	1	NA	5/27/11 20:08		247970	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/27/11 20:08		247970	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/27/11 20:08		247970	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/27/11 20:08		247970	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/27/11 20:08		247970	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/27/11 20:08		247970	
Iodomethane	ND	U	5.00	2.68	1	NA	5/27/11 20:08		247970	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/27/11 20:08		247970	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-9B
Lab Code: J1102220-002

Service Request: J1102220
Date Collected: 5/18/11 0755
Date Received: 5/19/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/27/11 20:08		247970	
o-Xylene	ND	U	1.00	0.140	1	NA	5/27/11 20:08		247970	
Styrene	ND	U	1.00	0.290	1	NA	5/27/11 20:08		247970	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/27/11 20:08		247970	
Toluene	ND	U	1.00	0.190	1	NA	5/27/11 20:08		247970	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/27/11 20:08		247970	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/27/11 20:08		247970	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/27/11 20:08		247970	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/27/11 20:08		247970	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/27/11 20:08		247970	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/27/11 20:08		247970	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/27/11 20:08		247970	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	102	68-118	5/27/11 20:08	
4-Bromofluorobenzene	108	78-129	5/27/11 20:08	
Dibromofluoromethane	99	80-114	5/27/11 20:08	
Toluene-d8	95	87-118	5/27/11 20:08	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-8A
Lab Code: J1102220-003

Service Request: J1102220
Date Collected: 5/18/11 1017
Date Received: 5/19/11

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/27/11 20:38		247970	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/27/11 20:38		247970	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/27/11 20:38		247970	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/27/11 20:38		247970	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/27/11 20:38		247970	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/27/11 20:38		247970	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/27/11 20:38		247970	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/27/11 20:38		247970	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/27/11 20:38		247970	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/27/11 20:38		247970	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/27/11 20:38		247970	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/27/11 20:38		247970	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 20:38		247970	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/27/11 20:38		247970	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/27/11 20:38		247970	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/27/11 20:38		247970	
Acetone	ND	U	50.0	5.60	1	NA	5/27/11 20:38		247970	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/27/11 20:38		247970	
Benzene	1.00		1.00	0.210	1	NA	5/27/11 20:38		247970	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/27/11 20:38		247970	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/27/11 20:38		247970	
Bromoform	ND	U	2.00	0.420	1	NA	5/27/11 20:38		247970	
Bromomethane	ND	U	1.00	0.230	1	NA	5/27/11 20:38		247970	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/27/11 20:38		247970	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/27/11 20:38		247970	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 20:38		247970	
Chloroethane	ND	U	5.00	0.520	1	NA	5/27/11 20:38		247970	
Chloroform	ND	U	1.00	0.350	1	NA	5/27/11 20:38		247970	
Chloromethane	ND	U	1.00	0.360	1	NA	5/27/11 20:38		247970	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/27/11 20:38		247970	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/27/11 20:38		247970	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/27/11 20:38		247970	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/27/11 20:38		247970	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/27/11 20:38		247970	
Iodomethane	ND	U	5.00	2.68	1	NA	5/27/11 20:38		247970	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/27/11 20:38		247970	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-8A
Lab Code: J1102220-003

Service Request: J1102220
Date Collected: 5/18/11 1017
Date Received: 5/19/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/27/11 20:38		247970	
o-Xylene	0.180	I	1.00	0.140	1	NA	5/27/11 20:38		247970	
Styrene	ND	U	1.00	0.290	1	NA	5/27/11 20:38		247970	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/27/11 20:38		247970	
Toluene	ND	U	1.00	0.190	1	NA	5/27/11 20:38		247970	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/27/11 20:38		247970	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/27/11 20:38		247970	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/27/11 20:38		247970	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/27/11 20:38		247970	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/27/11 20:38		247970	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/27/11 20:38		247970	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/27/11 20:38		247970	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	101	68-118	5/27/11 20:38	
4-Bromofluorobenzene	116	78-129	5/27/11 20:38	
Dibromofluoromethane	100	80-114	5/27/11 20:38	
Toluene-d8	98	87-118	5/27/11 20:38	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
 Project: JED SWDF
 Sample Matrix: Water
 Sample Name: MW-8B
 Lab Code: J1102220-004

Service Request: J1102220
 Date Collected: 5/18/11 1055
 Date Received: 5/19/11
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/27/11 21:08		247970	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/27/11 21:08		247970	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/27/11 21:08		247970	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/27/11 21:08		247970	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/27/11 21:08		247970	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/27/11 21:08		247970	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/27/11 21:08		247970	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/27/11 21:08		247970	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/27/11 21:08		247970	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/27/11 21:08		247970	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/27/11 21:08		247970	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/27/11 21:08		247970	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 21:08		247970	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/27/11 21:08		247970	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/27/11 21:08		247970	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/27/11 21:08		247970	
Acetone	ND	U	50.0	5.60	1	NA	5/27/11 21:08		247970	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/27/11 21:08		247970	
Benzene	ND	U	1.00	0.210	1	NA	5/27/11 21:08		247970	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/27/11 21:08		247970	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/27/11 21:08		247970	
Bromoform	ND	U	2.00	0.420	1	NA	5/27/11 21:08		247970	
Bromomethane	ND	U	1.00	0.230	1	NA	5/27/11 21:08		247970	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/27/11 21:08		247970	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/27/11 21:08		247970	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 21:08		247970	
Chloroethane	ND	U	5.00	0.520	1	NA	5/27/11 21:08		247970	
Chloroform	ND	U	1.00	0.350	1	NA	5/27/11 21:08		247970	
Chloromethane	ND	U	1.00	0.360	1	NA	5/27/11 21:08		247970	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/27/11 21:08		247970	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/27/11 21:08		247970	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/27/11 21:08		247970	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/27/11 21:08		247970	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/27/11 21:08		247970	
Iodomethane	ND	U	5.00	2.68	1	NA	5/27/11 21:08		247970	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/27/11 21:08		247970	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-8B
Lab Code: J1102220-004

Service Request: J1102220
Date Collected: 5/18/11 1055
Date Received: 5/19/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/27/11 21:08		247970	
o-Xylene	ND	U	1.00	0.140	1	NA	5/27/11 21:08		247970	
Styrene	ND	U	1.00	0.290	1	NA	5/27/11 21:08		247970	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/27/11 21:08		247970	
Toluene	ND	U	1.00	0.190	1	NA	5/27/11 21:08		247970	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/27/11 21:08		247970	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/27/11 21:08		247970	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/27/11 21:08		247970	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/27/11 21:08		247970	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/27/11 21:08		247970	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/27/11 21:08		247970	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/27/11 21:08		247970	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	100	68-118	5/27/11 21:08	
4-Bromofluorobenzene	112	78-129	5/27/11 21:08	
Dibromofluoromethane	94	80-114	5/27/11 21:08	
Toluene-d8	92	87-118	5/27/11 21:08	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-7A
Lab Code: J1102220-005

Service Request: J1102220
Date Collected: 5/18/11 1255
Date Received: 5/19/11

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247998

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/31/11 13:30		247998	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/31/11 13:30		247998	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/31/11 13:30		247998	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/31/11 13:30		247998	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/31/11 13:30		247998	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/31/11 13:30		247998	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/31/11 13:30		247998	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/31/11 13:30		247998	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/31/11 13:30		247998	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/31/11 13:30		247998	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/31/11 13:30		247998	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/31/11 13:30		247998	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 13:30		247998	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/31/11 13:30		247998	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/31/11 13:30		247998	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/31/11 13:30		247998	
Acetone	ND	U	50.0	5.60	1	NA	5/31/11 13:30		247998	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/31/11 13:30		247998	
Benzene	ND	U	1.00	0.210	1	NA	5/31/11 13:30		247998	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/31/11 13:30		247998	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/31/11 13:30		247998	
Bromoform	ND	U	2.00	0.420	1	NA	5/31/11 13:30		247998	
Bromomethane	ND	U	1.00	0.230	1	NA	5/31/11 13:30		247998	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/31/11 13:30		247998	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/31/11 13:30		247998	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 13:30		247998	
Chloroethane	ND	U	5.00	0.520	1	NA	5/31/11 13:30		247998	
Chloroform	ND	U	1.00	0.350	1	NA	5/31/11 13:30		247998	
Chloromethane	ND	U	1.00	0.360	1	NA	5/31/11 13:30		247998	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/31/11 13:30		247998	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/31/11 13:30		247998	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/31/11 13:30		247998	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/31/11 13:30		247998	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/31/11 13:30		247998	
Iodomethane	ND	U	5.00	2.68	1	NA	5/31/11 13:30		247998	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/31/11 13:30		247998	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

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

Sample Name: MW-7A
Lab Code: J1102220-005

Service Request: J1102220
Date Collected: 5/18/11 1255
Date Received: 5/19/11

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247998

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/31/11 13:30		247998	
o-Xylene	ND	U	1.00	0.140	1	NA	5/31/11 13:30		247998	
Styrene	ND	U	1.00	0.290	1	NA	5/31/11 13:30		247998	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/31/11 13:30		247998	
Toluene	ND	U	1.00	0.190	1	NA	5/31/11 13:30		247998	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/31/11 13:30		247998	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/31/11 13:30		247998	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/31/11 13:30		247998	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/31/11 13:30		247998	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/31/11 13:30		247998	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/31/11 13:30		247998	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/31/11 13:30		247998	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	101	68-118	5/31/11 13:30	
4-Bromofluorobenzene	110	78-129	5/31/11 13:30	
Dibromofluoromethane	102	80-114	5/31/11 13:30	
Toluene-d8	99	87-118	5/31/11 13:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-7B
Lab Code: J1102220-006

Service Request: J1102220
Date Collected: 5/18/11 1227
Date Received: 5/19/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247998

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/31/11 13:59		247998	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/31/11 13:59		247998	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/31/11 13:59		247998	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/31/11 13:59		247998	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/31/11 13:59		247998	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/31/11 13:59		247998	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/31/11 13:59		247998	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/31/11 13:59		247998	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/31/11 13:59		247998	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/31/11 13:59		247998	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/31/11 13:59		247998	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/31/11 13:59		247998	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 13:59		247998	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/31/11 13:59		247998	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/31/11 13:59		247998	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/31/11 13:59		247998	
Acetone	ND	U	50.0	5.60	1	NA	5/31/11 13:59		247998	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/31/11 13:59		247998	
Benzene	ND	U	1.00	0.210	1	NA	5/31/11 13:59		247998	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/31/11 13:59		247998	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/31/11 13:59		247998	
Bromoform	ND	U	2.00	0.420	1	NA	5/31/11 13:59		247998	
Bromomethane	ND	U	1.00	0.230	1	NA	5/31/11 13:59		247998	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/31/11 13:59		247998	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/31/11 13:59		247998	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 13:59		247998	
Chloroethane	ND	U	5.00	0.520	1	NA	5/31/11 13:59		247998	
Chloroform	ND	U	1.00	0.350	1	NA	5/31/11 13:59		247998	
Chloromethane	ND	U	1.00	0.360	1	NA	5/31/11 13:59		247998	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/31/11 13:59		247998	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/31/11 13:59		247998	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/31/11 13:59		247998	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/31/11 13:59		247998	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/31/11 13:59		247998	
Iodomethane	ND	U	5.00	2.68	1	NA	5/31/11 13:59		247998	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/31/11 13:59		247998	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-7B
Lab Code: J1102220-006

Service Request: J1102220
Date Collected: 5/18/11 1227
Date Received: 5/19/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247998

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/31/11 13:59		247998	
o-Xylene	ND	U	1.00	0.140	1	NA	5/31/11 13:59		247998	
Styrene	ND	U	1.00	0.290	1	NA	5/31/11 13:59		247998	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/31/11 13:59		247998	
Toluene	ND	U	1.00	0.190	1	NA	5/31/11 13:59		247998	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/31/11 13:59		247998	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/31/11 13:59		247998	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/31/11 13:59		247998	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/31/11 13:59		247998	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/31/11 13:59		247998	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/31/11 13:59		247998	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/31/11 13:59		247998	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	101	68-118	5/31/11 13:59	
4-Bromofluorobenzene	112	78-129	5/31/11 13:59	
Dibromofluoromethane	99	80-114	5/31/11 13:59	
Toluene-d8	100	87-118	5/31/11 13:59	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-6A
Lab Code: J1102220-007

Service Request: J1102220
Date Collected: 5/18/11 1500
Date Received: 5/19/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247998

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/31/11 14:29		247998	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/31/11 14:29		247998	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/31/11 14:29		247998	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/31/11 14:29		247998	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/31/11 14:29		247998	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/31/11 14:29		247998	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/31/11 14:29		247998	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/31/11 14:29		247998	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/31/11 14:29		247998	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/31/11 14:29		247998	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/31/11 14:29		247998	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/31/11 14:29		247998	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 14:29		247998	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/31/11 14:29		247998	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/31/11 14:29		247998	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/31/11 14:29		247998	
Acetone	ND	U	50.0	5.60	1	NA	5/31/11 14:29		247998	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/31/11 14:29		247998	
Benzene	0.370	I	1.00	0.210	1	NA	5/31/11 14:29		247998	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/31/11 14:29		247998	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/31/11 14:29		247998	
Bromoform	ND	U	2.00	0.420	1	NA	5/31/11 14:29		247998	
Bromomethane	ND	U	1.00	0.230	1	NA	5/31/11 14:29		247998	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/31/11 14:29		247998	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/31/11 14:29		247998	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 14:29		247998	
Chloroethane	ND	U	5.00	0.520	1	NA	5/31/11 14:29		247998	
Chloroform	ND	U	1.00	0.350	1	NA	5/31/11 14:29		247998	
Chloromethane	ND	U	1.00	0.360	1	NA	5/31/11 14:29		247998	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/31/11 14:29		247998	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/31/11 14:29		247998	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/31/11 14:29		247998	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/31/11 14:29		247998	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/31/11 14:29		247998	
Iodomethane	ND	U	5.00	2.68	1	NA	5/31/11 14:29		247998	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/31/11 14:29		247998	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-6A
Lab Code: J1102220-007

Service Request: J1102220
Date Collected: 5/18/11 1500
Date Received: 5/19/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247998

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/31/11 14:29		247998	
o-Xylene	ND	U	1.00	0.140	1	NA	5/31/11 14:29		247998	
Styrene	ND	U	1.00	0.290	1	NA	5/31/11 14:29		247998	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/31/11 14:29		247998	
Toluene	ND	U	1.00	0.190	1	NA	5/31/11 14:29		247998	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/31/11 14:29		247998	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/31/11 14:29		247998	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/31/11 14:29		247998	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/31/11 14:29		247998	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/31/11 14:29		247998	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/31/11 14:29		247998	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/31/11 14:29		247998	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	99	68-118	5/31/11 14:29	
4-Bromofluorobenzene	116	78-129	5/31/11 14:29	
Dibromofluoromethane	99	80-114	5/31/11 14:29	
Toluene-d8	99	87-118	5/31/11 14:29	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-6B
Lab Code: J1102220-008

Service Request: J1102220
Date Collected: 5/18/11 1425
Date Received: 5/19/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247998

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/31/11 14:59		247998	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/31/11 14:59		247998	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/31/11 14:59		247998	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/31/11 14:59		247998	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/31/11 14:59		247998	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/31/11 14:59		247998	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/31/11 14:59		247998	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/31/11 14:59		247998	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/31/11 14:59		247998	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/31/11 14:59		247998	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/31/11 14:59		247998	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/31/11 14:59		247998	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 14:59		247998	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/31/11 14:59		247998	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/31/11 14:59		247998	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/31/11 14:59		247998	
Acetone	ND	U	50.0	5.60	1	NA	5/31/11 14:59		247998	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/31/11 14:59		247998	
Benzene	ND	U	1.00	0.210	1	NA	5/31/11 14:59		247998	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/31/11 14:59		247998	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/31/11 14:59		247998	
Bromoform	ND	U	2.00	0.420	1	NA	5/31/11 14:59		247998	
Bromomethane	ND	U	1.00	0.230	1	NA	5/31/11 14:59		247998	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/31/11 14:59		247998	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/31/11 14:59		247998	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 14:59		247998	
Chloroethane	ND	U	5.00	0.520	1	NA	5/31/11 14:59		247998	
Chloroform	ND	U	1.00	0.350	1	NA	5/31/11 14:59		247998	
Chloromethane	ND	U	1.00	0.360	1	NA	5/31/11 14:59		247998	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/31/11 14:59		247998	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/31/11 14:59		247998	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/31/11 14:59		247998	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/31/11 14:59		247998	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/31/11 14:59		247998	
Iodomethane	ND	U	5.00	2.68	1	NA	5/31/11 14:59		247998	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/31/11 14:59		247998	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-6B
Lab Code: J1102220-008

Service Request: J1102220
Date Collected: 5/18/11 1425
Date Received: 5/19/11

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247998

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/31/11 14:59		247998	
o-Xylene	ND	U	1.00	0.140	1	NA	5/31/11 14:59		247998	
Styrene	ND	U	1.00	0.290	1	NA	5/31/11 14:59		247998	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/31/11 14:59		247998	
Toluene	ND	U	1.00	0.190	1	NA	5/31/11 14:59		247998	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/31/11 14:59		247998	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/31/11 14:59		247998	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/31/11 14:59		247998	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/31/11 14:59		247998	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/31/11 14:59		247998	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/31/11 14:59		247998	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/31/11 14:59		247998	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	104	68-118	5/31/11 14:59	
4-Bromofluorobenzene	111	78-129	5/31/11 14:59	
Dibromofluoromethane	100	80-114	5/31/11 14:59	
Toluene-d8	102	87-118	5/31/11 14:59	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: EB-1
Lab Code: J1102220-009

Service Request: J1102220
Date Collected: 5/18/11 0840
Date Received: 5/19/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247998

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/31/11 11:30		247998	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/31/11 11:30		247998	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/31/11 11:30		247998	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/31/11 11:30		247998	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/31/11 11:30		247998	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/31/11 11:30		247998	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/31/11 11:30		247998	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/31/11 11:30		247998	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/31/11 11:30		247998	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/31/11 11:30		247998	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/31/11 11:30		247998	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/31/11 11:30		247998	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 11:30		247998	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/31/11 11:30		247998	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/31/11 11:30		247998	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/31/11 11:30		247998	
Acetone	ND	U	50.0	5.60	1	NA	5/31/11 11:30		247998	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/31/11 11:30		247998	
Benzene	ND	U	1.00	0.210	1	NA	5/31/11 11:30		247998	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/31/11 11:30		247998	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/31/11 11:30		247998	
Bromoform	ND	U	2.00	0.420	1	NA	5/31/11 11:30		247998	
Bromomethane	ND	U	1.00	0.230	1	NA	5/31/11 11:30		247998	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/31/11 11:30		247998	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/31/11 11:30		247998	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 11:30		247998	
Chloroethane	ND	U	5.00	0.520	1	NA	5/31/11 11:30		247998	
Chloroform	ND	U	1.00	0.350	1	NA	5/31/11 11:30		247998	
Chloromethane	ND	U	1.00	0.360	1	NA	5/31/11 11:30		247998	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/31/11 11:30		247998	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/31/11 11:30		247998	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/31/11 11:30		247998	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/31/11 11:30		247998	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/31/11 11:30		247998	
Iodomethane	ND	U	5.00	2.68	1	NA	5/31/11 11:30		247998	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/31/11 11:30		247998	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: EB-1
Lab Code: J1102220-009

Service Request: J1102220
Date Collected: 5/18/11 0840
Date Received: 5/19/11

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247998

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	2.93	I	5.00	0.210	1	NA	5/31/11 11:30		247998	
o-Xylene	ND	U	1.00	0.140	1	NA	5/31/11 11:30		247998	
Styrene	ND	U	1.00	0.290	1	NA	5/31/11 11:30		247998	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/31/11 11:30		247998	
Toluene	ND	U	1.00	0.190	1	NA	5/31/11 11:30		247998	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/31/11 11:30		247998	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/31/11 11:30		247998	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/31/11 11:30		247998	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/31/11 11:30		247998	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/31/11 11:30		247998	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/31/11 11:30		247998	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/31/11 11:30		247998	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	93	68-118	5/31/11 11:30	
4-Bromofluorobenzene	105	78-129	5/31/11 11:30	
Dibromofluoromethane	98	80-114	5/31/11 11:30	
Toluene-d8	103	87-118	5/31/11 11:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Trip Blank
Lab Code: J1102220-010

Service Request: J1102220
Date Collected: 5/18/11 0000
Date Received: 5/19/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247998

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/31/11 12:00		247998	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/31/11 12:00		247998	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/31/11 12:00		247998	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/31/11 12:00		247998	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/31/11 12:00		247998	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/31/11 12:00		247998	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/31/11 12:00		247998	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/31/11 12:00		247998	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/31/11 12:00		247998	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/31/11 12:00		247998	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/31/11 12:00		247998	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/31/11 12:00		247998	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 12:00		247998	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/31/11 12:00		247998	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/31/11 12:00		247998	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/31/11 12:00		247998	
Acetone	ND	U	50.0	5.60	1	NA	5/31/11 12:00		247998	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/31/11 12:00		247998	
Benzene	ND	U	1.00	0.210	1	NA	5/31/11 12:00		247998	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/31/11 12:00		247998	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/31/11 12:00		247998	
Bromoform	ND	U	2.00	0.420	1	NA	5/31/11 12:00		247998	
Bromomethane	ND	U	1.00	0.230	1	NA	5/31/11 12:00		247998	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/31/11 12:00		247998	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/31/11 12:00		247998	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 12:00		247998	
Chloroethane	ND	U	5.00	0.520	1	NA	5/31/11 12:00		247998	
Chloroform	ND	U	1.00	0.350	1	NA	5/31/11 12:00		247998	
Chloromethane	ND	U	1.00	0.360	1	NA	5/31/11 12:00		247998	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/31/11 12:00		247998	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/31/11 12:00		247998	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/31/11 12:00		247998	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/31/11 12:00		247998	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/31/11 12:00		247998	
Iodomethane	ND	U	5.00	2.68	1	NA	5/31/11 12:00		247998	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/31/11 12:00		247998	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Trip Blank
Lab Code: J1102220-010

Service Request: J1102220
Date Collected: 5/18/11 0000
Date Received: 5/19/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247998

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/31/11 12:00		247998	
o-Xylene	ND	U	1.00	0.140	1	NA	5/31/11 12:00		247998	
Styrene	ND	U	1.00	0.290	1	NA	5/31/11 12:00		247998	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/31/11 12:00		247998	
Toluene	ND	U	1.00	0.190	1	NA	5/31/11 12:00		247998	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/31/11 12:00		247998	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/31/11 12:00		247998	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/31/11 12:00		247998	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/31/11 12:00		247998	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/31/11 12:00		247998	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/31/11 12:00		247998	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/31/11 12:00		247998	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	98	68-118	5/31/11 12:00	
4-Bromofluorobenzene	110	78-129	5/31/11 12:00	
Dibromofluoromethane	96	80-114	5/31/11 12:00	
Toluene-d8	94	87-118	5/31/11 12:00	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
 Project: JED SWDF
 Sample Matrix: Water
 Sample Name: Method Blank
 Lab Code: JQ1102964-02

Service Request: J1102220
 Date Collected: NA
 Date Received: NA
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/27/11 13:11		247970	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/27/11 13:11		247970	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/27/11 13:11		247970	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/27/11 13:11		247970	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/27/11 13:11		247970	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/27/11 13:11		247970	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/27/11 13:11		247970	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/27/11 13:11		247970	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/27/11 13:11		247970	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/27/11 13:11		247970	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/27/11 13:11		247970	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/27/11 13:11		247970	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 13:11		247970	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/27/11 13:11		247970	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/27/11 13:11		247970	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/27/11 13:11		247970	
Acetone	ND	U	50.0	5.60	1	NA	5/27/11 13:11		247970	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/27/11 13:11		247970	
Benzene	ND	U	1.00	0.210	1	NA	5/27/11 13:11		247970	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/27/11 13:11		247970	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/27/11 13:11		247970	
Bromoform	ND	U	2.00	0.420	1	NA	5/27/11 13:11		247970	
Bromomethane	ND	U	1.00	0.230	1	NA	5/27/11 13:11		247970	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/27/11 13:11		247970	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/27/11 13:11		247970	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/27/11 13:11		247970	
Chloroethane	ND	U	5.00	0.520	1	NA	5/27/11 13:11		247970	
Chloroform	ND	U	1.00	0.350	1	NA	5/27/11 13:11		247970	
Chloromethane	ND	U	1.00	0.360	1	NA	5/27/11 13:11		247970	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/27/11 13:11		247970	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/27/11 13:11		247970	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/27/11 13:11		247970	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/27/11 13:11		247970	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/27/11 13:11		247970	
Iodomethane	ND	U	5.00	2.68	1	NA	5/27/11 13:11		247970	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/27/11 13:11		247970	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: JQ1102964-02

Service Request: J1102220
Date Collected: NA
Date Received: NA
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247970

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/27/11 13:11		247970	
o-Xylene	ND	U	1.00	0.140	1	NA	5/27/11 13:11		247970	
Styrene	ND	U	1.00	0.290	1	NA	5/27/11 13:11		247970	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/27/11 13:11		247970	
Toluene	ND	U	1.00	0.190	1	NA	5/27/11 13:11		247970	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/27/11 13:11		247970	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/27/11 13:11		247970	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/27/11 13:11		247970	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/27/11 13:11		247970	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/27/11 13:11		247970	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/27/11 13:11		247970	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/27/11 13:11		247970	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	95	68-118	5/27/11 13:11	
4-Bromofluorobenzene	105	78-129	5/27/11 13:11	
Dibromofluoromethane	93	80-114	5/27/11 13:11	
Toluene-d8	99	87-118	5/27/11 13:11	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
 Project: JED SWDF
 Sample Matrix: Water
 Sample Name: Method Blank
 Lab Code: JQ1102965-01

Service Request: J1102220
 Date Collected: NA
 Date Received: NA
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247998

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/31/11 11:00		247998	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/31/11 11:00		247998	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/31/11 11:00		247998	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/31/11 11:00		247998	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/31/11 11:00		247998	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/31/11 11:00		247998	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/31/11 11:00		247998	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/31/11 11:00		247998	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/31/11 11:00		247998	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/31/11 11:00		247998	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/31/11 11:00		247998	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/31/11 11:00		247998	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 11:00		247998	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/31/11 11:00		247998	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/31/11 11:00		247998	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/31/11 11:00		247998	
Acetone	ND	U	50.0	5.60	1	NA	5/31/11 11:00		247998	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/31/11 11:00		247998	
Benzene	ND	U	1.00	0.210	1	NA	5/31/11 11:00		247998	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/31/11 11:00		247998	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/31/11 11:00		247998	
Bromoform	ND	U	2.00	0.420	1	NA	5/31/11 11:00		247998	
Bromomethane	ND	U	1.00	0.230	1	NA	5/31/11 11:00		247998	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/31/11 11:00		247998	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/31/11 11:00		247998	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 11:00		247998	
Chloroethane	ND	U	5.00	0.520	1	NA	5/31/11 11:00		247998	
Chloroform	ND	U	1.00	0.350	1	NA	5/31/11 11:00		247998	
Chloromethane	ND	U	1.00	0.360	1	NA	5/31/11 11:00		247998	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/31/11 11:00		247998	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/31/11 11:00		247998	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/31/11 11:00		247998	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/31/11 11:00		247998	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/31/11 11:00		247998	
Iodomethane	ND	U	5.00	2.68	1	NA	5/31/11 11:00		247998	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/31/11 11:00		247998	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: JQ1102965-01

Service Request: J1102220
Date Collected: NA
Date Received: NA
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247998

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/31/11 11:00		247998	
o-Xylene	ND	U	1.00	0.140	1	NA	5/31/11 11:00		247998	
Styrene	ND	U	1.00	0.290	1	NA	5/31/11 11:00		247998	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/31/11 11:00		247998	
Toluene	ND	U	1.00	0.190	1	NA	5/31/11 11:00		247998	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/31/11 11:00		247998	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/31/11 11:00		247998	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/31/11 11:00		247998	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/31/11 11:00		247998	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/31/11 11:00		247998	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/31/11 11:00		247998	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/31/11 11:00		247998	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	96	68-118	5/31/11 11:00	
4-Bromofluorobenzene	99	78-129	5/31/11 11:00	
Dibromofluoromethane	96	80-114	5/31/11 11:00	
Toluene-d8	98	87-118	5/31/11 11:00	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102220
Date Collected: 05/18/2011
Date Received: 05/19/2011

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

Sample Name: MW-9A
Lab Code: J1102220-001
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/25/11	05/27/11	JWG1101220	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.021	0.00039	1	05/25/11	05/27/11	JWG1101220	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	110	77-150	05/27/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102220
Date Collected: 05/18/2011
Date Received: 05/19/2011

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

Sample Name: MW-9B
Lab Code: J1102220-002
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/25/11	05/27/11	JWG1101220	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00040	1	05/25/11	05/27/11	JWG1101220	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	102	77-150	05/27/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102220
Date Collected: 05/18/2011
Date Received: 05/19/2011

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

Sample Name: MW-8A
Lab Code: J1102220-003
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/25/11	05/27/11	JWG1101220	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00039	1	05/25/11	05/27/11	JWG1101220	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	98	77-150	05/27/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102220
Date Collected: 05/18/2011
Date Received: 05/19/2011

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

Sample Name: MW-8B
Lab Code: J1102220-004
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/25/11	05/27/11	JWG1101220	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00039	1	05/25/11	05/27/11	JWG1101220	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	100	77-150	05/27/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102220
Date Collected: 05/18/2011
Date Received: 05/19/2011

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

Sample Name: MW-7A
Lab Code: J1102220-005
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/25/11	05/27/11	JWG1101220	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00039	1	05/25/11	05/27/11	JWG1101220	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	101	77-150	05/27/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102220
Date Collected: 05/18/2011
Date Received: 05/19/2011

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

Sample Name: MW-7B
Lab Code: J1102220-006
Extraction Method: METHOD
Analysis Method: 8011

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	0.020	0.00014	1	05/25/11	05/27/11	JWG1101220	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.020	0.00038	1	05/25/11	05/27/11	JWG1101220	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	100	77-150	05/27/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102220
Date Collected: 05/18/2011
Date Received: 05/19/2011

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

Sample Name: MW-6A
Lab Code: J1102220-007
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/25/11	05/27/11	JWG1101220	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00039	1	05/25/11	05/27/11	JWG1101220	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	107	77-150	05/27/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102220
Date Collected: 05/18/2011
Date Received: 05/19/2011

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

Sample Name: MW-6B
Lab Code: J1102220-008
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/25/11	05/27/11	JWG1101220	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00039	1	05/25/11	05/27/11	JWG1101220	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	106	77-150	05/27/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102220
Date Collected: 05/18/2011
Date Received: 05/19/2011

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

Sample Name: EB-1
Lab Code: J1102220-009
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/31/11	05/31/11	JWG1101266	
1,2-Dibromo-3-chloropropane (DBP)	ND	U	0.021	0.00039	1	05/31/11	05/31/11	JWG1101266	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	105	77-150	05/31/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102220
Date Collected: NA
Date Received: NA

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

Sample Name: Method Blank
Lab Code: JWG1101220-4
Extraction Method: METHOD
Analysis Method: 8011

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	0.020	0.00014	1	05/25/11	05/26/11	JWG1101220	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.020	0.00038	1	05/25/11	05/26/11	JWG1101220	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	103	77-150	05/26/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102220
Date Collected: NA
Date Received: NA

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

Sample Name: Method Blank
Lab Code: JWG1101266-3
Extraction Method: METHOD
Analysis Method: 8011

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	0.020	0.00014	1	05/31/11	05/31/11	JWG1101266	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.020	0.00038	1	05/31/11	05/31/11	JWG1101266	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	113	77-150	05/31/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-9A
Lab Code: J1102220-001

Service Request: J1102220
Date Collected: 5/18/11 0825
Date Received: 5/19/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/26/11	5/31/11 14:32	
Arsenic, Total Recoverable	6020	1.45		µg/L	0.50	0.40	1	5/26/11	5/31/11 14:32	
Barium, Total Recoverable	6020	4.5		µg/L	2.0	0.3	1	5/26/11	5/31/11 14:32	
Beryllium, Total Recoverable	6020	0.3	I	µg/L	1.0	0.2	1	5/26/11	5/31/11 14:32	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/26/11	5/31/11 14:32	
Chromium, Total Recoverable	6020	3.5		µg/L	2.0	0.3	1	5/26/11	5/31/11 14:32	
Cobalt, Total Recoverable	6020	0.5	I	µg/L	1.0	0.08	1	5/26/11	5/31/11 14:32	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/26/11	5/31/11 14:32	
Iron, Total Recoverable	6010B	1420		µg/L	100	20	1	5/26/11	5/27/11 23:11	
Lead, Total Recoverable	6020	0.1	I	µg/L	1.0	0.06	1	5/26/11	5/31/11 14:32	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/27/11	5/27/11 17:28	
Nickel, Total Recoverable	6020	2.3		µg/L	2.0	0.2	1	5/26/11	5/31/11 14:32	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/26/11	5/31/11 14:32	
Silver, Total Recoverable	6020	0.17	I	µg/L	0.50	0.07	1	5/26/11	5/31/11 14:32	
Sodium, Total Recoverable	6010B	10.0		mg/L	0.50	0.02	1	5/26/11	5/27/11 23:10	
Thallium, Total Recoverable	6020	0.05	I	µg/L	1.0	0.03	1	5/26/11	5/31/11 14:32	
Vanadium, Total Recoverable	6020	3.8	I	µg/L	5.0	0.5	1	5/26/11	5/31/11 14:32	
Zinc, Total Recoverable	6020	ND	U	µg/L	10	1	1	5/26/11	5/31/11 14:32	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-9B
Lab Code: J1102220-002

Service Request: J1102220
Date Collected: 5/18/11 0755
Date Received: 5/19/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/26/11	5/31/11 14:37	
Arsenic, Total Recoverable	6020	0.52		µg/L	0.50	0.40	1	5/26/11	5/31/11 14:37	
Barium, Total Recoverable	6020	94.5		µg/L	2.0	0.3	1	5/26/11	5/31/11 14:37	
Beryllium, Total Recoverable	6020	0.5	I	µg/L	1.0	0.2	1	5/26/11	5/31/11 14:37	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/26/11	5/31/11 14:37	
Chromium, Total Recoverable	6020	0.9	I	µg/L	2.0	0.3	1	5/26/11	5/31/11 14:37	
Cobalt, Total Recoverable	6020	0.8	I	µg/L	1.0	0.08	1	5/26/11	5/31/11 14:37	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/26/11	5/31/11 14:37	
Iron, Total Recoverable	6010B	3340		µg/L	100	20	1	5/26/11	5/27/11 23:15	
Lead, Total Recoverable	6020	ND	U	µg/L	1.0	0.06	1	5/26/11	5/31/11 14:37	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/27/11	5/27/11 17:33	
Nickel, Total Recoverable	6020	0.6	I	µg/L	2.0	0.2	1	5/26/11	5/31/11 14:37	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/26/11	5/31/11 14:37	
Silver, Total Recoverable	6020	0.17	I	µg/L	0.50	0.07	1	5/26/11	5/31/11 14:37	
Sodium, Total Recoverable	6010B	19.1		mg/L	0.50	0.02	1	5/26/11	5/27/11 23:15	
Thallium, Total Recoverable	6020	0.04	I	µg/L	1.0	0.03	1	5/26/11	5/31/11 14:37	
Vanadium, Total Recoverable	6020	1.0	I	µg/L	5.0	0.5	1	5/26/11	5/31/11 14:37	
Zinc, Total Recoverable	6020	ND	U	µg/L	10	1	1	5/26/11	5/31/11 14:37	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-8A
Lab Code: J1102220-003

Service Request: J1102220
Date Collected: 5/18/11 1017
Date Received: 5/19/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/26/11	5/31/11 14:43	
Arsenic, Total Recoverable	6020	0.59		µg/L	0.50	0.40	1	5/26/11	5/31/11 14:43	
Barium, Total Recoverable	6020	36.9		µg/L	2.0	0.3	1	5/26/11	5/31/11 14:43	
Beryllium, Total Recoverable	6020	0.4	I	µg/L	1.0	0.2	1	5/26/11	5/31/11 14:43	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/26/11	5/31/11 14:43	
Chromium, Total Recoverable	6020	2.6		µg/L	2.0	0.3	1	5/26/11	5/31/11 14:43	
Cobalt, Total Recoverable	6020	2.1		µg/L	1.0	0.08	1	5/26/11	5/31/11 14:43	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/26/11	5/31/11 14:43	
Iron, Total Recoverable	6010B	4210		µg/L	100	20	1	5/26/11	5/27/11 23:19	
Lead, Total Recoverable	6020	0.1	I	µg/L	1.0	0.06	1	5/26/11	5/31/11 14:43	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/27/11	5/27/11 17:34	
Nickel, Total Recoverable	6020	6.0		µg/L	2.0	0.2	1	5/26/11	5/31/11 14:43	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/26/11	5/31/11 14:43	
Silver, Total Recoverable	6020	0.16	I	µg/L	0.50	0.07	1	5/26/11	5/31/11 14:43	
Sodium, Total Recoverable	6010B	28.5		mg/L	0.50	0.02	1	5/26/11	5/27/11 23:19	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/26/11	5/31/11 14:43	
Vanadium, Total Recoverable	6020	3.0	I	µg/L	5.0	0.5	1	5/26/11	5/31/11 14:43	
Zinc, Total Recoverable	6020	1	I	µg/L	10	1	1	5/26/11	5/31/11 14:43	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-8B
Lab Code: J1102220-004

Service Request: J1102220
Date Collected: 5/18/11 1055
Date Received: 5/19/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/26/11	5/31/11 14:48	
Arsenic, Total Recoverable	6020	ND	U	µg/L	0.50	0.40	1	5/26/11	5/31/11 14:48	
Barium, Total Recoverable	6020	32.4		µg/L	2.0	0.3	1	5/26/11	5/31/11 14:48	
Beryllium, Total Recoverable	6020	0.4	I	µg/L	1.0	0.2	1	5/26/11	5/31/11 14:48	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/26/11	5/31/11 14:48	
Chromium, Total Recoverable	6020	2.8		µg/L	2.0	0.3	1	5/26/11	5/31/11 14:48	
Cobalt, Total Recoverable	6020	0.2	I	µg/L	1.0	0.08	1	5/26/11	5/31/11 14:48	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/26/11	5/31/11 14:48	
Iron, Total Recoverable	6010B	950		µg/L	100	20	1	5/26/11	5/28/11 00:07	
Lead, Total Recoverable	6020	2.1		µg/L	1.0	0.06	1	5/26/11	5/31/11 14:48	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/27/11	5/27/11 17:36	
Nickel, Total Recoverable	6020	0.6	I	µg/L	2.0	0.2	1	5/26/11	5/31/11 14:48	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/26/11	5/31/11 14:48	
Silver, Total Recoverable	6020	0.16	I	µg/L	0.50	0.07	1	5/26/11	5/31/11 14:48	
Sodium, Total Recoverable	6010B	5.55		mg/L	0.50	0.02	1	5/26/11	5/28/11 00:07	
Thallium, Total Recoverable	6020	0.03	I	µg/L	1.0	0.03	1	5/26/11	5/31/11 14:48	
Vanadium, Total Recoverable	6020	5.5		µg/L	5.0	0.5	1	5/26/11	5/31/11 14:48	
Zinc, Total Recoverable	6020	ND	U	µg/L	10	1	1	5/26/11	5/31/11 14:48	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-7A
Lab Code: J1102220-005

Service Request: J1102220
Date Collected: 5/18/11 12:55
Date Received: 5/19/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	0.4	I	µg/L	2.0	0.2	1	5/26/11	5/31/11 15:25	
Arsenic, Total Recoverable	6020	1.06		µg/L	0.50	0.40	1	5/26/11	5/31/11 15:25	
Barium, Total Recoverable	6020	11.9		µg/L	2.0	0.3	1	5/26/11	5/31/11 15:25	
Beryllium, Total Recoverable	6020	0.3	I	µg/L	1.0	0.2	1	5/26/11	5/31/11 15:25	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/26/11	5/31/11 15:25	
Chromium, Total Recoverable	6020	1.2	I	µg/L	2.0	0.3	1	5/26/11	5/31/11 15:25	
Cobalt, Total Recoverable	6020	1.6		µg/L	1.0	0.08	1	5/26/11	5/31/11 15:25	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/26/11	5/31/11 15:25	
Iron, Total Recoverable	6010B	10100		µg/L	100	20	1	5/26/11	5/28/11 00:11	
Lead, Total Recoverable	6020	ND	U	µg/L	1.0	0.06	1	5/26/11	5/31/11 15:25	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/27/11	5/27/11 17:37	
Nickel, Total Recoverable	6020	1.2	I	µg/L	2.0	0.2	1	5/26/11	5/31/11 15:25	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/26/11	5/31/11 15:25	
Silver, Total Recoverable	6020	0.18	I	µg/L	0.50	0.07	1	5/26/11	5/31/11 15:25	
Sodium, Total Recoverable	6010B	17.9		mg/L	0.50	0.02	1	5/26/11	5/28/11 00:11	
Thallium, Total Recoverable	6020	0.05	I	µg/L	1.0	0.03	1	5/26/11	5/31/11 15:25	
Vanadium, Total Recoverable	6020	2.6	I	µg/L	5.0	0.5	1	5/26/11	5/31/11 15:25	
Zinc, Total Recoverable	6020	ND	U	µg/L	10	1	1	5/26/11	5/31/11 15:25	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-7B
Lab Code: J1102220-006

Service Request: J1102220
Date Collected: 5/18/11 1227
Date Received: 5/19/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	0.2	I	µg/L	2.0	0.2	1	5/26/11	5/31/11 15:30	
Arsenic, Total Recoverable	6020	0.56		µg/L	0.50	0.40	1	5/26/11	5/31/11 15:30	
Barium, Total Recoverable	6020	58.1		µg/L	2.0	0.3	1	5/26/11	5/31/11 15:30	
Beryllium, Total Recoverable	6020	0.4	I	µg/L	1.0	0.2	1	5/26/11	5/31/11 15:30	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/26/11	5/31/11 15:30	
Chromium, Total Recoverable	6020	0.7	I	µg/L	2.0	0.3	1	5/26/11	5/31/11 15:30	
Cobalt, Total Recoverable	6020	0.4	I	µg/L	1.0	0.08	1	5/26/11	5/31/11 15:30	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/26/11	5/31/11 15:30	
Iron, Total Recoverable	6010B	2410		µg/L	100	20	1	5/26/11	5/28/11 00:17	
Lead, Total Recoverable	6020	ND	U	µg/L	1.0	0.06	1	5/26/11	5/31/11 15:30	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/27/11	5/27/11 17:44	
Nickel, Total Recoverable	6020	1.0	I	µg/L	2.0	0.2	1	5/26/11	5/31/11 15:30	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/26/11	5/31/11 15:30	
Silver, Total Recoverable	6020	0.18	I	µg/L	0.50	0.07	1	5/26/11	5/31/11 15:30	
Sodium, Total Recoverable	6010B	12.1		mg/L	0.50	0.02	1	5/26/11	5/28/11 00:16	
Thallium, Total Recoverable	6020	0.04	I	µg/L	1.0	0.03	1	5/26/11	5/31/11 15:30	
Vanadium, Total Recoverable	6020	0.7	I	µg/L	5.0	0.5	1	5/26/11	5/31/11 15:30	
Zinc, Total Recoverable	6020	ND	U	µg/L	10	1	1	5/26/11	5/31/11 15:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-6A
Lab Code: J1102220-007

Service Request: J1102220
Date Collected: 5/18/11 1500
Date Received: 5/19/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/26/11	5/31/11 15:35	
Arsenic, Total Recoverable	6020	0.91		µg/L	0.50	0.40	1	5/26/11	5/31/11 15:35	
Barium, Total Recoverable	6020	20.8		µg/L	2.0	0.3	1	5/26/11	5/31/11 15:35	
Beryllium, Total Recoverable	6020	0.4	I	µg/L	1.0	0.2	1	5/26/11	5/31/11 15:35	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/26/11	5/31/11 15:35	
Chromium, Total Recoverable	6020	1.0	I	µg/L	2.0	0.3	1	5/26/11	5/31/11 15:35	
Cobalt, Total Recoverable	6020	1.6		µg/L	1.0	0.08	1	5/26/11	5/31/11 15:35	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/26/11	5/31/11 15:35	
Iron, Total Recoverable	6010B	27500		µg/L	100	20	1	5/26/11	5/28/11 00:21	
Lead, Total Recoverable	6020	ND	U	µg/L	1.0	0.06	1	5/26/11	5/31/11 15:35	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/27/11	5/27/11 17:46	
Nickel, Total Recoverable	6020	1.3	I	µg/L	2.0	0.2	1	5/26/11	5/31/11 15:35	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/26/11	5/31/11 15:35	
Silver, Total Recoverable	6020	0.18	I	µg/L	0.50	0.07	1	5/26/11	5/31/11 15:35	
Sodium, Total Recoverable	6010B	58.9		mg/L	0.50	0.02	1	5/26/11	5/28/11 00:21	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/26/11	5/31/11 15:35	
Vanadium, Total Recoverable	6020	1.3	I	µg/L	5.0	0.5	1	5/26/11	5/31/11 15:35	
Zinc, Total Recoverable	6020	1	I	µg/L	10	1	1	5/26/11	5/31/11 15:35	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-6B
Lab Code: J1102220-008

Service Request: J1102220
Date Collected: 5/18/11 1425
Date Received: 5/19/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/26/11	5/31/11 15:40	
Arsenic, Total Recoverable	6020	0.64		µg/L	0.50	0.40	1	5/26/11	5/31/11 15:40	
Barium, Total Recoverable	6020	20.4		µg/L	2.0	0.3	1	5/26/11	5/31/11 15:40	
Beryllium, Total Recoverable	6020	0.4	I	µg/L	1.0	0.2	1	5/26/11	5/31/11 15:40	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/26/11	5/31/11 15:40	
Chromium, Total Recoverable	6020	1.1	I	µg/L	2.0	0.3	1	5/26/11	5/31/11 15:40	
Cobalt, Total Recoverable	6020	0.1	I	µg/L	1.0	0.08	1	5/26/11	5/31/11 15:40	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/26/11	5/31/11 15:40	
Iron, Total Recoverable	6010B	800		µg/L	100	20	1	5/26/11	5/28/11 00:26	
Lead, Total Recoverable	6020	ND	U	µg/L	1.0	0.06	1	5/26/11	5/31/11 15:40	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/27/11	5/27/11 17:50	
Nickel, Total Recoverable	6020	0.6	I	µg/L	2.0	0.2	1	5/26/11	5/31/11 15:40	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/26/11	5/31/11 15:40	
Silver, Total Recoverable	6020	0.16	I	µg/L	0.50	0.07	1	5/26/11	5/31/11 15:40	
Sodium, Total Recoverable	6010B	5.84		mg/L	0.50	0.02	1	5/26/11	5/28/11 00:25	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/26/11	5/31/11 15:40	
Vanadium, Total Recoverable	6020	1.4	I	µg/L	5.0	0.5	1	5/26/11	5/31/11 15:40	
Zinc, Total Recoverable	6020	1	I	µg/L	10	1	1	5/26/11	5/31/11 15:40	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: EB-1
Lab Code: J1102220-009

Service Request: J1102220
Date Collected: 5/18/11 0840
Date Received: 5/19/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/26/11	5/31/11 15:45	
Arsenic, Total Recoverable	6020	ND	U	µg/L	0.50	0.40	1	5/26/11	5/31/11 15:45	
Barium, Total Recoverable	6020	0.5	I	µg/L	2.0	0.3	1	5/26/11	5/31/11 15:45	
Beryllium, Total Recoverable	6020	0.3	I	µg/L	1.0	0.2	1	5/26/11	5/31/11 15:45	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/26/11	5/31/11 15:45	
Chromium, Total Recoverable	6020	ND	U	µg/L	2.0	0.3	1	5/26/11	5/31/11 15:45	
Cobalt, Total Recoverable	6020	ND	U	µg/L	1.0	0.08	1	5/26/11	5/31/11 15:45	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/26/11	5/31/11 15:45	
Iron, Total Recoverable	6010B	ND	U	µg/L	100	20	1	5/26/11	5/28/11 00:30	
Lead, Total Recoverable	6020	ND	U	µg/L	1.0	0.06	1	5/26/11	5/31/11 15:45	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/27/11	5/27/11 17:52	
Nickel, Total Recoverable	6020	0.2	I	µg/L	2.0	0.2	1	5/26/11	5/31/11 15:45	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/26/11	5/31/11 15:45	
Silver, Total Recoverable	6020	0.19	I	µg/L	0.50	0.07	1	5/26/11	5/31/11 15:45	
Sodium, Total Recoverable	6010B	0.28	I	mg/L	0.50	0.02	1	5/26/11	5/28/11 00:30	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/26/11	5/31/11 15:45	
Vanadium, Total Recoverable	6020	ND	U	µg/L	5.0	0.5	1	5/26/11	5/31/11 15:45	
Zinc, Total Recoverable	6020	ND	U	µg/L	10	1	1	5/26/11	5/31/11 15:45	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1102220-MB

Service Request: J1102220
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	0.3	I	µg/L	2.0	0.2	1	5/26/11	5/31/11 14:11	
Arsenic, Total Recoverable	6020	ND	U	µg/L	0.50	0.40	1	5/26/11	5/31/11 14:11	
Barium, Total Recoverable	6020	ND	U	µg/L	2.0	0.3	1	5/26/11	5/31/11 14:11	
Beryllium, Total Recoverable	6020	0.3	I	µg/L	1.0	0.2	1	5/26/11	5/31/11 14:11	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/26/11	5/31/11 14:11	
Chromium, Total Recoverable	6020	ND	U	µg/L	2.0	0.3	1	5/26/11	5/31/11 14:11	
Cobalt, Total Recoverable	6020	ND	U	µg/L	1.0	0.08	1	5/26/11	5/31/11 14:11	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/26/11	5/31/11 14:11	
Iron, Total Recoverable	6010B	ND	U	µg/L	100	20	1	5/26/11	5/27/11 22:33	
Lead, Total Recoverable	6020	ND	U	µg/L	1.0	0.06	1	5/26/11	5/31/11 14:11	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/27/11	5/27/11 17:25	
Nickel, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/26/11	5/31/11 14:11	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/26/11	5/31/11 14:11	
Silver, Total Recoverable	6020	0.19	I	µg/L	0.50	0.07	1	5/26/11	5/31/11 14:11	
Sodium, Total Recoverable	6010B	0.12	I	mg/L	0.50	0.02	1	5/26/11	5/27/11 22:33	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/26/11	5/31/11 14:11	
Vanadium, Total Recoverable	6020	ND	U	µg/L	5.0	0.5	1	5/26/11	5/31/11 14:11	
Zinc, Total Recoverable	6020	ND	U	µg/L	10	1	1	5/26/11	5/31/11 14:11	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-9A
Lab Code: J1102220-001

Service Request: J1102220
Date Collected: 5/18/11 0825
Date Received: 5/19/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	10.2	mg/L	0.050	0.025	5	NA	5/23/11 12:53	
Chloride	300.0	24.7	mg/L	0.50	0.10	1	NA	5/19/11 19:08	
Nitrate as Nitrogen	300.0	ND U	mg/L	0.20	0.04	1	NA	5/19/11 19:08	
Solids, Total Dissolved	SM 2540 C	151	mg/L	10	10	1	NA	5/24/11 14:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-9B
Lab Code: J1102220-002

Service Request: J1102220
Date Collected: 5/18/11 0755
Date Received: 5/19/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	0.225		mg/L	0.010	0.005	1	NA	5/23/11 11:57	
Chloride	300.0	58.2		mg/L	0.50	0.10	1	NA	5/19/11 19:23	
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.04	1	NA	5/19/11 19:23	
Solids, Total Dissolved	SM 2540 C	156		mg/L	10	10	1	NA	5/24/11 14:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-8A
Lab Code: J1102220-003

Service Request: J1102220
Date Collected: 5/18/11 10:17
Date Received: 5/19/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	6.17	mg/L	0.010	0.005	1	NA	5/23/11 11:52	
Chloride	300.0	93.1	mg/L	0.50	0.10	1	NA	5/19/11 20:08	
Nitrate as Nitrogen	300.0	ND U	mg/L	0.20	0.04	1	NA	5/19/11 20:08	
Solids, Total Dissolved	SM 2540 C	199	mg/L	10	10	1	NA	5/24/11 14:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-8B
Lab Code: J1102220-004

Service Request: J1102220
Date Collected: 5/18/11 1055
Date Received: 5/19/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	0.124		mg/L	0.010	0.005	1	NA	5/23/11 11:53	
Chloride	300.0	10.4		mg/L	0.50	0.10	1	NA	5/19/11 20:23	
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.04	1	NA	5/19/11 20:23	
Solids, Total Dissolved	SM 2540 C	82		mg/L	10	10	1	NA	5/24/11 14:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-7A
Lab Code: J1102220-005

Service Request: J1102220
Date Collected: 5/18/11 1255
Date Received: 5/19/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	3.34	mg/L	0.010	0.005	1	NA	5/23/11 11:58	
Chloride	300.0	23.3	mg/L	0.50	0.10	1	NA	5/19/11 20:38	
Nitrate as Nitrogen	300.0	ND U	mg/L	0.20	0.04	1	NA	5/19/11 20:38	
Solids, Total Dissolved	SM 2540 C	111	mg/L	10	10	1	NA	5/24/11 14:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-7B
Lab Code: J1102220-006

Service Request: J1102220
Date Collected: 5/18/11 1227
Date Received: 5/19/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	0.182	mg/L	0.010	0.005	1	NA	5/23/11 11:59	
Chloride	300.0	36.6	mg/L	0.50	0.10	1	NA	5/19/11 20:52	
Nitrate as Nitrogen	300.0	ND U	mg/L	0.20	0.04	1	NA	5/19/11 20:52	
Solids, Total Dissolved	SM 2540 C	108	mg/L	10	10	1	NA	5/24/11 14:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-6A
Lab Code: J1102220-007

Service Request: J1102220
Date Collected: 5/18/11 1500
Date Received: 5/19/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	4.70	mg/L	0.010	0.005	1	NA	5/23/11 12:02	
Chloride	300.0	154	mg/L	0.50	0.10	1	NA	5/19/11 21:37	
Nitrate as Nitrogen	300.0	ND U	mg/L	0.20	0.04	1	NA	5/19/11 21:37	
Solids, Total Dissolved	SM 2540 C	286	mg/L	10	10	1	NA	5/24/11 14:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-6B
Lab Code: J1102220-008

Service Request: J1102220
Date Collected: 5/18/11 1425
Date Received: 5/19/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	0.153	mg/L	0.010	0.005	1	NA	5/23/11 12:04	
Chloride	300.0	11.9	mg/L	0.50	0.10	1	NA	5/19/11 21:52	
Nitrate as Nitrogen	300.0	ND U	mg/L	0.20	0.04	1	NA	5/19/11 21:52	
Solids, Total Dissolved	SM 2540 C	50	mg/L	10	10	1	NA	5/24/11 14:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: EB-1
Lab Code: J1102220-009

Service Request: J1102220
Date Collected: 5/18/11 0840
Date Received: 5/19/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	ND	U	mg/L	0.010	0.005	1	NA	5/23/11 12:05	
Chloride	300.0	ND	U	mg/L	0.50	0.10	1	NA	5/19/11 22:07	
Nitrate as Nitrogen	300.0	0.21		mg/L	0.20	0.04	1	NA	5/19/11 22:07	
Solids, Total Dissolved	SM 2540 C	ND	U	mg/L	10	10	1	NA	5/24/11 14:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1102220-MB1

Service Request: J1102220
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	ND	U	mg/L	0.010	0.005	1	NA	5/23/11 11:26	
Chloride	300.0	ND	U	mg/L	0.50	0.10	1	NA	5/19/11 18:32	
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.04	1	NA	5/19/11 18:32	
Solids, Total Dissolved	SM 2540 C	ND	U	mg/L	10	10	1	NA	5/24/11 14:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1102220-MB2

Service Request: J1102220
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	ND	U	mg/L	0.010	0.005	1	NA	5/23/11 12:00	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: J1102220

Surrogate Recovery Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: Percent

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
MW-9A	J1102220-001	104	121	98	101
MW-9B	J1102220-002	102	108	99	95
MW-8A	J1102220-003	101	116	100	98
MW-8B	J1102220-004	100	112	94	92
MW-7A	J1102220-005	101	110	102	99
MW-7B	J1102220-006	101	112	99	100
MW-6A	J1102220-007	99	116	99	99
MW-6B	J1102220-008	104	111	100	102
EB-1	J1102220-009	93	105	98	103
Trip Blank	J1102220-010	98	110	96	94
Method Blank	JQ1102964-02	95	105	93	99
Method Blank	JQ1102965-01	96	99	96	98
Lab Control Sample	JQ1102964-01	95	103	96	92
Lab Control Sample	JQ1102965-02	97	99	96	101
MW-8BMS	JQ1102964-03	106	103	102	100
MW-8BDMS	JQ1102964-04	106	111	104	96

Surrogate Recovery Control Limits(%)

Sur1	= 1,2-Dichloroethane-d4	68 - 118
Sur2	= 4-Bromofluorobenzene	78 - 129
Sur3	= Dibromofluoromethane	80 - 114
Sur4	= Toluene-d8	87 - 118

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: J1102220
 Date Collected: 5/18/11
 Date Received: 5/19/11
 Date Analyzed: 5/27/11

Matrix Spike Summary
 Volatile Organic Compounds by GC/MS

Sample Name: MW-8B
 Lab Code: J1102220-004

Units: µg/L
 Basis: NA

Analytical Method: 8260B

Analyte Name	Sample Result	MW-8BMS Matrix Spike JQ1102964-03			MW-8BDMS Duplicate Matrix Spike JQ1102964-04			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,1,1,2-Tetrachloroethane	ND	21.7	20.0	108	20.4	20.0	102	79 - 120	6	30
1,1,1-Trichloroethane (TCA)	ND	21.4	20.0	107	21.1	20.0	105	78 - 120	1	30
1,1,2,2-Tetrachloroethane	ND	23.6	20.0	118	22.5	20.0	113	65 - 137	5	30
1,1,2-Trichloroethane	ND	24.0	20.0	120	23.3	20.0	116	81 - 121	3	30
1,1-Dichloroethane (1,1-DCA)	ND	21.5	20.0	107	22.3	20.0	112	83 - 119	4	30
1,1-Dichloroethene (1,1-DCE)	ND	21.2	20.0	106	20.9	20.0	105	79 - 123	1	30
1,2,3-Trichloropropane	ND	23.0	20.0	115	22.1	20.0	110	71 - 129	4	30
1,2-Dibromo-3-chloropropane (DBC)	ND	16.8	20.0	84	19.1	20.0	95	36 - 143	12	30
1,2-Dibromoethane (EDB)	ND	23.6	20.0	118	22.5	20.0	112	80 - 122	5	30
1,2-Dichlorobenzene	ND	23.7	20.0	118 *	23.6	20.0	118 *	79 - 114	<1	30
1,2-Dichloroethane	ND	22.7	20.0	114	22.1	20.0	110	73 - 120	3	30
1,2-Dichloropropane	ND	22.1	20.0	110	24.5	20.0	123 *	86 - 116	11	30
1,4-Dichlorobenzene	ND	23.3	20.0	116	22.2	20.0	111	77 - 117	5	30
2-Butanone (MEK)	ND	107	100	107	116	100	116	38 - 152	8	30
2-Hexanone	ND	110	100	110	112	100	112	63 - 131	1	30
4-Methyl-2-pentanone (MIBK)	ND	112	100	112	111	100	111	69 - 127	<1	30
Acetone	ND	120	100	120	130	100	130	45 - 157	9	30
Acrylonitrile	ND	111	100	111	122	100	122	56 - 139	9	30
Benzene	ND	22.4	20.0	112	22.2	20.0	111	83 - 118	<1	30
Bromochloromethane	ND	21.5	20.0	107	22.2	20.0	111	82 - 117	3	30
Bromodichloromethane	ND	22.2	20.0	111	22.2	20.0	111	77 - 120	<1	30
Bromoform	ND	19.9	20.0	99	19.0	20.0	95	38 - 149	5	30
Bromomethane	ND	21.1	20.0	106	20.9	20.0	104	78 - 132	1	30
Carbon Disulfide	ND	113	100	113	117	100	117	74 - 132	3	30
Carbon Tetrachloride	ND	18.7	20.0	93	17.8	20.0	89	67 - 129	5	30
Chlorobenzene	ND	24.1	20.0	121	21.4	20.0	107	83 - 122	12	30
Chloroethane	ND	20.5	20.0	103	23.9	20.0	120	80 - 129	15	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
 Project: JED SWDF
 Sample Matrix: Water

Service Request: J1102220
 Date Collected: 5/18/11
 Date Received: 5/19/11
 Date Analyzed: 5/27/11

Matrix Spike Summary
 Volatile Organic Compounds by GC/MS

Sample Name: MW-8B
 Lab Code: J1102220-004

Units: µg/L
 Basis: NA

Analytical Method: 8260B

Analyte Name	Sample Result	MW-8BMS Matrix Spike JQ1102964-03			MW-8BDMS Duplicate Matrix Spike JQ1102964-04			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Chloroform	ND	21.8	20.0	109	21.8	20.0	109	81 - 118	<1	30
Chloromethane	ND	21.0	20.0	105	22.4	20.0	112	61 - 138	6	30
cis-1,2-Dichloroethene	ND	22.0	20.0	110	23.2	20.0	116	74 - 127	6	30
cis-1,3-Dichloropropene	ND	22.5	20.0	112	21.7	20.0	109	80 - 120	3	30
Dibromochloromethane	ND	21.2	20.0	106	19.7	20.0	99	71 - 122	7	30
Dibromomethane	ND	23.3	20.0	117	23.5	20.0	117	73 - 125	<1	30
Ethylbenzene	ND	23.2	20.0	116	20.6	20.0	103	82 - 124	12	30
Iodomethane	ND	98.5	100	99	101	100	101	78 - 128	2	30
m,p-Xylenes	ND	43.0	40.0	108	41.6	40.0	104	82 - 125	3	30
Methylene Chloride	ND	23.6	20.0	118	24.0	20.0	120	70 - 134	2	30
o-Xylene	ND	22.3	20.0	112	21.4	20.0	107	82 - 122	4	30
Styrene	ND	21.8	20.0	109	21.0	20.0	105	82 - 123	4	30
Tetrachloroethene (PCE)	ND	20.5	20.0	102	20.2	20.0	101	77 - 129	2	30
Toluene	ND	23.2	20.0	116	21.3	20.0	107	82 - 122	8	30
trans-1,2-Dichloroethene	ND	22.2	20.0	111	22.4	20.0	112	81 - 119	1	30
trans-1,3-Dichloropropene	ND	20.7	20.0	104	20.0	20.0	100	71 - 124	4	30
trans-1,4-Dichloro-2-butene	ND	1.64	20.0	8 *	1.39	20.0	7 *	10 - 172	17	30
Trichloroethene (TCE)	ND	20.1	20.0	101	20.2	20.0	101	81 - 120	<1	30
Trichlorofluoromethane	ND	20.4	20.0	102	20.0	20.0	100	72 - 127	2	30
Vinyl Acetate	ND	87.8	100	88	98.3	100	98	50 - 145	11	30
Vinyl Chloride	ND	20.6	20.0	103	22.2	20.0	111	72 - 133	7	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
 Project: JED SWDF
 Sample Matrix: Water

Service Request: J1102220
 Date Analyzed: 5/27/11

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L

Basis: NA

Analysis Lot: 247970

Lab Control Sample
 JQ1102964-01

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	18.9	20.0	94	79 - 120
1,1,1-Trichloroethane (TCA)	16.4	20.0	82	78 - 120
1,1,2,2-Tetrachloroethane	19.9	20.0	99	65 - 137
1,1,2-Trichloroethane	20.0	20.0	100	81 - 121
1,1-Dichloroethane (1,1-DCA)	18.7	20.0	94	83 - 119
1,1-Dichloroethene (1,1-DCE)	17.7	20.0	88	79 - 123
1,2,3-Trichloropropane	19.9	20.0	99	71 - 129
1,2-Dibromo-3-chloropropane (DBCP)	15.7	20.0	79	36 - 143
1,2-Dibromoethane (EDB)	19.6	20.0	98	80 - 122
1,2-Dichlorobenzene	19.1	20.0	95	79 - 114
1,2-Dichloroethane	18.3	20.0	91	73 - 120
1,2-Dichloropropane	20.8	20.0	104	86 - 116
1,4-Dichlorobenzene	18.3	20.0	92	77 - 117
2-Butanone (MEK)	108	100	108	38 - 152
2-Hexanone	103	100	103	63 - 131
4-Methyl-2-pentanone (MIBK)	108	100	108	69 - 127
Acetone	112	100	112	45 - 157
Acrylonitrile	116	100	116	56 - 139
Benzene	19.0	20.0	95	83 - 118
Bromochloromethane	19.1	20.0	96	82 - 117
Bromodichloromethane	18.6	20.0	93	77 - 120
Bromoform	17.4	20.0	87	38 - 149
Bromomethane	17.6	20.0	88	78 - 132
Carbon Disulfide	94.3	100	94	74 - 132
Carbon Tetrachloride	15.1	20.0	75	67 - 129
Chlorobenzene	17.8	20.0	89	83 - 122
Chloroethane	18.4	20.0	92	80 - 129
Chloroform	18.4	20.0	92	81 - 118
Chloromethane	19.7	20.0	99	61 - 138
cis-1,2-Dichloroethene	19.5	20.0	98	74 - 127
cis-1,3-Dichloropropene	18.7	20.0	93	80 - 120
Dibromochloromethane	18.4	20.0	92	71 - 122

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: J1102220
Date Analyzed: 5/27/11

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L

Basis: NA

Analysis Lot: 247970

Lab Control Sample
JQ1102964-01

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Dibromomethane	20.1	20.0	100	73 - 125
Ethylbenzene	18.0	20.0	90	82 - 124
Iodomethane	87.7	100	88	78 - 128
m,p-Xylenes	33.3	40.0	83	82 - 125
Methylene Chloride	20.5	20.0	103	70 - 134
o-Xylene	17.4	20.0	87	82 - 122
Styrene	18.8	20.0	94	82 - 123
Tetrachloroethene (PCE)	17.1	20.0	85	77 - 129
Toluene	18.5	20.0	93	82 - 122
trans-1,2-Dichloroethene	18.5	20.0	93	81 - 119
trans-1,3-Dichloropropene	17.9	20.0	90	71 - 124
trans-1,4-Dichloro-2-butene	4.84	20.0	24	10 - 172
Trichloroethene (TCE)	17.4	20.0	87	81 - 120
Trichlorofluoromethane	15.4	20.0	77	72 - 127
Vinyl Acetate	84.1	100	84	50 - 145
Vinyl Chloride	17.7	20.0	89	72 - 133

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: J1102220
 Date Analyzed: 5/31/11

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L

Basis: NA

Analysis Lot: 247998

Lab Control Sample
 JQ1102965-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	18.7	20.0	93	79 - 120
1,1,1-Trichloroethane (TCA)	17.5	20.0	88	78 - 120
1,1,2,2-Tetrachloroethane	19.7	20.0	99	65 - 137
1,1,2-Trichloroethane	20.4	20.0	102	81 - 121
1,1-Dichloroethane (1,1-DCA)	19.1	20.0	95	83 - 119
1,1-Dichloroethene (1,1-DCE)	18.7	20.0	94	79 - 123
1,2,3-Trichloropropane	19.4	20.0	97	71 - 129
1,2-Dibromo-3-chloropropane (DBCP)	15.3	20.0	77	36 - 143
1,2-Dibromoethane (EDB)	19.3	20.0	96	80 - 122
1,2-Dichlorobenzene	18.5	20.0	92	79 - 114
1,2-Dichloroethane	17.9	20.0	89	73 - 120
1,2-Dichloropropane	21.0	20.0	105	86 - 116
1,4-Dichlorobenzene	18.5	20.0	92	77 - 117
2-Butanone (MEK)	95.7	100	96	38 - 152
2-Hexanone	103	100	103	63 - 131
4-Methyl-2-pentanone (MIBK)	103	100	103	69 - 127
Acetone	106	100	106	45 - 157
Acrylonitrile	105	100	105	56 - 139
Benzene	19.6	20.0	98	83 - 118
Bromochloromethane	18.7	20.0	94	82 - 117
Bromodichloromethane	17.9	20.0	89	77 - 120
Bromoform	18.4	20.0	92	38 - 149
Bromomethane	17.3	20.0	87	78 - 132
Carbon Disulfide	99.9	100	100	74 - 132
Carbon Tetrachloride	16.1	20.0	80	67 - 129
Chlorobenzene	19.4	20.0	97	83 - 122
Chloroethane	17.8	20.0	89	80 - 129
Chloroform	18.2	20.0	91	81 - 118
Chloromethane	19.2	20.0	96	61 - 138
cis-1,2-Dichloroethene	19.4	20.0	97	74 - 127
cis-1,3-Dichloropropene	19.9	20.0	99	80 - 120
Dibromochloromethane	18.4	20.0	92	71 - 122

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: J1102220
Date Analyzed: 5/31/11

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L

Basis: NA

Analysis Lot: 247998

Lab Control Sample
JQ1102965-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Dibromomethane	19.3	20.0	96	73 - 125
Ethylbenzene	18.7	20.0	94	82 - 124
Iodomethane	89.7	100	90	78 - 128
m,p-Xylenes	34.5	40.0	86	82 - 125
Methylene Chloride	19.6	20.0	98	70 - 134
o-Xylene	18.6	20.0	93	82 - 122
Styrene	20.0	20.0	100	82 - 123
Tetrachloroethene (PCE)	18.2	20.0	91	77 - 129
Toluene	19.5	20.0	98	82 - 122
trans-1,2-Dichloroethene	19.2	20.0	96	81 - 119
trans-1,3-Dichloropropene	18.5	20.0	93	71 - 124
trans-1,4-Dichloro-2-butene	8.99	20.0	45	10 - 172
Trichloroethene (TCE)	17.9	20.0	89	81 - 120
Trichlorofluoromethane	17.4	20.0	87	72 - 127
Vinyl Acetate	81.0	100	81	50 - 145
Vinyl Chloride	19.1	20.0	96	72 - 133

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: J1102220

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

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
Duplicate Lab Control Sample	JWG1101266-2	108
Lab Control Sample	JWG1101266-1	106
Lab Control Sample	JWG1101220-3	104
Method Blank	JWG1101266-3	113
Method Blank	JWG1101220-4	103
EB-1	J1102220-009	105
MW-6B	J1102220-008	106
MW-6A	J1102220-007	107
MW-7B	J1102220-006	100
MW-7A	J1102220-005	101
MW-8B	J1102220-004	100
MW-8A	J1102220-003	98
MW-9B	J1102220-002	102
MW-9A	J1102220-001	110

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: J1102220
Date Extracted: 05/25/2011
Date Analyzed: 05/26/2011

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: JWG1101220

Analyte Name	Lab Control Sample JWG1101220-3 Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
1,2-Dibromoethane (EDB)	0.259	0.250	104	70-130
1,2-Dibromo-3-chloropropane (DBCP)	0.233	0.250	93	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: J1102220
Date Extracted: 05/31/2011
Date Analyzed: 05/31/2011

Lab Control Spike/Duplicate 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: JWG1101266

Analyte Name	Lab Control Sample JWG1101266-1 Lab Control Spike			Duplicate Lab Control Sample JWG1101266-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	0.273	0.250	109	0.265	0.250	106	70-130	3	20
1,2-Dibromo-3-chloropropane (DBCP)	0.245	0.250	98	0.246	0.250	98	70-130	0	20

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: J1102220
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/27/11

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-8A
Lab Code: J1102220-003

Units: µg/L
Basis: NA

Analytical Method: 6010B
Prep Method: Method

Analyte Name	Sample Result	MW-8AMS Matrix Spike J1102220-003MS1			MW-8ADMS Duplicate Matrix Spike J1102220-003DMS1			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Iron, Total Recoverable	4210	9360	5000	103	9230	5000	101	75 - 125	1	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: J1102220
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/27/11

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-8A
Lab Code: J1102220-003

Units: mg/L
Basis: NA

Analytical Method: 6010B
Prep Method: Method

Analyte Name	Sample Result	MW-8AMS Matrix Spike J1102220-003MS1			MW-8ADMS Duplicate Matrix Spike J1102220-003DMS1			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Sodium, Total Recoverable	28.5	59.9	25.0	126 *	58.2	25.0	119	75 - 125	3	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: J1102220
 Date Collected: 5/18/11
 Date Received: 5/19/11
 Date Analyzed: 5/31/11

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-8B
 Lab Code: J1102220-004

Units: µg/L
 Basis: NA

Analytical Method: 6020
 Prep Method: EPA 3020A

Analyte Name	Sample Result	MW-8BMS Matrix Spike J1102220-004MS2			MW-8BDMS Duplicate Matrix Spike J1102220-004DMS2			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Antimony, Total Recoverable	ND	50.5	50.0	101	52.4	50.0	105	75 - 125	4	20
Arsenic, Total Recoverable	ND	47.4	50.0	95	50.6	50.0	101	75 - 125	7	20
Barium, Total Recoverable	32.4	84.3	50.0	104	84.8	50.0	105	75 - 125	<1	20
Beryllium, Total Recoverable	0.4	45.6	50.0	90	48.2	50.0	96	75 - 125	6	20
Cadmium, Total Recoverable	ND	49.4	50.0	99	52.6	50.0	105	75 - 125	6	20
Chromium, Total Recoverable	2.8	52.3	50.0	99	52.3	50.0	99	75 - 125	<1	20
Cobalt, Total Recoverable	0.2	50.2	50.0	100	50.6	50.0	101	75 - 125	<1	20
Copper, Total Recoverable	ND	49.7	50.0	99	50.7	50.0	101	75 - 125	2	20
Lead, Total Recoverable	2.1	55.8	50.0	107	56.0	50.0	108	75 - 125	<1	20
Nickel, Total Recoverable	0.6	49.6	50.0	98	50.1	50.0	99	75 - 125	1	20
Selenium, Total Recoverable	ND	39.9	50.0	80	44.5	50.0	89	75 - 125	11	20
Silver, Total Recoverable	0.16	50.8	50.0	101	51.7	50.0	103	75 - 125	2	20
Thallium, Total Recoverable	0.03	53.5	50.0	107	52.6	50.0	105	75 - 125	2	20
Vanadium, Total Recoverable	5.5	55.4	50.0	100	55.3	50.0	100	75 - 125	<1	20
Zinc, Total Recoverable	ND	88.2	100	88	97.4	100	97	75 - 125	10	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: J1102220
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/27/11

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-7A
Lab Code: J1102220-005

Units: µg/L
Basis: NA

Analytical Method: 7470A
Prep Method: Method

Analyte Name	Sample Result	MW-7AMS Matrix Spike J1102220-005MS3			MW-7ADMS Duplicate Matrix Spike J1102220-005DMS3			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Mercury, Total	ND	4.94	5.00	99	4.93	5.00	99	75 - 125	<1	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: J1102220
 Date Analyzed: 5/27/11 -
 5/31/11

Lab Control Sample Summary
 Inorganic Parameters

Units: µg/L

Basis: NA

Lab Control Sample
 J1102220-LCS

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Antimony, Total Recoverable	6020	52.5	50.0	105	80 - 120
Arsenic, Total Recoverable	6020	47.8	50.0	96	80 - 120
Barium, Total Recoverable	6020	51.4	50.0	103	80 - 120
Beryllium, Total Recoverable	6020	44.5	50.0	89	80 - 120
Cadmium, Total Recoverable	6020	49.1	50.0	98	80 - 120
Chromium, Total Recoverable	6020	52.5	50.0	105	80 - 120
Cobalt, Total Recoverable	6020	51.0	50.0	102	80 - 120
Copper, Total Recoverable	6020	51.8	50.0	104	80 - 120
Iron, Total Recoverable	6010B	5060	5000	101	85 - 115
Lead, Total Recoverable	6020	53.1	50.0	106	80 - 120
Mercury, Total	7470A	5.42	5.00	108	80 - 120
Nickel, Total Recoverable	6020	51.0	50.0	102	80 - 120
Selenium, Total Recoverable	6020	45.4	50.0	91	80 - 120
Silver, Total Recoverable	6020	52.4	50.0	105	80 - 120
Thallium, Total Recoverable	6020	52.1	50.0	104	80 - 120
Vanadium, Total Recoverable	6020	51.1	50.0	102	80 - 120
Zinc, Total Recoverable	6020	92.0	100	92	80 - 120

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: J1102220
Date Analyzed: 5/27/11 -
5/31/11

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L

Basis: NA

Lab Control Sample
J1102220-LCS

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Sodium, Total Recoverable	6010B	26.1	25.0	105	90 - 114

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: J1102220
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/19/11 -
5/23/11

Matrix Spike Summary
General Chemistry Parameters

Sample Name: MW-9B
Lab Code: J1102220-002

Units: mg/L
Basis: NA

MW-9BMS
Matrix Spike
J1102220-002MS1

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	350.1	0.225	1.17	1.00	95	90 - 110
Chloride	300.0	58.2	106	50.0	97	90 - 110
Nitrate as Nitrogen	300.0	ND	4.88	5.00	98	90 - 110

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: J1102220
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/23/11

Matrix Spike Summary
General Chemistry Parameters

Sample Name: MW-6A
Lab Code: J1102220-007

Units: mg/L
Basis: NA

Analytical Method: 350.1

MW-6AMS
Matrix Spike
J1102220-007MS2

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	4.70	5.72	1.00	102 #	90 - 110

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: J1102220
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/19/11 -
5/23/11

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-9B
Lab Code: J1102220-002

Units: mg/L
Basis: NA

					MW-9BDUP			RPD	RPD Limit
					Duplicate Sample				
					J1102220-002DUP1			RPD	RPD Limit
Analyte Name	Method	MRL	MDL	Sample Result	Result	Average			
Ammonia as Nitrogen	350.1	0.010	0.005	0.225	0.224	0.225	<1		20
Chloride	300.0	0.50	0.10	58.2	57.8	58.0	<1		20
Nitrate as Nitrogen	300.0	0.20	0.04	ND U	ND U	NC	NC		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: J1102220
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/24/11

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-7A
Lab Code: J1102220-005

Units: mg/L
Basis: NA

MW-7ADUP								
Duplicate Sample								
J1102220-005DUP2								
Analyte Name	Method	MRL	MDL	Sample Result	Result	Average	RPD	RPD Limit
Solids, Total Dissolved	SM 2540 C	10	10	111	109	110	2	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: J1102220
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/23/11

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-6A
Lab Code: J1102220-007

Units: mg/L
Basis: NA

MW-6ADUP								
Duplicate Sample								
J1102220-007DUP3								
Analyte Name	Method	MRL	MDL	Sample Result	Result	Average	RPD	RPD Limit
Ammonia as Nitrogen	350.1	0.010	0.005	4.70	4.70	4.70	<1	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: J1102220
Date Analyzed: 5/24/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L**Basis:** NA

		Lab Control Sample J1102220-LCS1			Duplicate Lab Control Sample J1102220-DLCS1					
Analyte Name	Method	Result	Spike		Result	Spike		% Rec Limits	RPD	RPD Limit
			Amount	% Rec		Amount	% Rec			
Solids, Total Dissolved	SM 2540 C	299	300	100	300	300	100	85 - 115	<1	20

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: J1102220
Date Analyzed: 5/19/11 -
5/24/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample J1102220-LCS2					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	350.1	0.963	1.00	96	90 - 110
Chloride	300.0	51.4	50.0	103	90 - 110
Nitrate as Nitrogen	300.0	4.89	5.00	98	90 - 110
Solids, Total Dissolved	SM 2540 C	30.0	30	100	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: J1102220
Date Analyzed: 5/23/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample J1102220-LCS3					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	350.1	0.970	1.00	97	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.

Cooler Receipt Form

Client: EDS Service Request #: 57102220
 Project: JED SWDF
 Cooler received on 5/19/11 and opened on 5/19/11 by SL
 COURIER: CAS ☒ UPS ☐ FEDEX ☐ Client ☐ Other ☐ Airbill # 1ZX5W0782210003882

- 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) 4.2
- 5 Thermometer ID 713
- 6 Temperature Blank Present? ☒ Yes ☐ No
- 7 Were Ice or Ice Packs present ☒ Ice ☐ Ice Packs ☐ No
- 8 Did all bottles arrive in good condition (unbroken, etc....)? ☒ Yes ☐ No ☐ N/A
- 9 Type of packing material present ☒ Netting ☐ Vial Holder ☒ Bubble Wrap
☐ Paper ☐ Styrofoam ☐ Other ☐ N/A
- 10 Were all bottle labels complete (sample ID, preservation, etc....)? ☒ Yes ☐ No ☐ N/A
- 11 Did all bottle labels and tags agree with custody papers? ☒ Yes ☐ No ☐ N/A
- 12 Were the correct bottles used for the tests indicated? ☒ Yes ☐ No ☐ N/A
- 13 Were all of the preserved bottles received with the appropriate preservative?
 HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2
 Preservative additions noted below
- 14 Were all samples received within analysis holding times? ☒ Yes ☐ No ☐ N/A
- 15 Were all VOA vials free of air bubbles? If present, note below ☒ Yes ☐ No ☐ N/A
- 16 Where did the bottles originate? ☒ CAS ☐ Client

Sample ID	Reagent	Lot #	ml added	Initials Date/Time

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

Client approval to run samples if discrepancies noted:

Date: 86

SR #: J1102220

Date: 5/19/11

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.

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	40mL	40mL	125mL	125mL	125mL	125mL	125mL	125mL	125mL	125mL	125mL	125mL	125mL	125mL	125mL	125mL	125mL	125mL	125mL	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	100mL	Ziplock	Misc.		
Preserve	N/A	HCl	Na2	N/A	HCl	H2SO4	HNO3	N/A	H2SO4	HNO3	ZnAc2/NaOH	NaOH	N/A	HNO3	N/A	HCl	H2SO4	HNO3	N/A	N/A	HNO3	N/A	HCl	H2SO4	N/A	N/A	N/A	N/A	Na2	S2O3	N/A	N/A		
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	N/A	N/A		
Sample #	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-1	3	3				↓		↓		↓																							-1	
-2																																		-2
-3																																		-3
-4																																		-4
-5																																		-5
-6																																		-6
-7																																		-7
-8																																		-8
-9																																		-9
-10																																		-10
-11																																		-11
-12																																		-12
-13																																		-13
-14																																		-14
-15																																		-15
-16																																		-16
-17																																		-17
-18																																		-18
-19																																		-19
-20																																		-20
-21																																		-21
-22																																		-22
-23																																		-23
-24																																		-24
-25																																		-25
-26																																		-26
-27																																		-27
-28																																		-28
-29																																		-29
-30																																		-30
-31																																		-31
-32																																		-32
-33																																		-33
-34																																		-34
-35																																		-35
-36																																		-36
-37																																		-37
-38																																		-38
-39																																		-39
-40																																		-40

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

Project Name JED SWDF		Project Number		ANALYSIS REQUESTED (Include Method Number)				PRESERVATIVE		1 0 2 3 0		
Project Manager Kirk Wills		Email Address kwillse@enphanning.com										
Company/Address EPS												
1936 Bruce B Downs Blvd #328												
Wesley Chapel, FL 33543												
Phone # 813-388-1026		FAX #										
Sampler's Signature <i>Joe Terry</i>		Sampler's Printed Name Joe Terry										
CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX								
MW-9A		5-18-11	0825	GW	9	3	1	1	1			
MW-9B			0755									
MW-8A			1017									
MW-8B			1055									
MW-7A			1255									
MW-7B			1227									
MW-6A			1500									
MW-6B			1425	GW								
EB-1		5-18-11	0840	DF H ₂ O	9	3	1	1	1			
Trap Blank		5-12-11	0830	DF H ₂ O	2	2						
SPECIAL INSTRUCTIONS/COMMENTS Cooler ID: 11138 - JED												
REPORT REQUIREMENTS I. Results Only ☒ II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data V. Specialized Forms / Custom Report Edata Yes No					TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) ☒ STANDARD REQUESTED FAX DATE REQUESTED REPORT DATE					INVOICE INFORMATION PO# BILL TO:		
RECEIVED BY <i>Joe Terry</i> Signature <i>Joe Terry</i> Printed Name <i>Joe Terry</i> Firm <i>EPS</i>					RECEIVED BY <i>Shawn Lightsey</i> Signature <i>Shawn Lightsey</i> Printed Name <i>Shawn Lightsey</i> Firm <i>EPS</i>					RECEIVED BY <i>Joe Terry</i> Signature <i>Joe Terry</i> Printed Name <i>Joe Terry</i> Firm <i>EPS</i>		
SAMPLE RECEIPT: CONDITION/COOLER TEMP: 5-18-11 / 1600					CUSTODY SEALS: Y N					RECEIVED BY <i>Joe Terry</i> Signature <i>Joe Terry</i> Printed Name <i>Joe Terry</i> Firm <i>EPS</i>		
RELINQUISHED BY <i>Joe Terry</i> Signature <i>Joe Terry</i> Printed Name <i>Joe Terry</i> Firm <i>EPS</i>					RELINQUISHED BY <i>Shawn Lightsey</i> Signature <i>Shawn Lightsey</i> Printed Name <i>Shawn Lightsey</i> Firm <i>EPS</i>					RELINQUISHED BY <i>Joe Terry</i> Signature <i>Joe Terry</i> Printed Name <i>Joe Terry</i> Firm <i>EPS</i>		
DATE/TIME 5-18-11 / 1600					DATE/TIME 5-19-11 / 0925					DATE/TIME 5-19-11 / 0925		

June 03, 2011

Service Request No: J1102246

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 20, 2011. For your reference, these analyses have been assigned our service request number **J1102246**.

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. This report shall not be reproduced except in full without written approval of the laboratory, as all results are intended to be considered in their entirety, and Columbia Analytical Services, Inc.

(CAS) cannot be held responsible for use of the less than the complete report.

Results apply only to the items submitted to the laboratory for analysis and individual items (samples)

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

Page 1 of 77

COLUMBIA ANALYTICAL SERVICES, INC.

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

Service Request No.: J1102246
Date Received: 5/20/11

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

Eight water samples and one trip blank were received for analysis at Columbia Analytical Services on 5/20/11. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at $\leq 6^{\circ}\text{C}$ 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 primary evaluation criterion was exceeded for the following analyte in Laboratory Control Sample (LCS) JQ1102967-02: Vinyl Chloride. The analyte in question was not detected in the associated field samples. Since the analyte was detected in the MRL check standard, instrument sensitivity was documented. The data quality was not significantly affected and no further corrective action was taken.

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.

Holding Time Exceptions

The analysis of sample MW-5B initially performed on 5/24/2011 and reanalyzed on 5/27/2011. There were problems with the instrument that have now been corrected. Efforts were made to reanalyze sample MW-5B as soon as possible after the analytical system was back in control. However, the reanalysis of the sample was performed two hours past the recommended holding time. The quality of the sample data and associated quality control data was not significantly affected. The results from the reanalysis are reported. It is our opinion that the impact on the data is minimal.

Metals by ICP-MS/ICP-OES/CVAA

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

Approved by _____



Date _____

6/3/11

General Chemistry Parameters

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

Approved by  Date 6/3/11

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: J1102246

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J1102246-001	MW-5B	5/19/11	07:42
J1102246-002	MW-4B	5/19/11	09:45
J1102246-003	MW-3A	5/19/11	11:52
J1102246-004	MW-3B	5/19/11	11:10
J1102246-005	MW-2A	5/19/11	13:25
J1102246-006	MW-2B	5/19/11	13:00
J1102246-007	MW-1A	5/19/11	15:32
J1102246-008	MW-1B	5/19/11	15:05
J1102246-009	Trip Blank	5/19/11	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
 Project: JED SWDF
 Sample Matrix: Water
 Sample Name: MW-5B
 Lab Code: J1102246-001

Service Request: J1102246
 Date Collected: 5/19/11 0742
 Date Received: 5/20/11
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247998

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/31/11 18:28		247998	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/31/11 18:28		247998	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/31/11 18:28		247998	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/31/11 18:28		247998	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/31/11 18:28		247998	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/31/11 18:28		247998	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/31/11 18:28		247998	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/31/11 18:28		247998	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/31/11 18:28		247998	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/31/11 18:28		247998	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/31/11 18:28		247998	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/31/11 18:28		247998	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 18:28		247998	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/31/11 18:28		247998	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/31/11 18:28		247998	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/31/11 18:28		247998	
Acetone	ND	U	50.0	5.60	1	NA	5/31/11 18:28		247998	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/31/11 18:28		247998	
Benzene	ND	U	1.00	0.210	1	NA	5/31/11 18:28		247998	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/31/11 18:28		247998	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/31/11 18:28		247998	
Bromoform	ND	U	2.00	0.420	1	NA	5/31/11 18:28		247998	
Bromomethane	ND	U	1.00	0.230	1	NA	5/31/11 18:28		247998	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/31/11 18:28		247998	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/31/11 18:28		247998	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 18:28		247998	
Chloroethane	ND	U	5.00	0.520	1	NA	5/31/11 18:28		247998	
Chloroform	ND	U	1.00	0.350	1	NA	5/31/11 18:28		247998	
Chloromethane	ND	U	1.00	0.360	1	NA	5/31/11 18:28		247998	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/31/11 18:28		247998	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/31/11 18:28		247998	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/31/11 18:28		247998	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/31/11 18:28		247998	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/31/11 18:28		247998	
Iodomethane	ND	U	5.00	2.68	1	NA	5/31/11 18:28		247998	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/31/11 18:28		247998	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

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

Sample Name: MW-5B
Lab Code: J1102246-001

Service Request: J1102246
Date Collected: 5/19/11 0742
Date Received: 5/20/11

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247998

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/31/11 18:28		247998	
o-Xylene	ND	U	1.00	0.140	1	NA	5/31/11 18:28		247998	
Styrene	ND	U	1.00	0.290	1	NA	5/31/11 18:28		247998	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/31/11 18:28		247998	
Toluene	ND	U	1.00	0.190	1	NA	5/31/11 18:28		247998	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/31/11 18:28		247998	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/31/11 18:28		247998	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/31/11 18:28		247998	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/31/11 18:28		247998	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/31/11 18:28		247998	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/31/11 18:28		247998	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/31/11 18:28		247998	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	90	68-118	5/31/11 18:28	
4-Bromofluorobenzene	106	78-129	5/31/11 18:28	
Dibromofluoromethane	94	80-114	5/31/11 18:28	
Toluene-d8	100	87-118	5/31/11 18:28	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

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

Sample Name: MW-4B
Lab Code: J1102246-002

Service Request: J1102246
Date Collected: 5/19/11 0945
Date Received: 5/20/11

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247998

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/31/11 18:58		247998	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/31/11 18:58		247998	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/31/11 18:58		247998	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/31/11 18:58		247998	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/31/11 18:58		247998	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/31/11 18:58		247998	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/31/11 18:58		247998	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/31/11 18:58		247998	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/31/11 18:58		247998	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/31/11 18:58		247998	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/31/11 18:58		247998	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/31/11 18:58		247998	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 18:58		247998	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/31/11 18:58		247998	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/31/11 18:58		247998	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/31/11 18:58		247998	
Acetone	ND	U	50.0	5.60	1	NA	5/31/11 18:58		247998	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/31/11 18:58		247998	
Benzene	ND	U	1.00	0.210	1	NA	5/31/11 18:58		247998	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/31/11 18:58		247998	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/31/11 18:58		247998	
Bromoform	ND	U	2.00	0.420	1	NA	5/31/11 18:58		247998	
Bromomethane	ND	U	1.00	0.230	1	NA	5/31/11 18:58		247998	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/31/11 18:58		247998	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/31/11 18:58		247998	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 18:58		247998	
Chloroethane	ND	U	5.00	0.520	1	NA	5/31/11 18:58		247998	
Chloroform	ND	U	1.00	0.350	1	NA	5/31/11 18:58		247998	
Chloromethane	ND	U	1.00	0.360	1	NA	5/31/11 18:58		247998	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/31/11 18:58		247998	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/31/11 18:58		247998	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/31/11 18:58		247998	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/31/11 18:58		247998	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/31/11 18:58		247998	
Iodomethane	ND	U	5.00	2.68	1	NA	5/31/11 18:58		247998	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/31/11 18:58		247998	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-4B
Lab Code: J1102246-002

Service Request: J1102246
Date Collected: 5/19/11 0945
Date Received: 5/20/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247998

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/31/11 18:58		247998	
o-Xylene	ND	U	1.00	0.140	1	NA	5/31/11 18:58		247998	
Styrene	ND	U	1.00	0.290	1	NA	5/31/11 18:58		247998	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/31/11 18:58		247998	
Toluene	ND	U	1.00	0.190	1	NA	5/31/11 18:58		247998	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/31/11 18:58		247998	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/31/11 18:58		247998	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/31/11 18:58		247998	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/31/11 18:58		247998	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/31/11 18:58		247998	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/31/11 18:58		247998	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/31/11 18:58		247998	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	91	68-118	5/31/11 18:58	
4-Bromofluorobenzene	97	78-129	5/31/11 18:58	
Dibromofluoromethane	95	80-114	5/31/11 18:58	
Toluene-d8	104	87-118	5/31/11 18:58	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
 Project: JED SWDF
 Sample Matrix: Water
 Sample Name: MW-3A
 Lab Code: J1102246-003

Service Request: J1102246
 Date Collected: 5/19/11 1152
 Date Received: 5/20/11
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247998

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/31/11 19:28		247998	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/31/11 19:28		247998	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/31/11 19:28		247998	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/31/11 19:28		247998	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/31/11 19:28		247998	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/31/11 19:28		247998	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/31/11 19:28		247998	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/31/11 19:28		247998	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/31/11 19:28		247998	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/31/11 19:28		247998	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/31/11 19:28		247998	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/31/11 19:28		247998	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 19:28		247998	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/31/11 19:28		247998	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/31/11 19:28		247998	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/31/11 19:28		247998	
Acetone	ND	U	50.0	5.60	1	NA	5/31/11 19:28		247998	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/31/11 19:28		247998	
Benzene	ND	U	1.00	0.210	1	NA	5/31/11 19:28		247998	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/31/11 19:28		247998	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/31/11 19:28		247998	
Bromoform	ND	U	2.00	0.420	1	NA	5/31/11 19:28		247998	
Bromomethane	ND	U	1.00	0.230	1	NA	5/31/11 19:28		247998	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/31/11 19:28		247998	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/31/11 19:28		247998	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 19:28		247998	
Chloroethane	ND	U	5.00	0.520	1	NA	5/31/11 19:28		247998	
Chloroform	ND	U	1.00	0.350	1	NA	5/31/11 19:28		247998	
Chloromethane	ND	U	1.00	0.360	1	NA	5/31/11 19:28		247998	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/31/11 19:28		247998	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/31/11 19:28		247998	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/31/11 19:28		247998	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/31/11 19:28		247998	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/31/11 19:28		247998	
Iodomethane	ND	U	5.00	2.68	1	NA	5/31/11 19:28		247998	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/31/11 19:28		247998	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-3A
Lab Code: J1102246-003

Service Request: J1102246
Date Collected: 5/19/11 1152
Date Received: 5/20/11

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247998

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/31/11 19:28		247998	
o-Xylene	ND	U	1.00	0.140	1	NA	5/31/11 19:28		247998	
Styrene	ND	U	1.00	0.290	1	NA	5/31/11 19:28		247998	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/31/11 19:28		247998	
Toluene	ND	U	1.00	0.190	1	NA	5/31/11 19:28		247998	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/31/11 19:28		247998	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/31/11 19:28		247998	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/31/11 19:28		247998	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/31/11 19:28		247998	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/31/11 19:28		247998	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/31/11 19:28		247998	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/31/11 19:28		247998	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	92	68-118	5/31/11 19:28	
4-Bromofluorobenzene	105	78-129	5/31/11 19:28	
Dibromofluoromethane	96	80-114	5/31/11 19:28	
Toluene-d8	99	87-118	5/31/11 19:28	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-3B
Lab Code: J1102246-004

Service Request: J1102246
Date Collected: 5/19/11 1110
Date Received: 5/20/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247998

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/31/11 19:57		247998	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/31/11 19:57		247998	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/31/11 19:57		247998	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/31/11 19:57		247998	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/31/11 19:57		247998	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/31/11 19:57		247998	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/31/11 19:57		247998	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/31/11 19:57		247998	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/31/11 19:57		247998	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/31/11 19:57		247998	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/31/11 19:57		247998	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/31/11 19:57		247998	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 19:57		247998	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/31/11 19:57		247998	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/31/11 19:57		247998	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/31/11 19:57		247998	
Acetone	ND	U	50.0	5.60	1	NA	5/31/11 19:57		247998	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/31/11 19:57		247998	
Benzene	ND	U	1.00	0.210	1	NA	5/31/11 19:57		247998	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/31/11 19:57		247998	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/31/11 19:57		247998	
Bromoform	ND	U	2.00	0.420	1	NA	5/31/11 19:57		247998	
Bromomethane	ND	U	1.00	0.230	1	NA	5/31/11 19:57		247998	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/31/11 19:57		247998	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/31/11 19:57		247998	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 19:57		247998	
Chloroethane	ND	U	5.00	0.520	1	NA	5/31/11 19:57		247998	
Chloroform	ND	U	1.00	0.350	1	NA	5/31/11 19:57		247998	
Chloromethane	ND	U	1.00	0.360	1	NA	5/31/11 19:57		247998	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/31/11 19:57		247998	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/31/11 19:57		247998	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/31/11 19:57		247998	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/31/11 19:57		247998	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/31/11 19:57		247998	
Iodomethane	ND	U	5.00	2.68	1	NA	5/31/11 19:57		247998	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/31/11 19:57		247998	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-3B
Lab Code: J1102246-004

Service Request: J1102246
Date Collected: 5/19/11 1110
Date Received: 5/20/11

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247998

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/31/11 19:57		247998	
o-Xylene	ND	U	1.00	0.140	1	NA	5/31/11 19:57		247998	
Styrene	ND	U	1.00	0.290	1	NA	5/31/11 19:57		247998	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/31/11 19:57		247998	
Toluene	ND	U	1.00	0.190	1	NA	5/31/11 19:57		247998	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/31/11 19:57		247998	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/31/11 19:57		247998	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/31/11 19:57		247998	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/31/11 19:57		247998	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/31/11 19:57		247998	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/31/11 19:57		247998	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/31/11 19:57		247998	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	90	68-118	5/31/11 19:57	
4-Bromofluorobenzene	115	78-129	5/31/11 19:57	
Dibromofluoromethane	90	80-114	5/31/11 19:57	
Toluene-d8	107	87-118	5/31/11 19:57	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-2A
Lab Code: J1102246-005

Service Request: J1102246
Date Collected: 5/19/11 1325
Date Received: 5/20/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248001

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/29/11 01:12		248001	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/29/11 01:12		248001	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/29/11 01:12		248001	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/29/11 01:12		248001	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/29/11 01:12		248001	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/29/11 01:12		248001	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/29/11 01:12		248001	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/29/11 01:12		248001	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/29/11 01:12		248001	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/29/11 01:12		248001	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/29/11 01:12		248001	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/29/11 01:12		248001	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/29/11 01:12		248001	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/29/11 01:12		248001	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/29/11 01:12		248001	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/29/11 01:12		248001	
Acetone	ND	U	50.0	5.60	1	NA	5/29/11 01:12		248001	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/29/11 01:12		248001	
Benzene	ND	U	1.00	0.210	1	NA	5/29/11 01:12		248001	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/29/11 01:12		248001	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/29/11 01:12		248001	
Bromoform	ND	U	2.00	0.420	1	NA	5/29/11 01:12		248001	
Bromomethane	ND	U	1.00	0.230	1	NA	5/29/11 01:12		248001	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/29/11 01:12		248001	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/29/11 01:12		248001	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/29/11 01:12		248001	
Chloroethane	ND	U	5.00	0.520	1	NA	5/29/11 01:12		248001	
Chloroform	ND	U	1.00	0.350	1	NA	5/29/11 01:12		248001	
Chloromethane	ND	U	1.00	0.360	1	NA	5/29/11 01:12		248001	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/29/11 01:12		248001	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/29/11 01:12		248001	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/29/11 01:12		248001	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/29/11 01:12		248001	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/29/11 01:12		248001	
Iodomethane	ND	U	5.00	2.68	1	NA	5/29/11 01:12		248001	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/29/11 01:12		248001	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-2A
Lab Code: J1102246-005

Service Request: J1102246
Date Collected: 5/19/11 1325
Date Received: 5/20/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248001

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/29/11 01:12		248001	
o-Xylene	ND	U	1.00	0.140	1	NA	5/29/11 01:12		248001	
Styrene	ND	U	1.00	0.290	1	NA	5/29/11 01:12		248001	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/29/11 01:12		248001	
Toluene	ND	U	1.00	0.190	1	NA	5/29/11 01:12		248001	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/29/11 01:12		248001	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/29/11 01:12		248001	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/29/11 01:12		248001	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/29/11 01:12		248001	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/29/11 01:12		248001	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/29/11 01:12		248001	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/29/11 01:12		248001	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	99	68-118	5/29/11 01:12	
4-Bromofluorobenzene	88	78-129	5/29/11 01:12	
Dibromofluoromethane	103	80-114	5/29/11 01:12	
Toluene-d8	103	87-118	5/29/11 01:12	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

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

Sample Name: MW-2B
Lab Code: J1102246-006

Service Request: J1102246
Date Collected: 5/19/11 1300
Date Received: 5/20/11

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248001

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/29/11 01:34		248001	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/29/11 01:34		248001	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/29/11 01:34		248001	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/29/11 01:34		248001	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/29/11 01:34		248001	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/29/11 01:34		248001	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/29/11 01:34		248001	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/29/11 01:34		248001	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/29/11 01:34		248001	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/29/11 01:34		248001	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/29/11 01:34		248001	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/29/11 01:34		248001	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/29/11 01:34		248001	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/29/11 01:34		248001	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/29/11 01:34		248001	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/29/11 01:34		248001	
Acetone	ND	U	50.0	5.60	1	NA	5/29/11 01:34		248001	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/29/11 01:34		248001	
Benzene	ND	U	1.00	0.210	1	NA	5/29/11 01:34		248001	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/29/11 01:34		248001	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/29/11 01:34		248001	
Bromoform	ND	U	2.00	0.420	1	NA	5/29/11 01:34		248001	
Bromomethane	ND	U	1.00	0.230	1	NA	5/29/11 01:34		248001	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/29/11 01:34		248001	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/29/11 01:34		248001	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/29/11 01:34		248001	
Chloroethane	ND	U	5.00	0.520	1	NA	5/29/11 01:34		248001	
Chloroform	ND	U	1.00	0.350	1	NA	5/29/11 01:34		248001	
Chloromethane	ND	U	1.00	0.360	1	NA	5/29/11 01:34		248001	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/29/11 01:34		248001	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/29/11 01:34		248001	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/29/11 01:34		248001	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/29/11 01:34		248001	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/29/11 01:34		248001	
Iodomethane	ND	U	5.00	2.68	1	NA	5/29/11 01:34		248001	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/29/11 01:34		248001	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-2B
Lab Code: J1102246-006

Service Request: J1102246
Date Collected: 5/19/11 1300
Date Received: 5/20/11

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248001

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/29/11 01:34		248001	
o-Xylene	ND	U	1.00	0.140	1	NA	5/29/11 01:34		248001	
Styrene	ND	U	1.00	0.290	1	NA	5/29/11 01:34		248001	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/29/11 01:34		248001	
Toluene	ND	U	1.00	0.190	1	NA	5/29/11 01:34		248001	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/29/11 01:34		248001	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/29/11 01:34		248001	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/29/11 01:34		248001	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/29/11 01:34		248001	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/29/11 01:34		248001	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/29/11 01:34		248001	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/29/11 01:34		248001	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	99	68-118	5/29/11 01:34	
4-Bromofluorobenzene	87	78-129	5/29/11 01:34	
Dibromofluoromethane	102	80-114	5/29/11 01:34	
Toluene-d8	104	87-118	5/29/11 01:34	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-1A
Lab Code: J1102246-007

Service Request: J1102246
Date Collected: 5/19/11 1532
Date Received: 5/20/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248454

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	6/1/11 17:26		248454	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	6/1/11 17:26		248454	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	6/1/11 17:26		248454	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	6/1/11 17:26		248454	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	6/1/11 17:26		248454	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	6/1/11 17:26		248454	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	6/1/11 17:26		248454	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	6/1/11 17:26		248454	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	6/1/11 17:26		248454	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	6/1/11 17:26		248454	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	6/1/11 17:26		248454	
1,2-Dichloropropane	0.310	I	1.00	0.190	1	NA	6/1/11 17:26		248454	
1,4-Dichlorobenzene	0.660	I	1.00	0.160	1	NA	6/1/11 17:26		248454	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	6/1/11 17:26		248454	
2-Hexanone	ND	U	25.0	2.20	1	NA	6/1/11 17:26		248454	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	6/1/11 17:26		248454	
Acetone	ND	U	50.0	5.60	1	NA	6/1/11 17:26		248454	
Acrylonitrile	ND	U	10.0	1.50	1	NA	6/1/11 17:26		248454	
Benzene	7.78		1.00	0.210	1	NA	6/1/11 17:26		248454	
Bromochloromethane	ND	U	5.00	0.270	1	NA	6/1/11 17:26		248454	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	6/1/11 17:26		248454	
Bromoform	ND	U	2.00	0.420	1	NA	6/1/11 17:26		248454	
Bromomethane	ND	U	1.00	0.230	1	NA	6/1/11 17:26		248454	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	6/1/11 17:26		248454	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	6/1/11 17:26		248454	
Chlorobenzene	ND	U	1.00	0.160	1	NA	6/1/11 17:26		248454	
Chloroethane	ND	U	5.00	0.520	1	NA	6/1/11 17:26		248454	
Chloroform	ND	U	1.00	0.350	1	NA	6/1/11 17:26		248454	
Chloromethane	ND	U	1.00	0.360	1	NA	6/1/11 17:26		248454	
cis-1,2-Dichloroethene	0.820	I	1.00	0.360	1	NA	6/1/11 17:26		248454	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	6/1/11 17:26		248454	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	6/1/11 17:26		248454	
Dibromomethane	ND	U	5.00	0.360	1	NA	6/1/11 17:26		248454	
Ethylbenzene	6.74		1.00	0.210	1	NA	6/1/11 17:26		248454	
Iodomethane	ND	U	5.00	2.68	1	NA	6/1/11 17:26		248454	
m,p-Xylenes	6.84		2.00	0.310	1	NA	6/1/11 17:26		248454	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-1A
Lab Code: J1102246-007

Service Request: J1102246
Date Collected: 5/19/11 1532
Date Received: 5/20/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248454

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	0.250	I	5.00	0.210	1	NA	6/1/11 17:26		248454	
o-Xylene	3.04		1.00	0.140	1	NA	6/1/11 17:26		248454	
Styrene	ND	U	1.00	0.290	1	NA	6/1/11 17:26		248454	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	6/1/11 17:26		248454	
Toluene	1.79		1.00	0.190	1	NA	6/1/11 17:26		248454	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	6/1/11 17:26		248454	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	6/1/11 17:26		248454	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	6/1/11 17:26		248454	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	6/1/11 17:26		248454	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	6/1/11 17:26		248454	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	6/1/11 17:26		248454	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	6/1/11 17:26		248454	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	86	68-118	6/1/11 17:26	
4-Bromofluorobenzene	106	78-129	6/1/11 17:26	
Dibromofluoromethane	92	80-114	6/1/11 17:26	
Toluene-d8	92	87-118	6/1/11 17:26	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

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

Service Request: J1102246
Date Collected: 5/19/11 1505
Date Received: 5/20/11

Sample Name: MW-1B
Lab Code: J1102246-008

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248001

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/29/11 02:18		248001	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/29/11 02:18		248001	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/29/11 02:18		248001	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/29/11 02:18		248001	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/29/11 02:18		248001	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/29/11 02:18		248001	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/29/11 02:18		248001	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/29/11 02:18		248001	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/29/11 02:18		248001	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/29/11 02:18		248001	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/29/11 02:18		248001	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/29/11 02:18		248001	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/29/11 02:18		248001	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/29/11 02:18		248001	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/29/11 02:18		248001	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/29/11 02:18		248001	
Acetone	ND	U	50.0	5.60	1	NA	5/29/11 02:18		248001	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/29/11 02:18		248001	
Benzene	ND	U	1.00	0.210	1	NA	5/29/11 02:18		248001	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/29/11 02:18		248001	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/29/11 02:18		248001	
Bromoform	ND	U	2.00	0.420	1	NA	5/29/11 02:18		248001	
Bromomethane	ND	U	1.00	0.230	1	NA	5/29/11 02:18		248001	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/29/11 02:18		248001	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/29/11 02:18		248001	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/29/11 02:18		248001	
Chloroethane	ND	U	5.00	0.520	1	NA	5/29/11 02:18		248001	
Chloroform	ND	U	1.00	0.350	1	NA	5/29/11 02:18		248001	
Chloromethane	ND	U	1.00	0.360	1	NA	5/29/11 02:18		248001	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/29/11 02:18		248001	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/29/11 02:18		248001	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/29/11 02:18		248001	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/29/11 02:18		248001	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/29/11 02:18		248001	
Iodomethane	ND	U	5.00	2.68	1	NA	5/29/11 02:18		248001	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/29/11 02:18		248001	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

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

Sample Name: MW-1B
Lab Code: J1102246-008

Service Request: J1102246
Date Collected: 5/19/11 1505
Date Received: 5/20/11

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248001

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/29/11 02:18		248001	
o-Xylene	ND	U	1.00	0.140	1	NA	5/29/11 02:18		248001	
Styrene	ND	U	1.00	0.290	1	NA	5/29/11 02:18		248001	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/29/11 02:18		248001	
Toluene	ND	U	1.00	0.190	1	NA	5/29/11 02:18		248001	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/29/11 02:18		248001	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/29/11 02:18		248001	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/29/11 02:18		248001	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/29/11 02:18		248001	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/29/11 02:18		248001	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/29/11 02:18		248001	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/29/11 02:18		248001	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	96	68-118	5/29/11 02:18	
4-Bromofluorobenzene	84	78-129	5/29/11 02:18	
Dibromofluoromethane	99	80-114	5/29/11 02:18	
Toluene-d8	106	87-118	5/29/11 02:18	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Trip Blank
Lab Code: J1102246-009

Service Request: J1102246
Date Collected: 5/19/11 0000
Date Received: 5/20/11

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248001

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/29/11 00:05		248001	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/29/11 00:05		248001	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/29/11 00:05		248001	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/29/11 00:05		248001	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/29/11 00:05		248001	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/29/11 00:05		248001	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/29/11 00:05		248001	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/29/11 00:05		248001	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/29/11 00:05		248001	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/29/11 00:05		248001	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/29/11 00:05		248001	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/29/11 00:05		248001	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/29/11 00:05		248001	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/29/11 00:05		248001	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/29/11 00:05		248001	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/29/11 00:05		248001	
Acetone	ND	U	50.0	5.60	1	NA	5/29/11 00:05		248001	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/29/11 00:05		248001	
Benzene	ND	U	1.00	0.210	1	NA	5/29/11 00:05		248001	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/29/11 00:05		248001	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/29/11 00:05		248001	
Bromoform	ND	U	2.00	0.420	1	NA	5/29/11 00:05		248001	
Bromomethane	ND	U	1.00	0.230	1	NA	5/29/11 00:05		248001	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/29/11 00:05		248001	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/29/11 00:05		248001	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/29/11 00:05		248001	
Chloroethane	ND	U	5.00	0.520	1	NA	5/29/11 00:05		248001	
Chloroform	ND	U	1.00	0.350	1	NA	5/29/11 00:05		248001	
Chloromethane	ND	U	1.00	0.360	1	NA	5/29/11 00:05		248001	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/29/11 00:05		248001	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/29/11 00:05		248001	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/29/11 00:05		248001	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/29/11 00:05		248001	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/29/11 00:05		248001	
Iodomethane	ND	U	5.00	2.68	1	NA	5/29/11 00:05		248001	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/29/11 00:05		248001	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

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

Sample Name: Trip Blank
Lab Code: J1102246-009

Service Request: J1102246
Date Collected: 5/19/11 0000
Date Received: 5/20/11

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248001

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/29/11 00:05		248001	
o-Xylene	ND	U	1.00	0.140	1	NA	5/29/11 00:05		248001	
Styrene	ND	U	1.00	0.290	1	NA	5/29/11 00:05		248001	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/29/11 00:05		248001	
Toluene	ND	U	1.00	0.190	1	NA	5/29/11 00:05		248001	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/29/11 00:05		248001	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/29/11 00:05		248001	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/29/11 00:05		248001	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/29/11 00:05		248001	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/29/11 00:05		248001	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/29/11 00:05		248001	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/29/11 00:05		248001	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	98	68-118	5/29/11 00:05	
4-Bromofluorobenzene	91	78-129	5/29/11 00:05	
Dibromofluoromethane	100	80-114	5/29/11 00:05	
Toluene-d8	102	87-118	5/29/11 00:05	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

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

Sample Name: Method Blank
Lab Code: JQ1102965-01

Service Request: J1102246
Date Collected: NA
Date Received: NA

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247998

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/31/11 11:00		247998	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/31/11 11:00		247998	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/31/11 11:00		247998	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/31/11 11:00		247998	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/31/11 11:00		247998	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/31/11 11:00		247998	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/31/11 11:00		247998	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/31/11 11:00		247998	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/31/11 11:00		247998	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/31/11 11:00		247998	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/31/11 11:00		247998	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/31/11 11:00		247998	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 11:00		247998	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/31/11 11:00		247998	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/31/11 11:00		247998	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/31/11 11:00		247998	
Acetone	ND	U	50.0	5.60	1	NA	5/31/11 11:00		247998	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/31/11 11:00		247998	
Benzene	ND	U	1.00	0.210	1	NA	5/31/11 11:00		247998	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/31/11 11:00		247998	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/31/11 11:00		247998	
Bromoform	ND	U	2.00	0.420	1	NA	5/31/11 11:00		247998	
Bromomethane	ND	U	1.00	0.230	1	NA	5/31/11 11:00		247998	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/31/11 11:00		247998	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/31/11 11:00		247998	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 11:00		247998	
Chloroethane	ND	U	5.00	0.520	1	NA	5/31/11 11:00		247998	
Chloroform	ND	U	1.00	0.350	1	NA	5/31/11 11:00		247998	
Chloromethane	ND	U	1.00	0.360	1	NA	5/31/11 11:00		247998	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/31/11 11:00		247998	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/31/11 11:00		247998	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/31/11 11:00		247998	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/31/11 11:00		247998	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/31/11 11:00		247998	
Iodomethane	ND	U	5.00	2.68	1	NA	5/31/11 11:00		247998	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/31/11 11:00		247998	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

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

Sample Name: Method Blank
Lab Code: JQ1102965-01

Service Request: J1102246
Date Collected: NA
Date Received: NA

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 247998

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/31/11 11:00		247998	
o-Xylene	ND	U	1.00	0.140	1	NA	5/31/11 11:00		247998	
Styrene	ND	U	1.00	0.290	1	NA	5/31/11 11:00		247998	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/31/11 11:00		247998	
Toluene	ND	U	1.00	0.190	1	NA	5/31/11 11:00		247998	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/31/11 11:00		247998	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/31/11 11:00		247998	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/31/11 11:00		247998	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/31/11 11:00		247998	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/31/11 11:00		247998	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/31/11 11:00		247998	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/31/11 11:00		247998	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	96	68-118	5/31/11 11:00	
4-Bromofluorobenzene	99	78-129	5/31/11 11:00	
Dibromofluoromethane	96	80-114	5/31/11 11:00	
Toluene-d8	98	87-118	5/31/11 11:00	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: JQ1102967-01

Service Request: J1102246
Date Collected: NA
Date Received: NA
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248001

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/28/11 23:43		248001	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/28/11 23:43		248001	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/28/11 23:43		248001	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/28/11 23:43		248001	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/28/11 23:43		248001	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/28/11 23:43		248001	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/28/11 23:43		248001	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/28/11 23:43		248001	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/28/11 23:43		248001	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/28/11 23:43		248001	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/28/11 23:43		248001	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/28/11 23:43		248001	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/28/11 23:43		248001	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/28/11 23:43		248001	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/28/11 23:43		248001	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/28/11 23:43		248001	
Acetone	ND	U	50.0	5.60	1	NA	5/28/11 23:43		248001	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/28/11 23:43		248001	
Benzene	ND	U	1.00	0.210	1	NA	5/28/11 23:43		248001	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/28/11 23:43		248001	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/28/11 23:43		248001	
Bromoform	ND	U	2.00	0.420	1	NA	5/28/11 23:43		248001	
Bromomethane	ND	U	1.00	0.230	1	NA	5/28/11 23:43		248001	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/28/11 23:43		248001	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/28/11 23:43		248001	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/28/11 23:43		248001	
Chloroethane	ND	U	5.00	0.520	1	NA	5/28/11 23:43		248001	
Chloroform	ND	U	1.00	0.350	1	NA	5/28/11 23:43		248001	
Chloromethane	ND	U	1.00	0.360	1	NA	5/28/11 23:43		248001	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/28/11 23:43		248001	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/28/11 23:43		248001	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/28/11 23:43		248001	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/28/11 23:43		248001	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/28/11 23:43		248001	
Iodomethane	ND	U	5.00	2.68	1	NA	5/28/11 23:43		248001	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/28/11 23:43		248001	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: JQ1102967-01

Service Request: J1102246
Date Collected: NA
Date Received: NA
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248001

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/28/11 23:43		248001	
o-Xylene	ND	U	1.00	0.140	1	NA	5/28/11 23:43		248001	
Styrene	ND	U	1.00	0.290	1	NA	5/28/11 23:43		248001	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/28/11 23:43		248001	
Toluene	ND	U	1.00	0.190	1	NA	5/28/11 23:43		248001	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/28/11 23:43		248001	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/28/11 23:43		248001	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/28/11 23:43		248001	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/28/11 23:43		248001	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/28/11 23:43		248001	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/28/11 23:43		248001	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/28/11 23:43		248001	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	94	68-118	5/28/11 23:43	
4-Bromofluorobenzene	94	78-129	5/28/11 23:43	
Dibromofluoromethane	92	80-114	5/28/11 23:43	
Toluene-d8	101	87-118	5/28/11 23:43	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

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

Sample Name: Method Blank
Lab Code: JQ1103044-02

Service Request: J1102246
Date Collected: NA
Date Received: NA

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248454

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	6/1/11 11:23		248454	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	6/1/11 11:23		248454	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	6/1/11 11:23		248454	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	6/1/11 11:23		248454	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	6/1/11 11:23		248454	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	6/1/11 11:23		248454	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	6/1/11 11:23		248454	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	6/1/11 11:23		248454	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	6/1/11 11:23		248454	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	6/1/11 11:23		248454	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	6/1/11 11:23		248454	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	6/1/11 11:23		248454	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	6/1/11 11:23		248454	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	6/1/11 11:23		248454	
2-Hexanone	ND	U	25.0	2.20	1	NA	6/1/11 11:23		248454	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	6/1/11 11:23		248454	
Acetone	ND	U	50.0	5.60	1	NA	6/1/11 11:23		248454	
Acrylonitrile	ND	U	10.0	1.50	1	NA	6/1/11 11:23		248454	
Benzene	ND	U	1.00	0.210	1	NA	6/1/11 11:23		248454	
Bromochloromethane	ND	U	5.00	0.270	1	NA	6/1/11 11:23		248454	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	6/1/11 11:23		248454	
Bromoform	ND	U	2.00	0.420	1	NA	6/1/11 11:23		248454	
Bromomethane	ND	U	1.00	0.230	1	NA	6/1/11 11:23		248454	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	6/1/11 11:23		248454	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	6/1/11 11:23		248454	
Chlorobenzene	ND	U	1.00	0.160	1	NA	6/1/11 11:23		248454	
Chloroethane	ND	U	5.00	0.520	1	NA	6/1/11 11:23		248454	
Chloroform	ND	U	1.00	0.350	1	NA	6/1/11 11:23		248454	
Chloromethane	ND	U	1.00	0.360	1	NA	6/1/11 11:23		248454	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	6/1/11 11:23		248454	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	6/1/11 11:23		248454	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	6/1/11 11:23		248454	
Dibromomethane	ND	U	5.00	0.360	1	NA	6/1/11 11:23		248454	
Ethylbenzene	ND	U	1.00	0.210	1	NA	6/1/11 11:23		248454	
Iodomethane	ND	U	5.00	2.68	1	NA	6/1/11 11:23		248454	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	6/1/11 11:23		248454	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

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

Sample Name: Method Blank
Lab Code: JQ1103044-02

Service Request: J1102246
Date Collected: NA
Date Received: NA

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248454

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	6/1/11 11:23		248454	
o-Xylene	ND	U	1.00	0.140	1	NA	6/1/11 11:23		248454	
Styrene	ND	U	1.00	0.290	1	NA	6/1/11 11:23		248454	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	6/1/11 11:23		248454	
Toluene	ND	U	1.00	0.190	1	NA	6/1/11 11:23		248454	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	6/1/11 11:23		248454	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	6/1/11 11:23		248454	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	6/1/11 11:23		248454	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	6/1/11 11:23		248454	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	6/1/11 11:23		248454	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	6/1/11 11:23		248454	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	6/1/11 11:23		248454	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	93	68-118	6/1/11 11:23	
4-Bromofluorobenzene	93	78-129	6/1/11 11:23	
Dibromofluoromethane	99	80-114	6/1/11 11:23	
Toluene-d8	96	87-118	6/1/11 11:23	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102246
Date Collected: 05/19/2011
Date Received: 05/20/2011

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

Sample Name: MW-5B
Lab Code: J1102246-001
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/25/11	05/27/11	JWG1101221	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.021	0.00040	1	05/25/11	05/27/11	JWG1101221	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	112	77-150	05/27/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102246
Date Collected: 05/19/2011
Date Received: 05/20/2011

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

Sample Name: MW-4B
Lab Code: J1102246-002
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/31/11	05/31/11	JWG1101266	
1,2-Dibromo-3-chloropropane (DBP)	ND	U	0.021	0.00039	1	05/31/11	05/31/11	JWG1101266	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	103	77-150	05/31/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102246
Date Collected: 05/19/2011
Date Received: 05/20/2011

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

Sample Name: MW-3A
Lab Code: J1102246-003
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/31/11	05/31/11	JWG1101266	
1,2-Dibromo-3-chloropropane (DIB)	ND	U	0.021	0.00039	1	05/31/11	05/31/11	JWG1101266	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	107	77-150	05/31/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102246
Date Collected: 05/19/2011
Date Received: 05/20/2011

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

Sample Name: MW-3B
Lab Code: J1102246-004
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/31/11	05/31/11	JWG1101266	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00039	1	05/31/11	05/31/11	JWG1101266	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	107	77-150	05/31/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102246
Date Collected: 05/19/2011
Date Received: 05/20/2011

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

Sample Name: MW-2A
Lab Code: J1102246-005
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/31/11	05/31/11	JWG1101266	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00039	1	05/31/11	05/31/11	JWG1101266	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	109	77-150	05/31/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102246
Date Collected: 05/19/2011
Date Received: 05/20/2011

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

Sample Name: MW-2B
Lab Code: J1102246-006
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/31/11	05/31/11	JWG1101266	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00039	1	05/31/11	05/31/11	JWG1101266	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	104	77-150	05/31/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102246
Date Collected: 05/19/2011
Date Received: 05/20/2011

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

Sample Name: MW-1A
Lab Code: J1102246-007
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/31/11	05/31/11	JWG1101266	
1,2-Dibromo-3-chloropropane (DBP)	ND	U	0.021	0.00039	1	05/31/11	05/31/11	JWG1101266	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	95	77-150	05/31/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102246
Date Collected: 05/19/2011
Date Received: 05/20/2011

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

Sample Name: MW-1B
Lab Code: J1102246-008
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/31/11	05/31/11	JWG1101266	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00039	1	05/31/11	05/31/11	JWG1101266	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	104	77-150	05/31/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102246
Date Collected: NA
Date Received: NA

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

Sample Name: Method Blank
Lab Code: JWG1101221-4
Extraction Method: METHOD
Analysis Method: 8011

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	0.020	0.00014	1	05/25/11	05/27/11	JWG1101221	
1,2-Dibromo-3-chloropropane (DBP)	ND	U	0.020	0.00038	1	05/25/11	05/27/11	JWG1101221	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	116	77-150	05/27/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102246
Date Collected: NA
Date Received: NA

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

Sample Name: Method Blank
Lab Code: JWG1101266-3
Extraction Method: METHOD
Analysis Method: 8011

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	0.020	0.00014	1	05/31/11	05/31/11	JWG1101266	
1,2-Dibromo-3-chloropropane (DBP)	ND	U	0.020	0.00038	1	05/31/11	05/31/11	JWG1101266	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	113	77-150	05/31/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-5B
Lab Code: J1102246-001

Service Request: J1102246
Date Collected: 5/19/11 0742
Date Received: 5/20/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	0.3	I	µg/L	2.0	0.2	1	5/26/11	5/31/11 16:12	
Arsenic, Total Recoverable	6020	ND	U	µg/L	0.50	0.40	1	5/26/11	5/31/11 16:12	
Barium, Total Recoverable	6020	28.6		µg/L	2.0	0.3	1	5/26/11	5/31/11 16:12	
Beryllium, Total Recoverable	6020	0.5	I	µg/L	1.0	0.2	1	5/26/11	5/31/11 16:12	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/26/11	5/31/11 16:12	
Chromium, Total Recoverable	6020	0.5	I	µg/L	2.0	0.3	1	5/26/11	5/31/11 16:12	
Cobalt, Total Recoverable	6020	0.3	I	µg/L	1.0	0.08	1	5/26/11	5/31/11 16:12	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/26/11	5/31/11 16:12	
Iron, Total Recoverable	6010B	740		µg/L	100	20	1	6/ 1/11	6/2/11 12:04	
Lead, Total Recoverable	6020	ND	U	µg/L	1.0	0.06	1	5/26/11	5/31/11 16:12	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/27/11	5/27/11 17:53	
Nickel, Total Recoverable	6020	6.3		µg/L	2.0	0.2	1	5/26/11	5/31/11 16:12	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/26/11	5/31/11 16:12	
Silver, Total Recoverable	6020	0.15	I	µg/L	0.50	0.07	1	5/26/11	5/31/11 16:12	
Sodium, Total Recoverable	6010B	6.70		mg/L	0.50	0.02	1	5/26/11	5/28/11 03:15	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/26/11	5/31/11 16:12	
Vanadium, Total Recoverable	6020	0.6	I	µg/L	5.0	0.5	1	5/26/11	5/31/11 16:12	
Zinc, Total Recoverable	6020	ND	U	µg/L	10	1	1	5/26/11	5/31/11 16:12	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-4B
Lab Code: J1102246-002

Service Request: J1102246
Date Collected: 5/19/11 0945
Date Received: 5/20/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/26/11	5/31/11 16:17	
Arsenic, Total Recoverable	6020	0.69		µg/L	0.50	0.40	1	5/26/11	5/31/11 16:17	
Barium, Total Recoverable	6020	21.1		µg/L	2.0	0.3	1	5/26/11	5/31/11 16:17	
Beryllium, Total Recoverable	6020	0.4	I	µg/L	1.0	0.2	1	5/26/11	5/31/11 16:17	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/26/11	5/31/11 16:17	
Chromium, Total Recoverable	6020	0.5	I	µg/L	2.0	0.3	1	5/26/11	5/31/11 16:17	
Cobalt, Total Recoverable	6020	0.2	I	µg/L	1.0	0.08	1	5/26/11	5/31/11 16:17	
Copper, Total Recoverable	6020	1.4	I	µg/L	2.0	1.0	1	5/26/11	5/31/11 16:17	
Iron, Total Recoverable	6010B	1420		µg/L	100	20	1	6/1/11	6/2/11 12:09	
Lead, Total Recoverable	6020	ND	U	µg/L	1.0	0.06	1	5/26/11	5/31/11 16:17	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/27/11	5/27/11 17:55	
Nickel, Total Recoverable	6020	4.8		µg/L	2.0	0.2	1	5/26/11	5/31/11 16:17	
Selenium, Total Recoverable	6020	1.0	I	µg/L	5.0	1.0	1	5/26/11	5/31/11 16:17	
Silver, Total Recoverable	6020	0.16	I	µg/L	0.50	0.07	1	5/26/11	5/31/11 16:17	
Sodium, Total Recoverable	6010B	14.5		mg/L	0.50	0.02	1	5/26/11	5/28/11 03:20	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/26/11	5/31/11 16:17	
Vanadium, Total Recoverable	6020	0.6	I	µg/L	5.0	0.5	1	5/26/11	5/31/11 16:17	
Zinc, Total Recoverable	6020	2	I	µg/L	10	1	1	5/26/11	5/31/11 16:17	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-3A
Lab Code: J1102246-003

Service Request: J1102246
Date Collected: 5/19/11 1152
Date Received: 5/20/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/26/11	5/31/11 16:22	
Arsenic, Total Recoverable	6020	ND	U	µg/L	0.50	0.40	1	5/26/11	5/31/11 16:22	
Barium, Total Recoverable	6020	12.7		µg/L	2.0	0.3	1	5/26/11	5/31/11 16:22	
Beryllium, Total Recoverable	6020	0.3	I	µg/L	1.0	0.2	1	5/26/11	5/31/11 16:22	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/26/11	5/31/11 16:22	
Chromium, Total Recoverable	6020	0.7	I	µg/L	2.0	0.3	1	5/26/11	5/31/11 16:22	
Cobalt, Total Recoverable	6020	0.2	I	µg/L	1.0	0.08	1	5/26/11	5/31/11 16:22	
Copper, Total Recoverable	6020	5.0		µg/L	2.0	1.0	1	5/26/11	5/31/11 16:22	
Iron, Total Recoverable	6010B	900		µg/L	100	20	1	6/ 1/11	6/2/11 12:14	
Lead, Total Recoverable	6020	0.4	I	µg/L	1.0	0.06	1	5/26/11	5/31/11 16:22	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/27/11	5/27/11 17:56	
Nickel, Total Recoverable	6020	14.2		µg/L	2.0	0.2	1	5/26/11	5/31/11 16:22	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/26/11	5/31/11 16:22	
Silver, Total Recoverable	6020	0.16	I	µg/L	0.50	0.07	1	5/26/11	5/31/11 16:22	
Sodium, Total Recoverable	6010B	26.4		mg/L	0.50	0.02	1	5/26/11	5/28/11 03:24	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/26/11	5/31/11 16:22	
Vanadium, Total Recoverable	6020	2.2	I	µg/L	5.0	0.5	1	5/26/11	5/31/11 16:22	
Zinc, Total Recoverable	6020	12		µg/L	10	1	1	5/26/11	5/31/11 16:22	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-3B
Lab Code: J1102246-004

Service Request: J1102246
Date Collected: 5/19/11 1110
Date Received: 5/20/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/26/11	5/31/11 16:27	
Arsenic, Total Recoverable	6020	ND	U	µg/L	0.50	0.40	1	5/26/11	5/31/11 16:27	
Barium, Total Recoverable	6020	16.6		µg/L	2.0	0.3	1	5/26/11	5/31/11 16:27	
Beryllium, Total Recoverable	6020	0.4	I	µg/L	1.0	0.2	1	5/26/11	5/31/11 16:27	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/26/11	5/31/11 16:27	
Chromium, Total Recoverable	6020	0.5	I	µg/L	2.0	0.3	1	5/26/11	5/31/11 16:27	
Cobalt, Total Recoverable	6020	0.2	I	µg/L	1.0	0.08	1	5/26/11	5/31/11 16:27	
Copper, Total Recoverable	6020	1.4	I	µg/L	2.0	1.0	1	5/26/11	5/31/11 16:27	
Iron, Total Recoverable	6010B	800		µg/L	100	20	1	6/ 1/11	6/2/11 12:19	
Lead, Total Recoverable	6020	0.5	I	µg/L	1.0	0.06	1	5/26/11	5/31/11 16:27	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/27/11	5/27/11 17:58	
Nickel, Total Recoverable	6020	1.7	I	µg/L	2.0	0.2	1	5/26/11	5/31/11 16:27	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/26/11	5/31/11 16:27	
Silver, Total Recoverable	6020	0.16	I	µg/L	0.50	0.07	1	5/26/11	5/31/11 16:27	
Sodium, Total Recoverable	6010B	5.83		mg/L	0.50	0.02	1	5/26/11	5/28/11 03:29	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/26/11	5/31/11 16:27	
Vanadium, Total Recoverable	6020	ND	U	µg/L	5.0	0.5	1	5/26/11	5/31/11 16:27	
Zinc, Total Recoverable	6020	2	I	µg/L	10	1	1	5/26/11	5/31/11 16:27	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-2A
Lab Code: J1102246-005

Service Request: J1102246
Date Collected: 5/19/11 1325
Date Received: 5/20/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/26/11	5/31/11 16:32	
Arsenic, Total Recoverable	6020	1.14		µg/L	0.50	0.40	1	5/26/11	5/31/11 16:32	
Barium, Total Recoverable	6020	30.8		µg/L	2.0	0.3	1	5/26/11	5/31/11 16:32	
Beryllium, Total Recoverable	6020	0.5	I	µg/L	1.0	0.2	1	5/26/11	5/31/11 16:32	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/26/11	5/31/11 16:32	
Chromium, Total Recoverable	6020	1.4	I	µg/L	2.0	0.3	1	5/26/11	5/31/11 16:32	
Cobalt, Total Recoverable	6020	3.1		µg/L	1.0	0.08	1	5/26/11	5/31/11 16:32	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/26/11	5/31/11 16:32	
Iron, Total Recoverable	6010B	9860		µg/L	100	20	1	6/ 1/11	6/2/11 12:23	
Lead, Total Recoverable	6020	ND	U	µg/L	1.0	0.06	1	5/26/11	5/31/11 16:32	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/27/11	5/27/11 17:59	
Nickel, Total Recoverable	6020	0.6	I	µg/L	2.0	0.2	1	5/26/11	5/31/11 16:32	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/26/11	5/31/11 16:32	
Silver, Total Recoverable	6020	0.16	I	µg/L	0.50	0.07	1	5/26/11	5/31/11 16:32	
Sodium, Total Recoverable	6010B	11.3		mg/L	0.50	0.02	1	5/26/11	5/28/11 03:34	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/26/11	5/31/11 16:32	
Vanadium, Total Recoverable	6020	0.7	I	µg/L	5.0	0.5	1	5/26/11	5/31/11 16:32	
Zinc, Total Recoverable	6020	1	I	µg/L	10	1	1	5/26/11	5/31/11 16:32	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-2B
Lab Code: J1102246-006

Service Request: J1102246
Date Collected: 5/19/11 1300
Date Received: 5/20/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/26/11	5/31/11 16:38	
Arsenic, Total Recoverable	6020	ND	U	µg/L	0.50	0.40	1	5/26/11	5/31/11 16:38	
Barium, Total Recoverable	6020	15.6		µg/L	2.0	0.3	1	5/26/11	5/31/11 16:38	
Beryllium, Total Recoverable	6020	0.4	I	µg/L	1.0	0.2	1	5/26/11	5/31/11 16:38	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/26/11	5/31/11 16:38	
Chromium, Total Recoverable	6020	1.1	I	µg/L	2.0	0.3	1	5/26/11	5/31/11 16:38	
Cobalt, Total Recoverable	6020	0.3	I	µg/L	1.0	0.08	1	5/26/11	5/31/11 16:38	
Copper, Total Recoverable	6020	24.5		µg/L	2.0	1.0	1	5/26/11	5/31/11 16:38	
Iron, Total Recoverable	6010B	970		µg/L	100	20	1	6/1/11	6/2/11 12:28	
Lead, Total Recoverable	6020	8.6		µg/L	1.0	0.06	1	5/26/11	5/31/11 16:38	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/27/11	5/27/11 18:01	
Nickel, Total Recoverable	6020	29.5		µg/L	2.0	0.2	1	5/26/11	5/31/11 16:38	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/26/11	5/31/11 16:38	
Silver, Total Recoverable	6020	0.16	I	µg/L	0.50	0.07	1	5/26/11	5/31/11 16:38	
Sodium, Total Recoverable	6010B	4.90		mg/L	0.50	0.02	1	5/26/11	5/28/11 03:39	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/26/11	5/31/11 16:38	
Vanadium, Total Recoverable	6020	1.7	I	µg/L	5.0	0.5	1	5/26/11	5/31/11 16:38	
Zinc, Total Recoverable	6020	59		µg/L	10	1	1	5/26/11	5/31/11 16:38	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-1A
Lab Code: J1102246-007

Service Request: J1102246
Date Collected: 5/19/11 1532
Date Received: 5/20/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/26/11	5/31/11 16:43	
Arsenic, Total Recoverable	6020	1.56		µg/L	0.50	0.40	1	5/26/11	5/31/11 16:43	
Barium, Total Recoverable	6020	15.2		µg/L	2.0	0.3	1	5/26/11	5/31/11 16:43	
Beryllium, Total Recoverable	6020	0.4	I	µg/L	1.0	0.2	1	5/26/11	5/31/11 16:43	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/26/11	5/31/11 16:43	
Chromium, Total Recoverable	6020	2.1		µg/L	2.0	0.3	1	5/26/11	5/31/11 16:43	
Cobalt, Total Recoverable	6020	0.5	I	µg/L	1.0	0.08	1	5/26/11	5/31/11 16:43	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/26/11	5/31/11 16:43	
Iron, Total Recoverable	6010B	2580		µg/L	100	20	1	6/1/11	6/2/11 12:33	
Lead, Total Recoverable	6020	ND	U	µg/L	1.0	0.06	1	5/26/11	5/31/11 16:43	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/27/11	5/27/11 18:02	
Nickel, Total Recoverable	6020	0.4	I	µg/L	2.0	0.2	1	5/26/11	5/31/11 16:43	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/26/11	5/31/11 16:43	
Silver, Total Recoverable	6020	0.16	I	µg/L	0.50	0.07	1	5/26/11	5/31/11 16:43	
Sodium, Total Recoverable	6010B	16.9		mg/L	0.50	0.02	1	5/26/11	5/28/11 03:44	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/26/11	5/31/11 16:43	
Vanadium, Total Recoverable	6020	1.5	I	µg/L	5.0	0.5	1	5/26/11	5/31/11 16:43	
Zinc, Total Recoverable	6020	ND	U	µg/L	10	1	1	5/26/11	5/31/11 16:43	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-1B
Lab Code: J1102246-008

Service Request: J1102246
Date Collected: 5/19/11 1505
Date Received: 5/20/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/26/11	5/31/11 16:48	
Arsenic, Total Recoverable	6020	ND	U	µg/L	0.50	0.40	1	5/26/11	5/31/11 16:48	
Barium, Total Recoverable	6020	8.3		µg/L	2.0	0.3	1	5/26/11	5/31/11 16:48	
Beryllium, Total Recoverable	6020	0.3	I	µg/L	1.0	0.2	1	5/26/11	5/31/11 16:48	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/26/11	5/31/11 16:48	
Chromium, Total Recoverable	6020	0.5	I	µg/L	2.0	0.3	1	5/26/11	5/31/11 16:48	
Cobalt, Total Recoverable	6020	ND	U	µg/L	1.0	0.08	1	5/26/11	5/31/11 16:48	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/26/11	5/31/11 16:48	
Iron, Total Recoverable	6010B	370		µg/L	100	20	1	6/ 1/11	6/2/11 12:38	
Lead, Total Recoverable	6020	ND	U	µg/L	1.0	0.06	1	5/26/11	5/31/11 16:48	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/27/11	5/27/11 18:04	
Nickel, Total Recoverable	6020	0.4	I	µg/L	2.0	0.2	1	5/26/11	5/31/11 16:48	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/26/11	5/31/11 16:48	
Silver, Total Recoverable	6020	0.16	I	µg/L	0.50	0.07	1	5/26/11	5/31/11 16:48	
Sodium, Total Recoverable	6010B	8.88		mg/L	0.50	0.02	1	5/26/11	5/28/11 03:49	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/26/11	5/31/11 16:48	
Vanadium, Total Recoverable	6020	ND	U	µg/L	5.0	0.5	1	5/26/11	5/31/11 16:48	
Zinc, Total Recoverable	6020	ND	U	µg/L	10	1	1	5/26/11	5/31/11 16:48	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1102246-MB

Service Request: J1102246
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	0.3	I	µg/L	2.0	0.2	1	5/26/11	5/31/11 14:11	
Arsenic, Total Recoverable	6020	ND	U	µg/L	0.50	0.40	1	5/26/11	5/31/11 14:11	
Barium, Total Recoverable	6020	ND	U	µg/L	2.0	0.3	1	5/26/11	5/31/11 14:11	
Beryllium, Total Recoverable	6020	0.3	I	µg/L	1.0	0.2	1	5/26/11	5/31/11 14:11	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/26/11	5/31/11 14:11	
Chromium, Total Recoverable	6020	ND	U	µg/L	2.0	0.3	1	5/26/11	5/31/11 14:11	
Cobalt, Total Recoverable	6020	ND	U	µg/L	1.0	0.08	1	5/26/11	5/31/11 14:11	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/26/11	5/31/11 14:11	
Iron, Total Recoverable	6010B	ND	U	µg/L	100	20	1	6/ 1/11	6/2/11 11:02	
Lead, Total Recoverable	6020	ND	U	µg/L	1.0	0.06	1	5/26/11	5/31/11 14:11	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/27/11	5/27/11 17:25	
Nickel, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/26/11	5/31/11 14:11	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/26/11	5/31/11 14:11	
Silver, Total Recoverable	6020	0.19	I	µg/L	0.50	0.07	1	5/26/11	5/31/11 14:11	
Sodium, Total Recoverable	6010B	0.12	I	mg/L	0.50	0.02	1	5/26/11	5/28/11 01:21	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/26/11	5/31/11 14:11	
Vanadium, Total Recoverable	6020	ND	U	µg/L	5.0	0.5	1	5/26/11	5/31/11 14:11	
Zinc, Total Recoverable	6020	ND	U	µg/L	10	1	1	5/26/11	5/31/11 14:11	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-5B
Lab Code: J1102246-001

Service Request: J1102246
Date Collected: 5/19/11 0742
Date Received: 5/20/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	0.281		mg/L	0.010	0.005	1	NA	5/23/11 12:12	
Chloride	300.0	28.5		mg/L	0.50	0.10	1	NA	5/20/11 16:36	
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.04	1	NA	5/20/11 16:36	
Solids, Total Dissolved	SM 2540 C	54		mg/L	10	10	1	NA	5/25/11 11:26	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-4B
Lab Code: J1102246-002

Service Request: J1102246
Date Collected: 5/19/11 0945
Date Received: 5/20/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	0.218		mg/L	0.010	0.005	1	NA	5/23/11 12:15	
Chloride	300.0	31.1		mg/L	0.50	0.10	1	NA	5/20/11 16:51	
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.04	1	NA	5/20/11 16:51	
Solids, Total Dissolved	SM 2540 C	88		mg/L	10	10	1	NA	5/25/11 11:26	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-3A
Lab Code: J1102246-003

Service Request: J1102246
Date Collected: 5/19/11 1152
Date Received: 5/20/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	5.14	mg/L	0.010	0.005	1	NA	5/23/11 12:16	
Chloride	300.0	65.8	mg/L	0.50	0.10	1	NA	5/20/11 17:06	
Nitrate as Nitrogen	300.0	ND U	mg/L	0.20	0.04	1	NA	5/20/11 17:06	
Solids, Total Dissolved	SM 2540 C	140	mg/L	10	10	1	NA	5/25/11 11:26	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-3B
Lab Code: J1102246-004

Service Request: J1102246
Date Collected: 5/19/11 11:10
Date Received: 5/20/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	0.129	mg/L	0.010	0.005	1	NA	5/23/11 12:17	
Chloride	300.0	17.1	mg/L	0.50	0.10	1	NA	5/20/11 17:21	
Nitrate as Nitrogen	300.0	ND U	mg/L	0.20	0.04	1	NA	5/20/11 17:21	
Solids, Total Dissolved	SM 2540 C	54	mg/L	10	10	1	NA	5/25/11 11:26	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-2A
Lab Code: J1102246-005

Service Request: J1102246
Date Collected: 5/19/11 1325
Date Received: 5/20/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	3.20		mg/L	0.010	0.005	1	NA	5/23/11 12:18	
Chloride	300.0	44.5		mg/L	0.50	0.10	1	NA	5/20/11 17:36	
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.04	1	NA	5/20/11 17:36	
Solids, Total Dissolved	SM 2540 C	101		mg/L	10	10	1	NA	5/25/11 11:26	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-2B
Lab Code: J1102246-006

Service Request: J1102246
Date Collected: 5/19/11 1300
Date Received: 5/20/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	0.116	mg/L	0.010	0.005	1	NA	5/23/11 12:22	
Chloride	300.0	11.7	mg/L	0.50	0.10	1	NA	5/20/11 18:20	
Nitrate as Nitrogen	300.0	ND U	mg/L	0.20	0.04	1	NA	5/20/11 18:20	
Solids, Total Dissolved	SM 2540 C	49	mg/L	10	10	1	NA	5/25/11 11:26	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-1A
Lab Code: J1102246-007

Service Request: J1102246
Date Collected: 5/19/11 1532
Date Received: 5/20/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	3.84	mg/L	0.010	0.005	1	NA	5/23/11 12:23	
Chloride	300.0	39.4	mg/L	0.50	0.10	1	NA	5/20/11 18:35	
Nitrate as Nitrogen	300.0	ND U	mg/L	0.20	0.04	1	NA	5/20/11 18:35	
Solids, Total Dissolved	SM 2540 C	83	mg/L	10	10	1	NA	5/25/11 11:26	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-1B
Lab Code: J1102246-008

Service Request: J1102246
Date Collected: 5/19/11 1505
Date Received: 5/20/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	0.161		mg/L	0.010	0.005	1	NA	5/23/11 12:24	
Chloride	300.0	17.0		mg/L	0.50	0.10	1	NA	5/20/11 18:50	
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.04	1	NA	5/20/11 18:50	
Solids, Total Dissolved	SM 2540 C	51		mg/L	10	10	1	NA	5/25/11 11:26	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1102246-MB

Service Request: J1102246
Date Collected: NA
Date Received: NA

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	ND	U	mg/L	0.010	0.005	1	NA	5/23/11 12:00	
Chloride	300.0	ND	U	mg/L	0.50	0.10	1	NA	5/20/11 15:21	
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.04	1	NA	5/20/11 15:21	
Solids, Total Dissolved	SM 2540 C	ND	U	mg/L	10	10	1	NA	5/25/11 11:26	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: J1102246

Surrogate Recovery Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: Percent

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>	<u>Sur4</u>
MW-5B	J1102246-001	90	106	94	100
MW-4B	J1102246-002	91	97	95	104
MW-3A	J1102246-003	92	105	96	99
MW-3B	J1102246-004	90	115	90	107
MW-2A	J1102246-005	99	88	103	103
MW-2B	J1102246-006	99	87	102	104
MW-1A	J1102246-007	86	106	92	92
MW-1B	J1102246-008	96	84	99	106
Trip Blank	J1102246-009	98	91	100	102
Method Blank	JQ1102965-01	96	99	96	98
Method Blank	JQ1102967-01	94	94	92	101
Method Blank	JQ1103044-02	93	93	99	96
Lab Control Sample	JQ1102965-02	97	99	96	101
Lab Control Sample	JQ1102967-02	97	102	98	98
Lab Control Sample	JQ1103044-01	100	102	97	94

Surrogate Recovery Control Limits(%)

Sur1	= 1,2-Dichloroethane-d4	68 - 118
Sur2	= 4-Bromofluorobenzene	78 - 129
Sur3	= Dibromofluoromethane	80 - 114
Sur4	= Toluene-d8	87 - 118

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: J1102246

Date Analyzed: 5/31/11

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L

Basis: NA

Analysis Lot: 247998

Lab Control Sample
 JQ1102965-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	18.7	20.0	93	79 - 120
1,1,1-Trichloroethane (TCA)	17.5	20.0	88	78 - 120
1,1,2,2-Tetrachloroethane	19.7	20.0	99	65 - 137
1,1,2-Trichloroethane	20.4	20.0	102	81 - 121
1,1-Dichloroethane (1,1-DCA)	19.1	20.0	95	83 - 119
1,1-Dichloroethene (1,1-DCE)	18.7	20.0	94	79 - 123
1,2,3-Trichloropropane	19.4	20.0	97	71 - 129
1,2-Dibromo-3-chloropropane (DBCP)	15.3	20.0	77	36 - 143
1,2-Dibromoethane (EDB)	19.3	20.0	96	80 - 122
1,2-Dichlorobenzene	18.5	20.0	92	79 - 114
1,2-Dichloroethane	17.9	20.0	89	73 - 120
1,2-Dichloropropane	21.0	20.0	105	86 - 116
1,4-Dichlorobenzene	18.5	20.0	92	77 - 117
2-Butanone (MEK)	95.7	100	96	38 - 152
2-Hexanone	103	100	103	63 - 131
4-Methyl-2-pentanone (MIBK)	103	100	103	69 - 127
Acetone	106	100	106	45 - 157
Acrylonitrile	105	100	105	56 - 139
Benzene	19.6	20.0	98	83 - 118
Bromochloromethane	18.7	20.0	94	82 - 117
Bromodichloromethane	17.9	20.0	89	77 - 120
Bromoform	18.4	20.0	92	38 - 149
Bromomethane	17.3	20.0	87	78 - 132
Carbon Disulfide	99.9	100	100	74 - 132
Carbon Tetrachloride	16.1	20.0	80	67 - 129
Chlorobenzene	19.4	20.0	97	83 - 122
Chloroethane	17.8	20.0	89	80 - 129
Chloroform	18.2	20.0	91	81 - 118
Chloromethane	19.2	20.0	96	61 - 138
cis-1,2-Dichloroethene	19.4	20.0	97	74 - 127
cis-1,3-Dichloropropene	19.9	20.0	99	80 - 120
Dibromochloromethane	18.4	20.0	92	71 - 122

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: J1102246
 Date Analyzed: 5/31/11

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L
 Basis: NA

Analysis Lot: 247998

Lab Control Sample
 JQ1102965-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Dibromomethane	19.3	20.0	96	73 - 125
Ethylbenzene	18.7	20.0	94	82 - 124
Iodomethane	89.7	100	90	78 - 128
m,p-Xylenes	34.5	40.0	86	82 - 125
Methylene Chloride	19.6	20.0	98	70 - 134
o-Xylene	18.6	20.0	93	82 - 122
Styrene	20.0	20.0	100	82 - 123
Tetrachloroethene (PCE)	18.2	20.0	91	77 - 129
Toluene	19.5	20.0	98	82 - 122
trans-1,2-Dichloroethene	19.2	20.0	96	81 - 119
trans-1,3-Dichloropropene	18.5	20.0	93	71 - 124
trans-1,4-Dichloro-2-butene	8.99	20.0	45	10 - 172
Trichloroethene (TCE)	17.9	20.0	89	81 - 120
Trichlorofluoromethane	17.4	20.0	87	72 - 127
Vinyl Acetate	81.0	100	81	50 - 145
Vinyl Chloride	19.1	20.0	96	72 - 133

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: J1102246
 Date Analyzed: 5/28/11

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L

Basis: NA

Analysis Lot: 248001

Lab Control Sample
 JQ1102967-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	18.9	20.0	95	79 - 120
1,1,1-Trichloroethane (TCA)	19.7	20.0	98	78 - 120
1,1,2,2-Tetrachloroethane	20.6	20.0	103	65 - 137
1,1,2-Trichloroethane	19.9	20.0	100	81 - 121
1,1-Dichloroethane (1,1-DCA)	19.5	20.0	98	83 - 119
1,1-Dichloroethene (1,1-DCE)	20.6	20.0	103	79 - 123
1,2,3-Trichloropropane	19.6	20.0	98	71 - 129
1,2-Dibromo-3-chloropropane (DBCP)	19.1	20.0	96	36 - 143
1,2-Dibromoethane (EDB)	20.6	20.0	103	80 - 122
1,2-Dichlorobenzene	20.2	20.0	101	79 - 114
1,2-Dichloroethane	19.2	20.0	96	73 - 120
1,2-Dichloropropane	20.2	20.0	101	86 - 116
1,4-Dichlorobenzene	20.0	20.0	100	77 - 117
2-Butanone (MEK)	107	100	107	38 - 152
2-Hexanone	108	100	108	63 - 131
4-Methyl-2-pentanone (MIBK)	103	100	103	69 - 127
Acetone	89.7	100	90	45 - 157
Acrylonitrile	107	100	107	56 - 139
Benzene	20.4	20.0	102	83 - 118
Bromochloromethane	19.5	20.0	98	82 - 117
Bromodichloromethane	19.4	20.0	97	77 - 120
Bromoform	17.8	20.0	89	38 - 149
Bromomethane	18.2	20.0	91	78 - 132
Carbon Disulfide	113	100	113	74 - 132
Carbon Tetrachloride	20.1	20.0	100	67 - 129
Chlorobenzene	20.4	20.0	102	83 - 122
Chloroethane	16.2	20.0	81	80 - 129
Chloroform	19.7	20.0	98	81 - 118
Chloromethane	17.3	20.0	87	61 - 138
cis-1,2-Dichloroethene	19.2	20.0	96	74 - 127
cis-1,3-Dichloropropene	19.8	20.0	99	80 - 120
Dibromochloromethane	19.1	20.0	96	71 - 122

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: J1102246
 Date Analyzed: 5/28/11

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L
 Basis: NA

Analysis Lot: 248001

Lab Control Sample
 JQ1102967-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Dibromomethane	20.2	20.0	101	73 - 125
Ethylbenzene	20.7	20.0	103	82 - 124
Iodomethane	102	100	102	78 - 128
m,p-Xylenes	42.5	40.0	106	82 - 125
Methylene Chloride	20.2	20.0	101	70 - 134
o-Xylene	21.0	20.0	105	82 - 122
Styrene	21.3	20.0	106	82 - 123
Tetrachloroethene (PCE)	19.7	20.0	99	77 - 129
Toluene	21.3	20.0	107	82 - 122
trans-1,2-Dichloroethene	20.5	20.0	103	81 - 119
trans-1,3-Dichloropropene	19.9	20.0	100	71 - 124
trans-1,4-Dichloro-2-butene	19.4	20.0	97	10 - 172
Trichloroethene (TCE)	19.9	20.0	100	81 - 120
Trichlorofluoromethane	18.6	20.0	93	72 - 127
Vinyl Acetate	102	100	102	50 - 145
Vinyl Chloride	14.3	20.0	71 *	72 - 133

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: J1102246
 Date Analyzed: 6/1/11

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L

Basis: NA

Analysis Lot: 248454

Lab Control Sample
 JQ1103044-01

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	18.6	20.0	93	79 - 120
1,1,1-Trichloroethane (TCA)	18.6	20.0	93	78 - 120
1,1,2,2-Tetrachloroethane	20.6	20.0	103	65 - 137
1,1,2-Trichloroethane	21.2	20.0	106	81 - 121
1,1-Dichloroethane (1,1-DCA)	20.4	20.0	102	83 - 119
1,1-Dichloroethene (1,1-DCE)	19.5	20.0	97	79 - 123
1,2,3-Trichloropropane	20.6	20.0	103	71 - 129
1,2-Dibromo-3-chloropropane (DBCP)	17.3	20.0	87	36 - 143
1,2-Dibromoethane (EDB)	18.8	20.0	94	80 - 122
1,2-Dichlorobenzene	20.2	20.0	101	79 - 114
1,2-Dichloroethane	18.5	20.0	92	73 - 120
1,2-Dichloropropane	20.7	20.0	103	86 - 116
1,4-Dichlorobenzene	19.4	20.0	97	77 - 117
2-Butanone (MEK)	107	100	107	38 - 152
2-Hexanone	108	100	108	63 - 131
4-Methyl-2-pentanone (MIBK)	106	100	106	69 - 127
Acetone	114	100	114	45 - 157
Acrylonitrile	118	100	118	56 - 139
Benzene	21.9	20.0	109	83 - 118
Bromochloromethane	19.9	20.0	99	82 - 117
Bromodichloromethane	19.7	20.0	99	77 - 120
Bromoform	17.7	20.0	88	38 - 149
Bromomethane	21.2	20.0	106	78 - 132
Carbon Disulfide	109	100	109	74 - 132
Carbon Tetrachloride	17.3	20.0	86	67 - 129
Chlorobenzene	20.4	20.0	102	83 - 122
Chloroethane	21.4	20.0	107	80 - 129
Chloroform	19.7	20.0	98	81 - 118
Chloromethane	20.2	20.0	101	61 - 138
cis-1,2-Dichloroethene	21.4	20.0	107	74 - 127
cis-1,3-Dichloropropene	20.2	20.0	101	80 - 120
Dibromochloromethane	18.7	20.0	94	71 - 122

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: J1102246
 Date Analyzed: 6/1/11

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L

Basis: NA

Analysis Lot: 248454

Lab Control Sample

JQ1103044-01

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Dibromomethane	20.6	20.0	103	73 - 125
Ethylbenzene	18.7	20.0	93	82 - 124
Iodomethane	94.7	100	95	78 - 128
m,p-Xylenes	35.5	40.0	89	82 - 125
Methylene Chloride	22.2	20.0	111	70 - 134
o-Xylene	19.7	20.0	98	82 - 122
Styrene	19.6	20.0	98	82 - 123
Tetrachloroethene (PCE)	18.7	20.0	94	77 - 129
Toluene	21.0	20.0	105	82 - 122
trans-1,2-Dichloroethene	20.7	20.0	104	81 - 119
trans-1,3-Dichloropropene	18.9	20.0	94	71 - 124
trans-1,4-Dichloro-2-butene	4.98	20.0	25	10 - 172
Trichloroethene (TCE)	18.9	20.0	94	81 - 120
Trichlorofluoromethane	18.1	20.0	91	72 - 127
Vinyl Acetate	87.7	100	88	50 - 145
Vinyl Chloride	20.8	20.0	104	72 - 133

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: J1102246

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

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
Duplicate Lab Control Sample	JWG1101266-2	108
Lab Control Sample	JWG1101266-1	106
Lab Control Sample	JWG1101221-3	115
MW-5BDMS	JWG1101221-2	111
MW-5BMS	JWG1101221-1	109
Method Blank	JWG1101266-3	113
Method Blank	JWG1101221-4	116
MW-1B	J1102246-008	104
MW-1A	J1102246-007	95
MW-2B	J1102246-006	104
MW-2A	J1102246-005	109
MW-3B	J1102246-004	107
MW-3A	J1102246-003	107
MW-4B	J1102246-002	103
MW-5B	J1102246-001	112

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: J1102246
Date Extracted: 05/25/2011
Date Analyzed: 05/27/2011

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

Sample Name: MW-5B
Lab Code: J1102246-001
Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1101221

Analyte Name	Sample Result	MW-5BMS JWG1101221-1 Matrix Spike			MW-5BDMS JWG1101221-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	ND	0.282	0.252	112	0.278	0.255	109	65-135	1	20
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.259	0.252	103	0.283	0.255	111	65-135	9	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: J1102246
Date Extracted: 05/25/2011
Date Analyzed: 05/27/2011

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: JWG1101221

Analyte Name	Lab Control Sample JWG1101221-3 Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
1,2-Dibromoethane (EDB)	0.293	0.250	117	70-130
1,2-Dibromo-3-chloropropane (DBCP)	0.275	0.250	110	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: J1102246
Date Extracted: 05/31/2011
Date Analyzed: 05/31/2011

Lab Control Spike/Duplicate 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: JWG1101266

Analyte Name	Lab Control Sample JWG1101266-1 Lab Control Spike			Duplicate Lab Control Sample JWG1101266-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	0.273	0.250	109	0.265	0.250	106	70-130	3	20
1,2-Dibromo-3-chloropropane (DBCP)	0.245	0.250	98	0.246	0.250	98	70-130	0	20

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: J1102246
 Date Analyzed: 5/27/11 -
 6/2/11

Lab Control Sample Summary
 Inorganic Parameters

Units: µg/L

Basis: NA

Lab Control Sample J1102246-LCS					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Antimony, Total Recoverable	6020	52.5	50.0	105	80 - 120
Arsenic, Total Recoverable	6020	47.8	50.0	96	80 - 120
Barium, Total Recoverable	6020	51.4	50.0	103	80 - 120
Beryllium, Total Recoverable	6020	44.5	50.0	89	80 - 120
Cadmium, Total Recoverable	6020	49.1	50.0	98	80 - 120
Chromium, Total Recoverable	6020	52.5	50.0	105	80 - 120
Cobalt, Total Recoverable	6020	51.0	50.0	102	80 - 120
Copper, Total Recoverable	6020	51.8	50.0	104	80 - 120
Iron, Total Recoverable	6010B	4980	5000	100	85 - 115
Lead, Total Recoverable	6020	53.1	50.0	106	80 - 120
Mercury, Total	7470A	5.42	5.00	108	80 - 120
Nickel, Total Recoverable	6020	51.0	50.0	102	80 - 120
Selenium, Total Recoverable	6020	45.4	50.0	91	80 - 120
Silver, Total Recoverable	6020	52.4	50.0	105	80 - 120
Thallium, Total Recoverable	6020	52.1	50.0	104	80 - 120
Vanadium, Total Recoverable	6020	51.1	50.0	102	80 - 120
Zinc, Total Recoverable	6020	92.0	100	92	80 - 120

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: J1102246
Date Analyzed: 5/27/11 -
6/2/11

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Lab Control Sample J1102246-LCS					
		Spike		% Rec	
Analyte Name	Method	Result	Amount	% Rec	% Rec Limits
Sodium, Total Recoverable	6010B	26.6	25.0	106	90 - 114

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: J1102246
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/23/11

Matrix Spike Summary
General Chemistry Parameters

Sample Name: MW-5B
Lab Code: J1102246-001

Units: mg/L
Basis: NA

Analytical Method: 350.1

	MW-5BMS Matrix Spike J1102246-001MS				
Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	0.281	1.23	1.00	95	90 - 110

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: J1102246
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/23/11 -
5/25/11

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-5B
Lab Code: J1102246-001

Units: mg/L
Basis: NA

					MW-5BDUP		RPD	RPD Limit
					Duplicate Sample			
					J1102246-001DUP			
Analyte Name	Method	MRL	MDL	Sample Result	Result	Average		
Ammonia as Nitrogen	350.1	0.010	0.005	0.281	0.283	0.282	<1	20
Solids, Total Dissolved	SM 2540 C	10	10	54	54	54.0	<1	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: J1102246
Date Analyzed: 5/20/11 -
5/25/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample J1102246-LCS					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	350.1	0.970	1.00	97	90 - 110
Chloride	300.0	51.9	50.0	104	90 - 110
Nitrate as Nitrogen	300.0	4.98	5.00	100	90 - 110
Solids, Total Dissolved	SM 2540 C	299	300	100	85 - 115

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.

Cooler Receipt Form

Client: EPS
 Project: JEDSWDF

Service Request #: 51102246

Cooler received on 5.20.11

and opened on 5.20.11 by GR

COURIER: CAS ☒ UPS ☐ FEDEX ☐ Client ☐ Other ☐ Airbill # 12XSW0982210003873

- 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 $> 0^{\circ}\text{C}$ and $< 6^{\circ}\text{C}$) 5.7
- 5 Thermometer ID T63
- 6 Temperature Blank Present? ☒ Yes ☐ No
- 7 Were Ice or Ice Packs present ☒ Ice ☐ Ice Packs ☐ No
- 8 Did all bottles arrive in good condition (unbroken, etc....)? ☒ Yes ☐ No ☐ N/A
- 9 Type of packing material present Netting ☐ Vial Holder ☒ Bubble Wrap ☐
Paper ☐ Styrofoam ☐ Other ☐ N/A
- 10 Were all bottle labels complete (sample ID, preservation, etc....)? ☒ Yes ☐ No ☐ N/A
- 11 Did all bottle labels and tags agree with custody papers? ☒ Yes ☐ No ☐ N/A
- 12 Were the correct bottles used for the tests indicated? ☒ Yes ☐ No ☐ N/A
- 13 Were all of the preserved bottles received with the appropriate preservative? ☒ Yes ☐ No ☐ N/A
HNO₃ pH<2 H₂SO₄ pH<2 ZnAc₂/NaOH pH>9 NaOH pH>12 HCl pH<2
Preservative additions noted below
- 14 Were all samples received within analysis holding times? ☒ Yes ☐ No ☐ N/A
- 15 Were all VOA vials free of air bubbles? If present, note below ☒ Yes ☐ No ☐ N/A
- 16 Where did the bottles originate? ☒ CAS ☐ Client

Sample ID	Reagent	Lot #	ml added	Initials Date/Time

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

Client approval to run samples if discrepancies noted:

Date: 75

SR #: J 1102246

Date:

5.20.11

Initials:

GR

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

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	40mL	40mL	125mL	125mL	125mL	125mL	125mL	250mL	250mL	250mL	250mL	250mL	250mL	500mL	500mL	500mL	500mL	500mL	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	100mL	Ziplock	Misc.		
Preserve	N/A	N/A	Na2	N/A	HCl	H2SO4	HNO3	N/A	H2SO4	HNO3	ZnAc2/NaOH	NaOH	N/A	HNO3	N/A	HCl	H2SO4	HNO3	N/A	N/A	HNO3	HCl	H2SO4	N/A	N/A	N/A	N/A	N/A	Na2	S2O3	N/A	N/A	
Req. pH	N/A	<2	<2	N/A	<2	<2	<2	<2	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	<2	<2	N/A	N/A	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Sample #	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-1	3	3				3	3	3																								-	
-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																																	-
-32																																	-
-33																																	-
-34																																	-
-35																																	-
-36																																	-
-37																																	-
-38																																	-
-39																																	-
-40																																	-

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

www.caslab.com

SR #

51102246

CAS Contact

Project Name JED SWDF		Project Number		ANALYSIS REQUESTED (Include Method Number and Preservative)											
Project Manager Kirk Wills		Email Address Kwills@envplanning.com		PRESERVATIVE	1	0	3	2	0						
Company Address EPS				8260 0011 NH₃ Metals TDS, Cl, NO₃ 0260 0011 NH₃ Metals TDS, Cl, NO₃											
1936 Bruce B Downs Blvd #328															
Wesley Chapel, FL 33543															
Phone #		PK#													
813-388-1026															
Sampler's Signature <i>Joe Terry</i>		Sampler's Printed Name Joe Terry													
CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS					REMARKS/ALTERNATE DESCRIPTION					
MW-5B		5-19-11	0742	GW	9	3	3	1	1	1					
MW-4B			0945												
MW-3A			1152												
MW-3B			1110												
MW-2A			1325												
MW-2B			1300												
MW-1A			1532												
MW-1B		5-19-11	1505	GW	9	3	3	1	1	1					
Trip Blank		5-12-11	0400	H ₂ O	2	2									
SPECIAL INSTRUCTIONS/COMMENTS															
Cooler ID: 11139 - JED															
See QAPP ☐															
SAMPLE RECEIPT: CONDITION/COOLER TEMP:					TURNAROUND REQUIREMENTS					REPORT REQUIREMENTS					
RELINQUISHED BY					RUSH (SURCHARGES APPLY)					I. Results Only					
Signature					X STANDARD					X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)					
Printed Name					REQUESTED FAX DATE					III. Results + QC and Calibration Summaries					
Firm					REQUESTED REPORT DATE					IV. Data Validation Report with Raw Data					
Date/Time										V. Specialized Forms / Custom Report					
77					CUSTODY SEALS: Y N					Edata Yes No					
Signature					RELINQUISHED BY					RECEIVED BY					
Printed Name					Signature					Signature					
Firm					Printed Name					Printed Name					
Date/Time					Firm					Firm					
5-19-11/1615					Date/Time					Date/Time					

June 06, 2011

Service Request No: J1102280

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 24, 2011. For your reference, these analyses have been assigned our service request number **J1102280**.

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. This report shall not be reproduced except in full without written approval of the laboratory, as all results are intended to be considered in their entirety, and Columbia Analytical Services, Inc.

(CAS) cannot be held responsible for use of the less than the complete report.

Results apply only to the items submitted to the laboratory for analysis and individual items (samples)

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

Page 1 of 73

COLUMBIA ANALYTICAL SERVICES, INC.

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

Service Request No.: J1102280
Date Received: 5/24/11

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

Eight water samples and one trip blank were received for analysis at Columbia Analytical Services on 5/24/11. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at $\leq 6^{\circ}\text{C}$ 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.

Laboratory Control Sample Recovery Notes and Discussion:

The spike recovery of Vinyl Chloride for Laboratory Control Sample (LCS) JQ1102991-02 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.

Elevated Method Reporting Limits:

Samples MW-23A and MW-19A required dilution 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 control criteria were exceeded for the following surrogate in samples MW-19A and MW-23A due to suspected matrix interferences: 1,1,1,2-Tetrachloroethane. A small emulsion was generated during the extraction of this sample which may have contributed to its poor surrogate recovery. No further corrective action was appropriate.

Approved by _____



Date _____

6/6/11

Metals by ICP-MS/ICP-OES/CVAA

The samples were analyzed for Total and Dissolved Metals using EPA Methods 6020/6010B/7470A. The following observations were made regarding this delivery group.

Matrix Spike Recovery Exceptions

The low matrix spike recovery of Selenium for sample MW-23A appears to be a function of the digestion procedure for this matrix. The post-spike recovery of 98 % indicates the relative lack of matrix interference in the digestate, while the matrix spike recovery of 73 % indicates the majority of the loss occurred during the digestion procedure itself and is not related to the instrument's ability to measure Selenium in this matrix. The other analytes of interest spiked in this sample all recovered within acceptable range, indicating that this loss was limited to Selenium and not due to any larger problem related to the spiking or preparation as a whole. Therefore, the reported results for Selenium in this sample may be biased low.

General Chemistry Parameters

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

Approved by _____



Date _____

6/6/11

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: J1102280

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J1102280-001	MW-23A	5/23/11	10:30
J1102280-002	MW-23B	5/23/11	08:55
J1102280-003	MW-19A	5/23/11	11:50
J1102280-004	MW-19B	5/23/11	11:25
J1102280-005	MW-16A	5/23/11	14:15
J1102280-006	MW-16B	5/23/11	14:45
J1102280-007	MW-16C	5/23/11	13:45
J1102280-008	EB-2	5/23/11	15:25
J1102280-009	Trip Blank	5/23/11	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-23A
Lab Code: J1102280-001

Service Request: J1102280
Date Collected: 5/23/11 1030
Date Received: 5/24/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248104

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	2.00	0.380	2	NA	5/31/11 18:26		248104	
1,1,1-Trichloroethane (TCA)	ND	U	2.00	0.340	2	NA	5/31/11 18:26		248104	
1,1,2,2-Tetrachloroethane	ND	U	2.00	0.580	2	NA	5/31/11 18:26		248104	
1,1,2-Trichloroethane	ND	U	2.00	0.800	2	NA	5/31/11 18:26		248104	
1,1-Dichloroethane (1,1-DCA)	ND	U	2.00	0.600	2	NA	5/31/11 18:26		248104	
1,1-Dichloroethene (1,1-DCE)	ND	U	2.00	0.320	2	NA	5/31/11 18:26		248104	
1,2,3-Trichloropropane	ND	U	4.00	0.840	2	NA	5/31/11 18:26		248104	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	10.0	4.60	2	NA	5/31/11 18:26		248104	
1,2-Dibromoethane (EDB)	ND	U	2.00	0.920	2	NA	5/31/11 18:26		248104	
1,2-Dichlorobenzene	ND	U	2.00	0.956	2	NA	5/31/11 18:26		248104	
1,2-Dichloroethane	ND	U	2.00	0.440	2	NA	5/31/11 18:26		248104	
1,2-Dichloropropane	ND	U	2.00	0.380	2	NA	5/31/11 18:26		248104	
1,4-Dichlorobenzene	ND	U	2.00	0.320	2	NA	5/31/11 18:26		248104	
2-Butanone (MEK)	ND	U	20.0	7.60	2	NA	5/31/11 18:26		248104	
2-Hexanone	ND	U	50.0	4.40	2	NA	5/31/11 18:26		248104	
4-Methyl-2-pentanone (MIBK)	ND	U	50.0	2.20	2	NA	5/31/11 18:26		248104	
Acetone	ND	U	100	11.2	2	NA	5/31/11 18:26		248104	
Acrylonitrile	ND	U	20.0	3.00	2	NA	5/31/11 18:26		248104	
Benzene	0.560	I	2.00	0.420	2	NA	5/31/11 18:26		248104	
Bromochloromethane	ND	U	10.0	0.540	2	NA	5/31/11 18:26		248104	
Bromodichloromethane	ND	U	2.00	0.440	2	NA	5/31/11 18:26		248104	
Bromoform	ND	U	4.00	0.840	2	NA	5/31/11 18:26		248104	
Bromomethane	ND	U	2.00	0.460	2	NA	5/31/11 18:26		248104	
Carbon Disulfide	ND	U	20.0	4.72	2	NA	5/31/11 18:26		248104	
Carbon Tetrachloride	ND	U	2.00	0.680	2	NA	5/31/11 18:26		248104	
Chlorobenzene	ND	U	2.00	0.320	2	NA	5/31/11 18:26		248104	
Chloroethane	ND	U	10.0	1.04	2	NA	5/31/11 18:26		248104	
Chloroform	ND	U	2.00	0.700	2	NA	5/31/11 18:26		248104	
Chloromethane	ND	U	2.00	0.720	2	NA	5/31/11 18:26		248104	
cis-1,2-Dichloroethene	ND	U	2.00	0.720	2	NA	5/31/11 18:26		248104	
cis-1,3-Dichloropropene	ND	U	2.00	0.400	2	NA	5/31/11 18:26		248104	
Dibromochloromethane	ND	U	2.00	0.420	2	NA	5/31/11 18:26		248104	
Dibromomethane	ND	U	10.0	0.720	2	NA	5/31/11 18:26		248104	
Ethylbenzene	ND	U	2.00	0.420	2	NA	5/31/11 18:26		248104	
Iodomethane	ND	U	10.0	5.36	2	NA	5/31/11 18:26		248104	
m,p-Xylenes	ND	U	4.00	0.620	2	NA	5/31/11 18:26		248104	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-23A
Lab Code: J1102280-001

Service Request: J1102280
Date Collected: 5/23/11 1030
Date Received: 5/24/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248104

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	10.0	0.420	2	NA	5/31/11 18:26		248104	
o-Xylene	ND	U	2.00	0.280	2	NA	5/31/11 18:26		248104	
Styrene	ND	U	2.00	0.580	2	NA	5/31/11 18:26		248104	
Tetrachloroethene (PCE)	ND	U	2.00	0.440	2	NA	5/31/11 18:26		248104	
Toluene	ND	U	2.00	0.380	2	NA	5/31/11 18:26		248104	
trans-1,2-Dichloroethene	ND	U	2.00	0.380	2	NA	5/31/11 18:26		248104	
trans-1,3-Dichloropropene	ND	U	2.00	0.460	2	NA	5/31/11 18:26		248104	
trans-1,4-Dichloro-2-butene	ND	U	40.0	4.40	2	NA	5/31/11 18:26		248104	
Trichloroethene (TCE)	ND	U	2.00	0.720	2	NA	5/31/11 18:26		248104	
Trichlorofluoromethane	ND	U	40.0	0.480	2	NA	5/31/11 18:26		248104	
Vinyl Acetate	ND	U	20.0	3.80	2	NA	5/31/11 18:26		248104	
Vinyl Chloride	ND	U	2.00	0.720	2	NA	5/31/11 18:26		248104	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	92	68-118	5/31/11 18:26	
4-Bromofluorobenzene	95	78-129	5/31/11 18:26	
Dibromofluoromethane	99	80-114	5/31/11 18:26	
Toluene-d8	101	87-118	5/31/11 18:26	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-23B
Lab Code: J1102280-002

Service Request: J1102280
Date Collected: 5/23/11 0855
Date Received: 5/24/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248104

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/31/11 18:48		248104	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/31/11 18:48		248104	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/31/11 18:48		248104	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/31/11 18:48		248104	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/31/11 18:48		248104	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/31/11 18:48		248104	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/31/11 18:48		248104	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/31/11 18:48		248104	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/31/11 18:48		248104	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/31/11 18:48		248104	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/31/11 18:48		248104	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/31/11 18:48		248104	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 18:48		248104	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/31/11 18:48		248104	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/31/11 18:48		248104	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/31/11 18:48		248104	
Acetone	ND	U	50.0	5.60	1	NA	5/31/11 18:48		248104	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/31/11 18:48		248104	
Benzene	ND	U	1.00	0.210	1	NA	5/31/11 18:48		248104	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/31/11 18:48		248104	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/31/11 18:48		248104	
Bromoform	ND	U	2.00	0.420	1	NA	5/31/11 18:48		248104	
Bromomethane	ND	U	1.00	0.230	1	NA	5/31/11 18:48		248104	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/31/11 18:48		248104	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/31/11 18:48		248104	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 18:48		248104	
Chloroethane	ND	U	5.00	0.520	1	NA	5/31/11 18:48		248104	
Chloroform	ND	U	1.00	0.350	1	NA	5/31/11 18:48		248104	
Chloromethane	ND	U	1.00	0.360	1	NA	5/31/11 18:48		248104	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/31/11 18:48		248104	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/31/11 18:48		248104	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/31/11 18:48		248104	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/31/11 18:48		248104	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/31/11 18:48		248104	
Iodomethane	ND	U	5.00	2.68	1	NA	5/31/11 18:48		248104	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/31/11 18:48		248104	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-23B
Lab Code: J1102280-002

Service Request: J1102280
Date Collected: 5/23/11 0855
Date Received: 5/24/11

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248104

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/31/11 18:48		248104	
o-Xylene	ND	U	1.00	0.140	1	NA	5/31/11 18:48		248104	
Styrene	ND	U	1.00	0.290	1	NA	5/31/11 18:48		248104	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/31/11 18:48		248104	
Toluene	ND	U	1.00	0.190	1	NA	5/31/11 18:48		248104	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/31/11 18:48		248104	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/31/11 18:48		248104	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/31/11 18:48		248104	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/31/11 18:48		248104	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/31/11 18:48		248104	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/31/11 18:48		248104	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/31/11 18:48		248104	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	89	68-118	5/31/11 18:48	
4-Bromofluorobenzene	92	78-129	5/31/11 18:48	
Dibromofluoromethane	97	80-114	5/31/11 18:48	
Toluene-d8	106	87-118	5/31/11 18:48	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-19A
Lab Code: J1102280-003

Service Request: J1102280
Date Collected: 5/23/11 1150
Date Received: 5/24/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248104

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.00	0.950	5	NA	5/31/11 19:10		248104	
1,1,1-Trichloroethane (TCA)	ND	U	5.00	0.851	5	NA	5/31/11 19:10		248104	
1,1,2,2-Tetrachloroethane	ND	U	5.00	1.45	5	NA	5/31/11 19:10		248104	
1,1,2-Trichloroethane	ND	U	5.00	2.00	5	NA	5/31/11 19:10		248104	
1,1-Dichloroethane (1,1-DCA)	ND	U	5.00	1.50	5	NA	5/31/11 19:10		248104	
1,1-Dichloroethene (1,1-DCE)	ND	U	5.00	0.800	5	NA	5/31/11 19:10		248104	
1,2,3-Trichloropropane	ND	U	10.0	2.10	5	NA	5/31/11 19:10		248104	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	25.0	11.5	5	NA	5/31/11 19:10		248104	
1,2-Dibromoethane (EDB)	ND	U	5.00	2.31	5	NA	5/31/11 19:10		248104	
1,2-Dichlorobenzene	ND	U	5.00	2.39	5	NA	5/31/11 19:10		248104	
1,2-Dichloroethane	ND	U	5.00	1.10	5	NA	5/31/11 19:10		248104	
1,2-Dichloropropane	ND	U	5.00	0.950	5	NA	5/31/11 19:10		248104	
1,4-Dichlorobenzene	ND	U	5.00	0.800	5	NA	5/31/11 19:10		248104	
2-Butanone (MEK)	ND	U	50.0	19.0	5	NA	5/31/11 19:10		248104	
2-Hexanone	ND	U	125	11.0	5	NA	5/31/11 19:10		248104	
4-Methyl-2-pentanone (MIBK)	ND	U	125	5.50	5	NA	5/31/11 19:10		248104	
Acetone	ND	U	250	28.0	5	NA	5/31/11 19:10		248104	
Acrylonitrile	ND	U	50.0	7.50	5	NA	5/31/11 19:10		248104	
Benzene	ND	U	5.00	1.05	5	NA	5/31/11 19:10		248104	
Bromochloromethane	ND	U	25.0	1.35	5	NA	5/31/11 19:10		248104	
Bromodichloromethane	ND	U	5.00	1.10	5	NA	5/31/11 19:10		248104	
Bromoform	ND	U	10.0	2.10	5	NA	5/31/11 19:10		248104	
Bromomethane	ND	U	5.00	1.16	5	NA	5/31/11 19:10		248104	
Carbon Disulfide	ND	U	50.0	11.8	5	NA	5/31/11 19:10		248104	
Carbon Tetrachloride	ND	U	5.00	1.71	5	NA	5/31/11 19:10		248104	
Chlorobenzene	ND	U	5.00	0.800	5	NA	5/31/11 19:10		248104	
Chloroethane	ND	U	25.0	2.60	5	NA	5/31/11 19:10		248104	
Chloroform	ND	U	5.00	1.75	5	NA	5/31/11 19:10		248104	
Chloromethane	ND	U	5.00	1.80	5	NA	5/31/11 19:10		248104	
cis-1,2-Dichloroethene	ND	U	5.00	1.80	5	NA	5/31/11 19:10		248104	
cis-1,3-Dichloropropene	ND	U	5.00	1.00	5	NA	5/31/11 19:10		248104	
Dibromochloromethane	ND	U	5.00	1.05	5	NA	5/31/11 19:10		248104	
Dibromomethane	ND	U	25.0	1.80	5	NA	5/31/11 19:10		248104	
Ethylbenzene	ND	U	5.00	1.05	5	NA	5/31/11 19:10		248104	
Iodomethane	ND	U	25.0	13.4	5	NA	5/31/11 19:10		248104	
m,p-Xylenes	ND	U	10.0	1.55	5	NA	5/31/11 19:10		248104	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-19A
Lab Code: J1102280-003

Service Request: J1102280
Date Collected: 5/23/11 1150
Date Received: 5/24/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248104

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	25.0	1.05	5	NA	5/31/11 19:10		248104	
o-Xylene	ND	U	5.00	0.701	5	NA	5/31/11 19:10		248104	
Styrene	ND	U	5.00	1.45	5	NA	5/31/11 19:10		248104	
Tetrachloroethene (PCE)	ND	U	5.00	1.10	5	NA	5/31/11 19:10		248104	
Toluene	ND	U	5.00	0.950	5	NA	5/31/11 19:10		248104	
trans-1,2-Dichloroethene	ND	U	5.00	0.950	5	NA	5/31/11 19:10		248104	
trans-1,3-Dichloropropene	ND	U	5.00	1.16	5	NA	5/31/11 19:10		248104	
trans-1,4-Dichloro-2-butene	ND	U	100	11.0	5	NA	5/31/11 19:10		248104	
Trichloroethene (TCE)	ND	U	5.00	1.80	5	NA	5/31/11 19:10		248104	
Trichlorofluoromethane	ND	U	100	1.20	5	NA	5/31/11 19:10		248104	
Vinyl Acetate	ND	U	50.0	9.50	5	NA	5/31/11 19:10		248104	
Vinyl Chloride	ND	U	5.00	1.80	5	NA	5/31/11 19:10		248104	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	88	68-118	5/31/11 19:10	
4-Bromofluorobenzene	85	78-129	5/31/11 19:10	
Dibromofluoromethane	94	80-114	5/31/11 19:10	
Toluene-d8	101	87-118	5/31/11 19:10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-19B
Lab Code: J1102280-004

Service Request: J1102280
Date Collected: 5/23/11 1125
Date Received: 5/24/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248104

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/31/11 19:32		248104	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/31/11 19:32		248104	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/31/11 19:32		248104	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/31/11 19:32		248104	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/31/11 19:32		248104	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/31/11 19:32		248104	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/31/11 19:32		248104	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/31/11 19:32		248104	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/31/11 19:32		248104	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/31/11 19:32		248104	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/31/11 19:32		248104	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/31/11 19:32		248104	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 19:32		248104	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/31/11 19:32		248104	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/31/11 19:32		248104	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/31/11 19:32		248104	
Acetone	ND	U	50.0	5.60	1	NA	5/31/11 19:32		248104	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/31/11 19:32		248104	
Benzene	ND	U	1.00	0.210	1	NA	5/31/11 19:32		248104	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/31/11 19:32		248104	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/31/11 19:32		248104	
Bromoform	ND	U	2.00	0.420	1	NA	5/31/11 19:32		248104	
Bromomethane	ND	U	1.00	0.230	1	NA	5/31/11 19:32		248104	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/31/11 19:32		248104	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/31/11 19:32		248104	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 19:32		248104	
Chloroethane	ND	U	5.00	0.520	1	NA	5/31/11 19:32		248104	
Chloroform	ND	U	1.00	0.350	1	NA	5/31/11 19:32		248104	
Chloromethane	ND	U	1.00	0.360	1	NA	5/31/11 19:32		248104	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/31/11 19:32		248104	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/31/11 19:32		248104	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/31/11 19:32		248104	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/31/11 19:32		248104	
Ethylbenzene	1.27		1.00	0.210	1	NA	5/31/11 19:32		248104	
Iodomethane	ND	U	5.00	2.68	1	NA	5/31/11 19:32		248104	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/31/11 19:32		248104	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-19B
Lab Code: J1102280-004

Service Request: J1102280
Date Collected: 5/23/11 1125
Date Received: 5/24/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248104

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/31/11 19:32		248104	
o-Xylene	ND	U	1.00	0.140	1	NA	5/31/11 19:32		248104	
Styrene	ND	U	1.00	0.290	1	NA	5/31/11 19:32		248104	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/31/11 19:32		248104	
Toluene	ND	U	1.00	0.190	1	NA	5/31/11 19:32		248104	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/31/11 19:32		248104	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/31/11 19:32		248104	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/31/11 19:32		248104	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/31/11 19:32		248104	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/31/11 19:32		248104	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/31/11 19:32		248104	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/31/11 19:32		248104	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	92	68-118	5/31/11 19:32	
4-Bromofluorobenzene	92	78-129	5/31/11 19:32	
Dibromofluoromethane	97	80-114	5/31/11 19:32	
Toluene-d8	101	87-118	5/31/11 19:32	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-16A
Lab Code: J1102280-005

Service Request: J1102280
Date Collected: 5/23/11 1415
Date Received: 5/24/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248104

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/31/11 19:54		248104	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/31/11 19:54		248104	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/31/11 19:54		248104	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/31/11 19:54		248104	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/31/11 19:54		248104	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/31/11 19:54		248104	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/31/11 19:54		248104	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/31/11 19:54		248104	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/31/11 19:54		248104	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/31/11 19:54		248104	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/31/11 19:54		248104	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/31/11 19:54		248104	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 19:54		248104	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/31/11 19:54		248104	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/31/11 19:54		248104	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/31/11 19:54		248104	
Acetone	ND	U	50.0	5.60	1	NA	5/31/11 19:54		248104	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/31/11 19:54		248104	
Benzene	ND	U	1.00	0.210	1	NA	5/31/11 19:54		248104	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/31/11 19:54		248104	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/31/11 19:54		248104	
Bromoform	ND	U	2.00	0.420	1	NA	5/31/11 19:54		248104	
Bromomethane	ND	U	1.00	0.230	1	NA	5/31/11 19:54		248104	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/31/11 19:54		248104	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/31/11 19:54		248104	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 19:54		248104	
Chloroethane	ND	U	5.00	0.520	1	NA	5/31/11 19:54		248104	
Chloroform	ND	U	1.00	0.350	1	NA	5/31/11 19:54		248104	
Chloromethane	ND	U	1.00	0.360	1	NA	5/31/11 19:54		248104	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/31/11 19:54		248104	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/31/11 19:54		248104	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/31/11 19:54		248104	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/31/11 19:54		248104	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/31/11 19:54		248104	
Iodomethane	ND	U	5.00	2.68	1	NA	5/31/11 19:54		248104	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/31/11 19:54		248104	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-16A
Lab Code: J1102280-005

Service Request: J1102280
Date Collected: 5/23/11 1415
Date Received: 5/24/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248104

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/31/11 19:54		248104	
o-Xylene	ND	U	1.00	0.140	1	NA	5/31/11 19:54		248104	
Styrene	ND	U	1.00	0.290	1	NA	5/31/11 19:54		248104	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/31/11 19:54		248104	
Toluene	ND	U	1.00	0.190	1	NA	5/31/11 19:54		248104	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/31/11 19:54		248104	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/31/11 19:54		248104	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/31/11 19:54		248104	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/31/11 19:54		248104	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/31/11 19:54		248104	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/31/11 19:54		248104	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/31/11 19:54		248104	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	94	68-118	5/31/11 19:54	
4-Bromofluorobenzene	87	78-129	5/31/11 19:54	
Dibromofluoromethane	98	80-114	5/31/11 19:54	
Toluene-d8	104	87-118	5/31/11 19:54	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-16B
Lab Code: J1102280-006

Service Request: J1102280
Date Collected: 5/23/11 1445
Date Received: 5/24/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248104

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/31/11 20:16		248104	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/31/11 20:16		248104	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/31/11 20:16		248104	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/31/11 20:16		248104	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/31/11 20:16		248104	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/31/11 20:16		248104	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/31/11 20:16		248104	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/31/11 20:16		248104	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/31/11 20:16		248104	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/31/11 20:16		248104	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/31/11 20:16		248104	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/31/11 20:16		248104	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 20:16		248104	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/31/11 20:16		248104	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/31/11 20:16		248104	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/31/11 20:16		248104	
Acetone	ND	U	50.0	5.60	1	NA	5/31/11 20:16		248104	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/31/11 20:16		248104	
Benzene	ND	U	1.00	0.210	1	NA	5/31/11 20:16		248104	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/31/11 20:16		248104	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/31/11 20:16		248104	
Bromoform	ND	U	2.00	0.420	1	NA	5/31/11 20:16		248104	
Bromomethane	ND	U	1.00	0.230	1	NA	5/31/11 20:16		248104	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/31/11 20:16		248104	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/31/11 20:16		248104	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 20:16		248104	
Chloroethane	ND	U	5.00	0.520	1	NA	5/31/11 20:16		248104	
Chloroform	ND	U	1.00	0.350	1	NA	5/31/11 20:16		248104	
Chloromethane	ND	U	1.00	0.360	1	NA	5/31/11 20:16		248104	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/31/11 20:16		248104	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/31/11 20:16		248104	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/31/11 20:16		248104	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/31/11 20:16		248104	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/31/11 20:16		248104	
Iodomethane	ND	U	5.00	2.68	1	NA	5/31/11 20:16		248104	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/31/11 20:16		248104	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-16B
Lab Code: J1102280-006

Service Request: J1102280
Date Collected: 5/23/11 1445
Date Received: 5/24/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248104

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/31/11 20:16		248104	
o-Xylene	ND	U	1.00	0.140	1	NA	5/31/11 20:16		248104	
Styrene	ND	U	1.00	0.290	1	NA	5/31/11 20:16		248104	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/31/11 20:16		248104	
Toluene	ND	U	1.00	0.190	1	NA	5/31/11 20:16		248104	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/31/11 20:16		248104	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/31/11 20:16		248104	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/31/11 20:16		248104	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/31/11 20:16		248104	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/31/11 20:16		248104	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/31/11 20:16		248104	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/31/11 20:16		248104	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	91	68-118	5/31/11 20:16	
4-Bromofluorobenzene	86	78-129	5/31/11 20:16	
Dibromofluoromethane	98	80-114	5/31/11 20:16	
Toluene-d8	105	87-118	5/31/11 20:16	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-16C
Lab Code: J1102280-007

Service Request: J1102280
Date Collected: 5/23/11 1345
Date Received: 5/24/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248104

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/31/11 20:38		248104	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/31/11 20:38		248104	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/31/11 20:38		248104	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/31/11 20:38		248104	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/31/11 20:38		248104	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/31/11 20:38		248104	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/31/11 20:38		248104	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/31/11 20:38		248104	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/31/11 20:38		248104	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/31/11 20:38		248104	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/31/11 20:38		248104	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/31/11 20:38		248104	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 20:38		248104	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/31/11 20:38		248104	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/31/11 20:38		248104	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/31/11 20:38		248104	
Acetone	ND	U	50.0	5.60	1	NA	5/31/11 20:38		248104	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/31/11 20:38		248104	
Benzene	ND	U	1.00	0.210	1	NA	5/31/11 20:38		248104	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/31/11 20:38		248104	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/31/11 20:38		248104	
Bromoform	ND	U	2.00	0.420	1	NA	5/31/11 20:38		248104	
Bromomethane	ND	U	1.00	0.230	1	NA	5/31/11 20:38		248104	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/31/11 20:38		248104	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/31/11 20:38		248104	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 20:38		248104	
Chloroethane	ND	U	5.00	0.520	1	NA	5/31/11 20:38		248104	
Chloroform	ND	U	1.00	0.350	1	NA	5/31/11 20:38		248104	
Chloromethane	ND	U	1.00	0.360	1	NA	5/31/11 20:38		248104	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/31/11 20:38		248104	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/31/11 20:38		248104	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/31/11 20:38		248104	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/31/11 20:38		248104	
Ethylbenzene	1.02		1.00	0.210	1	NA	5/31/11 20:38		248104	
Iodomethane	ND	U	5.00	2.68	1	NA	5/31/11 20:38		248104	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/31/11 20:38		248104	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-16C
Lab Code: J1102280-007

Service Request: J1102280
Date Collected: 5/23/11 1345
Date Received: 5/24/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248104

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/31/11 20:38		248104	
o-Xylene	ND	U	1.00	0.140	1	NA	5/31/11 20:38		248104	
Styrene	ND	U	1.00	0.290	1	NA	5/31/11 20:38		248104	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/31/11 20:38		248104	
Toluene	0.370	I	1.00	0.190	1	NA	5/31/11 20:38		248104	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/31/11 20:38		248104	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/31/11 20:38		248104	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/31/11 20:38		248104	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/31/11 20:38		248104	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/31/11 20:38		248104	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/31/11 20:38		248104	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/31/11 20:38		248104	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	89	68-118	5/31/11 20:38	
4-Bromofluorobenzene	88	78-129	5/31/11 20:38	
Dibromofluoromethane	96	80-114	5/31/11 20:38	
Toluene-d8	103	87-118	5/31/11 20:38	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: EB-2
Lab Code: J1102280-008

Service Request: J1102280
Date Collected: 5/23/11 1525
Date Received: 5/24/11

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248513

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	6/2/11 14:54		248513	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	6/2/11 14:54		248513	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	6/2/11 14:54		248513	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	6/2/11 14:54		248513	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	6/2/11 14:54		248513	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	6/2/11 14:54		248513	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	6/2/11 14:54		248513	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	6/2/11 14:54		248513	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	6/2/11 14:54		248513	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	6/2/11 14:54		248513	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	6/2/11 14:54		248513	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	6/2/11 14:54		248513	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	6/2/11 14:54		248513	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	6/2/11 14:54		248513	
2-Hexanone	ND	U	25.0	2.20	1	NA	6/2/11 14:54		248513	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	6/2/11 14:54		248513	
Acetone	ND	U	50.0	5.60	1	NA	6/2/11 14:54		248513	
Acrylonitrile	ND	U	10.0	1.50	1	NA	6/2/11 14:54		248513	
Benzene	ND	U	1.00	0.210	1	NA	6/2/11 14:54		248513	
Bromochloromethane	ND	U	5.00	0.270	1	NA	6/2/11 14:54		248513	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	6/2/11 14:54		248513	
Bromoform	ND	U	2.00	0.420	1	NA	6/2/11 14:54		248513	
Bromomethane	ND	U	1.00	0.230	1	NA	6/2/11 14:54		248513	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	6/2/11 14:54		248513	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	6/2/11 14:54		248513	
Chlorobenzene	ND	U	1.00	0.160	1	NA	6/2/11 14:54		248513	
Chloroethane	ND	U	5.00	0.520	1	NA	6/2/11 14:54		248513	
Chloroform	ND	U	1.00	0.350	1	NA	6/2/11 14:54		248513	
Chloromethane	ND	U	1.00	0.360	1	NA	6/2/11 14:54		248513	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	6/2/11 14:54		248513	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	6/2/11 14:54		248513	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	6/2/11 14:54		248513	
Dibromomethane	ND	U	5.00	0.360	1	NA	6/2/11 14:54		248513	
Ethylbenzene	ND	U	1.00	0.210	1	NA	6/2/11 14:54		248513	
Iodomethane	ND	U	5.00	2.68	1	NA	6/2/11 14:54		248513	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	6/2/11 14:54		248513	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: EB-2
Lab Code: J1102280-008

Service Request: J1102280
Date Collected: 5/23/11 1525
Date Received: 5/24/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248513

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	2.12	I	5.00	0.210	1	NA	6/2/11 14:54		248513	
o-Xylene	ND	U	1.00	0.140	1	NA	6/2/11 14:54		248513	
Styrene	ND	U	1.00	0.290	1	NA	6/2/11 14:54		248513	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	6/2/11 14:54		248513	
Toluene	ND	U	1.00	0.190	1	NA	6/2/11 14:54		248513	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	6/2/11 14:54		248513	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	6/2/11 14:54		248513	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	6/2/11 14:54		248513	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	6/2/11 14:54		248513	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	6/2/11 14:54		248513	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	6/2/11 14:54		248513	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	6/2/11 14:54		248513	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	88	68-118	6/2/11 14:54	
4-Bromofluorobenzene	94	78-129	6/2/11 14:54	
Dibromofluoromethane	93	80-114	6/2/11 14:54	
Toluene-d8	111	87-118	6/2/11 14:54	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Trip Blank
Lab Code: J1102280-009

Service Request: J1102280
Date Collected: 5/23/11 0000
Date Received: 5/24/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248513

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	6/2/11 15:24		248513	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	6/2/11 15:24		248513	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	6/2/11 15:24		248513	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	6/2/11 15:24		248513	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	6/2/11 15:24		248513	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	6/2/11 15:24		248513	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	6/2/11 15:24		248513	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	6/2/11 15:24		248513	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	6/2/11 15:24		248513	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	6/2/11 15:24		248513	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	6/2/11 15:24		248513	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	6/2/11 15:24		248513	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	6/2/11 15:24		248513	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	6/2/11 15:24		248513	
2-Hexanone	ND	U	25.0	2.20	1	NA	6/2/11 15:24		248513	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	6/2/11 15:24		248513	
Acetone	ND	U	50.0	5.60	1	NA	6/2/11 15:24		248513	
Acrylonitrile	ND	U	10.0	1.50	1	NA	6/2/11 15:24		248513	
Benzene	ND	U	1.00	0.210	1	NA	6/2/11 15:24		248513	
Bromochloromethane	ND	U	5.00	0.270	1	NA	6/2/11 15:24		248513	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	6/2/11 15:24		248513	
Bromoform	ND	U	2.00	0.420	1	NA	6/2/11 15:24		248513	
Bromomethane	ND	U	1.00	0.230	1	NA	6/2/11 15:24		248513	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	6/2/11 15:24		248513	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	6/2/11 15:24		248513	
Chlorobenzene	ND	U	1.00	0.160	1	NA	6/2/11 15:24		248513	
Chloroethane	ND	U	5.00	0.520	1	NA	6/2/11 15:24		248513	
Chloroform	ND	U	1.00	0.350	1	NA	6/2/11 15:24		248513	
Chloromethane	ND	U	1.00	0.360	1	NA	6/2/11 15:24		248513	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	6/2/11 15:24		248513	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	6/2/11 15:24		248513	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	6/2/11 15:24		248513	
Dibromomethane	ND	U	5.00	0.360	1	NA	6/2/11 15:24		248513	
Ethylbenzene	ND	U	1.00	0.210	1	NA	6/2/11 15:24		248513	
Iodomethane	ND	U	5.00	2.68	1	NA	6/2/11 15:24		248513	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	6/2/11 15:24		248513	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Trip Blank
Lab Code: J1102280-009

Service Request: J1102280
Date Collected: 5/23/11 0000
Date Received: 5/24/11
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248513

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	6/2/11 15:24		248513	
o-Xylene	ND	U	1.00	0.140	1	NA	6/2/11 15:24		248513	
Styrene	ND	U	1.00	0.290	1	NA	6/2/11 15:24		248513	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	6/2/11 15:24		248513	
Toluene	ND	U	1.00	0.190	1	NA	6/2/11 15:24		248513	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	6/2/11 15:24		248513	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	6/2/11 15:24		248513	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	6/2/11 15:24		248513	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	6/2/11 15:24		248513	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	6/2/11 15:24		248513	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	6/2/11 15:24		248513	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	6/2/11 15:24		248513	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	89	68-118	6/2/11 15:24	
4-Bromofluorobenzene	103	78-129	6/2/11 15:24	
Dibromofluoromethane	94	80-114	6/2/11 15:24	
Toluene-d8	100	87-118	6/2/11 15:24	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: JQ1102991-01

Service Request: J1102280
Date Collected: NA
Date Received: NA
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248104

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	5/31/11 15:51		248104	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	5/31/11 15:51		248104	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	5/31/11 15:51		248104	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	5/31/11 15:51		248104	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	5/31/11 15:51		248104	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	5/31/11 15:51		248104	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	5/31/11 15:51		248104	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	5/31/11 15:51		248104	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	5/31/11 15:51		248104	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	5/31/11 15:51		248104	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	5/31/11 15:51		248104	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	5/31/11 15:51		248104	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 15:51		248104	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	5/31/11 15:51		248104	
2-Hexanone	ND	U	25.0	2.20	1	NA	5/31/11 15:51		248104	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	5/31/11 15:51		248104	
Acetone	ND	U	50.0	5.60	1	NA	5/31/11 15:51		248104	
Acrylonitrile	ND	U	10.0	1.50	1	NA	5/31/11 15:51		248104	
Benzene	ND	U	1.00	0.210	1	NA	5/31/11 15:51		248104	
Bromochloromethane	ND	U	5.00	0.270	1	NA	5/31/11 15:51		248104	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	5/31/11 15:51		248104	
Bromoform	ND	U	2.00	0.420	1	NA	5/31/11 15:51		248104	
Bromomethane	ND	U	1.00	0.230	1	NA	5/31/11 15:51		248104	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	5/31/11 15:51		248104	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	5/31/11 15:51		248104	
Chlorobenzene	ND	U	1.00	0.160	1	NA	5/31/11 15:51		248104	
Chloroethane	ND	U	5.00	0.520	1	NA	5/31/11 15:51		248104	
Chloroform	ND	U	1.00	0.350	1	NA	5/31/11 15:51		248104	
Chloromethane	ND	U	1.00	0.360	1	NA	5/31/11 15:51		248104	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	5/31/11 15:51		248104	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	5/31/11 15:51		248104	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	5/31/11 15:51		248104	
Dibromomethane	ND	U	5.00	0.360	1	NA	5/31/11 15:51		248104	
Ethylbenzene	ND	U	1.00	0.210	1	NA	5/31/11 15:51		248104	
Iodomethane	ND	U	5.00	2.68	1	NA	5/31/11 15:51		248104	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	5/31/11 15:51		248104	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: JQ1102991-01

Service Request: J1102280
Date Collected: NA
Date Received: NA
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248104

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	5/31/11 15:51		248104	
o-Xylene	ND	U	1.00	0.140	1	NA	5/31/11 15:51		248104	
Styrene	ND	U	1.00	0.290	1	NA	5/31/11 15:51		248104	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	5/31/11 15:51		248104	
Toluene	ND	U	1.00	0.190	1	NA	5/31/11 15:51		248104	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	5/31/11 15:51		248104	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	5/31/11 15:51		248104	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	5/31/11 15:51		248104	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	5/31/11 15:51		248104	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	5/31/11 15:51		248104	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	5/31/11 15:51		248104	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	5/31/11 15:51		248104	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	93	68-118	5/31/11 15:51	
4-Bromofluorobenzene	89	78-129	5/31/11 15:51	
Dibromofluoromethane	96	80-114	5/31/11 15:51	
Toluene-d8	103	87-118	5/31/11 15:51	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: JQ1103050-02

Service Request: J1102280
Date Collected: NA
Date Received: NA
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248513

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	NA	6/2/11 14:24		248513	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	6/2/11 14:24		248513	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	NA	6/2/11 14:24		248513	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	NA	6/2/11 14:24		248513	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	NA	6/2/11 14:24		248513	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	6/2/11 14:24		248513	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	6/2/11 14:24		248513	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	6/2/11 14:24		248513	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	NA	6/2/11 14:24		248513	
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	6/2/11 14:24		248513	
1,2-Dichloroethane	ND	U	1.00	0.220	1	NA	6/2/11 14:24		248513	
1,2-Dichloropropane	ND	U	1.00	0.190	1	NA	6/2/11 14:24		248513	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	NA	6/2/11 14:24		248513	
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	6/2/11 14:24		248513	
2-Hexanone	ND	U	25.0	2.20	1	NA	6/2/11 14:24		248513	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	NA	6/2/11 14:24		248513	
Acetone	ND	U	50.0	5.60	1	NA	6/2/11 14:24		248513	
Acrylonitrile	ND	U	10.0	1.50	1	NA	6/2/11 14:24		248513	
Benzene	ND	U	1.00	0.210	1	NA	6/2/11 14:24		248513	
Bromochloromethane	ND	U	5.00	0.270	1	NA	6/2/11 14:24		248513	
Bromodichloromethane	ND	U	1.00	0.220	1	NA	6/2/11 14:24		248513	
Bromoform	ND	U	2.00	0.420	1	NA	6/2/11 14:24		248513	
Bromomethane	ND	U	1.00	0.230	1	NA	6/2/11 14:24		248513	
Carbon Disulfide	ND	U	10.0	2.36	1	NA	6/2/11 14:24		248513	
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	6/2/11 14:24		248513	
Chlorobenzene	ND	U	1.00	0.160	1	NA	6/2/11 14:24		248513	
Chloroethane	ND	U	5.00	0.520	1	NA	6/2/11 14:24		248513	
Chloroform	ND	U	1.00	0.350	1	NA	6/2/11 14:24		248513	
Chloromethane	ND	U	1.00	0.360	1	NA	6/2/11 14:24		248513	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	6/2/11 14:24		248513	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	6/2/11 14:24		248513	
Dibromochloromethane	ND	U	1.00	0.210	1	NA	6/2/11 14:24		248513	
Dibromomethane	ND	U	5.00	0.360	1	NA	6/2/11 14:24		248513	
Ethylbenzene	ND	U	1.00	0.210	1	NA	6/2/11 14:24		248513	
Iodomethane	ND	U	5.00	2.68	1	NA	6/2/11 14:24		248513	
m,p-Xylenes	ND	U	2.00	0.310	1	NA	6/2/11 14:24		248513	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: JQ1103050-02

Service Request: J1102280
Date Collected: NA
Date Received: NA
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analysis Lot: 248513

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Methylene Chloride	ND	U	5.00	0.210	1	NA	6/2/11 14:24		248513	
o-Xylene	ND	U	1.00	0.140	1	NA	6/2/11 14:24		248513	
Styrene	ND	U	1.00	0.290	1	NA	6/2/11 14:24		248513	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	NA	6/2/11 14:24		248513	
Toluene	ND	U	1.00	0.190	1	NA	6/2/11 14:24		248513	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	NA	6/2/11 14:24		248513	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	6/2/11 14:24		248513	
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	6/2/11 14:24		248513	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	NA	6/2/11 14:24		248513	
Trichlorofluoromethane	ND	U	20.0	0.240	1	NA	6/2/11 14:24		248513	
Vinyl Acetate	ND	U	10.0	1.90	1	NA	6/2/11 14:24		248513	
Vinyl Chloride	ND	U	1.00	0.360	1	NA	6/2/11 14:24		248513	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	89	68-118	6/2/11 14:24	
4-Bromofluorobenzene	101	78-129	6/2/11 14:24	
Dibromofluoromethane	96	80-114	6/2/11 14:24	
Toluene-d8	99	87-118	6/2/11 14:24	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102280
Date Collected: 05/23/2011
Date Received: 05/24/2011

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

Sample Name: MW-23A
Lab Code: J1102280-001
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/31/11	05/31/11	JWG1101266	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00039	1	05/31/11	05/31/11	JWG1101266	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	73	77-150	05/31/11	Outside Control Limits

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102280
Date Collected: 05/23/2011
Date Received: 05/24/2011

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

Sample Name: MW-23B
Lab Code: J1102280-002
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/31/11	05/31/11	JWG1101266	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00039	1	05/31/11	05/31/11	JWG1101266	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	101	77-150	05/31/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102280
Date Collected: 05/23/2011
Date Received: 05/24/2011

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

Sample Name: MW-19A
Lab Code: J1102280-003
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/31/11	05/31/11	JWG1101266	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00039	1	05/31/11	05/31/11	JWG1101266	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	69	77-150	05/31/11	Outside Control Limits

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102280
Date Collected: 05/23/2011
Date Received: 05/24/2011

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

Sample Name: MW-19B
Lab Code: J1102280-004
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/31/11	05/31/11	JWG1101266	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00039	1	05/31/11	05/31/11	JWG1101266	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	110	77-150	05/31/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102280
Date Collected: 05/23/2011
Date Received: 05/24/2011

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

Sample Name: MW-16A
Lab Code: J1102280-005
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/31/11	06/01/11	JWG1101266	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00039	1	05/31/11	06/01/11	JWG1101266	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	109	77-150	06/01/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102280
Date Collected: 05/23/2011
Date Received: 05/24/2011

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

Sample Name: MW-16B
Lab Code: J1102280-006
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/31/11	06/01/11	JWG1101266	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00039	1	05/31/11	06/01/11	JWG1101266	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	108	77-150	06/01/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102280
Date Collected: 05/23/2011
Date Received: 05/24/2011

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

Sample Name: MW-16C
Lab Code: J1102280-007
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/31/11	06/01/11	JWG1101266	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00039	1	05/31/11	06/01/11	JWG1101266	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	110	77-150	06/01/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102280
Date Collected: 05/23/2011
Date Received: 05/24/2011

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

Sample Name: EB-2
Lab Code: J1102280-008
Extraction Method: METHOD
Analysis Method: 8011

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	0.021	0.00015	1	05/31/11	06/01/11	JWG1101266	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.021	0.00039	1	05/31/11	06/01/11	JWG1101266	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	112	77-150	06/01/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: J1102280
Date Collected: NA
Date Received: NA

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

Sample Name: Method Blank
Lab Code: JWG1101266-3
Extraction Method: METHOD
Analysis Method: 8011

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	0.020	0.00014	1	05/31/11	05/31/11	JWG1101266	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.020	0.00038	1	05/31/11	05/31/11	JWG1101266	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	113	77-150	05/31/11	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-23A
Lab Code: J1102280-001

Service Request: J1102280
Date Collected: 5/23/11 1030
Date Received: 5/24/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Dissolved	6020	ND U	µg/L	2.0	0.2	1	5/31/11	6/1/11 11:24	
Antimony, Total Recoverable	6020	0.3 I	µg/L	2.0	0.2	1	5/31/11	6/1/11 18:37	
Arsenic, Dissolved	6020	1.22	µg/L	0.50	0.40	1	5/31/11	6/1/11 11:24	
Arsenic, Total Recoverable	6020	1.81	µg/L	0.50	0.40	1	5/31/11	6/1/11 18:37	
Barium, Dissolved	6020	8.7	µg/L	2.0	0.3	1	5/31/11	6/1/11 11:24	
Barium, Total Recoverable	6020	11.0	µg/L	2.0	0.3	1	5/31/11	6/1/11 18:37	
Beryllium, Dissolved	6020	ND U	µg/L	1.0	0.2	1	5/31/11	6/1/11 11:24	
Beryllium, Total Recoverable	6020	ND U	µg/L	1.0	0.2	1	5/31/11	6/1/11 18:37	
Cadmium, Dissolved	6020	ND U	µg/L	0.50	0.30	1	5/31/11	6/1/11 11:24	
Cadmium, Total Recoverable	6020	ND U	µg/L	0.50	0.30	1	5/31/11	6/1/11 18:37	
Chromium, Dissolved	6020	2.6	µg/L	2.0	0.3	1	5/31/11	6/1/11 11:24	
Chromium, Total Recoverable	6020	5.2	µg/L	2.0	0.3	1	5/31/11	6/1/11 18:37	
Cobalt, Dissolved	6020	0.4 I	µg/L	1.0	0.08	1	5/31/11	6/1/11 11:24	
Cobalt, Total Recoverable	6020	0.5 I	µg/L	1.0	0.08	1	5/31/11	6/1/11 18:37	
Copper, Dissolved	6020	ND U	µg/L	2.0	1.0	1	5/31/11	6/1/11 11:24	
Copper, Total Recoverable	6020	1.1 I	µg/L	2.0	1.0	1	5/31/11	6/1/11 18:37	
Iron, Dissolved	6010B	1850	µg/L	100	20	1	5/27/11	6/2/11 04:09	
Iron, Total Recoverable	6010B	2000	µg/L	100	20	1	5/27/11	6/1/11 21:21	
Lead, Dissolved	6020	0.1 I	µg/L	1.0	0.06	1	5/31/11	6/1/11 11:24	
Lead, Total Recoverable	6020	1.5	µg/L	1.0	0.06	1	5/31/11	6/1/11 18:37	
Mercury, Dissolved	7470A	ND U	µg/L	0.20	0.02	1	6/ 2/11	6/3/11 14:43	
Mercury, Total	7470A	0.05 I	µg/L	0.20	0.02	1	5/31/11	6/1/11 13:22	
Nickel, Dissolved	6020	1.8 I	µg/L	2.0	0.2	1	5/31/11	6/1/11 11:24	
Nickel, Total Recoverable	6020	2.2	µg/L	2.0	0.2	1	5/31/11	6/1/11 18:37	
Selenium, Dissolved	6020	ND U	µg/L	5.0	1.0	1	5/31/11	6/1/11 11:24	
Selenium, Total Recoverable	6020	1.3 I	µg/L	5.0	1.0	1	5/31/11	6/1/11 18:37	
Silver, Dissolved	6020	ND U	µg/L	0.50	0.07	1	5/31/11	6/1/11 11:24	
Silver, Total Recoverable	6020	ND U	µg/L	0.50	0.07	1	5/31/11	6/1/11 18:37	
Sodium, Dissolved	6010B	21.4	mg/L	0.50	0.02	1	5/27/11	6/2/11 04:09	
Sodium, Total Recoverable	6010B	22.2	mg/L	0.50	0.02	1	5/27/11	6/1/11 21:21	
Thallium, Dissolved	6020	0.2 I	µg/L	1.0	0.03	1	5/31/11	6/1/11 11:24	
Thallium, Total Recoverable	6020	ND U	µg/L	1.0	0.03	1	5/31/11	6/1/11 18:37	
Vanadium, Dissolved	6020	5.0	µg/L	5.0	0.5	1	5/31/11	6/1/11 11:24	
Vanadium, Total Recoverable	6020	6.3	µg/L	5.0	0.5	1	5/31/11	6/1/11 18:37	
Zinc, Dissolved	6020	1 I	µg/L	10	1	1	5/31/11	6/1/11 11:24	
Zinc, Total Recoverable	6020	1 I	µg/L	10	1	1	5/31/11	6/1/11 18:37	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-23B
Lab Code: J1102280-002

Service Request: J1102280
Date Collected: 5/23/11 0855
Date Received: 5/24/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/31/11	6/1/11 18:42	
Arsenic, Total Recoverable	6020	ND	U	µg/L	0.50	0.40	1	5/31/11	6/1/11 18:42	
Barium, Total Recoverable	6020	8.9		µg/L	2.0	0.3	1	5/31/11	6/1/11 18:42	
Beryllium, Total Recoverable	6020	ND	U	µg/L	1.0	0.2	1	5/31/11	6/1/11 18:42	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/31/11	6/1/11 18:42	
Chromium, Total Recoverable	6020	0.7	I	µg/L	2.0	0.3	1	5/31/11	6/1/11 18:42	
Cobalt, Total Recoverable	6020	0.2	I	µg/L	1.0	0.08	1	5/31/11	6/1/11 18:42	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/31/11	6/1/11 18:42	
Iron, Total Recoverable	6010B	610		µg/L	100	20	1	5/27/11	6/1/11 21:26	
Lead, Total Recoverable	6020	ND	U	µg/L	1.0	0.06	1	5/31/11	6/1/11 18:42	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/31/11	6/1/11 13:24	
Nickel, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/31/11	6/1/11 18:42	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/31/11	6/1/11 18:42	
Silver, Total Recoverable	6020	ND	U	µg/L	0.50	0.07	1	5/31/11	6/1/11 18:42	
Sodium, Total Recoverable	6010B	12.9		mg/L	0.50	0.02	1	5/27/11	6/1/11 21:26	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/31/11	6/1/11 18:42	
Vanadium, Total Recoverable	6020	1.4	I	µg/L	5.0	0.5	1	5/31/11	6/1/11 18:42	
Zinc, Total Recoverable	6020	ND	U	µg/L	10	1	1	5/31/11	6/1/11 18:42	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-19A
Lab Code: J1102280-003

Service Request: J1102280
Date Collected: 5/23/11 11:50
Date Received: 5/24/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Dissolved	6020	0.4	I	µg/L	2.0	0.2	1	5/31/11	6/1/11 11:50	
Antimony, Total Recoverable	6020	0.3	I	µg/L	2.0	0.2	1	5/31/11	6/1/11 18:47	
Arsenic, Dissolved	6020	8.14		µg/L	0.50	0.40	1	5/31/11	6/1/11 11:50	
Arsenic, Total Recoverable	6020	10.1		µg/L	0.50	0.40	1	5/31/11	6/1/11 18:47	
Barium, Dissolved	6020	27.3		µg/L	2.0	0.3	1	5/31/11	6/1/11 11:50	
Barium, Total Recoverable	6020	37.5		µg/L	2.0	0.3	1	5/31/11	6/1/11 18:47	
Beryllium, Dissolved	6020	0.8	I	µg/L	1.0	0.2	1	5/31/11	6/1/11 11:50	
Beryllium, Total Recoverable	6020	1.2		µg/L	1.0	0.2	1	5/31/11	6/1/11 18:47	
Cadmium, Dissolved	6020	ND	U	µg/L	0.50	0.30	1	5/31/11	6/1/11 11:50	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/31/11	6/1/11 18:47	
Chromium, Dissolved	6020	26.5		µg/L	2.0	0.3	1	5/31/11	6/1/11 11:50	
Chromium, Total Recoverable	6020	42.4		µg/L	2.0	0.3	1	5/31/11	6/1/11 18:47	
Cobalt, Dissolved	6020	1.9		µg/L	1.0	0.08	1	5/31/11	6/1/11 11:50	
Cobalt, Total Recoverable	6020	2.4		µg/L	1.0	0.08	1	5/31/11	6/1/11 18:47	
Copper, Dissolved	6020	1.1	I	µg/L	2.0	1.0	1	5/31/11	6/1/11 11:50	
Copper, Total Recoverable	6020	2.1		µg/L	2.0	1.0	1	5/31/11	6/1/11 18:47	
Iron, Dissolved	6010B	10000		µg/L	100	20	1	5/27/11	6/2/11 04:27	
Iron, Total Recoverable	6010B	13300		µg/L	100	20	1	5/27/11	6/1/11 21:31	
Lead, Dissolved	6020	7.9		µg/L	1.0	0.06	1	5/31/11	6/1/11 11:50	
Lead, Total Recoverable	6020	14.8		µg/L	1.0	0.06	1	5/31/11	6/1/11 18:47	
Mercury, Dissolved	7470A	12	I	µg/L	20	2	1	6/ 2/11	6/3/11 14:50	
Mercury, Total	7470A	0.28		µg/L	0.20	0.02	1	5/31/11	6/1/11 13:25	
Nickel, Dissolved	6020	4.4		µg/L	2.0	0.2	1	5/31/11	6/1/11 11:50	
Nickel, Total Recoverable	6020	6.8		µg/L	2.0	0.2	1	5/31/11	6/1/11 18:47	
Selenium, Dissolved	6020	5.8		µg/L	5.0	1.0	1	5/31/11	6/1/11 11:50	
Selenium, Total Recoverable	6020	8.0		µg/L	5.0	1.0	1	5/31/11	6/1/11 18:47	
Silver, Dissolved	6020	ND	U	µg/L	0.50	0.07	1	5/31/11	6/1/11 11:50	
Silver, Total Recoverable	6020	ND	U	µg/L	0.50	0.07	1	5/31/11	6/1/11 18:47	
Sodium, Dissolved	6010B	26.6		mg/L	0.50	0.02	1	5/27/11	6/2/11 04:27	
Sodium, Total Recoverable	6010B	28.5		mg/L	0.50	0.02	1	5/27/11	6/1/11 21:31	
Thallium, Dissolved	6020	0.2	I	µg/L	1.0	0.03	1	5/31/11	6/1/11 11:50	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/31/11	6/1/11 18:47	
Vanadium, Dissolved	6020	29.6		µg/L	5.0	0.5	1	5/31/11	6/1/11 11:50	
Vanadium, Total Recoverable	6020	38.7		µg/L	5.0	0.5	1	5/31/11	6/1/11 18:47	
Zinc, Dissolved	6020	1	I	µg/L	10	1	1	5/31/11	6/1/11 11:50	
Zinc, Total Recoverable	6020	2	I	µg/L	10	1	1	5/31/11	6/1/11 18:47	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-19B
Lab Code: J1102280-004

Service Request: J1102280
Date Collected: 5/23/11 1125
Date Received: 5/24/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND U	µg/L	2.0	0.2	1	5/31/11	6/1/11 18:52	
Arsenic, Total Recoverable	6020	ND U	µg/L	0.50	0.40	1	5/31/11	6/1/11 18:52	
Barium, Total Recoverable	6020	29.4	µg/L	2.0	0.3	1	5/31/11	6/1/11 18:52	
Beryllium, Total Recoverable	6020	ND U	µg/L	1.0	0.2	1	5/31/11	6/1/11 18:52	
Cadmium, Total Recoverable	6020	ND U	µg/L	0.50	0.30	1	5/31/11	6/1/11 18:52	
Chromium, Total Recoverable	6020	1.0 I	µg/L	2.0	0.3	1	5/31/11	6/1/11 18:52	
Cobalt, Total Recoverable	6020	0.2 I	µg/L	1.0	0.08	1	5/31/11	6/1/11 18:52	
Copper, Total Recoverable	6020	ND U	µg/L	2.0	1.0	1	5/31/11	6/1/11 18:52	
Iron, Total Recoverable	6010B	1010	µg/L	100	20	1	5/27/11	6/1/11 21:36	
Lead, Total Recoverable	6020	0.4 I	µg/L	1.0	0.06	1	5/31/11	6/1/11 18:52	
Mercury, Total	7470A	ND U	µg/L	0.20	0.02	1	5/31/11	6/1/11 13:27	
Nickel, Total Recoverable	6020	0.3 I	µg/L	2.0	0.2	1	5/31/11	6/1/11 18:52	
Selenium, Total Recoverable	6020	ND U	µg/L	5.0	1.0	1	5/31/11	6/1/11 18:52	
Silver, Total Recoverable	6020	ND U	µg/L	0.50	0.07	1	5/31/11	6/1/11 18:52	
Sodium, Total Recoverable	6010B	17.7	mg/L	0.50	0.02	1	5/27/11	6/1/11 21:35	
Thallium, Total Recoverable	6020	ND U	µg/L	1.0	0.03	1	5/31/11	6/1/11 18:52	
Vanadium, Total Recoverable	6020	0.8 I	µg/L	5.0	0.5	1	5/31/11	6/1/11 18:52	
Zinc, Total Recoverable	6020	ND U	µg/L	10	1	1	5/31/11	6/1/11 18:52	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-16A
Lab Code: J1102280-005

Service Request: J1102280
Date Collected: 5/23/11 1415
Date Received: 5/24/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	0.3	I	µg/L	2.0	0.2	1	5/31/11	6/1/11 18:58	
Arsenic, Total Recoverable	6020	0.74		µg/L	0.50	0.40	1	5/31/11	6/1/11 18:58	
Barium, Total Recoverable	6020	10.1		µg/L	2.0	0.3	1	5/31/11	6/1/11 18:58	
Beryllium, Total Recoverable	6020	ND	U	µg/L	1.0	0.2	1	5/31/11	6/1/11 18:58	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/31/11	6/1/11 18:58	
Chromium, Total Recoverable	6020	2.7		µg/L	2.0	0.3	1	5/31/11	6/1/11 18:58	
Cobalt, Total Recoverable	6020	0.1	I	µg/L	1.0	0.08	1	5/31/11	6/1/11 18:58	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/31/11	6/1/11 18:58	
Iron, Total Recoverable	6010B	370		µg/L	100	20	1	5/27/11	6/1/11 21:41	
Lead, Total Recoverable	6020	0.8	I	µg/L	1.0	0.06	1	5/31/11	6/1/11 18:58	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/31/11	6/1/11 13:28	
Nickel, Total Recoverable	6020	0.8	I	µg/L	2.0	0.2	1	5/31/11	6/1/11 18:58	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/31/11	6/1/11 18:58	
Silver, Total Recoverable	6020	ND	U	µg/L	0.50	0.07	1	5/31/11	6/1/11 18:58	
Sodium, Total Recoverable	6010B	1.05		mg/L	0.50	0.02	1	5/27/11	6/1/11 21:40	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/31/11	6/1/11 18:58	
Vanadium, Total Recoverable	6020	5.2		µg/L	5.0	0.5	1	5/31/11	6/1/11 18:58	
Zinc, Total Recoverable	6020	ND	U	µg/L	10	1	1	5/31/11	6/1/11 18:58	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-16B
Lab Code: J1102280-006

Service Request: J1102280
Date Collected: 5/23/11 1445
Date Received: 5/24/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/31/11	6/1/11 19:03	
Arsenic, Total Recoverable	6020	0.47	I	µg/L	0.50	0.40	1	5/31/11	6/1/11 19:03	
Barium, Total Recoverable	6020	14.2		µg/L	2.0	0.3	1	5/31/11	6/1/11 19:03	
Beryllium, Total Recoverable	6020	ND	U	µg/L	1.0	0.2	1	5/31/11	6/1/11 19:03	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/31/11	6/1/11 19:03	
Chromium, Total Recoverable	6020	1.5	I	µg/L	2.0	0.3	1	5/31/11	6/1/11 19:03	
Cobalt, Total Recoverable	6020	0.2	I	µg/L	1.0	0.08	1	5/31/11	6/1/11 19:03	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/31/11	6/1/11 19:03	
Iron, Total Recoverable	6010B	930		µg/L	100	20	1	5/27/11	6/1/11 21:59	
Lead, Total Recoverable	6020	0.3	I	µg/L	1.0	0.06	1	5/31/11	6/1/11 19:03	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/31/11	6/1/11 13:39	
Nickel, Total Recoverable	6020	0.4	I	µg/L	2.0	0.2	1	5/31/11	6/1/11 19:03	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/31/11	6/1/11 19:03	
Silver, Total Recoverable	6020	ND	U	µg/L	0.50	0.07	1	5/31/11	6/1/11 19:03	
Sodium, Total Recoverable	6010B	5.56		mg/L	0.50	0.02	1	5/27/11	6/1/11 21:59	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/31/11	6/1/11 19:03	
Vanadium, Total Recoverable	6020	1.5	I	µg/L	5.0	0.5	1	5/31/11	6/1/11 19:03	
Zinc, Total Recoverable	6020	ND	U	µg/L	10	1	1	5/31/11	6/1/11 19:03	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-16C
Lab Code: J1102280-007

Service Request: J1102280
Date Collected: 5/23/11 1345
Date Received: 5/24/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/31/11	6/1/11 19:08	
Arsenic, Total Recoverable	6020	ND	U	µg/L	0.50	0.40	1	5/31/11	6/1/11 19:08	
Barium, Total Recoverable	6020	15.3		µg/L	2.0	0.3	1	5/31/11	6/1/11 19:08	
Beryllium, Total Recoverable	6020	ND	U	µg/L	1.0	0.2	1	5/31/11	6/1/11 19:08	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/31/11	6/1/11 19:08	
Chromium, Total Recoverable	6020	0.9	I	µg/L	2.0	0.3	1	5/31/11	6/1/11 19:08	
Cobalt, Total Recoverable	6020	ND	U	µg/L	1.0	0.08	1	5/31/11	6/1/11 19:08	
Copper, Total Recoverable	6020	7.1		µg/L	2.0	1.0	1	5/31/11	6/1/11 19:08	
Iron, Total Recoverable	6010B	860		µg/L	100	20	1	5/27/11	6/1/11 22:04	
Lead, Total Recoverable	6020	2.8		µg/L	1.0	0.06	1	5/31/11	6/1/11 19:08	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/31/11	6/1/11 13:40	
Nickel, Total Recoverable	6020	21.2		µg/L	2.0	0.2	1	5/31/11	6/1/11 19:08	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/31/11	6/1/11 19:08	
Silver, Total Recoverable	6020	ND	U	µg/L	0.50	0.07	1	5/31/11	6/1/11 19:08	
Sodium, Total Recoverable	6010B	10.8		mg/L	0.50	0.02	1	5/27/11	6/1/11 22:04	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/31/11	6/1/11 19:08	
Vanadium, Total Recoverable	6020	1.7	I	µg/L	5.0	0.5	1	5/31/11	6/1/11 19:08	
Zinc, Total Recoverable	6020	74		µg/L	10	1	1	5/31/11	6/1/11 19:08	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: EB-2
Lab Code: J1102280-008

Service Request: J1102280
Date Collected: 5/23/11 1525
Date Received: 5/24/11

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/31/11	6/1/11 19:13	
Arsenic, Total Recoverable	6020	ND	U	µg/L	0.50	0.40	1	5/31/11	6/1/11 19:13	
Barium, Total Recoverable	6020	ND	U	µg/L	2.0	0.3	1	5/31/11	6/1/11 19:13	
Beryllium, Total Recoverable	6020	ND	U	µg/L	1.0	0.2	1	5/31/11	6/1/11 19:13	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/31/11	6/1/11 19:13	
Chromium, Total Recoverable	6020	1.1	I	µg/L	2.0	0.3	1	5/31/11	6/1/11 19:13	
Cobalt, Total Recoverable	6020	ND	U	µg/L	1.0	0.08	1	5/31/11	6/1/11 19:13	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/31/11	6/1/11 19:13	
Iron, Total Recoverable	6010B	ND	U	µg/L	100	20	1	5/27/11	6/1/11 22:09	
Lead, Total Recoverable	6020	ND	U	µg/L	1.0	0.06	1	5/31/11	6/1/11 19:13	
Mercury, Total	7470A	ND	U	µg/L	0.20	0.02	1	5/31/11	6/1/11 13:42	
Nickel, Total Recoverable	6020	0.6	I	µg/L	2.0	0.2	1	5/31/11	6/1/11 19:13	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/31/11	6/1/11 19:13	
Silver, Total Recoverable	6020	ND	U	µg/L	0.50	0.07	1	5/31/11	6/1/11 19:13	
Sodium, Total Recoverable	6010B	0.36	I	mg/L	0.50	0.02	1	5/27/11	6/1/11 22:09	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/31/11	6/1/11 19:13	
Vanadium, Total Recoverable	6020	ND	U	µg/L	5.0	0.5	1	5/31/11	6/1/11 19:13	
Zinc, Total Recoverable	6020	4	I	µg/L	10	1	1	5/31/11	6/1/11 19:13	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1102280-MB

Service Request: J1102280
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Antimony, Dissolved	6020	ND	U	µg/L	2.0	0.2	1	5/31/11	6/1/11 11:09	
Antimony, Total Recoverable	6020	0.2	I	µg/L	2.0	0.2	1	5/31/11	6/1/11 16:41	
Arsenic, Dissolved	6020	ND	U	µg/L	0.50	0.40	1	5/31/11	6/1/11 11:09	
Arsenic, Total Recoverable	6020	ND	U	µg/L	0.50	0.40	1	5/31/11	6/1/11 16:41	
Barium, Dissolved	6020	ND	U	µg/L	2.0	0.3	1	5/31/11	6/1/11 11:09	
Barium, Total Recoverable	6020	ND	U	µg/L	2.0	0.3	1	5/31/11	6/1/11 16:41	
Beryllium, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	5/31/11	6/1/11 11:09	
Beryllium, Total Recoverable	6020	ND	U	µg/L	1.0	0.2	1	5/31/11	6/1/11 16:41	
Cadmium, Dissolved	6020	ND	U	µg/L	0.50	0.30	1	5/31/11	6/1/11 11:09	
Cadmium, Total Recoverable	6020	ND	U	µg/L	0.50	0.30	1	5/31/11	6/1/11 16:41	
Chromium, Dissolved	6020	ND	U	µg/L	2.0	0.3	1	5/31/11	6/1/11 11:09	
Chromium, Total Recoverable	6020	ND	U	µg/L	2.0	0.3	1	5/31/11	6/1/11 16:41	
Cobalt, Dissolved	6020	ND	U	µg/L	1.0	0.08	1	5/31/11	6/1/11 11:09	
Cobalt, Total Recoverable	6020	ND	U	µg/L	1.0	0.08	1	5/31/11	6/1/11 16:41	
Copper, Dissolved	6020	ND	U	µg/L	2.0	1.0	1	5/31/11	6/1/11 11:09	
Copper, Total Recoverable	6020	ND	U	µg/L	2.0	1.0	1	5/31/11	6/1/11 16:41	
Iron, Dissolved	6010B	ND	U	µg/L	100	20	1	5/27/11	6/2/11 03:50	
Iron, Total Recoverable	6010B	ND	U	µg/L	100	20	1	5/27/11	6/1/11 20:49	
Lead, Dissolved	6020	ND	U	µg/L	1.0	0.06	1	5/31/11	6/1/11 11:09	
Lead, Total Recoverable	6020	ND	U	µg/L	1.0	0.06	1	5/31/11	6/1/11 16:41	
Mercury, Dissolved	7470A	ND	U	µg/L	0.20	0.02	1	6/ 2/11	6/3/11 14:40	
Mercury, Total	7470A	0.05	I	µg/L	0.20	0.02	1	5/31/11	6/1/11 13:20	
Nickel, Dissolved	6020	ND	U	µg/L	2.0	0.2	1	5/31/11	6/1/11 11:09	
Nickel, Total Recoverable	6020	ND	U	µg/L	2.0	0.2	1	5/31/11	6/1/11 16:41	
Selenium, Dissolved	6020	ND	U	µg/L	5.0	1.0	1	5/31/11	6/1/11 11:09	
Selenium, Total Recoverable	6020	ND	U	µg/L	5.0	1.0	1	5/31/11	6/1/11 16:41	
Silver, Dissolved	6020	ND	U	µg/L	0.50	0.07	1	5/31/11	6/1/11 11:09	
Silver, Total Recoverable	6020	ND	U	µg/L	0.50	0.07	1	5/31/11	6/1/11 16:41	
Sodium, Dissolved	6010B	0.11	I	mg/L	0.50	0.02	1	5/27/11	6/2/11 03:50	
Sodium, Total Recoverable	6010B	0.13	I	mg/L	0.50	0.02	1	5/27/11	6/1/11 20:49	
Thallium, Dissolved	6020	ND	U	µg/L	1.0	0.03	1	5/31/11	6/1/11 11:09	
Thallium, Total Recoverable	6020	ND	U	µg/L	1.0	0.03	1	5/31/11	6/1/11 16:41	
Vanadium, Dissolved	6020	ND	U	µg/L	5.0	0.5	1	5/31/11	6/1/11 11:09	
Vanadium, Total Recoverable	6020	ND	U	µg/L	5.0	0.5	1	5/31/11	6/1/11 16:41	
Zinc, Dissolved	6020	ND	U	µg/L	10	1	1	5/31/11	6/1/11 11:09	
Zinc, Total Recoverable	6020	ND	U	µg/L	10	1	1	5/31/11	6/1/11 16:41	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-23A
Lab Code: J1102280-001

Service Request: J1102280
Date Collected: 5/23/11 1030
Date Received: 5/24/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	10.5		mg/L	0.050	0.025	5	NA	5/27/11 10:40	
Chloride	300.0	37.6		mg/L	0.50	0.10	1	NA	5/24/11 15:02	
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.04	1	NA	5/24/11 15:02	
Solids, Total Dissolved	SM 2540 C	234		mg/L	10	10	1	NA	5/25/11 11:26	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-23B
Lab Code: J1102280-002

Service Request: J1102280
Date Collected: 5/23/11 0855
Date Received: 5/24/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	0.102	mg/L	0.010	0.005	1	NA	5/27/11 10:41	
Chloride	300.0	11.5	mg/L	0.50	0.10	1	NA	5/24/11 15:17	
Nitrate as Nitrogen	300.0	ND U	mg/L	0.20	0.04	1	NA	5/24/11 15:17	
Solids, Total Dissolved	SM 2540 C	69	mg/L	10	10	1	NA	5/25/11 11:26	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-19A
Lab Code: J1102280-003

Service Request: J1102280
Date Collected: 5/23/11 1150
Date Received: 5/24/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	21.6		mg/L	0.20	0.10	20	NA	5/27/11 10:47	
Chloride	300.0	13.1		mg/L	0.50	0.10	1	NA	5/24/11 15:32	
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.04	1	NA	5/24/11 15:32	
Solids, Total Dissolved	SM 2540 C	1020		mg/L	10	10	1	NA	5/25/11 11:26	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-19B
Lab Code: J1102280-004

Service Request: J1102280
Date Collected: 5/23/11 1125
Date Received: 5/24/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	0.107	mg/L	0.010	0.005	1	NA	5/27/11 10:48	
Chloride	300.0	39.1	mg/L	0.50	0.10	1	NA	5/24/11 15:47	
Nitrate as Nitrogen	300.0	ND U	mg/L	0.20	0.04	1	NA	5/24/11 15:47	
Solids, Total Dissolved	SM 2540 C	93	mg/L	10	10	1	NA	5/25/11 11:26	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-16A
Lab Code: J1102280-005

Service Request: J1102280
Date Collected: 5/23/11 1415
Date Received: 5/24/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	0.252	mg/L	0.010	0.005	1	NA	5/27/11 10:27	
Chloride	300.0	2.49	mg/L	0.50	0.10	1	NA	5/24/11 16:02	
Nitrate as Nitrogen	300.0	ND U	mg/L	0.20	0.04	1	NA	5/24/11 16:02	
Solids, Total Dissolved	SM 2540 C	51	mg/L	10	10	1	NA	5/25/11 11:26	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-16B
Lab Code: J1102280-006

Service Request: J1102280
Date Collected: 5/23/11 1445
Date Received: 5/24/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	0.139		mg/L	0.010	0.005	1	NA	5/27/11 10:32	
Chloride	300.0	4.68		mg/L	0.50	0.10	1	NA	5/24/11 16:47	
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.04	1	NA	5/24/11 16:47	
Solids, Total Dissolved	SM 2540 C	46		mg/L	10	10	1	NA	5/25/11 11:26	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-16C
Lab Code: J1102280-007

Service Request: J1102280
Date Collected: 5/23/11 1345
Date Received: 5/24/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	0.127	mg/L	0.010	0.005	1	NA	5/27/11 10:33	
Chloride	300.0	21.1	mg/L	0.50	0.10	1	NA	5/24/11 17:02	
Nitrate as Nitrogen	300.0	ND U	mg/L	0.20	0.04	1	NA	5/24/11 17:02	
Solids, Total Dissolved	SM 2540 C	81	mg/L	10	10	1	NA	5/25/11 11:26	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: EB-2
Lab Code: J1102280-008

Service Request: J1102280
Date Collected: 5/23/11 1525
Date Received: 5/24/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	ND	U	mg/L	0.010	0.005	1	NA	5/27/11 10:35	
Chloride	300.0	ND	U	mg/L	0.50	0.10	1	NA	5/24/11 17:17	
Nitrate as Nitrogen	300.0	0.21		mg/L	0.20	0.04	1	NA	5/24/11 17:17	
Solids, Total Dissolved	SM 2540 C	ND	U	mg/L	10	10	1	NA	5/25/11 11:26	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Planning Specialists
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1102280-MB

Service Request: J1102280
Date Collected: NA
Date Received: NA

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen	350.1	ND U	mg/L	0.010	0.005	1	NA	5/27/11 10:20	
Chloride	300.0	ND U	mg/L	0.50	0.10	1	NA	5/24/11 13:47	
Nitrate as Nitrogen	300.0	ND U	mg/L	0.20	0.04	1	NA	5/24/11 13:47	
Solids, Total Dissolved	SM 2540 C	ND U	mg/L	10	10	1	NA	5/25/11 11:26	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: J1102280

Surrogate Recovery Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: Percent

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>	<u>Sur4</u>
MW-23A	J1102280-001	92	95	99	101
MW-23B	J1102280-002	89	92	97	106
MW-19A	J1102280-003	88	85	94	101
MW-19B	J1102280-004	92	92	97	101
MW-16A	J1102280-005	94	87	98	104
MW-16B	J1102280-006	91	86	98	105
MW-16C	J1102280-007	89	88	96	103
EB-2	J1102280-008	88	94	93	111
Trip Blank	J1102280-009	89	103	94	100
Method Blank	JQ1102991-01	93	89	96	103
Method Blank	JQ1103050-02	89	101	96	99
Lab Control Sample	JQ1102991-02	97	87	103	99
Lab Control Sample	JQ1103050-01	88	96	95	104

Surrogate Recovery Control Limits(%)

Sur1	= 1,2-Dichloroethane-d4	68 - 118
Sur2	= 4-Bromofluorobenzene	78 - 129
Sur3	= Dibromofluoromethane	80 - 114
Sur4	= Toluene-d8	87 - 118

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: J1102280
 Date Analyzed: 5/31/11

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L

Basis: NA

Analysis Lot: 248104

Lab Control Sample
 JQ1102991-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	22.5	20.0	112	79 - 120
1,1,1-Trichloroethane (TCA)	19.8	20.0	99	78 - 120
1,1,2,2-Tetrachloroethane	22.3	20.0	112	65 - 137
1,1,2-Trichloroethane	20.1	20.0	101	81 - 121
1,1-Dichloroethane (1,1-DCA)	20.5	20.0	103	83 - 119
1,1-Dichloroethene (1,1-DCE)	20.8	20.0	104	79 - 123
1,2,3-Trichloropropane	21.4	20.0	107	71 - 129
1,2-Dibromo-3-chloropropane (DBCP)	19.4	20.0	97	36 - 143
1,2-Dibromoethane (EDB)	21.5	20.0	107	80 - 122
1,2-Dichlorobenzene	19.5	20.0	97	79 - 114
1,2-Dichloroethane	19.6	20.0	98	73 - 120
1,2-Dichloropropane	21.0	20.0	105	86 - 116
1,4-Dichlorobenzene	19.7	20.0	98	77 - 117
2-Butanone (MEK)	107	100	107	38 - 152
2-Hexanone	108	100	108	63 - 131
4-Methyl-2-pentanone (MIBK)	102	100	102	69 - 127
Acetone	107	100	107	45 - 157
Acrylonitrile	112	100	112	56 - 139
Benzene	21.3	20.0	106	83 - 118
Bromochloromethane	22.7	20.0	113	82 - 117
Bromodichloromethane	20.7	20.0	103	77 - 120
Bromoform	21.3	20.0	107	38 - 149
Bromomethane	18.3	20.0	91	78 - 132
Carbon Disulfide	114	100	114	74 - 132
Carbon Tetrachloride	21.6	20.0	108	67 - 129
Chlorobenzene	23.0	20.0	115	83 - 122
Chloroethane	23.2	20.0	116	80 - 129
Chloroform	20.5	20.0	103	81 - 118
Chloromethane	25.4	20.0	127	61 - 138
cis-1,2-Dichloroethene	20.5	20.0	102	74 - 127
cis-1,3-Dichloropropene	20.6	20.0	103	80 - 120
Dibromochloromethane	21.1	20.0	106	71 - 122

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: J1102280
 Date Analyzed: 5/31/11

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L

Basis: NA

Analysis Lot: 248104

Lab Control Sample JQ1102991-02				
Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Dibromomethane	21.5	20.0	108	73 - 125
Ethylbenzene	22.4	20.0	112	82 - 124
Iodomethane	87.5	100	88	78 - 128
m,p-Xylenes	46.4	40.0	116	82 - 125
Methylene Chloride	21.4	20.0	107	70 - 134
o-Xylene	23.3	20.0	116	82 - 122
Styrene	23.9	20.0	120	82 - 123
Tetrachloroethene (PCE)	21.9	20.0	110	77 - 129
Toluene	22.1	20.0	110	82 - 122
trans-1,2-Dichloroethene	21.0	20.0	105	81 - 119
trans-1,3-Dichloropropene	20.5	20.0	102	71 - 124
trans-1,4-Dichloro-2-butene	16.5	20.0	83	10 - 172
Trichloroethene (TCE)	22.3	20.0	111	81 - 120
Trichlorofluoromethane	22.6	20.0	113	72 - 127
Vinyl Acetate	102	100	102	50 - 145
Vinyl Chloride	31.5	20.0	157 *	72 - 133

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: J1102280
 Date Analyzed: 6/2/11

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L

Basis: NA

Analysis Lot: 248513

Lab Control Sample
 JQ1103050-01

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	19.9	20.0	99	79 - 120
1,1,1-Trichloroethane (TCA)	19.3	20.0	96	78 - 120
1,1,2,2-Tetrachloroethane	20.8	20.0	104	65 - 137
1,1,2-Trichloroethane	22.0	20.0	110	81 - 121
1,1-Dichloroethane (1,1-DCA)	20.8	20.0	104	83 - 119
1,1-Dichloroethene (1,1-DCE)	19.8	20.0	99	79 - 123
1,2,3-Trichloropropane	21.8	20.0	109	71 - 129
1,2-Dibromo-3-chloropropane (DBCP)	16.6	20.0	83	36 - 143
1,2-Dibromoethane (EDB)	20.6	20.0	103	80 - 122
1,2-Dichlorobenzene	19.9	20.0	100	79 - 114
1,2-Dichloroethane	18.9	20.0	94	73 - 120
1,2-Dichloropropane	23.2	20.0	116	86 - 116
1,4-Dichlorobenzene	20.8	20.0	104	77 - 117
2-Butanone (MEK)	105	100	105	38 - 152
2-Hexanone	104	100	104	63 - 131
4-Methyl-2-pentanone (MIBK)	106	100	106	69 - 127
Acetone	100	100	100	45 - 157
Acrylonitrile	112	100	112	56 - 139
Benzene	21.6	20.0	108	83 - 118
Bromochloromethane	19.9	20.0	99	82 - 117
Bromodichloromethane	20.1	20.0	100	77 - 120
Bromoform	19.7	20.0	99	38 - 149
Bromomethane	20.8	20.0	104	78 - 132
Carbon Disulfide	104	100	104	74 - 132
Carbon Tetrachloride	17.4	20.0	87	67 - 129
Chlorobenzene	21.5	20.0	107	83 - 122
Chloroethane	20.8	20.0	104	80 - 129
Chloroform	20.4	20.0	102	81 - 118
Chloromethane	22.2	20.0	111	61 - 138
cis-1,2-Dichloroethene	21.9	20.0	110	74 - 127
cis-1,3-Dichloropropene	23.0	20.0	115	80 - 120
Dibromochloromethane	20.1	20.0	100	71 - 122

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: J1102280
Date Analyzed: 6/2/11

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L

Basis: NA

Analysis Lot: 248513

Lab Control Sample
JQ1103050-01

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Dibromomethane	20.4	20.0	102	73 - 125
Ethylbenzene	21.4	20.0	107	82 - 124
Iodomethane	91.6	100	92	78 - 128
m,p-Xylenes	39.5	40.0	99	82 - 125
Methylene Chloride	22.4	20.0	112	70 - 134
o-Xylene	20.6	20.0	103	82 - 122
Styrene	21.8	20.0	109	82 - 123
Tetrachloroethene (PCE)	21.9	20.0	110	77 - 129
Toluene	21.8	20.0	109	82 - 122
trans-1,2-Dichloroethene	20.0	20.0	100	81 - 119
trans-1,3-Dichloropropene	20.4	20.0	102	71 - 124
trans-1,4-Dichloro-2-butene	5.07	20.0	25	10 - 172
Trichloroethene (TCE)	19.5	20.0	97	81 - 120
Trichlorofluoromethane	18.1	20.0	90	72 - 127
Vinyl Acetate	84.4	100	84	50 - 145
Vinyl Chloride	21.0	20.0	105	72 - 133

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: J1102280

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

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
MW-23A	J1102280-001	73 #
MW-23B	J1102280-002	101
MW-19A	J1102280-003	69 #
MW-19B	J1102280-004	110
MW-16A	J1102280-005	109
MW-16B	J1102280-006	108
MW-16C	J1102280-007	110
EB-2	J1102280-008	112
Method Blank	JWG1101266-3	113
Lab Control Sample	JWG1101266-1	106
Duplicate Lab Control Sample	JWG1101266-2	108

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: J1102280
Date Extracted: 05/31/2011
Date Analyzed: 05/31/2011

Lab Control Spike/Duplicate 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: JWG1101266

Analyte Name	Lab Control Sample JWG1101266-1 Lab Control Spike			Duplicate Lab Control Sample JWG1101266-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	0.273	0.250	109	0.265	0.250	106	70-130	3	20
1,2-Dibromo-3-chloropropane (DBCP)	0.245	0.250	98	0.246	0.250	98	70-130	0	20

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: J1102280
 Date Collected: 5/23/11
 Date Received: 5/24/11
 Date Analyzed: 6/ 1/11 -
 6/ 3/11

Matrix Spike Summary
 Inorganic Parameters

Sample Name: MW-23A
 Lab Code: J1102280-001

Units: µg/L
 Basis: NA

Analyte Name	Method	Sample Result	MW-23AMS Matrix Spike J1102280-001MS1			MW-23ADMS Duplicate Matrix Spike J1102280-001DMS1			% Rec Limits	RPD	RPD Limit
			Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Antimony, Dissolved	6020	ND	51.9	50.0	104	51.6	50.0	103	75 - 125	<1	20
Arsenic, Dissolved	6020	1.22	52.1	50.0	102	52.6	50.0	103	75 - 125	1	20
Barium, Dissolved	6020	8.7	58.7	50.0	100	58.5	50.0	99	75 - 125	<1	20
Beryllium, Dissolved	6020	ND	52.5	50.0	105	51.5	50.0	103	75 - 125	2	20
Cadmium, Dissolved	6020	ND	52.1	50.0	104	51.9	50.0	104	75 - 125	<1	20
Chromium, Dissolved	6020	2.6	49.0	50.0	93	48.8	50.0	92	75 - 125	<1	20
Cobalt, Dissolved	6020	0.4	49.4	50.0	98	48.8	50.0	97	75 - 125	1	20
Copper, Dissolved	6020	ND	47.8	50.0	96	48.1	50.0	96	75 - 125	<1	20
Lead, Dissolved	6020	0.1	50.7	50.0	101	51.3	50.0	102	75 - 125	1	20
Mercury, Dissolved	7470A	ND	5.07	5.00	101	5.07	5.00	101	75 - 125	<1	20
Nickel, Dissolved	6020	1.8	48.6	50.0	94	48.8	50.0	94	75 - 125	<1	20
Selenium, Dissolved	6020	ND	36.3	50.0	73 *	35.7	50.0	71 *	75 - 125	2	20
Silver, Dissolved	6020	ND	48.1	50.0	96	47.7	50.0	95	75 - 125	<1	20
Thallium, Dissolved	6020	0.2	47.3	50.0	94	50.2	50.0	100	75 - 125	6	20
Vanadium, Dissolved	6020	5.0	52.7	50.0	95	51.5	50.0	93	75 - 125	2	20
Zinc, Dissolved	6020	1	103	100	102	102	100	101	75 - 125	1	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: J1102280
Date Collected: 5/23/11
Date Received: 5/24/11
Date Analyzed: 6/1/11

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-16A
Lab Code: J1102280-005

Units: µg/L
Basis: NA

Analytical Method: 7470A
Prep Method: Method

Analyte Name	Sample Result	MW-16AMS Matrix Spike J1102280-005MS2			MW-16ADMS Duplicate Matrix Spike J1102280-005DMS2			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Mercury, Total	ND	5.25	5.00	105	5.20	5.00	104	75 - 125	<1	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: J1102280
 Date Analyzed: 6/ 1/11 -
 6/ 3/11

Lab Control Sample Summary
 Inorganic Parameters

Units: µg/L
 Basis: NA

Lab Control Sample J1102280-LCS					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Antimony, Dissolved	6020	53.3	50.0	107	80 - 120
Antimony, Total Recoverable	6020	53.3	50.0	107	80 - 120
Arsenic, Dissolved	6020	52.8	50.0	106	80 - 120
Arsenic, Total Recoverable	6020	53.8	50.0	108	80 - 120
Barium, Dissolved	6020	50.8	50.0	102	80 - 120
Barium, Total Recoverable	6020	50.3	50.0	101	80 - 120
Beryllium, Dissolved	6020	53.7	50.0	107	80 - 120
Beryllium, Total Recoverable	6020	52.8	50.0	106	80 - 120
Cadmium, Dissolved	6020	52.8	50.0	106	80 - 120
Cadmium, Total Recoverable	6020	52.9	50.0	106	80 - 120
Chromium, Dissolved	6020	47.7	50.0	95	80 - 120
Chromium, Total Recoverable	6020	49.5	50.0	99	80 - 120
Cobalt, Dissolved	6020	50.0	50.0	100	80 - 120
Cobalt, Total Recoverable	6020	52.1	50.0	104	80 - 120
Copper, Dissolved	6020	50.1	50.0	100	80 - 120
Copper, Total Recoverable	6020	51.6	50.0	103	80 - 120
Iron, Dissolved	6010B	5270	5000	105	85 - 115
Iron, Total Recoverable	6010B	5130	5000	103	85 - 115
Lead, Dissolved	6020	50.3	50.0	101	80 - 120
Lead, Total Recoverable	6020	50.3	50.0	101	80 - 120
Mercury, Dissolved	7470A	4.97	5.00	99	80 - 120
Mercury, Total	7470A	5.10	5.00	102	80 - 120
Nickel, Dissolved	6020	50.9	50.0	102	80 - 120
Nickel, Total Recoverable	6020	50.4	50.0	101	80 - 120
Selenium, Dissolved	6020	53.6	50.0	107	80 - 120
Selenium, Total Recoverable	6020	55.0	50.0	110	80 - 120
Silver, Dissolved	6020	50.5	50.0	101	80 - 120
Silver, Total Recoverable	6020	50.0	50.0	100	80 - 120
Thallium, Dissolved	6020	47.2	50.0	94	80 - 120
Thallium, Total Recoverable	6020	46.5	50.0	93	80 - 120
Vanadium, Dissolved	6020	49.1	50.0	98	80 - 120
Vanadium, Total Recoverable	6020	49.8	50.0	100	80 - 120
Zinc, Dissolved	6020	107	100	107	80 - 120
Zinc, Total Recoverable	6020	107	100	107	80 - 120

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: J1102280
Date Analyzed: 6/ 1/11 -
6/ 3/11

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L**Basis:** NA

Lab Control Sample
J1102280-LCS

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Sodium, Dissolved	6010B	26.8	25.0	107	90 - 114
Sodium, Total Recoverable	6010B	26.4	25.0	106	90 - 114

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: J1102280
Date Collected: 5/23/11
Date Received: 5/24/11
Date Analyzed: 5/27/11

Matrix Spike Summary
General Chemistry Parameters

Sample Name: MW-16C
Lab Code: J1102280-007

Units: mg/L
Basis: NA

Analytical Method: 350.1

MW-16CMS					
Matrix Spike					
J1102280-007MS					
Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	0.127	1.12	1.00	99	90 - 110

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: J1102280
Date Collected: 5/23/11
Date Received: 5/24/11
Date Analyzed: 5/25/11

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-19B
Lab Code: J1102280-004

Units: mg/L
Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	MW-19BDUP Duplicate Sample		RPD	RPD Limit
					J1102280-004DUP1 Result	Average		
Solids, Total Dissolved	SM 2540 C	10	10	93	99	96.0	6	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: J1102280
Date Collected: 5/23/11
Date Received: 5/24/11
Date Analyzed: 5/27/11

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-16C
Lab Code: J1102280-007

Units: mg/L
Basis: NA

					MW-16CDUP Duplicate Sample J1102280-007DUP2			
Analyte Name	Method	MRL	MDL	Sample Result	Result	Average	RPD	RPD Limit
Ammonia as Nitrogen	350.1	0.010	0.005	0.127	0.127	0.127	<1	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: J1102280
Date Analyzed: 5/24/11 -
5/27/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample					
J1102280-LCS					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	350.1	0.988	1.00	99	90 - 110
Chloride	300.0	51.9	50.0	104	90 - 110
Nitrate as Nitrogen	300.0	4.93	5.00	99	90 - 110
Solids, Total Dissolved	SM 2540 C	299	300	100	85 - 115

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.

Cooler Receipt Form

Client: EPS

Service Request #: 51102280

Project: SED SWDF

Cooler received on 5/24/11

and opened on 5/24/11 by SL

COURIER: CAS UPS FEDEX Client Other _____ Airbill # 1ZX5W 0982210003864

- | | | | |
|----|---|--------------------------------------|--------------------------------|
| 1 | Were custody seals on outside of cooler? | ☒ Yes | ☐ No |
| | If yes, how many and where? | #: <u>1</u> 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) | <u>4.6</u> | |
| 5 | Thermometer ID | <u>763</u> | |
| 6 | Temperature Blank Present? | ☒ Yes | ☐ No |
| 7 | Were Ice or Ice Packs present | ☒ Ice | Ice Packs No |
| 8 | Did all bottles arrive in good condition (unbroken, etc....)? | ☒ Yes | ☐ No N/A |
| 9 | Type of packing material present | Netting | Vial Holder <u>Bubble Wrap</u> |
| | | Paper | Styrofoam Other N/A |
| 10 | Were all bottle labels complete (sample ID, preservation, etc....)? | ☒ Yes | ☐ No N/A |
| 11 | Did all bottle labels and tags agree with custody papers? | ☒ Yes | ☐ No N/A |
| 12 | Were the correct bottles used for the tests indicated? | ☒ Yes | ☐ No N/A |
| 13 | Were all of the preserved bottles received with the appropriate preservative? | ☒ Yes | ☐ No N/A |
| | HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2 | | |
| | Preservative additions noted below | | |
| 14 | Were all samples received within analysis holding times? | ☒ Yes | ☐ No N/A |
| 15 | Were all VOA vials free of air bubbles? If present, note below | ☒ Yes | ☐ No N/A |
| 16 | Where did the bottles originate? | ☒ CAS | Client |

Sample ID	Reagent	Lot #	ml added	Initials Date/Time

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

Client approval to run samples if discrepancies noted:

Date: 71

Date: 5/24/11

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.

72

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

SR #

57102280

CAS Contact

Project Name JED SWIFE		Project Number		ANALYSIS REQUESTED (Include Method Number and Concentration)										REMARKS/ ALTERNATE DESCRIPTION			
Project Manager Kirk Wills		Email Address kwillse@uplanet.com		PRESERVATIVE		1		0		2		3		0		2	
Company Address EPS				NUMBER OF CONTAINERS		8260		Boil		Metals		NH ₄		TDS, Cl, NO ₃		Dissolved Metals	
1936 Bruce B Downs Blvd #328																	
Wesley Chapel, FL 33543																	
Phone #		813-388-1026															
Sampler's Signature <i>Joe Terry</i>		Sampler's Printed Name Joe Terry															
CLIENT SAMPLE ID		LAB ID		SAMPLING DATE		TIME		MATRIX									
MW-23A				5-23-11		1030		GW		3		1		1		1	
MW-23B				0855						9							
MW-19A				1150						10							
MW-19B				1125						9							
MW-16A				1415						9							
MW-16B				1445						9							
MW-16C				1345				GW		9		3		1		1	
EB-2				5-23-11		1525		H ₂ O		9		3		1		1	
T.C.P Blk				5-12-11		1000		H ₂ O		2		2					
SPECIAL INSTRUCTIONS/COMMENTS																	
Cooler ID: 11143-IED																	
See QAPP ☐																	
TURNAROUND REQUIREMENTS																	
RUSH (SURCHARGES APPLY)																	
STANDARD																	
REQUESTED FAX DATE																	
REQUESTED REPORT DATE																	
REPORT REQUIREMENTS																	
I. Results Only																	
II. Results + QC Summaries (LCS, DUP, MS/MSD as required)																	
III. Results + QC and Calibration Summaries																	
IV. Data Validation Report with Raw Data																	
V. Specialized Forms / Custom Report																	
Edata Yes No																	
INVOICE INFORMATION																	
PO#																	
BILL TO:																	
RECEIVED BY																	
RELINQUISHED BY																	
Signature																	
Printed Name																	
Firm																	
Date/Time																	
CUSTODY SEALS: Y N																	
RECEIVED BY																	
RELINQUISHED BY																	
Signature																	
Printed Name																	
Firm																	
Date/Time																	
SAMPLE RECEIPT: CONDITION/COOLER TEMP:																	
73																	
Signature																	
Printed Name																	
Firm																	
Date/Time																	
5-23-11/1600																	