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Columbia Analytical Services INC.
An Employee - Owned Company

June 15, 2009 Service Request No: J0902610

Kirk Wills
GeoSyntec Consultants
14055 Riveredge Drive
Suite 300
Tampa, FL 33637

Laboratory Results for: JED SWDF/FQ1512A

Dear Kirk:

Enclosed are the results of the sample(s) submitted to our laboratory on May 29, 2009. For your reference, these analyses have been assigned our service request number **J0902610**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. In accordance to the NELAC 2003 Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

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

Respectfully submitted,

Columbia Analytical Services, Inc.

Craig Myers
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502 valid through 6/30/09. Other state accreditations include: Georgia, #958 valid through 6/30/09; Louisiana, #02086 valid through 6/30/09; Texas, #T104704197-06-TX valid through 5/31/09; North Carolina, #527 valid through 12/31/09; South Carolina, #96021001 valid through 6/30/09.

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	GeoSyntec Consultants	**Service Request No.:**	J0902610
Project:	JED SWDF	**Date Received:**	5/29/09
Sample Matrix:	Water		

CASE NARRATIVE

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

Sample Receipt

Two water samples and one trip blank were received for analysis at Columbia Analytical Services on 5/29/09. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

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

Lab Control Sample Exceptions

The spike recovery of Chloroethane for Laboratory Control Sample (LCS) JWG0901865-3 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.

Batch QC Notes and Discussion

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

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.

Lab Control Sample Exceptions

The spike recoveries of 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane for Laboratory Control Sample (LCS) JWG0901867-1 and Duplicate laboratory Control Sample (DLCS) JWG0901867-2 were outside the upper control criteria. The analytes in question were not detected in the associated field samples. The error associated with elevated recovery equates to high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Approved by _____ **Date** 6/15/09

Metals by ICP-MS/ICP-OES/CVAA

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

Batch QC Notes and Discussion

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

General Chemistry Parameters

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

Batch QC Notes and Discussion

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

Approved by _____ **Date** 6/15/09

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: GeoSyntec Consultants
Project: JED SWDF/FQ1512A

Service Request: J0902610

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J0902610-001	SW-3	5/29/09	09:00
J0902610-002	SW-4	5/29/09	09:40
J0902610-003	Trip Blank	5/29/09	00:00

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902610
Date Collected: 05/29/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: SW-3
Lab Code: J0902610-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/02/09	06/02/09	JWG0901865	
Vinyl Chloride	ND	U	1.0	0.25	1	06/02/09	06/02/09	JWG0901865	
Bromomethane	ND	U	1.0	0.14	1	06/02/09	06/02/09	JWG0901865	
Chloroethane	ND	UJ	5.0	0.19	1	06/02/09	06/02/09	JWG0901865	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/02/09	06/02/09	JWG0901865	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/02/09	06/02/09	JWG0901865	
Acetone	ND	U	50	2.4	1	06/02/09	06/02/09	JWG0901865	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/02/09	06/02/09	JWG0901865	
Carbon Disulfide	ND	U	10	0.84	1	06/02/09	06/02/09	JWG0901865	
Methylene Chloride	ND	U	5.0	0.72	1	06/02/09	06/02/09	JWG0901865	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/02/09	06/02/09	JWG0901865	
Acrylonitrile	ND	U	10	0.59	1	06/02/09	06/02/09	JWG0901865	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/02/09	06/02/09	JWG0901865	
Vinyl Acetate	ND	U	10	0.60	1	06/02/09	06/02/09	JWG0901865	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/02/09	06/02/09	JWG0901865	
2-Butanone (MEK)	ND	U	10	0.56	1	06/02/09	06/02/09	JWG0901865	
Bromochloromethane	ND	U	5.0	0.14	1	06/02/09	06/02/09	JWG0901865	
Chloroform	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901865	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/02/09	06/02/09	JWG0901865	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/02/09	06/02/09	JWG0901865	
Benzene	ND	U	1.0	0.52	1	06/02/09	06/02/09	JWG0901865	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901865	
Trichloroethene (TCE)	**0.54**	I	1.0	0.15	1	06/02/09	06/02/09	JWG0901865	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/02/09	06/02/09	JWG0901865	
Dibromomethane	ND	U	5.0	0.12	1	06/02/09	06/02/09	JWG0901865	
Bromodichloromethane	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901865	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/02/09	06/02/09	JWG0901865	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/02/09	06/02/09	JWG0901865	
Toluene	ND	U	1.0	0.52	1	06/02/09	06/02/09	JWG0901865	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/02/09	06/02/09	JWG0901865	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/02/09	06/02/09	JWG0901865	
Tetrachloroethene (PCE)	**2.6**		1.0	0.22	1	06/02/09	06/02/09	JWG0901865	
2-Hexanone	ND	U	25	0.36	1	06/02/09	06/02/09	JWG0901865	
Dibromochloromethane	ND	U	1.0	0.11	1	06/02/09	06/02/09	JWG0901865	

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	J0902610
Project:	JED SWDF/FQ1512A	**Date Collected:**	05/29/2009
Sample Matrix:	Water	**Date Received:**	05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	SW-3	**Units:**	ug/L
Lab Code:	J0902610-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/02/09	06/02/09	JWG0901865	
Chlorobenzene	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901865	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901865	
Ethylbenzene	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901865	
m,p-Xylenes	ND	U	2.0	0.22	1	06/02/09	06/02/09	JWG0901865	
o-Xylene	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901865	
Styrene	ND	U	1.0	0.051	1	06/02/09	06/02/09	JWG0901865	
Bromoform	ND	U	2.0	0.12	1	06/02/09	06/02/09	JWG0901865	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901865	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/02/09	06/02/09	JWG0901865	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/02/09	06/02/09	JWG0901865	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/02/09	06/02/09	JWG0901865	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/02/09	06/02/09	JWG0901865	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/02/09	06/02/09	JWG0901865	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	76	71-122	06/02/09	Acceptable
4-Bromofluorobenzene	91	75-120	06/02/09	Acceptable
Dibromofluoromethane	83	82-116	06/02/09	Acceptable
Toluene-d8	92	88-117	06/02/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902610
Project:	JED SWDF/FQ1512A	**Date Collected:**	05/29/2009
Sample Matrix:	Water	**Date Received:**	05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	SW-4	**Units:**	ug/L
Lab Code:	J0902610-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/02/09	06/02/09	JWG0901865	
Vinyl Chloride	ND	U	1.0	0.25	1	06/02/09	06/02/09	JWG0901865	
Bromomethane	ND	U	1.0	0.14	1	06/02/09	06/02/09	JWG0901865	
Chloroethane	ND	UJ	5.0	0.19	1	06/02/09	06/02/09	JWG0901865	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/02/09	06/02/09	JWG0901865	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/02/09	06/02/09	JWG0901865	
Acetone	ND	U	50	2.4	1	06/02/09	06/02/09	JWG0901865	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/02/09	06/02/09	JWG0901865	
Carbon Disulfide	ND	U	10	0.84	1	06/02/09	06/02/09	JWG0901865	
Methylene Chloride	ND	U	5.0	0.72	1	06/02/09	06/02/09	JWG0901865	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/02/09	06/02/09	JWG0901865	
Acrylonitrile	ND	U	10	0.59	1	06/02/09	06/02/09	JWG0901865	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/02/09	06/02/09	JWG0901865	
Vinyl Acetate	ND	U	10	0.60	1	06/02/09	06/02/09	JWG0901865	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/02/09	06/02/09	JWG0901865	
2-Butanone (MEK)	ND	U	10	0.56	1	06/02/09	06/02/09	JWG0901865	
Bromochloromethane	ND	U	5.0	0.14	1	06/02/09	06/02/09	JWG0901865	
Chloroform	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901865	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/02/09	06/02/09	JWG0901865	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/02/09	06/02/09	JWG0901865	
Benzene	ND	U	1.0	0.52	1	06/02/09	06/02/09	JWG0901865	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901865	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901865	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/02/09	06/02/09	JWG0901865	
Dibromomethane	ND	U	5.0	0.12	1	06/02/09	06/02/09	JWG0901865	
Bromodichloromethane	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901865	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/02/09	06/02/09	JWG0901865	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/02/09	06/02/09	JWG0901865	
Toluene	ND	U	1.0	0.52	1	06/02/09	06/02/09	JWG0901865	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/02/09	06/02/09	JWG0901865	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/02/09	06/02/09	JWG0901865	
Tetrachloroethene (PCE)	**0.44**	I	1.0	0.22	1	06/02/09	06/02/09	JWG0901865	
2-Hexanone	ND	U	25	0.36	1	06/02/09	06/02/09	JWG0901865	
Dibromochloromethane	ND	U	1.0	0.11	1	06/02/09	06/02/09	JWG0901865	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902610
Date Collected: 05/29/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: SW-4
Lab Code: J0902610-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/02/09	06/02/09	JWG0901865	
Chlorobenzene	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901865	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901865	
Ethylbenzene	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901865	
m,p-Xylenes	ND	U	2.0	0.22	1	06/02/09	06/02/09	JWG0901865	
o-Xylene	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901865	
Styrene	ND	U	1.0	0.051	1	06/02/09	06/02/09	JWG0901865	
Bromoform	ND	U	2.0	0.12	1	06/02/09	06/02/09	JWG0901865	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901865	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/02/09	06/02/09	JWG0901865	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/02/09	06/02/09	JWG0901865	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/02/09	06/02/09	JWG0901865	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/02/09	06/02/09	JWG0901865	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/02/09	06/02/09	JWG0901865	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	79	71-122	06/02/09	Acceptable
4-Bromofluorobenzene	94	75-120	06/02/09	Acceptable
Dibromofluoromethane	83	82-116	06/02/09	Acceptable
Toluene-d8	88	88-117	06/02/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902610
Date Collected: 05/29/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J0902610-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/02/09	06/02/09	JWG0901865	
Vinyl Chloride	ND	U	1.0	0.25	1	06/02/09	06/02/09	JWG0901865	
Bromomethane	ND	U	1.0	0.14	1	06/02/09	06/02/09	JWG0901865	
Chloroethane	ND	UJ	5.0	0.19	1	06/02/09	06/02/09	JWG0901865	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/02/09	06/02/09	JWG0901865	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/02/09	06/02/09	JWG0901865	
Acetone	ND	U	50	2.4	1	06/02/09	06/02/09	JWG0901865	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/02/09	06/02/09	JWG0901865	
Carbon Disulfide	ND	U	10	0.84	1	06/02/09	06/02/09	JWG0901865	
Methylene Chloride	ND	U	5.0	0.72	1	06/02/09	06/02/09	JWG0901865	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/02/09	06/02/09	JWG0901865	
Acrylonitrile	ND	U	10	0.59	1	06/02/09	06/02/09	JWG0901865	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/02/09	06/02/09	JWG0901865	
Vinyl Acetate	ND	U	10	0.60	1	06/02/09	06/02/09	JWG0901865	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/02/09	06/02/09	JWG0901865	
2-Butanone (MEK)	ND	U	10	0.56	1	06/02/09	06/02/09	JWG0901865	
Bromochloromethane	ND	U	5.0	0.14	1	06/02/09	06/02/09	JWG0901865	
Chloroform	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901865	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/02/09	06/02/09	JWG0901865	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/02/09	06/02/09	JWG0901865	
Benzene	ND	U	1.0	0.52	1	06/02/09	06/02/09	JWG0901865	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901865	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901865	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/02/09	06/02/09	JWG0901865	
Dibromomethane	ND	U	5.0	0.12	1	06/02/09	06/02/09	JWG0901865	
Bromodichloromethane	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901865	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/02/09	06/02/09	JWG0901865	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/02/09	06/02/09	JWG0901865	
Toluene	ND	U	1.0	0.52	1	06/02/09	06/02/09	JWG0901865	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/02/09	06/02/09	JWG0901865	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/02/09	06/02/09	JWG0901865	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/02/09	06/02/09	JWG0901865	
2-Hexanone	ND	U	25	0.36	1	06/02/09	06/02/09	JWG0901865	
Dibromochloromethane	ND	U	1.0	0.11	1	06/02/09	06/02/09	JWG0901865	

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	J0902610
Project:	JED SWDF/FQ1512A	**Date Collected:**	05/29/2009
Sample Matrix:	Water	**Date Received:**	05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	J0902610-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/02/09	06/02/09	JWG0901865	
Chlorobenzene	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901865	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901865	
Ethylbenzene	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901865	
m,p-Xylenes	ND	U	2.0	0.22	1	06/02/09	06/02/09	JWG0901865	
o-Xylene	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901865	
Styrene	ND	U	1.0	0.051	1	06/02/09	06/02/09	JWG0901865	
Bromoform	ND	U	2.0	0.12	1	06/02/09	06/02/09	JWG0901865	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901865	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/02/09	06/02/09	JWG0901865	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/02/09	06/02/09	JWG0901865	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/02/09	06/02/09	JWG0901865	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/02/09	06/02/09	JWG0901865	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/02/09	06/02/09	JWG0901865	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	82	71-122	06/02/09	Acceptable
4-Bromofluorobenzene	89	75-120	06/02/09	Acceptable
Dibromofluoromethane	86	82-116	06/02/09	Acceptable
Toluene-d8	90	88-117	06/02/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902610
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0901865-4

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/01/09	06/01/09	JWG0901865	
Vinyl Chloride	ND	U	1.0	0.25	1	06/01/09	06/01/09	JWG0901865	
Bromomethane	ND	U	1.0	0.14	1	06/01/09	06/01/09	JWG0901865	
Chloroethane	ND	UJ	5.0	0.19	1	06/01/09	06/01/09	JWG0901865	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/01/09	06/01/09	JWG0901865	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/01/09	06/01/09	JWG0901865	
Acetone	ND	U	50	2.4	1	06/01/09	06/01/09	JWG0901865	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/01/09	06/01/09	JWG0901865	
Carbon Disulfide	ND	U	10	0.84	1	06/01/09	06/01/09	JWG0901865	
Methylene Chloride	ND	U	5.0	0.72	1	06/01/09	06/01/09	JWG0901865	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/01/09	06/01/09	JWG0901865	
Acrylonitrile	ND	U	10	0.59	1	06/01/09	06/01/09	JWG0901865	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/01/09	06/01/09	JWG0901865	
Vinyl Acetate	ND	U	10	0.60	1	06/01/09	06/01/09	JWG0901865	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/01/09	06/01/09	JWG0901865	
2-Butanone (MEK)	ND	U	10	0.56	1	06/01/09	06/01/09	JWG0901865	
Bromochloromethane	ND	U	5.0	0.14	1	06/01/09	06/01/09	JWG0901865	
Chloroform	ND	U	1.0	0.10	1	06/01/09	06/01/09	JWG0901865	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/01/09	06/01/09	JWG0901865	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/01/09	06/01/09	JWG0901865	
Benzene	ND	U	1.0	0.52	1	06/01/09	06/01/09	JWG0901865	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/01/09	06/01/09	JWG0901865	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/01/09	06/01/09	JWG0901865	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/01/09	06/01/09	JWG0901865	
Dibromomethane	ND	U	5.0	0.12	1	06/01/09	06/01/09	JWG0901865	
Bromodichloromethane	ND	U	1.0	0.10	1	06/01/09	06/01/09	JWG0901865	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/01/09	06/01/09	JWG0901865	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/01/09	06/01/09	JWG0901865	
Toluene	ND	U	1.0	0.52	1	06/01/09	06/01/09	JWG0901865	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/01/09	06/01/09	JWG0901865	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/01/09	06/01/09	JWG0901865	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/01/09	06/01/09	JWG0901865	
2-Hexanone	ND	U	25	0.36	1	06/01/09	06/01/09	JWG0901865	
Dibromochloromethane	ND	U	1.0	0.11	1	06/01/09	06/01/09	JWG0901865	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902610
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0901865-4

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/01/09	06/01/09	JWG0901865	
Chlorobenzene	ND	U	1.0	0.15	1	06/01/09	06/01/09	JWG0901865	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/01/09	06/01/09	JWG0901865	
Ethylbenzene	ND	U	1.0	0.10	1	06/01/09	06/01/09	JWG0901865	
m,p-Xylenes	ND	U	2.0	0.22	1	06/01/09	06/01/09	JWG0901865	
o-Xylene	ND	U	1.0	0.10	1	06/01/09	06/01/09	JWG0901865	
Styrene	ND	U	1.0	0.051	1	06/01/09	06/01/09	JWG0901865	
Bromoform	ND	U	2.0	0.12	1	06/01/09	06/01/09	JWG0901865	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/01/09	06/01/09	JWG0901865	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/01/09	06/01/09	JWG0901865	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/01/09	06/01/09	JWG0901865	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/01/09	06/01/09	JWG0901865	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/01/09	06/01/09	JWG0901865	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/01/09	06/01/09	JWG0901865	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	80	71-122	06/01/09	Acceptable
4-Bromofluorobenzene	95	75-120	06/01/09	Acceptable
Dibromofluoromethane	85	82-116	06/01/09	Acceptable
Toluene-d8	92	88-117	06/01/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902610
Date Collected: 05/29/2009
Date Received: 05/29/2009

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

Sample Name: SW-3
Lab Code: J0902610-001

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/01/09	06/05/09	JWG0901851	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/05/09	JWG0901851	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	125	77-150	06/05/09	Acceptable

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	J0902610
Project:	JED SWDF/FQ1512A	**Date Collected:**	05/29/2009
Sample Matrix:	Water	**Date Received:**	05/29/2009

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

Sample Name:	SW-4	**Units:**	ug/L
Lab Code:	J0902610-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/01/09	06/05/09	JWG0901851	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/05/09	JWG0901851	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	122	77-150	06/05/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902610
Project:	JED SWDF/FQ1512A	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

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

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG0901851-3	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/01/09	06/03/09	JWG0901851	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/03/09	JWG0901851	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	144	77-150	06/03/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902610
Project:	JED SWDF/FQ1512A	**Date Collected:**	5/29/09 0900
Sample Matrix:	Water	**Date Received:**	5/29/09
Sample Name:	SW-3		
Lab Code:	J0902610-001	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 1/09	6/4/09 11:30
Arsenic, Total	6020	**1.40**		µg/L	0.50	0.20	1	6/ 1/09	6/4/09 11:30
Barium, Total	6020	**14.1**		µg/L	2.0	0.5	1	6/ 1/09	6/4/09 11:30
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/10/09 14:35
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 1/09	6/4/09 11:30
Chromium, Total	6020	**1.3**	I	µg/L	2.0	0.8	1	6/ 1/09	6/4/09 11:30
Cobalt, Total	6020	**0.3**	I	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 11:30
Copper, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	6/ 1/09	6/4/09 11:30
Iron, Total	6010B	**1060**		µg/L	50	4	1	6/ 2/09	6/3/09 12:53
Lead, Total	6020	**0.4**	I	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 11:30
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/1/09 17:53
Nickel, Total	6020	**1.1**	I	µg/L	2.0	0.3	1	6/ 1/09	6/4/09 11:30
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 1/09	6/4/09 11:30
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/4/09 11:30
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 11:30
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	6/ 1/09	6/4/09 11:30
Zinc, Total	6020	**7**	I	µg/L	10	4	1	6/ 1/09	6/4/09 11:30

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902610
Date Collected: 5/29/09 0940
Date Received: 5/29/09

Sample Name: SW-4
Lab Code: J0902610-002

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 1/09	6/4/09 11:35
Arsenic, Total	6020	**1.27**		µg/L	0.50	0.20	1	6/ 1/09	6/4/09 11:35
Barium, Total	6020	**12.7**		µg/L	2.0	0.5	1	6/ 1/09	6/4/09 11:35
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/10/09 14:40
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 1/09	6/4/09 11:35
Chromium, Total	6020	**1.6**	I	µg/L	2.0	0.8	1	6/ 1/09	6/4/09 11:35
Cobalt, Total	6020	**0.2**	I	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 11:35
Copper, Total	6020	**0.7**	I	µg/L	2.0	0.3	1	6/ 1/09	6/4/09 11:35
Iron, Total	6010B	**947**		µg/L	50	4	1	6/ 2/09	6/3/09 12:57
Lead, Total	6020	**0.5**	I	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 11:35
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/1/09 17:55
Nickel, Total	6020	**1.1**	I	µg/L	2.0	0.3	1	6/ 1/09	6/4/09 11:35
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 1/09	6/4/09 11:35
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/4/09 11:35
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 11:35
Vanadium, Total	6020	**1.4**	I	µg/L	5.0	1.2	1	6/ 1/09	6/4/09 11:35
Zinc, Total	6020	**7**	I	µg/L	10	4	1	6/ 1/09	6/4/09 11:35

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902610
Project:	JED SWDF/FQ1512A	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	J0902610-MB	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 1/09	6/4/09 09:14
Arsenic, Total	6020	ND	U	µg/L	0.50	0.20	1	6/ 1/09	6/4/09 09:14
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	6/ 1/09	6/4/09 09:14
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 09:14
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 1/09	6/4/09 09:14
Chromium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 1/09	6/4/09 09:14
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 09:14
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 1/09	6/4/09 09:14
Iron, Total	6010B	ND	U	µg/L	50	4	1	6/ 2/09	6/3/09 12:47
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 09:14
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/1/09 17:18
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 1/09	6/4/09 09:14
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 1/09	6/4/09 09:14
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/4/09 09:14
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 09:14
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	6/ 1/09	6/4/09 09:14
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 1/09	6/4/09 09:14

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902610
Project:	JED SWDF/FQ1512A	**Date Collected:**	5/29/2009
Sample Matrix:	Water	**Date Received:**	5/29/2009

Hardness, Total

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

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
SW-3	J0902610-001	1.7	0.08	1	6/2/2009	6/3/2009	22.4	
SW-4	J0902610-002	1.7	0.08	1	6/2/2009	6/3/2009	21.3	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902610
Date Collected : 05/29/09
Date Received : 05/29/09

Inorganic Parameters

Sample Name : SW-3
Lab Code : J0902610-001
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as N, Unionized	mg/L (ppm)	FDEP	0.05	0.025	1	06/10/09 15:58	U	
Biochemical Oxygen Demand (BOD)	mg/L (ppm)	405.1	4	0.86	1	05/29/09 13:00	11	
Carbon, Total Organic	mg/L (ppm)	415.1	1	0.5	1	06/11/09 09:45	34	
Chemical Oxygen Demand	mg/L (ppm)	410.2	10	3	2	06/09/09 15:00	160	
Chlorophyll a (Monochromatic)	mg/m3	SM 10200 H	1	1	1	06/02/09 17:00	3.3	
Coliform, Fecal	CFU/100mL	SM 9222D	2	2	2	05/29/09 14:50	48	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/30/09 01:33	U	
Nitrogen, Total as Nitrogen	mg/L (ppm)	300.0 + 351.2	0.5	0.095	1	06/10/09 16:02	1.6	
Phosphorus, Total	mg/L (ppm)	365.1	0.01	0.005	1	06/05/09 14:27	0.16	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/04/09 15:15	130	
Solids, Total Suspended (TSS)	mg/L (ppm)	160.2	5	1.4	1	06/05/09 10:20	U	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902610
Date Collected : 05/29/09
Date Received : 05/29/09

Inorganic Parameters

Sample Name : SW-4
Lab Code : J0902610-002
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as N, Unionized	mg/L (ppm)	FDEP	0.05	0.025	1	06/10/09 15:58	U	
Biochemical Oxygen Demand (BOD)	mg/L (ppm)	405.1	4	0.86	1	05/29/09 13:00	1.0	i
Carbon, Total Organic	mg/L (ppm)	415.1	1	0.5	1	06/11/09 09:45	25	
Chemical Oxygen Demand	mg/L (ppm)	410.2	5	1.5	1	06/09/09 15:00	94	
Chlorophyll a (Monochromatic)	mg/m3	SM 10200 H	1.5	1.5	1.5	06/02/09 17:00	3.7	
Coliform, Fecal	CFU/100mL	SM 9222D	10	10	10	05/29/09 14:50	600	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/30/09 04:18	0.16	i
Nitrogen, Total as Nitrogen	mg/L (ppm)	300.0 + 351.2	0.5	0.095	1	06/10/09 16:02	1.5	
Phosphorus, Total	mg/L (ppm)	365.1	0.01	0.005	1	06/05/09 14:27	0.16	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/04/09 15:15	97	
Solids, Total Suspended (TSS)	mg/L (ppm)	160.2	5	1.4	1	06/05/09 10:20	2.5	i

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902610
Date Collected : NA
Date Received : NA

Inorganic Parameters

Sample Name : Method Blank
Lab Code : J0902610-MB
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as N, Unionized	mg/L (ppm)	FDEP	0.05	0.025	1	06/10/09 15:58	U	
Biochemical Oxygen Demand (BOD)	mg/L (ppm)	405.1	4	0.86	1	05/29/09 08:20	U	
Carbon, Total Organic	mg/L (ppm)	415.1	1	0.5	1	06/11/09 09:45	U	
Chemical Oxygen Demand	mg/L (ppm)	410.2	5	1.5	1	06/09/09 15:00	U	
Chlorophyll a (Monochromatic)	mg/m3	SM 10200 H	1	1	1	06/02/09 17:00	U	
Coliform, Fecal	CFU/100mL	SM 9222D	1	1	1	05/29/09 14:50	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/29/09 18:15	U	
Nitrogen, Total as Nitrogen	mg/L (ppm)	300.0 + 351.2	0.5	0.095	1	06/10/09 16:02	U	
Phosphorus, Total	mg/L (ppm)	365.1	0.01	0.005	1	06/05/09 14:27	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	5	1	06/04/09 15:15	U	
Solids, Total Suspended (TSS)	mg/L (ppm)	160.2	5	1.4	1	06/05/09 10:20	U	

Report By: Palimi

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902610

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

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
SW-3	J0902610-001	76	91	83	92
SW-4	J0902610-002	79	94	83	88
Trip Blank	J0902610-003	82	89	86	90
Method Blank	JWG0901865-4	80	95	85	92
Lab Control Sample	JWG0901865-3	76	95	87	90

Surrogate Recovery Control Limits (%)

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

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

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902610
Date Extracted: 06/01/2009
Date Analyzed: 06/01/2009

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

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0901865

Analyte Name	Lab Control Sample JWG0901865-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Chloromethane	21.0	20.0	105	67-135
Vinyl Chloride	21.7	20.0	108	78-132
Bromomethane	18.4	20.0	92	79-130
Chloroethane	27.1	20.0	135 *	74-126
Trichlorofluoromethane	20.6	20.0	103	74-134
1,1-Dichloroethene	19.4	20.0	97	78-130
Acetone	113	100	113	67-133
Iodomethane (Methyl Iodide)	102	100	102	68-134
Carbon Disulfide	115	100	115	76-138
Methylene Chloride	20.7	20.0	103	72-124
trans-1,2-Dichloroethene	20.3	20.0	101	77-124
Acrylonitrile	120	100	120	77-127
1,1-Dichloroethane	20.3	20.0	102	80-128
Vinyl Acetate	101	100	101	61-148
cis-1,2-Dichloroethene	19.2	20.0	96	80-126
2-Butanone (MEK)	111	100	111	73-127
Bromochloromethane	22.6	20.0	113	79-129
Chloroform	19.1	20.0	95	83-124
1,1,1-Trichloroethane (TCA)	18.3	20.0	91	79-124
Carbon Tetrachloride	18.6	20.0	93	81-125
Benzene	20.4	20.0	102	79-119
1,2-Dichloroethane (EDC)	18.7	20.0	93	80-124
Trichloroethene (TCE)	18.2	20.0	91	76-124
1,2-Dichloropropane	21.8	20.0	109	79-123
Dibromomethane	19.8	20.0	99	83-123
Bromodichloromethane	19.0	20.0	95	81-123
cis-1,3-Dichloropropene	18.9	20.0	95	86-123
4-Methyl-2-pentanone (MIBK)	105	100	105	72-136
Toluene	17.5	20.0	87	86-117
trans-1,3-Dichloropropene	18.0	20.0	90	83-124
1,1,2-Trichloroethane	19.0	20.0	95	86-114
Tetrachloroethene (PCE)	17.1	20.0	85	80-121
2-Hexanone	102	100	102	71-138
Dibromochloromethane	18.1	20.0	91	82-121
1,2-Dibromoethane (EDB)	18.9	20.0	95	88-117
Chlorobenzene	17.5	20.0	88	86-113

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

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

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902610
Date Extracted: 06/01/2009
Date Analyzed: 06/01/2009

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

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0901865

Analyte Name	Lab Control Sample JWG0901865-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	17.9	20.0	89	85-117
Ethylbenzene	18.3	20.0	92	90-118
m,p-Xylenes	37.4	40.0	93	86-121
o-Xylene	18.7	20.0	94	89-119
Styrene	18.2	20.0	91	89-122
Bromoform	17.9	20.0	90	68-129
1,1,2,2-Tetrachloroethane	20.2	20.0	101	83-120
1,2,3-Trichloropropane	18.0	20.0	90	83-123
1,4-Dichlorobenzene	17.3	20.0	86	83-113
trans-1,4-Dichloro-2-butene	17.6	20.0	88	53-143
1,2-Dichlorobenzene	18.2	20.0	91	84-115
1,2-Dibromo-3-chloropropane (DBCP	17.6	20.0	88	62-123

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

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

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902610

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

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
SW-3	J0902610-001	125
SW-4	J0902610-002	122
Method Blank	JWG0901851-3	144
Lab Control Sample	JWG0901851-1	136
Duplicate Lab Control Sample	JWG0901851-2	138

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.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902610
Date Extracted: 06/01/2009
Date Analyzed: 06/03/2009

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: JWG0901851

	Lab Control Sample JWG0901851-1 Lab Control Spike			Duplicate Lab Control Sample JWG0901851-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,2-Dibromoethane (EDB)	0.434	0.250	174 *	0.423	0.250	169 *	70-130	3	20
1,2-Dibromo-3-chloropropane (DBCP	0.338	0.250	135 *	0.378	0.250	151 *	70-130	11	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: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902610
Date Analyzed: 6/ 3/09 - 6/ 4/09

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0902610-LCS2 Result	Expected	% Rec	% Rec Limits
Antimony, Total	6020	**50.5**	50.0	101	80 - 120
Arsenic, Total	6020	**47.3**	50.0	95	80 - 120
Barium, Total	6020	**50.6**	50.0	101	80 - 120
Beryllium, Total	6020	**48.5**	50.0	97	80 - 120
Cadmium, Total	6020	**48.3**	50.0	97	80 - 120
Chromium, Total	6020	**50.6**	50.0	101	80 - 120
Cobalt, Total	6020	**50.0**	50.0	100	80 - 120
Copper, Total	6020	**48.5**	50.0	97	80 - 120
Iron, Total	6010B	**1900**	2000	95	80 - 120
Lead, Total	6020	**52.1**	50.0	104	80 - 120
Nickel, Total	6020	**50.6**	50.0	101	80 - 120
Selenium, Total	6020	**44.0**	50.0	88	80 - 120
Silver, Total	6020	**44.7**	50.0	89	80 - 120
Thallium, Total	6020	**51.7**	50.0	103	80 - 120
Vanadium, Total	6020	**49.9**	50.0	100	80 - 120
Zinc, Total	6020	**89.9**	100	90	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902610
Date Analyzed: 6/ 1/09

Lab Control Sample Summary
Mercury, Total in Liquid Waste (Manual Cold-Vapor Technique)

Units: µg/L
Basis: NA

		Lab Control Sample J0902610-LCS1			Duplicate Lab Control Sample J0902610-DLCS1					
Analyte Name	**Method**	**Result**	**Expected**	**% Rec**	**Result**	**Expected**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Mercury, Total	7470A	**5.11**	5.00	102	**5.27**	5.00	105	80 - 120	3	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	GeoSyntec Consultants	**Service Request :**	J0902610
Project Name :	JED SWDF	**Date Collected :**	NA
Project Number :	FQ1512A	**Date Received :**	NA
Sample Matrix :	WATER	**Date Extracted :**	NA
		Date Analyzed :	05/29-06/11/09

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Laboratory Control Sample
Lab Code : J0902610-LCS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Biochemical Oxygen Demand (BOD)	mg/L (ppm)	405.1	198	173	87	85-115	
Carbon, Total Organic	mg/L (ppm)	415.1	50	48.3	97	90-110	
Chemical Oxygen Demand	mg/L (ppm)	410.2	85.8	82.0	96	85-115	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	5.10	102	90-110	
Phosphorus, Total	mg/L (ppm)	365.1	0.500	0.516	103	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	300	288	96	85-115	
Solids, Total Suspended (TSS)	mg/L (ppm)	160.2	80	78.0	98	85-115	

Report By: Palimi

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

Client: GeoSyntec Service Request # J0902610

Project: JED SWDF

Cooler received on 5/29/09 and opened on 5/29/09 by SJP

COURIER: CAS UPS FEDEX DHL CLIENT Tracking #

1	Were custody seals on outside of cooler?	Yes	No	N/A
2	Were seals intact, signed and dated?	Yes	No	N/A
3	Were custody papers properly filled out?	Yes	No	N/A
4	Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C)	2.1		
5	Correct Temperature?	Yes	No	N/A
6	Were Ice or Ice Packs present	Yes	No	N/A
7	Did all bottles arrive in good condition (unbroken, etc....)?	Yes	No	N/A
8	Were all bottle labels complete (sample ID, preservation, etc....)?	Yes	No	N/A
9	Did all bottle labels and tags agree with custody papers?	Yes	No	N/A
10	Were the correct bottles used for the tests indicated?	Yes	No	N/A
11	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:

12	Were all samples received within analysis holding times?	Yes	No	N/A
13	Were VOA vials checked for absence of air bubbles? If present, note below	Yes	No	N/A
14	Where did the bottles originate?	CAS	Client	

Sample ID	Reagent	Manuf. Lot # or CAS Chem ID	ml added	Inititials

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

Client approval to run samples if discrepancies noted: Date 33

SR # : J 0902610 Date: 5/29/09 Initials: SJO

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

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

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

www.caslab.com

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

PAGE 1 OF 1

SR # JQ902610
CAS Contact

Project Name: JED SWDF	Project Number: FQ1512A
Project Manager: Kirk Wills	Email Address: kwills@geosyntec.com
Company/Address: Geosyntec 14055 Riveredge Dr. Ste 300 Tampa, FL 33637	
Phone #: 813-558-0990	FAX#: 813-558-9726
Sampler's Signature: Joe Terry	Sampler's Printed Name: Joe Terry

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

NUMBER OF CONTAINERS

8260 | 8011 | TOC | Metals | NH_3, TKN, Total P, COD | TDS, TSS, NO_3, NO_2, ±ID Chlorophyll A | Fecal Coliform

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

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	#	8260	8011	TOC	Metals	NH3, TKN, Total P, COD	TDS, TSS, NO3, NO2, ±ID Chlorophyll A	Fecal Coliform
SW-3		5-29-09	0900	SW	12	X	X	X	X	X	X	X
SW-4		5-29-09	0940	SW	12	X	X	X	X	X	X	X
Trip Blank				W	2	X						

SPECIAL INSTRUCTIONS/COMMENTS

	Temp (°C)
SW-3	23.43
SW-4	24.08

See QAPP ☐

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

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

INVOICE INFORMATION
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Joe Terry	Signature:	Signature	Signature	Signature	Signature
Printed Name: Joe Terry	Printed Name:	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Geosyntec	Firm:	Firm	Firm	Firm	Firm
Date/Time: 5-29-09 / 1120	Date/Time: 5-29-09 1120	Date/Time	Date/Time	Date/Time	Date/Time

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

JSCOC-06/20/08

9143 Philips Highway, Suite 200 Jacksonville, FL 32256 (904) 739-2277 (904) 739-2011 fax

Columbia Analytical Services INC.
An Employee - Owned Company

June 15, 2009

Service Request No: J0902611

Kirk Wills
GeoSyntec Consultants
14055 Riveredge Drive
Suite 300
Tampa, FL 33637

Laboratory Results for: JED SWDF/FQ1512A

Dear Kirk:

Enclosed are the results of the sample(s) submitted to our laboratory on May 29, 2009. For your reference, these analyses have been assigned our service request number **J0902611**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. In accordance to the NELAC 2003 Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

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

Respectfully submitted,

Columbia Analytical Services, Inc.

Craig Myers
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502 valid through 6/30/09. Other state accreditations include: Georgia, #958 valid through 6/30/09; Louisiana, #02086 valid through 6/30/09; Texas, #T104704197-06-TX valid through 5/31/09; North Carolina, #527 valid through 12/31/09; South Carolina, #96021001 valid through 6/30/09.

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	GeoSyntec Consultants	**Service Request No.:**	J0902611
Project:	JED SWDF	**Date Received:**	5/29/09
Sample Matrix:	Water		

CASE NARRATIVE

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

Sample Receipt

Eleven water samples and one trip blank were received for analysis at Columbia Analytical Services on 5/29/09. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

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

Lab Control Sample Exceptions

The spike recovery of Chloroethane for Laboratory Control Sample (LCS) JWG0901926-3 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.

Batch QC Notes and Discussion

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

Metals by ICP-MS/ICP-OES/CVAA

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

General Chemistry Parameters

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

Approved by Craig R Hyer **Date** 6/15/09

Batch QC Notes and Discussion

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

Approved by _____ **Date** 6/15/09

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: GeoSyntec Consultants
Project: JED SWDF/FQ1512A

Service Request: J0902611

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J0902611-001	MW-10A	5/28/09	12:20
J0902611-002	MW-10B	5/28/09	11:52
J0902611-003	MW-11A	5/28/09	10:25
J0902611-004	MW-11B	5/28/09	10:47
J0902611-005	MW-12A	5/28/09	08:45
J0902611-006	MW-12B	5/28/09	09:00
J0902611-007	MW-13A	5/28/09	07:25
J0902611-008	MW-13B	5/28/09	07:50
J0902611-009	MW-23A	5/28/09	14:22
J0902611-010	MW-23B	5/28/09	13:40
J0902611-011	DUP-1	5/28/09	00:00
J0902611-012	Trip Blanks	5/28/09	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 05/28/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-10A
Lab Code: J0902611-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
Vinyl Chloride	ND	U	1.0	0.25	1	06/05/09	06/05/09	JWG0901926	
Bromomethane	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroethane	ND	UJ	5.0	0.19	1	06/05/09	06/05/09	JWG0901926	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/05/09	06/05/09	JWG0901926	
Acetone	ND	U	50	2.4	1	06/05/09	06/05/09	JWG0901926	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/05/09	06/05/09	JWG0901926	
Carbon Disulfide	ND	U	10	0.84	1	06/05/09	06/05/09	JWG0901926	
Methylene Chloride	ND	U	5.0	0.72	1	06/05/09	06/05/09	JWG0901926	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/05/09	06/05/09	JWG0901926	
Acrylonitrile	ND	U	10	0.59	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/05/09	06/05/09	JWG0901926	
Vinyl Acetate	ND	U	10	0.60	1	06/05/09	06/05/09	JWG0901926	
cis-1,2-Dichloroethene	**0.74**	I	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
2-Butanone (MEK)	ND	U	10	0.56	1	06/05/09	06/05/09	JWG0901926	
Bromochloromethane	ND	U	5.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroform	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Benzene	**0.96**	I	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/05/09	06/05/09	JWG0901926	
Dibromomethane	ND	U	5.0	0.12	1	06/05/09	06/05/09	JWG0901926	
Bromodichloromethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/05/09	06/05/09	JWG0901926	
Toluene	ND	U	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/05/09	06/05/09	JWG0901926	
2-Hexanone	ND	U	25	0.36	1	06/05/09	06/05/09	JWG0901926	
Dibromochloromethane	ND	U	1.0	0.11	1	06/05/09	06/05/09	JWG0901926	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 05/28/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-10A
Lab Code: J0902611-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Chlorobenzene	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Ethylbenzene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
m,p-Xylenes	**0.37**	I	2.0	0.22	1	06/05/09	06/05/09	JWG0901926	
o-Xylene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Styrene	ND	U	1.0	0.051	1	06/05/09	06/05/09	JWG0901926	
Bromoform	ND	U	2.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/05/09	06/05/09	JWG0901926	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/05/09	06/05/09	JWG0901926	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	83	71-122	06/05/09	Acceptable
4-Bromofluorobenzene	106	75-120	06/05/09	Acceptable
Dibromofluoromethane	87	82-116	06/05/09	Acceptable
Toluene-d8	98	88-117	06/05/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 05/28/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-10B
Lab Code: J0902611-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
Vinyl Chloride	ND	U	1.0	0.25	1	06/05/09	06/05/09	JWG0901926	
Bromomethane	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroethane	ND	UJ	5.0	0.19	1	06/05/09	06/05/09	JWG0901926	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/05/09	06/05/09	JWG0901926	
Acetone	ND	U	50	2.4	1	06/05/09	06/05/09	JWG0901926	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/05/09	06/05/09	JWG0901926	
Carbon Disulfide	ND	U	10	0.84	1	06/05/09	06/05/09	JWG0901926	
Methylene Chloride	ND	U	5.0	0.72	1	06/05/09	06/05/09	JWG0901926	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/05/09	06/05/09	JWG0901926	
Acrylonitrile	ND	U	10	0.59	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/05/09	06/05/09	JWG0901926	
Vinyl Acetate	ND	U	10	0.60	1	06/05/09	06/05/09	JWG0901926	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
2-Butanone (MEK)	ND	U	10	0.56	1	06/05/09	06/05/09	JWG0901926	
Bromochloromethane	ND	U	5.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroform	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Benzene	ND	U	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/05/09	06/05/09	JWG0901926	
Dibromomethane	ND	U	5.0	0.12	1	06/05/09	06/05/09	JWG0901926	
Bromodichloromethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/05/09	06/05/09	JWG0901926	
Toluene	ND	U	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/05/09	06/05/09	JWG0901926	
2-Hexanone	ND	U	25	0.36	1	06/05/09	06/05/09	JWG0901926	
Dibromochloromethane	ND	U	1.0	0.11	1	06/05/09	06/05/09	JWG0901926	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 05/28/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-10B
Lab Code: J0902611-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Chlorobenzene	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Ethylbenzene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
m,p-Xylenes	ND	U	2.0	0.22	1	06/05/09	06/05/09	JWG0901926	
o-Xylene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Styrene	ND	U	1.0	0.051	1	06/05/09	06/05/09	JWG0901926	
Bromoform	ND	U	2.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/05/09	06/05/09	JWG0901926	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/05/09	06/05/09	JWG0901926	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	80	71-122	06/05/09	Acceptable
4-Bromofluorobenzene	112	75-120	06/05/09	Acceptable
Dibromofluoromethane	87	82-116	06/05/09	Acceptable
Toluene-d8	98	88-117	06/05/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 05/28/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-11A
Lab Code: J0902611-003

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
Vinyl Chloride	ND	U	1.0	0.25	1	06/05/09	06/05/09	JWG0901926	
Bromomethane	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroethane	ND	UJ	5.0	0.19	1	06/05/09	06/05/09	JWG0901926	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/05/09	06/05/09	JWG0901926	
Acetone	ND	U	50	2.4	1	06/05/09	06/05/09	JWG0901926	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/05/09	06/05/09	JWG0901926	
Carbon Disulfide	ND	U	10	0.84	1	06/05/09	06/05/09	JWG0901926	
Methylene Chloride	ND	U	5.0	0.72	1	06/05/09	06/05/09	JWG0901926	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/05/09	06/05/09	JWG0901926	
Acrylonitrile	ND	U	10	0.59	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/05/09	06/05/09	JWG0901926	
Vinyl Acetate	ND	U	10	0.60	1	06/05/09	06/05/09	JWG0901926	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
2-Butanone (MEK)	ND	U	10	0.56	1	06/05/09	06/05/09	JWG0901926	
Bromochloromethane	ND	U	5.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroform	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Benzene	**0.62**	I	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/05/09	06/05/09	JWG0901926	
Dibromomethane	ND	U	5.0	0.12	1	06/05/09	06/05/09	JWG0901926	
Bromodichloromethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/05/09	06/05/09	JWG0901926	
Toluene	ND	U	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/05/09	06/05/09	JWG0901926	
2-Hexanone	ND	U	25	0.36	1	06/05/09	06/05/09	JWG0901926	
Dibromochloromethane	ND	U	1.0	0.11	1	06/05/09	06/05/09	JWG0901926	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 05/28/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-11A
Lab Code: J0902611-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Chlorobenzene	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Ethylbenzene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
m,p-Xylenes	**0.26**	I	2.0	0.22	1	06/05/09	06/05/09	JWG0901926	
o-Xylene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Styrene	ND	U	1.0	0.051	1	06/05/09	06/05/09	JWG0901926	
Bromoform	ND	U	2.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/05/09	06/05/09	JWG0901926	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/05/09	06/05/09	JWG0901926	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	82	71-122	06/05/09	Acceptable
4-Bromofluorobenzene	105	75-120	06/05/09	Acceptable
Dibromofluoromethane	89	82-116	06/05/09	Acceptable
Toluene-d8	95	88-117	06/05/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 05/28/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-11B
Lab Code: J0902611-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
Vinyl Chloride	ND	U	1.0	0.25	1	06/05/09	06/05/09	JWG0901926	
Bromomethane	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroethane	ND	UJ	5.0	0.19	1	06/05/09	06/05/09	JWG0901926	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/05/09	06/05/09	JWG0901926	
Acetone	ND	U	50	2.4	1	06/05/09	06/05/09	JWG0901926	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/05/09	06/05/09	JWG0901926	
Carbon Disulfide	ND	U	10	0.84	1	06/05/09	06/05/09	JWG0901926	
Methylene Chloride	ND	U	5.0	0.72	1	06/05/09	06/05/09	JWG0901926	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/05/09	06/05/09	JWG0901926	
Acrylonitrile	ND	U	10	0.59	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/05/09	06/05/09	JWG0901926	
Vinyl Acetate	ND	U	10	0.60	1	06/05/09	06/05/09	JWG0901926	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
2-Butanone (MEK)	ND	U	10	0.56	1	06/05/09	06/05/09	JWG0901926	
Bromochloromethane	ND	U	5.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroform	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Benzene	ND	U	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/05/09	06/05/09	JWG0901926	
Dibromomethane	ND	U	5.0	0.12	1	06/05/09	06/05/09	JWG0901926	
Bromodichloromethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/05/09	06/05/09	JWG0901926	
Toluene	ND	U	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/05/09	06/05/09	JWG0901926	
2-Hexanone	ND	U	25	0.36	1	06/05/09	06/05/09	JWG0901926	
Dibromochloromethane	ND	U	1.0	0.11	1	06/05/09	06/05/09	JWG0901926	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 05/28/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-11B
Lab Code: J0902611-004

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Chlorobenzene	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Ethylbenzene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
m,p-Xylenes	ND	U	2.0	0.22	1	06/05/09	06/05/09	JWG0901926	
o-Xylene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Styrene	ND	U	1.0	0.051	1	06/05/09	06/05/09	JWG0901926	
Bromoform	ND	U	2.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/05/09	06/05/09	JWG0901926	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/05/09	06/05/09	JWG0901926	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	76	71-122	06/05/09	Acceptable
4-Bromofluorobenzene	108	75-120	06/05/09	Acceptable
Dibromofluoromethane	89	82-116	06/05/09	Acceptable
Toluene-d8	94	88-117	06/05/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 05/28/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-12A
Lab Code: J0902611-005

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
Vinyl Chloride	ND	U	1.0	0.25	1	06/05/09	06/05/09	JWG0901926	
Bromomethane	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroethane	ND	UJ	5.0	0.19	1	06/05/09	06/05/09	JWG0901926	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/05/09	06/05/09	JWG0901926	
Acetone	ND	U	50	2.4	1	06/05/09	06/05/09	JWG0901926	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/05/09	06/05/09	JWG0901926	
Carbon Disulfide	ND	U	10	0.84	1	06/05/09	06/05/09	JWG0901926	
Methylene Chloride	ND	U	5.0	0.72	1	06/05/09	06/05/09	JWG0901926	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/05/09	06/05/09	JWG0901926	
Acrylonitrile	ND	U	10	0.59	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/05/09	06/05/09	JWG0901926	
Vinyl Acetate	ND	U	10	0.60	1	06/05/09	06/05/09	JWG0901926	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
2-Butanone (MEK)	ND	U	10	0.56	1	06/05/09	06/05/09	JWG0901926	
Bromochloromethane	ND	U	5.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroform	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Benzene	ND	U	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/05/09	06/05/09	JWG0901926	
Dibromomethane	ND	U	5.0	0.12	1	06/05/09	06/05/09	JWG0901926	
Bromodichloromethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/05/09	06/05/09	JWG0901926	
Toluene	ND	U	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/05/09	06/05/09	JWG0901926	
2-Hexanone	ND	U	25	0.36	1	06/05/09	06/05/09	JWG0901926	
Dibromochloromethane	ND	U	1.0	0.11	1	06/05/09	06/05/09	JWG0901926	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 05/28/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-12A
Lab Code: J0902611-005

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Chlorobenzene	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Ethylbenzene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
m,p-Xylenes	ND	U	2.0	0.22	1	06/05/09	06/05/09	JWG0901926	
o-Xylene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Styrene	ND	U	1.0	0.051	1	06/05/09	06/05/09	JWG0901926	
Bromoform	ND	U	2.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/05/09	06/05/09	JWG0901926	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/05/09	06/05/09	JWG0901926	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	80	71-122	06/05/09	Acceptable
4-Bromofluorobenzene	105	75-120	06/05/09	Acceptable
Dibromofluoromethane	84	82-116	06/05/09	Acceptable
Toluene-d8	98	88-117	06/05/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 05/28/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-12B
Lab Code: J0902611-006

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
Vinyl Chloride	ND	U	1.0	0.25	1	06/05/09	06/05/09	JWG0901926	
Bromomethane	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroethane	ND	UJ	5.0	0.19	1	06/05/09	06/05/09	JWG0901926	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/05/09	06/05/09	JWG0901926	
Acetone	ND	U	50	2.4	1	06/05/09	06/05/09	JWG0901926	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/05/09	06/05/09	JWG0901926	
Carbon Disulfide	ND	U	10	0.84	1	06/05/09	06/05/09	JWG0901926	
Methylene Chloride	ND	U	5.0	0.72	1	06/05/09	06/05/09	JWG0901926	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/05/09	06/05/09	JWG0901926	
Acrylonitrile	ND	U	10	0.59	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/05/09	06/05/09	JWG0901926	
Vinyl Acetate	ND	U	10	0.60	1	06/05/09	06/05/09	JWG0901926	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
2-Butanone (MEK)	ND	U	10	0.56	1	06/05/09	06/05/09	JWG0901926	
Bromochloromethane	ND	U	5.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroform	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Benzene	ND	U	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/05/09	06/05/09	JWG0901926	
Dibromomethane	ND	U	5.0	0.12	1	06/05/09	06/05/09	JWG0901926	
Bromodichloromethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/05/09	06/05/09	JWG0901926	
Toluene	ND	U	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/05/09	06/05/09	JWG0901926	
2-Hexanone	ND	U	25	0.36	1	06/05/09	06/05/09	JWG0901926	
Dibromochloromethane	ND	U	1.0	0.11	1	06/05/09	06/05/09	JWG0901926	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 05/28/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-12B
Lab Code: J0902611-006

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Chlorobenzene	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Ethylbenzene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
m,p-Xylenes	ND	U	2.0	0.22	1	06/05/09	06/05/09	JWG0901926	
o-Xylene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Styrene	ND	U	1.0	0.051	1	06/05/09	06/05/09	JWG0901926	
Bromoform	ND	U	2.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/05/09	06/05/09	JWG0901926	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/05/09	06/05/09	JWG0901926	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	79	71-122	06/05/09	Acceptable
4-Bromofluorobenzene	104	75-120	06/05/09	Acceptable
Dibromofluoromethane	87	82-116	06/05/09	Acceptable
Toluene-d8	98	88-117	06/05/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 05/28/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-13A
Lab Code: J0902611-007

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
Vinyl Chloride	ND	U	1.0	0.25	1	06/05/09	06/05/09	JWG0901926	
Bromomethane	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroethane	ND	UJ	5.0	0.19	1	06/05/09	06/05/09	JWG0901926	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/05/09	06/05/09	JWG0901926	
Acetone	ND	U	50	2.4	1	06/05/09	06/05/09	JWG0901926	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/05/09	06/05/09	JWG0901926	
Carbon Disulfide	ND	U	10	0.84	1	06/05/09	06/05/09	JWG0901926	
Methylene Chloride	ND	U	5.0	0.72	1	06/05/09	06/05/09	JWG0901926	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/05/09	06/05/09	JWG0901926	
Acrylonitrile	ND	U	10	0.59	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/05/09	06/05/09	JWG0901926	
Vinyl Acetate	ND	U	10	0.60	1	06/05/09	06/05/09	JWG0901926	
cis-1,2-Dichloroethene	**0.54**	I	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
2-Butanone (MEK)	ND	U	10	0.56	1	06/05/09	06/05/09	JWG0901926	
Bromochloromethane	ND	U	5.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroform	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Benzene	**0.65**	I	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/05/09	06/05/09	JWG0901926	
Dibromomethane	ND	U	5.0	0.12	1	06/05/09	06/05/09	JWG0901926	
Bromodichloromethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/05/09	06/05/09	JWG0901926	
Toluene	ND	U	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/05/09	06/05/09	JWG0901926	
2-Hexanone	ND	U	25	0.36	1	06/05/09	06/05/09	JWG0901926	
Dibromochloromethane	ND	U	1.0	0.11	1	06/05/09	06/05/09	JWG0901926	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 05/28/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-13A
Lab Code: J0902611-007

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Chlorobenzene	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Ethylbenzene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
m,p-Xylenes	ND	U	2.0	0.22	1	06/05/09	06/05/09	JWG0901926	
o-Xylene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Styrene	ND	U	1.0	0.051	1	06/05/09	06/05/09	JWG0901926	
Bromoform	ND	U	2.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/05/09	06/05/09	JWG0901926	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/05/09	06/05/09	JWG0901926	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	80	71-122	06/05/09	Acceptable
4-Bromofluorobenzene	105	75-120	06/05/09	Acceptable
Dibromofluoromethane	89	82-116	06/05/09	Acceptable
Toluene-d8	98	88-117	06/05/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 05/28/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-13B
Lab Code: J0902611-008

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
Vinyl Chloride	ND	U	1.0	0.25	1	06/05/09	06/05/09	JWG0901926	
Bromomethane	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroethane	ND	UJ	5.0	0.19	1	06/05/09	06/05/09	JWG0901926	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/05/09	06/05/09	JWG0901926	
Acetone	ND	U	50	2.4	1	06/05/09	06/05/09	JWG0901926	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/05/09	06/05/09	JWG0901926	
Carbon Disulfide	ND	U	10	0.84	1	06/05/09	06/05/09	JWG0901926	
Methylene Chloride	ND	U	5.0	0.72	1	06/05/09	06/05/09	JWG0901926	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/05/09	06/05/09	JWG0901926	
Acrylonitrile	ND	U	10	0.59	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/05/09	06/05/09	JWG0901926	
Vinyl Acetate	ND	U	10	0.60	1	06/05/09	06/05/09	JWG0901926	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
2-Butanone (MEK)	ND	U	10	0.56	1	06/05/09	06/05/09	JWG0901926	
Bromochloromethane	ND	U	5.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroform	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Benzene	ND	U	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/05/09	06/05/09	JWG0901926	
Dibromomethane	ND	U	5.0	0.12	1	06/05/09	06/05/09	JWG0901926	
Bromodichloromethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/05/09	06/05/09	JWG0901926	
Toluene	ND	U	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/05/09	06/05/09	JWG0901926	
2-Hexanone	ND	U	25	0.36	1	06/05/09	06/05/09	JWG0901926	
Dibromochloromethane	ND	U	1.0	0.11	1	06/05/09	06/05/09	JWG0901926	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 05/28/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-13B
Lab Code: J0902611-008

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Chlorobenzene	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Ethylbenzene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
m,p-Xylenes	ND	U	2.0	0.22	1	06/05/09	06/05/09	JWG0901926	
o-Xylene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Styrene	ND	U	1.0	0.051	1	06/05/09	06/05/09	JWG0901926	
Bromoform	ND	U	2.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/05/09	06/05/09	JWG0901926	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/05/09	06/05/09	JWG0901926	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	77	71-122	06/05/09	Acceptable
4-Bromofluorobenzene	105	75-120	06/05/09	Acceptable
Dibromofluoromethane	84	82-116	06/05/09	Acceptable
Toluene-d8	101	88-117	06/05/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 05/28/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-23A
Lab Code: J0902611-009

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
Vinyl Chloride	ND	U	1.0	0.25	1	06/05/09	06/05/09	JWG0901926	
Bromomethane	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroethane	ND	UJ	5.0	0.19	1	06/05/09	06/05/09	JWG0901926	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/05/09	06/05/09	JWG0901926	
Acetone	ND	U	50	2.4	1	06/05/09	06/05/09	JWG0901926	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/05/09	06/05/09	JWG0901926	
Carbon Disulfide	ND	U	10	0.84	1	06/05/09	06/05/09	JWG0901926	
Methylene Chloride	ND	U	5.0	0.72	1	06/05/09	06/05/09	JWG0901926	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/05/09	06/05/09	JWG0901926	
Acrylonitrile	ND	U	10	0.59	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/05/09	06/05/09	JWG0901926	
Vinyl Acetate	ND	U	10	0.60	1	06/05/09	06/05/09	JWG0901926	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
2-Butanone (MEK)	ND	U	10	0.56	1	06/05/09	06/05/09	JWG0901926	
Bromochloromethane	ND	U	5.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroform	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Benzene	ND	U	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/05/09	06/05/09	JWG0901926	
Dibromomethane	ND	U	5.0	0.12	1	06/05/09	06/05/09	JWG0901926	
Bromodichloromethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/05/09	06/05/09	JWG0901926	
Toluene	ND	U	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/05/09	06/05/09	JWG0901926	
2-Hexanone	ND	U	25	0.36	1	06/05/09	06/05/09	JWG0901926	
Dibromochloromethane	ND	U	1.0	0.11	1	06/05/09	06/05/09	JWG0901926	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 05/28/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-23A
Lab Code: J0902611-009

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Chlorobenzene	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Ethylbenzene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
m,p-Xylenes	ND	U	2.0	0.22	1	06/05/09	06/05/09	JWG0901926	
o-Xylene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Styrene	ND	U	1.0	0.051	1	06/05/09	06/05/09	JWG0901926	
Bromoform	ND	U	2.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/05/09	06/05/09	JWG0901926	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/05/09	06/05/09	JWG0901926	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	77	71-122	06/05/09	Acceptable
4-Bromofluorobenzene	109	75-120	06/05/09	Acceptable
Dibromofluoromethane	87	82-116	06/05/09	Acceptable
Toluene-d8	100	88-117	06/05/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 05/28/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-23B
Lab Code: J0902611-010

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
Vinyl Chloride	ND	U	1.0	0.25	1	06/05/09	06/05/09	JWG0901926	
Bromomethane	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroethane	ND	UJ	5.0	0.19	1	06/05/09	06/05/09	JWG0901926	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/05/09	06/05/09	JWG0901926	
Acetone	ND	U	50	2.4	1	06/05/09	06/05/09	JWG0901926	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/05/09	06/05/09	JWG0901926	
Carbon Disulfide	ND	U	10	0.84	1	06/05/09	06/05/09	JWG0901926	
Methylene Chloride	ND	U	5.0	0.72	1	06/05/09	06/05/09	JWG0901926	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/05/09	06/05/09	JWG0901926	
Acrylonitrile	ND	U	10	0.59	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/05/09	06/05/09	JWG0901926	
Vinyl Acetate	ND	U	10	0.60	1	06/05/09	06/05/09	JWG0901926	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
2-Butanone (MEK)	ND	U	10	0.56	1	06/05/09	06/05/09	JWG0901926	
Bromochloromethane	ND	U	5.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroform	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Benzene	ND	U	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/05/09	06/05/09	JWG0901926	
Dibromomethane	ND	U	5.0	0.12	1	06/05/09	06/05/09	JWG0901926	
Bromodichloromethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/05/09	06/05/09	JWG0901926	
Toluene	ND	U	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/05/09	06/05/09	JWG0901926	
2-Hexanone	ND	U	25	0.36	1	06/05/09	06/05/09	JWG0901926	
Dibromochloromethane	ND	U	1.0	0.11	1	06/05/09	06/05/09	JWG0901926	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 05/28/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-23B
Lab Code: J0902611-010

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Chlorobenzene	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Ethylbenzene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
m,p-Xylenes	ND	U	2.0	0.22	1	06/05/09	06/05/09	JWG0901926	
o-Xylene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Styrene	ND	U	1.0	0.051	1	06/05/09	06/05/09	JWG0901926	
Bromoform	ND	U	2.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/05/09	06/05/09	JWG0901926	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/05/09	06/05/09	JWG0901926	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	78	71-122	06/05/09	Acceptable
4-Bromofluorobenzene	108	75-120	06/05/09	Acceptable
Dibromofluoromethane	90	82-116	06/05/09	Acceptable
Toluene-d8	99	88-117	06/05/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 05/28/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: DUP-1
Lab Code: J0902611-011

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
Vinyl Chloride	**0.90**	I	1.0	0.25	1	06/05/09	06/05/09	JWG0901926	
Bromomethane	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroethane	ND	UJ	5.0	0.19	1	06/05/09	06/05/09	JWG0901926	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/05/09	06/05/09	JWG0901926	
Acetone	ND	U	50	2.4	1	06/05/09	06/05/09	JWG0901926	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/05/09	06/05/09	JWG0901926	
Carbon Disulfide	ND	U	10	0.84	1	06/05/09	06/05/09	JWG0901926	
Methylene Chloride	ND	U	5.0	0.72	1	06/05/09	06/05/09	JWG0901926	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/05/09	06/05/09	JWG0901926	
Acrylonitrile	ND	U	10	0.59	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/05/09	06/05/09	JWG0901926	
Vinyl Acetate	ND	U	10	0.60	1	06/05/09	06/05/09	JWG0901926	
cis-1,2-Dichloroethene	**0.84**	I	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
2-Butanone (MEK)	ND	U	10	0.56	1	06/05/09	06/05/09	JWG0901926	
Bromochloromethane	ND	U	5.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroform	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Benzene	**1.1**		1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/05/09	06/05/09	JWG0901926	
Dibromomethane	ND	U	5.0	0.12	1	06/05/09	06/05/09	JWG0901926	
Bromodichloromethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/05/09	06/05/09	JWG0901926	
Toluene	**0.53**	I	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/05/09	06/05/09	JWG0901926	
2-Hexanone	ND	U	25	0.36	1	06/05/09	06/05/09	JWG0901926	
Dibromochloromethane	ND	U	1.0	0.11	1	06/05/09	06/05/09	JWG0901926	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 05/28/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: DUP-1
Lab Code: J0902611-011

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Chlorobenzene	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Ethylbenzene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
m,p-Xylenes	**0.58**	I	2.0	0.22	1	06/05/09	06/05/09	JWG0901926	
o-Xylene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Styrene	ND	U	1.0	0.051	1	06/05/09	06/05/09	JWG0901926	
Bromoform	ND	U	2.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/05/09	06/05/09	JWG0901926	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/05/09	06/05/09	JWG0901926	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	76	71-122	06/05/09	Acceptable
4-Bromofluorobenzene	109	75-120	06/05/09	Acceptable
Dibromofluoromethane	82	82-116	06/05/09	Acceptable
Toluene-d8	97	88-117	06/05/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 05/28/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blanks
Lab Code: J0902611-012

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
Vinyl Chloride	ND	U	1.0	0.25	1	06/05/09	06/05/09	JWG0901926	
Bromomethane	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroethane	ND	UJ	5.0	0.19	1	06/05/09	06/05/09	JWG0901926	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/05/09	06/05/09	JWG0901926	
Acetone	ND	U	50	2.4	1	06/05/09	06/05/09	JWG0901926	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/05/09	06/05/09	JWG0901926	
Carbon Disulfide	ND	U	10	0.84	1	06/05/09	06/05/09	JWG0901926	
Methylene Chloride	ND	U	5.0	0.72	1	06/05/09	06/05/09	JWG0901926	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/05/09	06/05/09	JWG0901926	
Acrylonitrile	ND	U	10	0.59	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/05/09	06/05/09	JWG0901926	
Vinyl Acetate	ND	U	10	0.60	1	06/05/09	06/05/09	JWG0901926	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
2-Butanone (MEK)	ND	U	10	0.56	1	06/05/09	06/05/09	JWG0901926	
Bromochloromethane	ND	U	5.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroform	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Benzene	ND	U	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/05/09	06/05/09	JWG0901926	
Dibromomethane	ND	U	5.0	0.12	1	06/05/09	06/05/09	JWG0901926	
Bromodichloromethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/05/09	06/05/09	JWG0901926	
Toluene	ND	U	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/05/09	06/05/09	JWG0901926	
2-Hexanone	ND	U	25	0.36	1	06/05/09	06/05/09	JWG0901926	
Dibromochloromethane	ND	U	1.0	0.11	1	06/05/09	06/05/09	JWG0901926	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 05/28/2009
Date Received: 05/29/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blanks
Lab Code: J0902611-012

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Chlorobenzene	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Ethylbenzene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
m,p-Xylenes	ND	U	2.0	0.22	1	06/05/09	06/05/09	JWG0901926	
o-Xylene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Styrene	ND	U	1.0	0.051	1	06/05/09	06/05/09	JWG0901926	
Bromoform	ND	U	2.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/05/09	06/05/09	JWG0901926	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/05/09	06/05/09	JWG0901926	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	77	71-122	06/05/09	Acceptable
4-Bromofluorobenzene	104	75-120	06/05/09	Acceptable
Dibromofluoromethane	83	82-116	06/05/09	Acceptable
Toluene-d8	98	88-117	06/05/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0901926-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
Vinyl Chloride	ND	U	1.0	0.25	1	06/05/09	06/05/09	JWG0901926	
Bromomethane	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroethane	ND	UJ	5.0	0.19	1	06/05/09	06/05/09	JWG0901926	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/05/09	06/05/09	JWG0901926	
Acetone	ND	U	50	2.4	1	06/05/09	06/05/09	JWG0901926	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/05/09	06/05/09	JWG0901926	
Carbon Disulfide	ND	U	10	0.84	1	06/05/09	06/05/09	JWG0901926	
Methylene Chloride	ND	U	5.0	0.72	1	06/05/09	06/05/09	JWG0901926	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/05/09	06/05/09	JWG0901926	
Acrylonitrile	ND	U	10	0.59	1	06/05/09	06/05/09	JWG0901926	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/05/09	06/05/09	JWG0901926	
Vinyl Acetate	ND	U	10	0.60	1	06/05/09	06/05/09	JWG0901926	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
2-Butanone (MEK)	ND	U	10	0.56	1	06/05/09	06/05/09	JWG0901926	
Bromochloromethane	ND	U	5.0	0.14	1	06/05/09	06/05/09	JWG0901926	
Chloroform	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Benzene	ND	U	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/05/09	06/05/09	JWG0901926	
Dibromomethane	ND	U	5.0	0.12	1	06/05/09	06/05/09	JWG0901926	
Bromodichloromethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/05/09	06/05/09	JWG0901926	
Toluene	ND	U	1.0	0.52	1	06/05/09	06/05/09	JWG0901926	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/05/09	06/05/09	JWG0901926	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/05/09	06/05/09	JWG0901926	
2-Hexanone	ND	U	25	0.36	1	06/05/09	06/05/09	JWG0901926	
Dibromochloromethane	ND	U	1.0	0.11	1	06/05/09	06/05/09	JWG0901926	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0901926-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/05/09	06/05/09	JWG0901926	
Chlorobenzene	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Ethylbenzene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
m,p-Xylenes	ND	U	2.0	0.22	1	06/05/09	06/05/09	JWG0901926	
o-Xylene	ND	U	1.0	0.10	1	06/05/09	06/05/09	JWG0901926	
Styrene	ND	U	1.0	0.051	1	06/05/09	06/05/09	JWG0901926	
Bromoform	ND	U	2.0	0.12	1	06/05/09	06/05/09	JWG0901926	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/05/09	06/05/09	JWG0901926	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/05/09	06/05/09	JWG0901926	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/05/09	06/05/09	JWG0901926	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/05/09	06/05/09	JWG0901926	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/05/09	06/05/09	JWG0901926	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/05/09	06/05/09	JWG0901926	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	79	71-122	06/05/09	Acceptable
4-Bromofluorobenzene	109	75-120	06/05/09	Acceptable
Dibromofluoromethane	89	82-116	06/05/09	Acceptable
Toluene-d8	100	88-117	06/05/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902611
Project:	JED SWDF/FQ1512A	**Date Collected:**	05/28/2009
Sample Matrix:	Water	**Date Received:**	05/29/2009

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

Sample Name:	MW-10A	**Units:**	ug/L
Lab Code:	J0902611-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/01/09	06/05/09	JWG0901851	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/05/09	JWG0901851	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	120	77-150	06/05/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902611
Project:	JED SWDF/FQ1512A	**Date Collected:**	05/28/2009
Sample Matrix:	Water	**Date Received:**	05/29/2009

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

Sample Name:	MW-10B	**Units:**	ug/L
Lab Code:	J0902611-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/01/09	06/05/09	JWG0901851	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/05/09	JWG0901851	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	126	77-150	06/05/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902611
Project:	JED SWDF/FQ1512A	**Date Collected:**	05/28/2009
Sample Matrix:	Water	**Date Received:**	05/29/2009

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

Sample Name:	MW-11A	**Units:**	ug/L
Lab Code:	J0902611-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/01/09	06/05/09	JWG0901851	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/05/09	JWG0901851	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	122	77-150	06/05/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902611
Project:	JED SWDF/FQ1512A	**Date Collected:**	05/28/2009
Sample Matrix:	Water	**Date Received:**	05/29/2009

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

Sample Name:	MW-11B	**Units:**	ug/L
Lab Code:	J0902611-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/01/09	06/05/09	JWG0901851	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/05/09	JWG0901851	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	124	77-150	06/05/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902611
Project:	JED SWDF/FQ1512A	**Date Collected:**	05/28/2009
Sample Matrix:	Water	**Date Received:**	05/29/2009

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

Sample Name:	MW-12A	**Units:**	ug/L
Lab Code:	J0902611-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/01/09	06/05/09	JWG0901851	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/05/09	JWG0901851	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	119	77-150	06/05/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902611
Project:	JED SWDF/FQ1512A	**Date Collected:**	05/28/2009
Sample Matrix:	Water	**Date Received:**	05/29/2009

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

Sample Name:	MW-12B	**Units:**	ug/L
Lab Code:	J0902611-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/01/09	06/05/09	JWG0901851	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/05/09	JWG0901851	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	127	77-150	06/05/09	Acceptable

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	J0902611
Project:	JED SWDF/FQ1512A	**Date Collected:**	05/28/2009
Sample Matrix:	Water	**Date Received:**	05/29/2009

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

Sample Name:	MW-13A	**Units:**	ug/L
Lab Code:	J0902611-007	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/01/09	06/05/09	JWG0901851	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/05/09	JWG0901851	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	126	77-150	06/05/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902611
Project:	JED SWDF/FQ1512A	**Date Collected:**	05/28/2009
Sample Matrix:	Water	**Date Received:**	05/29/2009

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

Sample Name:	MW-13B	**Units:**	ug/L
Lab Code:	J0902611-008	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/01/09	06/05/09	JWG0901851	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/05/09	JWG0901851	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	126	77-150	06/05/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902611
Project:	JED SWDF/FQ1512A	**Date Collected:**	05/28/2009
Sample Matrix:	Water	**Date Received:**	05/29/2009

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

Sample Name:	MW-23A	**Units:**	ug/L
Lab Code:	J0902611-009	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/01/09	06/06/09	JWG0901851	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/06/09	JWG0901851	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	127	77-150	06/06/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902611
Project:	JED SWDF/FQ1512A	**Date Collected:**	05/28/2009
Sample Matrix:	Water	**Date Received:**	05/29/2009

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

Sample Name:	MW-23B	**Units:**	ug/L
Lab Code:	J0902611-010	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/01/09	06/06/09	JWG0901851	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/06/09	JWG0901851	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	124	77-150	06/06/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902611
Project:	JED SWDF/FQ1512A	**Date Collected:**	05/28/2009
Sample Matrix:	Water	**Date Received:**	05/29/2009

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

Sample Name:	DUP-1	**Units:**	ug/L
Lab Code:	J0902611-011	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/01/09	06/06/09	JWG0901851	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/06/09	JWG0901851	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	125	77-150	06/06/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: NA
Date Received: NA

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

Sample Name: Method Blank
Lab Code: JWG0901851-3

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/01/09	06/03/09	JWG0901851	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/03/09	JWG0901851	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	144	77-150	06/03/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902611
Project:	JED SWDF/FQ1512A	**Date Collected:**	5/28/09 1220
Sample Matrix:	Water	**Date Received:**	5/29/09
Sample Name:	MW-10A		
Lab Code:	J0902611-001	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 2/09	6/8/09 13:19
Arsenic, Total	6020	**1.57**		µg/L	0.50	0.20	1	6/ 2/09	6/8/09 13:19
Barium, Total	6020	**2.4**		µg/L	2.0	0.5	1	6/ 2/09	6/8/09 13:19
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/8/09 13:19
Cadmium, Total	6020	**0.23**	I	µg/L	0.50	0.12	1	6/ 2/09	6/8/09 13:19
Chromium, Total	6020	**2.9**		µg/L	2.0	0.8	1	6/ 2/09	6/8/09 13:19
Cobalt, Total	6020	**0.3**	I	µg/L	1.0	0.2	1	6/ 2/09	6/8/09 13:19
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 2/09	6/8/09 13:19
Iron, Total	6010B	**1570**		µg/L	50	4	1	6/ 2/09	6/3/09 13:03
Lead, Total	6020	**0.2**	I	µg/L	1.0	0.2	1	6/ 2/09	6/8/09 13:19
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 3/09	6/4/09 13:01
Nickel, Total	6020	**2.7**		µg/L	2.0	0.3	1	6/ 2/09	6/8/09 13:19
Selenium, Total	6020	**1.2**	I	µg/L	2.0	0.8	1	6/ 2/09	6/8/09 13:19
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 2/09	6/8/09 13:19
Sodium, Total	6010B	**7.74**		mg/L	0.50	0.02	1	6/ 2/09	6/3/09 13:02
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/8/09 13:19
Vanadium, Total	6020	**4.2**	I	µg/L	5.0	1.2	1	6/ 2/09	6/8/09 13:19
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 2/09	6/8/09 13:19

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902611
Project:	JED SWDF/FQ1512A	**Date Collected:**	5/28/09 1152
Sample Matrix:	Water	**Date Received:**	5/29/09
Sample Name:	MW-10B		
Lab Code:	J0902611-002	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 2/09	6/8/09 13:24
Arsenic, Total	6020	ND	U	µg/L	0.50	0.20	1	6/ 2/09	6/8/09 13:24
Barium, Total	6020	**15.4**		µg/L	2.0	0.5	1	6/ 2/09	6/8/09 13:24
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/8/09 13:24
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 2/09	6/8/09 13:24
Chromium, Total	6020	**1.1**	I	µg/L	2.0	0.8	1	6/ 2/09	6/8/09 13:24
Cobalt, Total	6020	**0.3**	I	µg/L	1.0	0.2	1	6/ 2/09	6/8/09 13:24
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 2/09	6/8/09 13:24
Iron, Total	6010B	**538**		µg/L	50	4	1	6/ 2/09	6/3/09 13:24
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/8/09 13:24
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 3/09	6/4/09 13:02
Nickel, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	6/ 2/09	6/8/09 13:24
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 2/09	6/8/09 13:24
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 2/09	6/8/09 13:24
Sodium, Total	6010B	**8.61**		mg/L	0.50	0.02	1	6/ 2/09	6/3/09 13:23
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/8/09 13:24
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	6/ 2/09	6/8/09 13:24
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 2/09	6/8/09 13:24

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902611
Project:	JED SWDF/FQ1512A	**Date Collected:**	5/28/09 1025
Sample Matrix:	Water	**Date Received:**	5/29/09
Sample Name:	MW-11A		
Lab Code:	J0902611-003	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 2/09	6/10/09 15:55
Arsenic, Total	6020	**12.7**		µg/L	0.50	0.20	1	6/ 2/09	6/10/09 15:55
Barium, Total	6020	**9.0**		µg/L	2.0	0.5	1	6/ 2/09	6/10/09 15:55
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 15:55
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 2/09	6/10/09 15:55
Chromium, Total	6020	**7.1**		µg/L	2.0	0.8	1	6/ 2/09	6/10/09 15:55
Cobalt, Total	6020	**0.8**	I	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 15:55
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 2/09	6/10/09 15:55
Iron, Total	6010B	**16800**		µg/L	50	4	1	6/ 2/09	6/3/09 13:27
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 15:55
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 3/09	6/4/09 13:04
Nickel, Total	6020	**0.9**	I	µg/L	2.0	0.3	1	6/ 2/09	6/10/09 15:55
Selenium, Total	6020	**2.1**		µg/L	2.0	0.8	1	6/ 2/09	6/10/09 15:55
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 2/09	6/10/09 15:55
Sodium, Total	6010B	**11.8**		mg/L	0.50	0.02	1	6/ 2/09	6/3/09 13:26
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 15:55
Vanadium, Total	6020	**3.7**	I	µg/L	5.0	1.2	1	6/ 2/09	6/11/09 19:03
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 2/09	6/10/09 15:55

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 5/28/09 1047
Date Received: 5/29/09

Sample Name: MW-11B
Lab Code: J0902611-004

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 2/09	6/10/09 16:00
Arsenic, Total	6020	**0.57**		µg/L	0.50	0.20	1	6/ 2/09	6/10/09 16:00
Barium, Total	6020	**20.2**		µg/L	2.0	0.5	1	6/ 2/09	6/10/09 16:00
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:00
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 2/09	6/10/09 16:00
Chromium, Total	6020	**2.2**		µg/L	2.0	0.8	1	6/ 2/09	6/10/09 16:00
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:00
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 2/09	6/10/09 16:00
Iron, Total	6010B	**565**		µg/L	50	4	1	6/ 2/09	6/3/09 13:31
Lead, Total	6020	**0.7**	I	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:00
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 3/09	6/4/09 13:05
Nickel, Total	6020	**0.7**	I	µg/L	2.0	0.3	1	6/ 2/09	6/10/09 16:00
Selenium, Total	6020	**0.9**	I	µg/L	2.0	0.8	1	6/ 2/09	6/10/09 16:00
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 2/09	6/10/09 16:00
Sodium, Total	6010B	**13.2**		mg/L	0.50	0.02	1	6/ 2/09	6/3/09 13:30
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:00
Vanadium, Total	6020	**3.2**	I	µg/L	5.0	1.2	1	6/ 2/09	6/11/09 19:06
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 2/09	6/10/09 16:00

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902611
Project:	JED SWDF/FQ1512A	**Date Collected:**	5/28/09 0845
Sample Matrix:	Water	**Date Received:**	5/29/09
Sample Name:	MW-12A		
Lab Code:	J0902611-005	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 2/09	6/10/09 16:04
Arsenic, Total	6020	**6.79**		µg/L	0.50	0.20	1	6/ 2/09	6/10/09 16:04
Barium, Total	6020	**10.4**		µg/L	2.0	0.5	1	6/ 2/09	6/10/09 16:04
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:04
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 2/09	6/10/09 16:04
Chromium, Total	6020	**3.1**		µg/L	2.0	0.8	1	6/ 2/09	6/10/09 16:04
Cobalt, Total	6020	**0.9**	I	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:04
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 2/09	6/10/09 16:04
Iron, Total	6010B	**27900**		µg/L	50	4	1	6/ 2/09	6/3/09 13:34
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:04
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 3/09	6/4/09 13:07
Nickel, Total	6020	**1.4**	I	µg/L	2.0	0.3	1	6/ 2/09	6/10/09 16:04
Selenium, Total	6020	**1.7**	I	µg/L	2.0	0.8	1	6/ 2/09	6/10/09 16:04
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 2/09	6/10/09 16:04
Sodium, Total	6010B	**10.1**		mg/L	0.50	0.02	1	6/ 2/09	6/3/09 13:33
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:04
Vanadium, Total	6020	**1.2**	I	µg/L	5.0	1.2	1	6/ 2/09	6/11/09 19:10
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 2/09	6/10/09 16:04

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902611
Project:	JED SWDF/FQ1512A	**Date Collected:**	5/28/09 0900
Sample Matrix:	Water	**Date Received:**	5/29/09
Sample Name:	MW-12B		
Lab Code:	J0902611-006	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 2/09	6/10/09 16:09
Arsenic, Total	6020	**0.46**	I	µg/L	0.50	0.20	1	6/ 2/09	6/10/09 16:09
Barium, Total	6020	**33.0**		µg/L	2.0	0.5	1	6/ 2/09	6/10/09 16:09
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:09
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 2/09	6/10/09 16:09
Chromium, Total	6020	**1.2**	I	µg/L	2.0	0.8	1	6/ 2/09	6/10/09 16:09
Cobalt, Total	6020	**0.2**	I	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:09
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 2/09	6/10/09 16:09
Iron, Total	6010B	**1130**		µg/L	50	4	1	6/ 2/09	6/3/09 13:38
Lead, Total	6020	**0.4**	I	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:09
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 3/09	6/4/09 13:08
Nickel, Total	6020	**0.8**	I	µg/L	2.0	0.3	1	6/ 2/09	6/10/09 16:09
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 2/09	6/10/09 16:09
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 2/09	6/10/09 16:09
Sodium, Total	6010B	**8.23**		mg/L	0.50	0.02	1	6/ 2/09	6/3/09 13:37
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:09
Vanadium, Total	6020	**1.4**	I	µg/L	5.0	1.2	1	6/ 2/09	6/11/09 19:14
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 2/09	6/10/09 16:09

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 5/28/09 0725
Date Received: 5/29/09

Sample Name: MW-13A
Lab Code: J0902611-007

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 2/09	6/10/09 16:14
Arsenic, Total	6020	**17.5**		µg/L	0.50	0.20	1	6/ 2/09	6/10/09 16:14
Barium, Total	6020	**9.7**		µg/L	2.0	0.5	1	6/ 2/09	6/10/09 16:14
Beryllium, Total	6020	**0.2**	I	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:14
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 2/09	6/10/09 16:14
Chromium, Total	6020	**4.8**		µg/L	2.0	0.8	1	6/ 2/09	6/10/09 16:14
Cobalt, Total	6020	**0.8**	I	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:14
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 2/09	6/10/09 16:14
Iron, Total	6010B	**17800**		µg/L	50	4	1	6/ 2/09	6/3/09 13:41
Lead, Total	6020	**0.2**	I	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:14
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 3/09	6/4/09 13:10
Nickel, Total	6020	**1.8**	I	µg/L	2.0	0.3	1	6/ 2/09	6/10/09 16:14
Selenium, Total	6020	**1.5**	I	µg/L	2.0	0.8	1	6/ 2/09	6/10/09 16:14
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 2/09	6/10/09 16:14
Sodium, Total	6010B	**8.34**		mg/L	0.50	0.02	1	6/ 2/09	6/3/09 13:40
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:14
Vanadium, Total	6020	**4.3**	I	µg/L	5.0	1.2	1	6/ 2/09	6/11/09 19:18
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 2/09	6/10/09 16:14

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 5/28/09 0750
Date Received: 5/29/09

Sample Name: MW-13B
Lab Code: J0902611-008

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 2/09	6/10/09 16:19
Arsenic, Total	6020	**0.32**	I	µg/L	0.50	0.20	1	6/ 2/09	6/10/09 16:19
Barium, Total	6020	**15.8**		µg/L	2.0	0.5	1	6/ 2/09	6/10/09 16:19
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:19
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 2/09	6/10/09 16:19
Chromium, Total	6020	**2.0**		µg/L	2.0	0.8	1	6/ 2/09	6/10/09 16:19
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:19
Copper, Total	6020	**0.8**	I	µg/L	2.0	0.3	1	6/ 2/09	6/10/09 16:19
Iron, Total	6010B	**868**		µg/L	50	4	1	6/ 2/09	6/3/09 13:45
Lead, Total	6020	**1.6**		µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:19
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 3/09	6/4/09 13:11
Nickel, Total	6020	**0.7**	I	µg/L	2.0	0.3	1	6/ 2/09	6/10/09 16:19
Selenium, Total	6020	**1.1**	I	µg/L	2.0	0.8	1	6/ 2/09	6/10/09 16:19
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 2/09	6/10/09 16:19
Sodium, Total	6010B	**8.27**		mg/L	0.50	0.02	1	6/ 2/09	6/3/09 13:44
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:19
Vanadium, Total	6020	**1.6**	I	µg/L	5.0	1.2	1	6/ 2/09	6/11/09 19:21
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 2/09	6/10/09 16:19

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902611
Project:	JED SWDF/FQ1512A	**Date Collected:**	5/28/09 1422
Sample Matrix:	Water	**Date Received:**	5/29/09
Sample Name:	MW-23A		
Lab Code:	J0902611-009	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 2/09	6/10/09 16:24
Arsenic, Total	6020	**0.35**	I	µg/L	0.50	0.20	1	6/ 2/09	6/10/09 16:24
Barium, Total	6020	**54.8**		µg/L	2.0	0.5	1	6/ 2/09	6/10/09 16:24
Beryllium, Total	6020	**0.2**	I	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:24
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 2/09	6/10/09 16:24
Chromium, Total	6020	**2.0**		µg/L	2.0	0.8	1	6/ 2/09	6/10/09 16:24
Cobalt, Total	6020	**0.4**	I	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:24
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 2/09	6/10/09 16:24
Iron, Total	6010B	**5640**		µg/L	50	4	1	6/ 2/09	6/3/09 13:54
Lead, Total	6020	**0.4**	I	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:24
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 3/09	6/4/09 13:13
Nickel, Total	6020	**0.9**	I	µg/L	2.0	0.3	1	6/ 2/09	6/10/09 16:24
Selenium, Total	6020	**1.3**	I	µg/L	2.0	0.8	1	6/ 2/09	6/10/09 16:24
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 2/09	6/10/09 16:24
Sodium, Total	6010B	**25.6**		mg/L	0.50	0.02	1	6/ 2/09	6/3/09 13:54
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:24
Vanadium, Total	6020	**1.5**	I	µg/L	5.0	1.2	1	6/ 2/09	6/11/09 19:25
Zinc, Total	6020	**5**	I	µg/L	10	4	1	6/ 2/09	6/10/09 16:24

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902611
Project:	JED SWDF/FQ1512A	**Date Collected:**	5/28/09 1340
Sample Matrix:	Water	**Date Received:**	5/29/09
Sample Name:	MW-23B		
Lab Code:	J0902611-010	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 2/09	6/10/09 16:29
Arsenic, Total	6020	ND	U	µg/L	0.50	0.20	1	6/ 2/09	6/10/09 16:29
Barium, Total	6020	**10.5**		µg/L	2.0	0.5	1	6/ 2/09	6/10/09 16:29
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:29
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 2/09	6/10/09 16:29
Chromium, Total	6020	**1.9**	I	µg/L	2.0	0.8	1	6/ 2/09	6/10/09 16:29
Cobalt, Total	6020	**0.2**	I	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:29
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 2/09	6/10/09 16:29
Iron, Total	6010B	**510**		µg/L	50	4	1	6/ 2/09	6/3/09 13:58
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:29
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 3/09	6/4/09 13:14
Nickel, Total	6020	**0.7**	I	µg/L	2.0	0.3	1	6/ 2/09	6/10/09 16:29
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 2/09	6/10/09 16:29
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 2/09	6/10/09 16:29
Sodium, Total	6010B	**9.79**		mg/L	0.50	0.02	1	6/ 2/09	6/3/09 13:57
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:29
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	6/ 2/09	6/11/09 19:29
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 2/09	6/10/09 16:29

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902611
Project:	JED SWDF/FQ1512A	**Date Collected:**	5/28/09 0000
Sample Matrix:	Water	**Date Received:**	5/29/09
Sample Name:	DUP-1		
Lab Code:	J0902611-011	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 2/09	6/10/09 16:33
Arsenic, Total	6020	**2.00**		µg/L	0.50	0.20	1	6/ 2/09	6/10/09 16:33
Barium, Total	6020	**2.4**		µg/L	2.0	0.5	1	6/ 2/09	6/10/09 16:33
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:33
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 2/09	6/10/09 16:33
Chromium, Total	6020	**3.1**		µg/L	2.0	0.8	1	6/ 2/09	6/10/09 16:33
Cobalt, Total	6020	**0.2**	I	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:33
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 2/09	6/10/09 16:33
Iron, Total	6010B	**1500**		µg/L	50	4	1	6/ 2/09	6/3/09 14:01
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:33
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 3/09	6/4/09 12:48
Nickel, Total	6020	**1.8**	I	µg/L	2.0	0.3	1	6/ 2/09	6/10/09 16:33
Selenium, Total	6020	**1.2**	I	µg/L	2.0	0.8	1	6/ 2/09	6/10/09 16:33
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 2/09	6/10/09 16:33
Sodium, Total	6010B	**7.28**		mg/L	0.50	0.02	1	6/ 2/09	6/3/09 14:01
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/10/09 16:33
Vanadium, Total	6020	**4.0**	I	µg/L	5.0	1.2	1	6/ 2/09	6/11/09 19:33
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 2/09	6/10/09 16:33

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902611
Project:	JED SWDF/FQ1512A	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	J0902611-MB	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 2/09	6/8/09 13:10
Arsenic, Total	6020	ND	U	µg/L	0.50	0.20	1	6/ 2/09	6/8/09 13:10
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	6/ 2/09	6/8/09 13:10
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/8/09 13:10
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 2/09	6/8/09 13:10
Chromium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 2/09	6/8/09 13:10
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/8/09 13:10
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 2/09	6/8/09 13:10
Iron, Total	6010B	ND	U	µg/L	50	4	1	6/ 2/09	6/3/09 12:47
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/8/09 13:10
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 3/09	6/4/09 12:44
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 2/09	6/8/09 13:10
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 2/09	6/8/09 13:10
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 2/09	6/8/09 13:10
Sodium, Total	6010B	ND	U	mg/L	0.50	0.02	1	6/ 2/09	6/3/09 12:46
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 2/09	6/8/09 13:10
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	6/ 2/09	6/8/09 13:10
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 2/09	6/8/09 13:10

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902611
Date Collected : 05/28/09
Date Received : 05/29/09

Inorganic Parameters

Sample Name : MW-10A
Lab Code : J0902611-001
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/09/09 17:52	8.4	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	05/29/09 18:15	13	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/29/09 19:03	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/03/09 14:45	120	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902611
Date Collected : 05/28/09
Date Received : 05/29/09

Inorganic Parameters

Sample Name : MW-10B
Lab Code : J0902611-002
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/09/09 17:52	0.12	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	05/29/09 18:15	13	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/29/09 19:48	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/03/09 14:45	50	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902611
Date Collected : 05/28/09
Date Received : 05/29/09

Inorganic Parameters

Sample Name : MW-11A
Lab Code : J0902611-003
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/09/09 17:52	4.7	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	05/29/09 18:15	17	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/29/09 20:03	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/03/09 14:45	170	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902611
Date Collected : 05/28/09
Date Received : 05/29/09

Inorganic Parameters

Sample Name : MW-11B
Lab Code : J0902611-004
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/09/09 17:52	0.083	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	05/29/09 18:15	18	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/29/09 20:18	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/03/09 14:45	63	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902611
Date Collected : 05/28/09
Date Received : 05/29/09

Inorganic Parameters

Sample Name : MW-12A
Lab Code : J0902611-005
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/09/09 17:52	1.2	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	05/29/09 18:15	13	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/29/09 20:33	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/03/09 14:45	130	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902611
Date Collected : 05/28/09
Date Received : 05/29/09

Inorganic Parameters

Sample Name : MW-12B
Lab Code : J0902611-006
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/09/09 17:52	0.16	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	05/29/09 18:15	21	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/29/09 21:33	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/03/09 14:45	74	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902611
Date Collected : 05/28/09
Date Received : 05/29/09

Inorganic Parameters

Sample Name : MW-13A
Lab Code : J0902611-007
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/09/09 17:52	1.5	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	05/29/09 18:15	10	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/29/09 21:48	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/03/09 14:45	120	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902611
Date Collected : 05/28/09
Date Received : 05/29/09

Inorganic Parameters

Sample Name : MW-13B
Lab Code : J0902611-008
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/09/09 17:52	0.15	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	05/29/09 18:15	13	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/29/09 22:03	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/03/09 14:45	49	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902611
Date Collected : 05/28/09
Date Received : 05/29/09

Inorganic Parameters

Sample Name : MW-23A
Lab Code : J0902611-009
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/09/09 17:52	1.2	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	05/29/09 18:15	110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/29/09 22:18	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/03/09 14:45	200	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902611
Date Collected : 05/28/09
Date Received : 05/29/09

Inorganic Parameters

Sample Name : MW-23B
Lab Code : J0902611-010
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/09/09 17:52	0.12	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	05/29/09 18:15	18	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/29/09 22:33	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/03/09 14:45	46	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902611
Date Collected : 05/28/09
Date Received : 05/29/09

Inorganic Parameters

Sample Name : DUP-1
Lab Code : J0902611-011
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/09/09 17:52	8.6	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	05/29/09 18:15	13	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/29/09 22:48	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/03/09 14:45	120	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902611
Date Collected : NA
Date Received : NA

Inorganic Parameters

Sample Name : Method Blank
Lab Code : J0902611-MB
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/09/09 17:52	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	05/29/09 18:15	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/29/09 18:15	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/03/09 14:45	U	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611

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

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
MW-10A	J0902611-001	83	106	87	98
MW-10B	J0902611-002	80	112	87	98
MW-11A	J0902611-003	82	105	89	95
MW-11B	J0902611-004	76	108	89	94
MW-12A	J0902611-005	80	105	84	98
MW-12B	J0902611-006	79	104	87	98
MW-13A	J0902611-007	80	105	89	98
MW-13B	J0902611-008	77	105	84	101
MW-23A	J0902611-009	77	109	87	100
MW-23B	J0902611-010	78	108	90	99
DUP-1	J0902611-011	76	109	82	97
Trip Blanks	J0902611-012	77	104	83	98
Method Blank	JWG0901926-4	79	109	89	100
Lab Control Sample	JWG0901926-3	76	110	84	100

Surrogate Recovery Control Limits (%)

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

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

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Extracted: 06/05/2009
Date Analyzed: 06/05/2009

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

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0901926

	Lab Control Sample JWG0901926-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Chloromethane	18.6	20.0	93	67-135
Vinyl Chloride	22.9	20.0	115	78-132
Bromomethane	18.6	20.0	93	79-130
Chloroethane	27.9	20.0	140 *	74-126
Trichlorofluoromethane	20.0	20.0	100	74-134
1,1-Dichloroethene	20.5	20.0	102	78-130
Acetone	103	100	103	67-133
Iodomethane (Methyl Iodide)	87.5	100	87	68-134
Carbon Disulfide	124	100	124	76-138
Methylene Chloride	19.4	20.0	97	72-124
trans-1,2-Dichloroethene	19.2	20.0	96	77-124
Acrylonitrile	112	100	112	77-127
1,1-Dichloroethane	19.3	20.0	97	80-128
Vinyl Acetate	95.8	100	96	61-148
cis-1,2-Dichloroethene	19.1	20.0	96	80-126
2-Butanone (MEK)	108	100	108	73-127
Bromochloromethane	22.7	20.0	113	79-129
Chloroform	18.5	20.0	92	83-124
1,1,1-Trichloroethane (TCA)	18.7	20.0	93	79-124
Carbon Tetrachloride	18.5	20.0	92	81-125
Benzene	20.4	20.0	102	79-119
1,2-Dichloroethane (EDC)	16.9	20.0	84	80-124
Trichloroethene (TCE)	18.1	20.0	90	76-124
1,2-Dichloropropane	22.0	20.0	110	79-123
Dibromomethane	18.5	20.0	92	83-123
Bromodichloromethane	18.4	20.0	92	81-123
cis-1,3-Dichloropropene	20.2	20.0	101	86-123
4-Methyl-2-pentanone (MIBK)	110	100	110	72-136
Toluene	20.9	20.0	104	86-117
trans-1,3-Dichloropropene	20.1	20.0	100	83-124
1,1,2-Trichloroethane	19.4	20.0	97	86-114
Tetrachloroethene (PCE)	19.8	20.0	99	80-121
2-Hexanone	113	100	113	71-138
Dibromochloromethane	19.1	20.0	96	82-121
1,2-Dibromoethane (EDB)	19.6	20.0	98	88-117
Chlorobenzene	20.4	20.0	102	86-113

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

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

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Extracted: 06/05/2009
Date Analyzed: 06/05/2009

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

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0901926

Analyte Name	Lab Control Sample JWG0901926-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	18.9	20.0	95	85-117
Ethylbenzene	20.5	20.0	103	90-118
m,p-Xylenes	39.7	40.0	99	86-121
o-Xylene	20.8	20.0	104	89-119
Styrene	20.9	20.0	104	89-122
Bromoform	17.2	20.0	86	68-129
1,1,2,2-Tetrachloroethane	21.7	20.0	108	83-120
1,2,3-Trichloropropane	18.8	20.0	94	83-123
1,4-Dichlorobenzene	19.6	20.0	98	83-113
trans-1,4-Dichloro-2-butene	24.4	20.0	122	53-143
1,2-Dichlorobenzene	20.3	20.0	101	84-115
1,2-Dibromo-3-chloropropane (DBCP	17.6	20.0	88	62-123

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

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

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611

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

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
MW-10A	J0902611-001	120
MW-10B	J0902611-002	126
MW-11A	J0902611-003	122
MW-11B	J0902611-004	124
MW-12A	J0902611-005	119
MW-12B	J0902611-006	127
MW-13A	J0902611-007	126
MW-13B	J0902611-008	126
MW-23A	J0902611-009	127
MW-23B	J0902611-010	124
DUP-1	J0902611-011	125
Method Blank	JWG0901851-3	144
Lab Control Sample	JWG0901851-1	136
Duplicate Lab Control Sample	JWG0901851-2	138

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:	GeoSyntec Consultants	**Service Request:**	J0902611
Project:	JED SWDF/FQ1512A	**Date Extracted:**	06/01/2009
Sample Matrix:	Water	**Date Analyzed:**	06/03/2009

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

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	8011	**Basis:**	NA
		Level:	Low
		Extraction Lot:	JWG0901851

	Lab Control Sample JWG0901851-1 Lab Control Spike			Duplicate Lab Control Sample JWG0901851-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,2-Dibromoethane (EDB)	0.434	0.250	174 *	0.423	0.250	169 *	70-130	3	20
1,2-Dibromo-3-chloropropane (DBCP	0.338	0.250	135 *	0.378	0.250	151 *	70-130	11	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: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 5/28/09
Date Received: 5/29/09
Date Analyzed: 6/ 3/09

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-10A
Lab Code: J0902611-001

Units: mg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3010A

Analyte Name	Sample Result	Matrix Spike J0902611-MS1 Result	Expected	% Rec	Duplicate Matrix Spike J0902611-DMS1 Result	Expected	% Rec	% Rec Limits	RPD	RPD Limit
Sodium, Total	7.74	17.0	10.0	92	17.4	10.0	96	75 - 125	2	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 5/28/09
Date Received: 5/29/09
Date Analyzed: 6/ 3/09

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-10A
Lab Code: J0902611-001

Units: µg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3010A

Analyte Name	Sample Result	Matrix Spike J0902611-MS1 Result	Expected	% Rec	Duplicate Matrix Spike J0902611-DMS1 Result	Expected	% Rec	% Rec Limits	RPD	RPD Limit
Iron, Total	1570	3380	2000	91	3440	2000	94	75 - 125	2	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 5/28/09
Date Received: 5/29/09
Date Analyzed: 6/ 8/09

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-10B
Lab Code: J0902611-002

Units: µg/L
Basis: NA

Analytical Method: 6020
Prep Method: EPA 3020A

Analyte Name	Sample Result	Matrix Spike J0902611-MS2 Result	Expected	% Rec	Duplicate Matrix Spike J0902611-DMS2 Result	Expected	% Rec	% Rec Limits	RPD	RPD Limit
Antimony, Total	ND	48.6	50.0	97	49.1	50.0	98	75 - 125	1	20
Arsenic, Total	ND	47.6	50.0	95	47.4	50.0	95	75 - 125	0	20
Barium, Total	15.4	67.9	50.0	105	66.1	50.0	101	75 - 125	3	20
Beryllium, Total	ND	51.6	50.0	103	50.2	50.0	100	75 - 125	3	20
Cadmium, Total	ND	49.4	50.0	99	47.3	50.0	95	75 - 125	4	20
Chromium, Total	1.1	52.7	50.0	103	52.4	50.0	103	75 - 125	1	20
Cobalt, Total	0.3	53.6	50.0	107	53.1	50.0	105	75 - 125	1	20
Copper, Total	ND	53.2	50.0	106	52.4	50.0	105	75 - 125	2	20
Lead, Total	ND	53.0	50.0	106	52.2	50.0	104	75 - 125	2	20
Nickel, Total	0.4	51.7	50.0	103	51.6	50.0	102	75 - 125	0	20
Selenium, Total	ND	42.4	50.0	85	40.8	50.0	82	75 - 125	4	20
Silver, Total	ND	48.3	50.0	97	48.7	50.0	97	75 - 125	1	20
Thallium, Total	ND	52.1	50.0	104	51.4	50.0	103	75 - 125	1	20
Vanadium, Total	ND	53.4	50.0	107	53.0	50.0	106	75 - 125	1	20
Zinc, Total	ND	99.0	100	99	99.1	100	99	75 - 125	0	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Collected: 5/28/09
Date Received: 5/29/09
Date Analyzed: 6/ 4/09

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

Sample Name: DUP-1
Lab Code: J0902611-011

Units: µg/L
Basis: NA

Analytical Method: 7470A
Prep Method: Method

Analyte Name	Sample Result	Matrix Spike J0902611-MS3 Result	Expected	% Rec	Duplicate Matrix Spike J0902611-DMS3 Result	Expected	% Rec	% Rec Limits	RPD	RPD Limit
Mercury, Total	ND	4.80	5.00	96	4.77	5.00	95	75 - 125	1	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Analyzed: 6/ 3/09 - 6/ 8/09

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0902611-LCS2 Result	Expected	% Rec	% Rec Limits
Antimony, Total	6020	**50.9**	50.0	102	80 - 120
Arsenic, Total	6020	**49.0**	50.0	98	80 - 120
Barium, Total	6020	**53.6**	50.0	107	80 - 120
Beryllium, Total	6020	**51.9**	50.0	104	80 - 120
Cadmium, Total	6020	**49.6**	50.0	99	80 - 120
Chromium, Total	6020	**54.0**	50.0	108	80 - 120
Cobalt, Total	6020	**55.5**	50.0	111	80 - 120
Copper, Total	6020	**55.1**	50.0	110	80 - 120
Iron, Total	6010B	**1900**	2000	95	80 - 120
Lead, Total	6020	**54.0**	50.0	108	80 - 120
Nickel, Total	6020	**52.9**	50.0	106	80 - 120
Selenium, Total	6020	**47.1**	50.0	94	80 - 120
Silver, Total	6020	**51.7**	50.0	103	80 - 120
Thallium, Total	6020	**52.8**	50.0	106	80 - 120
Vanadium, Total	6020	**53.9**	50.0	108	80 - 120
Zinc, Total	6020	**102**	100	102	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Analyzed: 6/ 3/09

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0902611-LCS2 Result	Expected	% Rec	% Rec Limits
Sodium, Total	6010B	**10.1**	10.0	101	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902611
Date Analyzed: 6/ 4/09

Lab Control Sample Summary
Mercury, Total in Liquid Waste (Manual Cold-Vapor Technique)

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0902611-LCS1 Result	Expected	% Rec	Duplicate Lab Control Sample J0902611-DLCS1 Result	Expected	% Rec	% Rec Limits	RPD	RPD Limit
Mercury, Total	7470A	**4.95**	5.00	99	**5.02**	5.00	100	80 - 120	1	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902611
Date Collected : 05/28/09
Date Received : 05/29/09
Date Extracted : NA
Date Analyzed : 05/29/09

Duplicate Summary
Inorganic Parameters

Sample Name : MW-10A
Lab Code : J0902611-001DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Chloride	mg/L (ppm)	300.0	0.2	13	13	13	<1	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	U	U	U	-	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902611
Date Collected : 05/28/09
Date Received : 05/29/09
Date Extracted : NA
Date Analyzed : 05/29/09

Matrix Spike Summary
Inorganic Parameters

Sample Name : MW-10A
Lab Code : J0902611-001MS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Chloride	mg/L (ppm)	300.0	0.2	100	13	115	102	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	5.0	U	4.94	99	90-110	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	GeoSyntec Consultants	**Service Request :**	J0902611
Project Name :	JED SWDF	**Date Collected :**	NA
Project Number :	FQ1512A	**Date Received :**	NA
Sample Matrix :	WATER	**Date Extracted :**	NA
		Date Analyzed :	05/29-06/09/09

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Laboratory Control Sample
Lab Code : J0902611-LCS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	5.00	5.31	106	90-110	
Chloride	mg/L (ppm)	300.0	100	102	102	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	5.10	102	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	300	290	97	85-115	

Report By: Palimi

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

Client: GEOSYNTEC Service Request # J0902611

Project: JED SWDF

Cooler received on 5/29/09 and opened on 5/29/09 by 8JO

COURIER: (CAS) UPS FEDEX DHL CLIENT Tracking #

1	Were custody seals on outside of cooler?	(Yes)	No	N/A
2	Were seals intact, signed and dated?	(Yes)	No	N/A
3	Were custody papers properly filled out?	(Yes)	No	N/A
4	Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C) 2.6			
5	Correct Temperature?	(Yes)	No	N/A
6	Were Ice or Ice Packs present	(Yes)	No	N/A
7	Did all bottles arrive in good condition (unbroken, etc....)?	(Yes)	No	N/A
8	Were all bottle labels complete (sample ID, preservation, etc....)?	(Yes)	No	N/A
9	Did all bottle labels and tags agree with custody papers?	(Yes)	No	N/A
10	Were the correct bottles used for the tests indicated?	(Yes)	No	N/A
11	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) 6260

Preservative additions noted below

12	Were all samples received within analysis holding times?	(Yes)	No	N/A
13	Were VOA vials checked for absence of air bubbles? If present, note below	(Yes)	No	N/A
14	Where did the bottles originate?	(CAS)	Client	

Sample ID	Reagent	Manuf. Lot # or CAS Chem ID	ml added	Inititials

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

Client approval to run samples if discrepancies noted: Date

SR # : J 0902611 Date: 5.29.09 Initials: GB

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

	Bottle Code																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	40mL	40mL	40mL	40mL	125mL	125mL	125mL	125mL	250mL	250mL	250mL	250mL	250mL	250mL	250mL	500mL	500mL	500mL	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	5g	100mL	Misc.
Container	G	G	G	G	P	P	P	P	P	P	P	P	P	G	G	P	P	P	P	P	G	G	G	G	G	G	G	ENC	P	Misc.
Pres.		HCl	Sodium Thiosulfate	H2SO4		HCl	H2SO4	HNO3		H2SO4	HNO3	ZnAcetate NaOH	NaOH		HNO3		H2SO4	HNO3		HNO3		HCl	H2SO4						Sodium Thiosulfate	
Req. pH	N/A	<2	N/A	<2	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample #	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-		-	-	-				-	-
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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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PAGE 1 OF 2

SR #

CAS Contact JQ902611

Project Name: SED SWDF	Project Number: FQ1512A
Project Manager: Kirk Wills	Email Address: kwills@geosyntec.com
Company/Address: Geosyntec 14055 Riverdale Dr. Ste 300 Tampa, FL 33637	
Phone #: 813-558-0990	FAX#: 813-558-9726
Sampler's Signature: Joe Terry	Sampler's Printed Name: Joe Terry

ANALYSIS REQUESTED (Include Method Number and [redacted]

PRESERVATIVE: 1 0 2 3 0

NUMBER OF CONTAINERS: 8260 | 8011 | Metals | NH3 | TDS, Cl, NO3

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

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	#	8260	8011	Metals	NH3	TDS, Cl, NO3
MW-10A		5-28-09	1220	GW	9	X	X	X	X	X
MW-10B			1152							
MW-11A			1025							
MW-11B			1047							
MW-12A			0845							
MW-12B			0900							
MW-13A			0725							
MW-13B			0750							
MW-23A			1422							
MW-23B		↓	1340	↓	↓	↓	↓	↓	↓	↓

SPECIAL INSTRUCTIONS/COMMENTS

See QAPP ☐

TURNAROUND REQUIREMENTS

____ RUSH (SURCHARGES APPLY)

__X__ STANDARD

REQUESTED FAX DATE

REQUESTED REPORT DATE

REPORT REQUIREMENTS

____ I. Results Only

__X__ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

____ III. Results + QC and Calibration Summaries

____ IV. Data Validation Report with Raw Data

____ V. Speicalized Forms / Custom Report

Edata ____ Yes ____ No

INVOICE INFORMATION

PO#

BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Joe Terry	Signature:	Signature	Signature	Signature	Signature
Printed Name: Joe Terry	Printed Name:	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Geosyntec	Firm:	Firm	Firm	Firm	Firm
Date/Time: 5-29-09/1120	Date/Time: 5-29-09 1120	Date/Time	Date/Time	Date/Time	Date/Time

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

JSCOC-06/20/08

Columbia Analytical Services

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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SR # J0902611
CAS Contact

Project Name: JED SWDF	Project Number: FQ1512A
Project Manager: Kirk Wills	Email Address: kwills@geosyntec.com
Company/Address: Geosyntec 14055 Riveredge Dr. Ste 300 Tampa, FL 33637	
Phone #: 813-558-0990	FAX#: 813-558-9726
Sampler's Signature: Joe Terry	Sampler's Printed Name: Joe Terry

ANALYSIS REQUESTED (Include Method Number a[redacted]

PRESERVATIVE: 1 0 2 3 0

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	8260	8011	Metals	NH3	TDS, Cl, NO3	REMARKS/ ALTERNATE DESCRIPTION
DUP-1		5-28-09	—	GW	9	X	X	X	X	X	
Trip Blanks				W	2	X					

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

SPECIAL INSTRUCTIONS/COMMENTS

See QAPP ☐

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

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

INVOICE INFORMATION
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Joe Terry	Signature: Matthew Kelemen	Signature	Signature	Signature	Signature
Printed Name: Joe Terry	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Geosyntec	Firm	Firm	Firm	Firm	Firm
Date/Time: 5-29-09 / 1120	Date/Time: 5/29/09 1120	Date/Time	Date/Time	Date/Time	Date/Time

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

JSCOC-06/20/08

9143 Philips Highway, Suite 200 Jacksonville, FL 32256 (904) 739-2277 (904) 739-2011 fax

Columbia Analytical Services INC.
An Employee - Owned Company

June 17, 2009

Service Request No: J0902645

Kirk Wills
GeoSyntec Consultants
14055 Riveredge Drive
Suite 300
Tampa, FL 33637

Laboratory Results for: JED SWDF/FQ1512A

Dear Kirk:

Enclosed are the results of the sample(s) submitted to our laboratory on June 2, 2009. For your reference, these analyses have been assigned our service request number **J0902645**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. In accordance to the NELAC 2003 Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

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 87

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502 valid through 6/30/09. Other state accreditations include: Georgia, #958 valid through 6/30/09; Louisiana, #02086 valid through 6/30/09; Texas, #T104704197-06-TX valid through 5/31/09; North Carolina, #527 valid through 12/31/09; South Carolina, #96021001 valid through 6/30/09.

NELAP Accredited ACIL Seal of Excellence Award 100% Recycled

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	GeoSyntec Consultants	**Service Request No.:**	J0902645
Project:	JED SWDF	**Date Received:**	6/2/09
Sample Matrix:	Water		

CASE NARRATIVE

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

Sample Receipt

Ten water samples and one trip blank were received for analysis at Columbia Analytical Services on 6/2/09. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

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

Lab Control Sample Exceptions

The spike recovery of Chloroethane for Laboratory Control Sample (LCS) JWG0901911-3 was outside the upper control criterion. The spike recoveries of Chloroethane and Acrylonitrile for Laboratory Control Sample (LCS) JWG0901969-1 were outside the upper control criterion. The analytes in question were 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.

Batch QC Notes and Discussion

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

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.

Lab Control Sample Exceptions

The spike recoveries of 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane for Laboratory Control Sample (LCS) JWG0901867-1 and Duplicate laboratory Control Sample (DLCS) JWG0901867-2 were outside the upper

Approved by _____ **Date** 6/17/09

control criteria. The analytes in question were not detected in the associated field samples. The error associated with elevated recovery equates to high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Metals by ICP-MS/ICP-OES/CVAA

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

General Chemistry Parameters

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

Approved by _____ **Date** 6/17/09

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: GeoSyntec Consultants
Project: JED SWDF/FQ1512A

Service Request: J0902645

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J0902645-001	MW-9A	6/1/09	07:15
J0902645-002	MW-9B	6/1/09	07:40
J0902645-003	MW-8A	6/1/09	09:00
J0902645-004	MW-8B	6/1/09	10:10
J0902645-005	MW-7A	6/1/09	12:55
J0902645-006	MW-7B	6/1/09	13:20
J0902645-007	MW-6A	6/1/09	11:05
J0902645-008	MW-6B	6/1/09	11:40
J0902645-009	MW-5A	6/1/09	14:33
J0902645-010	MW-5B	6/1/09	15:05
J0902645-011	Trip Blank	6/1/09	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 06/01/2009
Date Received: 06/02/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-9A
Lab Code: J0902645-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
Vinyl Chloride	**1.1**		1.0	0.25	1	06/08/09	06/08/09	JWG0901911	
Bromomethane	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroethane	ND	UJ	5.0	0.19	1	06/08/09	06/08/09	JWG0901911	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/08/09	06/08/09	JWG0901911	
Acetone	ND	U	50	2.4	1	06/08/09	06/08/09	JWG0901911	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/08/09	06/08/09	JWG0901911	
Carbon Disulfide	ND	U	10	0.84	1	06/08/09	06/08/09	JWG0901911	
Methylene Chloride	ND	U	5.0	0.72	1	06/08/09	06/08/09	JWG0901911	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/08/09	06/08/09	JWG0901911	
Acrylonitrile	ND	U	10	0.59	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/08/09	06/08/09	JWG0901911	
Vinyl Acetate	ND	U	10	0.60	1	06/08/09	06/08/09	JWG0901911	
cis-1,2-Dichloroethene	**1.2**		1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
2-Butanone (MEK)	ND	U	10	0.56	1	06/08/09	06/08/09	JWG0901911	
Bromochloromethane	ND	U	5.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroform	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Benzene	**2.5**		1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/08/09	06/08/09	JWG0901911	
Dibromomethane	ND	U	5.0	0.12	1	06/08/09	06/08/09	JWG0901911	
Bromodichloromethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/08/09	06/08/09	JWG0901911	
Toluene	**0.57**	I	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/08/09	06/08/09	JWG0901911	
2-Hexanone	ND	U	25	0.36	1	06/08/09	06/08/09	JWG0901911	
Dibromochloromethane	ND	U	1.0	0.11	1	06/08/09	06/08/09	JWG0901911	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 06/01/2009
Date Received: 06/02/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-9A
Lab Code: J0902645-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Chlorobenzene	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Ethylbenzene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
m,p-Xylenes	**0.23**	I	2.0	0.22	1	06/08/09	06/08/09	JWG0901911	
o-Xylene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Styrene	ND	U	1.0	0.051	1	06/08/09	06/08/09	JWG0901911	
Bromoform	ND	U	2.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/08/09	06/08/09	JWG0901911	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/08/09	06/08/09	JWG0901911	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	78	71-122	06/08/09	Acceptable
4-Bromofluorobenzene	105	75-120	06/08/09	Acceptable
Dibromofluoromethane	89	82-116	06/08/09	Acceptable
Toluene-d8	96	88-117	06/08/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 06/01/2009
Date Received: 06/02/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-9B
Lab Code: J0902645-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
Vinyl Chloride	ND	U	1.0	0.25	1	06/08/09	06/08/09	JWG0901911	
Bromomethane	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroethane	ND	UJ	5.0	0.19	1	06/08/09	06/08/09	JWG0901911	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/08/09	06/08/09	JWG0901911	
Acetone	ND	U	50	2.4	1	06/08/09	06/08/09	JWG0901911	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/08/09	06/08/09	JWG0901911	
Carbon Disulfide	ND	U	10	0.84	1	06/08/09	06/08/09	JWG0901911	
Methylene Chloride	ND	U	5.0	0.72	1	06/08/09	06/08/09	JWG0901911	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/08/09	06/08/09	JWG0901911	
Acrylonitrile	ND	U	10	0.59	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/08/09	06/08/09	JWG0901911	
Vinyl Acetate	ND	U	10	0.60	1	06/08/09	06/08/09	JWG0901911	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
2-Butanone (MEK)	ND	U	10	0.56	1	06/08/09	06/08/09	JWG0901911	
Bromochloromethane	ND	U	5.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroform	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Benzene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/08/09	06/08/09	JWG0901911	
Dibromomethane	ND	U	5.0	0.12	1	06/08/09	06/08/09	JWG0901911	
Bromodichloromethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/08/09	06/08/09	JWG0901911	
Toluene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/08/09	06/08/09	JWG0901911	
2-Hexanone	ND	U	25	0.36	1	06/08/09	06/08/09	JWG0901911	
Dibromochloromethane	ND	U	1.0	0.11	1	06/08/09	06/08/09	JWG0901911	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 06/01/2009
Date Received: 06/02/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-9B
Lab Code: J0902645-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Chlorobenzene	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Ethylbenzene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
m,p-Xylenes	ND	U	2.0	0.22	1	06/08/09	06/08/09	JWG0901911	
o-Xylene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Styrene	ND	U	1.0	0.051	1	06/08/09	06/08/09	JWG0901911	
Bromoform	ND	U	2.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/08/09	06/08/09	JWG0901911	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/08/09	06/08/09	JWG0901911	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	77	71-122	06/08/09	Acceptable
4-Bromofluorobenzene	109	75-120	06/08/09	Acceptable
Dibromofluoromethane	84	82-116	06/08/09	Acceptable
Toluene-d8	96	88-117	06/08/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 06/01/2009
Date Received: 06/02/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-8A
Lab Code: J0902645-003

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/10/09	06/10/09	JWG0901969	
Vinyl Chloride	ND	U	1.0	0.25	1	06/10/09	06/10/09	JWG0901969	
Bromomethane	ND	U	1.0	0.14	1	06/10/09	06/10/09	JWG0901969	
Chloroethane	ND	UJ	5.0	0.19	1	06/10/09	06/10/09	JWG0901969	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/10/09	06/10/09	JWG0901969	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/10/09	06/10/09	JWG0901969	
Acetone	ND	U	50	2.4	1	06/10/09	06/10/09	JWG0901969	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/10/09	06/10/09	JWG0901969	
Carbon Disulfide	ND	U	10	0.84	1	06/10/09	06/10/09	JWG0901969	
Methylene Chloride	ND	U	5.0	0.72	1	06/10/09	06/10/09	JWG0901969	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/10/09	06/10/09	JWG0901969	
Acrylonitrile	ND	UJ	10	0.59	1	06/10/09	06/10/09	JWG0901969	J(3)
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/10/09	06/10/09	JWG0901969	
Vinyl Acetate	ND	U	10	0.60	1	06/10/09	06/10/09	JWG0901969	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/10/09	06/10/09	JWG0901969	
2-Butanone (MEK)	ND	U	10	0.56	1	06/10/09	06/10/09	JWG0901969	
Bromochloromethane	ND	U	5.0	0.14	1	06/10/09	06/10/09	JWG0901969	
Chloroform	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901969	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/10/09	06/10/09	JWG0901969	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/10/09	06/10/09	JWG0901969	
Benzene	ND	U	1.0	0.52	1	06/10/09	06/10/09	JWG0901969	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/10/09	06/10/09	JWG0901969	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/10/09	06/10/09	JWG0901969	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/10/09	06/10/09	JWG0901969	
Dibromomethane	ND	U	5.0	0.12	1	06/10/09	06/10/09	JWG0901969	
Bromodichloromethane	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901969	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/10/09	06/10/09	JWG0901969	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/10/09	06/10/09	JWG0901969	
Toluene	ND	U	1.0	0.52	1	06/10/09	06/10/09	JWG0901969	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/10/09	06/10/09	JWG0901969	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/10/09	06/10/09	JWG0901969	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/10/09	06/10/09	JWG0901969	
2-Hexanone	ND	U	25	0.36	1	06/10/09	06/10/09	JWG0901969	
Dibromochloromethane	ND	U	1.0	0.11	1	06/10/09	06/10/09	JWG0901969	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 06/01/2009
Date Received: 06/02/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-8A
Lab Code: J0902645-003

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/10/09	06/10/09	JWG0901969	
Chlorobenzene	ND	U	1.0	0.15	1	06/10/09	06/10/09	JWG0901969	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901969	
Ethylbenzene	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901969	
m,p-Xylenes	ND	U	2.0	0.22	1	06/10/09	06/10/09	JWG0901969	
o-Xylene	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901969	
Styrene	ND	U	1.0	0.051	1	06/10/09	06/10/09	JWG0901969	
Bromoform	ND	U	2.0	0.12	1	06/10/09	06/10/09	JWG0901969	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/10/09	06/10/09	JWG0901969	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/10/09	06/10/09	JWG0901969	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/10/09	06/10/09	JWG0901969	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/10/09	06/10/09	JWG0901969	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/10/09	06/10/09	JWG0901969	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/10/09	06/10/09	JWG0901969	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	71-122	06/10/09	Acceptable
4-Bromofluorobenzene	116	75-120	06/10/09	Acceptable
Dibromofluoromethane	99	82-116	06/10/09	Acceptable
Toluene-d8	105	88-117	06/10/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 06/01/2009
Date Received: 06/02/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-8B
Lab Code: J0902645-004

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
Vinyl Chloride	ND	U	1.0	0.25	1	06/08/09	06/08/09	JWG0901911	
Bromomethane	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroethane	ND	UJ	5.0	0.19	1	06/08/09	06/08/09	JWG0901911	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/08/09	06/08/09	JWG0901911	
Acetone	ND	U	50	2.4	1	06/08/09	06/08/09	JWG0901911	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/08/09	06/08/09	JWG0901911	
Carbon Disulfide	ND	U	10	0.84	1	06/08/09	06/08/09	JWG0901911	
Methylene Chloride	ND	U	5.0	0.72	1	06/08/09	06/08/09	JWG0901911	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/08/09	06/08/09	JWG0901911	
Acrylonitrile	ND	U	10	0.59	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/08/09	06/08/09	JWG0901911	
Vinyl Acetate	ND	U	10	0.60	1	06/08/09	06/08/09	JWG0901911	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
2-Butanone (MEK)	ND	U	10	0.56	1	06/08/09	06/08/09	JWG0901911	
Bromochloromethane	ND	U	5.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroform	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Benzene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/08/09	06/08/09	JWG0901911	
Dibromomethane	ND	U	5.0	0.12	1	06/08/09	06/08/09	JWG0901911	
Bromodichloromethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/08/09	06/08/09	JWG0901911	
Toluene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/08/09	06/08/09	JWG0901911	
2-Hexanone	ND	U	25	0.36	1	06/08/09	06/08/09	JWG0901911	
Dibromochloromethane	ND	U	1.0	0.11	1	06/08/09	06/08/09	JWG0901911	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 06/01/2009
Date Received: 06/02/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-8B
Lab Code: J0902645-004

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Chlorobenzene	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Ethylbenzene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
m,p-Xylenes	ND	U	2.0	0.22	1	06/08/09	06/08/09	JWG0901911	
o-Xylene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Styrene	ND	U	1.0	0.051	1	06/08/09	06/08/09	JWG0901911	
Bromoform	ND	U	2.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/08/09	06/08/09	JWG0901911	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/08/09	06/08/09	JWG0901911	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	81	71-122	06/08/09	Acceptable
4-Bromofluorobenzene	104	75-120	06/08/09	Acceptable
Dibromofluoromethane	88	82-116	06/08/09	Acceptable
Toluene-d8	93	88-117	06/08/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 06/01/2009
Date Received: 06/02/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-7A
Lab Code: J0902645-005

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/10/09	06/10/09	JWG0901969	
Vinyl Chloride	ND	U	1.0	0.25	1	06/10/09	06/10/09	JWG0901969	
Bromomethane	ND	U	1.0	0.14	1	06/10/09	06/10/09	JWG0901969	
Chloroethane	ND	UJ	5.0	0.19	1	06/10/09	06/10/09	JWG0901969	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/10/09	06/10/09	JWG0901969	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/10/09	06/10/09	JWG0901969	
Acetone	ND	U	50	2.4	1	06/10/09	06/10/09	JWG0901969	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/10/09	06/10/09	JWG0901969	
Carbon Disulfide	ND	U	10	0.84	1	06/10/09	06/10/09	JWG0901969	
Methylene Chloride	ND	U	5.0	0.72	1	06/10/09	06/10/09	JWG0901969	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/10/09	06/10/09	JWG0901969	
Acrylonitrile	ND	UJ	10	0.59	1	06/10/09	06/10/09	JWG0901969	J(3)
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/10/09	06/10/09	JWG0901969	
Vinyl Acetate	ND	U	10	0.60	1	06/10/09	06/10/09	JWG0901969	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/10/09	06/10/09	JWG0901969	
2-Butanone (MEK)	ND	U	10	0.56	1	06/10/09	06/10/09	JWG0901969	
Bromochloromethane	ND	U	5.0	0.14	1	06/10/09	06/10/09	JWG0901969	
Chloroform	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901969	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/10/09	06/10/09	JWG0901969	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/10/09	06/10/09	JWG0901969	
Benzene	ND	U	1.0	0.52	1	06/10/09	06/10/09	JWG0901969	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/10/09	06/10/09	JWG0901969	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/10/09	06/10/09	JWG0901969	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/10/09	06/10/09	JWG0901969	
Dibromomethane	ND	U	5.0	0.12	1	06/10/09	06/10/09	JWG0901969	
Bromodichloromethane	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901969	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/10/09	06/10/09	JWG0901969	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/10/09	06/10/09	JWG0901969	
Toluene	ND	U	1.0	0.52	1	06/10/09	06/10/09	JWG0901969	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/10/09	06/10/09	JWG0901969	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/10/09	06/10/09	JWG0901969	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/10/09	06/10/09	JWG0901969	
2-Hexanone	ND	U	25	0.36	1	06/10/09	06/10/09	JWG0901969	
Dibromochloromethane	ND	U	1.0	0.11	1	06/10/09	06/10/09	JWG0901969	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 06/01/2009
Date Received: 06/02/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-7A
Lab Code: J0902645-005

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/10/09	06/10/09	JWG0901969	
Chlorobenzene	ND	U	1.0	0.15	1	06/10/09	06/10/09	JWG0901969	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901969	
Ethylbenzene	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901969	
m,p-Xylenes	ND	U	2.0	0.22	1	06/10/09	06/10/09	JWG0901969	
o-Xylene	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901969	
Styrene	ND	U	1.0	0.051	1	06/10/09	06/10/09	JWG0901969	
Bromoform	ND	U	2.0	0.12	1	06/10/09	06/10/09	JWG0901969	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/10/09	06/10/09	JWG0901969	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/10/09	06/10/09	JWG0901969	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/10/09	06/10/09	JWG0901969	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/10/09	06/10/09	JWG0901969	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/10/09	06/10/09	JWG0901969	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/10/09	06/10/09	JWG0901969	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	87	71-122	06/10/09	Acceptable
4-Bromofluorobenzene	115	75-120	06/10/09	Acceptable
Dibromofluoromethane	96	82-116	06/10/09	Acceptable
Toluene-d8	102	88-117	06/10/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 06/01/2009
Date Received: 06/02/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-7B
Lab Code: J0902645-006

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
Vinyl Chloride	ND	U	1.0	0.25	1	06/08/09	06/08/09	JWG0901911	
Bromomethane	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroethane	ND	UJ	5.0	0.19	1	06/08/09	06/08/09	JWG0901911	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/08/09	06/08/09	JWG0901911	
Acetone	ND	U	50	2.4	1	06/08/09	06/08/09	JWG0901911	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/08/09	06/08/09	JWG0901911	
Carbon Disulfide	ND	U	10	0.84	1	06/08/09	06/08/09	JWG0901911	
Methylene Chloride	ND	U	5.0	0.72	1	06/08/09	06/08/09	JWG0901911	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/08/09	06/08/09	JWG0901911	
Acrylonitrile	ND	U	10	0.59	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/08/09	06/08/09	JWG0901911	
Vinyl Acetate	ND	U	10	0.60	1	06/08/09	06/08/09	JWG0901911	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
2-Butanone (MEK)	ND	U	10	0.56	1	06/08/09	06/08/09	JWG0901911	
Bromochloromethane	ND	U	5.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroform	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Benzene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/08/09	06/08/09	JWG0901911	
Dibromomethane	ND	U	5.0	0.12	1	06/08/09	06/08/09	JWG0901911	
Bromodichloromethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/08/09	06/08/09	JWG0901911	
Toluene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/08/09	06/08/09	JWG0901911	
2-Hexanone	ND	U	25	0.36	1	06/08/09	06/08/09	JWG0901911	
Dibromochloromethane	ND	U	1.0	0.11	1	06/08/09	06/08/09	JWG0901911	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 06/01/2009
Date Received: 06/02/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-7B
Lab Code: J0902645-006

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Chlorobenzene	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Ethylbenzene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
m,p-Xylenes	ND	U	2.0	0.22	1	06/08/09	06/08/09	JWG0901911	
o-Xylene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Styrene	ND	U	1.0	0.051	1	06/08/09	06/08/09	JWG0901911	
Bromoform	ND	U	2.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/08/09	06/08/09	JWG0901911	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/08/09	06/08/09	JWG0901911	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	77	71-122	06/08/09	Acceptable
4-Bromofluorobenzene	107	75-120	06/08/09	Acceptable
Dibromofluoromethane	87	82-116	06/08/09	Acceptable
Toluene-d8	94	88-117	06/08/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 06/01/2009
Date Received: 06/02/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-6A
Lab Code: J0902645-007

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
Vinyl Chloride	ND	U	1.0	0.25	1	06/08/09	06/08/09	JWG0901911	
Bromomethane	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroethane	ND	UJ	5.0	0.19	1	06/08/09	06/08/09	JWG0901911	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/08/09	06/08/09	JWG0901911	
Acetone	ND	U	50	2.4	1	06/08/09	06/08/09	JWG0901911	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/08/09	06/08/09	JWG0901911	
Carbon Disulfide	ND	U	10	0.84	1	06/08/09	06/08/09	JWG0901911	
Methylene Chloride	ND	U	5.0	0.72	1	06/08/09	06/08/09	JWG0901911	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/08/09	06/08/09	JWG0901911	
Acrylonitrile	ND	U	10	0.59	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/08/09	06/08/09	JWG0901911	
Vinyl Acetate	ND	U	10	0.60	1	06/08/09	06/08/09	JWG0901911	
cis-1,2-Dichloroethene	**0.21**	I	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
2-Butanone (MEK)	ND	U	10	0.56	1	06/08/09	06/08/09	JWG0901911	
Bromochloromethane	ND	U	5.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroform	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Benzene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/08/09	06/08/09	JWG0901911	
Dibromomethane	ND	U	5.0	0.12	1	06/08/09	06/08/09	JWG0901911	
Bromodichloromethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/08/09	06/08/09	JWG0901911	
Toluene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/08/09	06/08/09	JWG0901911	
2-Hexanone	ND	U	25	0.36	1	06/08/09	06/08/09	JWG0901911	
Dibromochloromethane	ND	U	1.0	0.11	1	06/08/09	06/08/09	JWG0901911	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 06/01/2009
Date Received: 06/02/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-6A
Lab Code: J0902645-007

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Chlorobenzene	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Ethylbenzene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
m,p-Xylenes	ND	U	2.0	0.22	1	06/08/09	06/08/09	JWG0901911	
o-Xylene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Styrene	ND	U	1.0	0.051	1	06/08/09	06/08/09	JWG0901911	
Bromoform	ND	U	2.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/08/09	06/08/09	JWG0901911	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/08/09	06/08/09	JWG0901911	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	79	71-122	06/08/09	Acceptable
4-Bromofluorobenzene	107	75-120	06/08/09	Acceptable
Dibromofluoromethane	91	82-116	06/08/09	Acceptable
Toluene-d8	97	88-117	06/08/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 06/01/2009
Date Received: 06/02/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-6B
Lab Code: J0902645-008

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
Vinyl Chloride	ND	U	1.0	0.25	1	06/08/09	06/08/09	JWG0901911	
Bromomethane	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroethane	ND	UJ	5.0	0.19	1	06/08/09	06/08/09	JWG0901911	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/08/09	06/08/09	JWG0901911	
Acetone	ND	U	50	2.4	1	06/08/09	06/08/09	JWG0901911	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/08/09	06/08/09	JWG0901911	
Carbon Disulfide	ND	U	10	0.84	1	06/08/09	06/08/09	JWG0901911	
Methylene Chloride	ND	U	5.0	0.72	1	06/08/09	06/08/09	JWG0901911	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/08/09	06/08/09	JWG0901911	
Acrylonitrile	ND	U	10	0.59	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/08/09	06/08/09	JWG0901911	
Vinyl Acetate	ND	U	10	0.60	1	06/08/09	06/08/09	JWG0901911	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
2-Butanone (MEK)	ND	U	10	0.56	1	06/08/09	06/08/09	JWG0901911	
Bromochloromethane	ND	U	5.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroform	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Benzene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/08/09	06/08/09	JWG0901911	
Dibromomethane	ND	U	5.0	0.12	1	06/08/09	06/08/09	JWG0901911	
Bromodichloromethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/08/09	06/08/09	JWG0901911	
Toluene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/08/09	06/08/09	JWG0901911	
2-Hexanone	ND	U	25	0.36	1	06/08/09	06/08/09	JWG0901911	
Dibromochloromethane	ND	U	1.0	0.11	1	06/08/09	06/08/09	JWG0901911	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 06/01/2009
Date Received: 06/02/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-6B
Lab Code: J0902645-008

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Chlorobenzene	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Ethylbenzene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
m,p-Xylenes	ND	U	2.0	0.22	1	06/08/09	06/08/09	JWG0901911	
o-Xylene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Styrene	ND	U	1.0	0.051	1	06/08/09	06/08/09	JWG0901911	
Bromoform	ND	U	2.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/08/09	06/08/09	JWG0901911	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/08/09	06/08/09	JWG0901911	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	78	71-122	06/08/09	Acceptable
4-Bromofluorobenzene	112	75-120	06/08/09	Acceptable
Dibromofluoromethane	85	82-116	06/08/09	Acceptable
Toluene-d8	98	88-117	06/08/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 06/01/2009
Date Received: 06/02/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-5A
Lab Code: J0902645-009

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
Vinyl Chloride	ND	U	1.0	0.25	1	06/08/09	06/08/09	JWG0901911	
Bromomethane	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroethane	ND	UJ	5.0	0.19	1	06/08/09	06/08/09	JWG0901911	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/08/09	06/08/09	JWG0901911	
Acetone	**270**		50	2.4	1	06/08/09	06/08/09	JWG0901911	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/08/09	06/08/09	JWG0901911	
Carbon Disulfide	ND	U	10	0.84	1	06/08/09	06/08/09	JWG0901911	
Methylene Chloride	ND	U	5.0	0.72	1	06/08/09	06/08/09	JWG0901911	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/08/09	06/08/09	JWG0901911	
Acrylonitrile	ND	U	10	0.59	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/08/09	06/08/09	JWG0901911	
Vinyl Acetate	ND	U	10	0.60	1	06/08/09	06/08/09	JWG0901911	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
2-Butanone (MEK)	**130**		10	0.56	1	06/08/09	06/08/09	JWG0901911	
Bromochloromethane	ND	U	5.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroform	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Benzene	**0.65**	I	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/08/09	06/08/09	JWG0901911	
Dibromomethane	ND	U	5.0	0.12	1	06/08/09	06/08/09	JWG0901911	
Bromodichloromethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/08/09	06/08/09	JWG0901911	
Toluene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/08/09	06/08/09	JWG0901911	
2-Hexanone	**1.6**	I	25	0.36	1	06/08/09	06/08/09	JWG0901911	
Dibromochloromethane	ND	U	1.0	0.11	1	06/08/09	06/08/09	JWG0901911	

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	J0902645
Project:	JED SWDF/FQ1512A	**Date Collected:**	06/01/2009
Sample Matrix:	Water	**Date Received:**	06/02/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-5A	**Units:**	ug/L
Lab Code:	J0902645-009	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Chlorobenzene	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Ethylbenzene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
m,p-Xylenes	ND	U	2.0	0.22	1	06/08/09	06/08/09	JWG0901911	
o-Xylene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Styrene	ND	U	1.0	0.051	1	06/08/09	06/08/09	JWG0901911	
Bromoform	ND	U	2.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/08/09	06/08/09	JWG0901911	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/08/09	06/08/09	JWG0901911	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	78	71-122	06/08/09	Acceptable
4-Bromofluorobenzene	111	75-120	06/08/09	Acceptable
Dibromofluoromethane	87	82-116	06/08/09	Acceptable
Toluene-d8	98	88-117	06/08/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 06/01/2009
Date Received: 06/02/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-5B
Lab Code: J0902645-010

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
Vinyl Chloride	ND	U	1.0	0.25	1	06/08/09	06/08/09	JWG0901911	
Bromomethane	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroethane	ND	UJ	5.0	0.19	1	06/08/09	06/08/09	JWG0901911	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/08/09	06/08/09	JWG0901911	
Acetone	ND	U	50	2.4	1	06/08/09	06/08/09	JWG0901911	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/08/09	06/08/09	JWG0901911	
Carbon Disulfide	ND	U	10	0.84	1	06/08/09	06/08/09	JWG0901911	
Methylene Chloride	ND	U	5.0	0.72	1	06/08/09	06/08/09	JWG0901911	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/08/09	06/08/09	JWG0901911	
Acrylonitrile	ND	U	10	0.59	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/08/09	06/08/09	JWG0901911	
Vinyl Acetate	ND	U	10	0.60	1	06/08/09	06/08/09	JWG0901911	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
2-Butanone (MEK)	ND	U	10	0.56	1	06/08/09	06/08/09	JWG0901911	
Bromochloromethane	ND	U	5.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroform	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Benzene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/08/09	06/08/09	JWG0901911	
Dibromomethane	ND	U	5.0	0.12	1	06/08/09	06/08/09	JWG0901911	
Bromodichloromethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/08/09	06/08/09	JWG0901911	
Toluene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/08/09	06/08/09	JWG0901911	
2-Hexanone	ND	U	25	0.36	1	06/08/09	06/08/09	JWG0901911	
Dibromochloromethane	ND	U	1.0	0.11	1	06/08/09	06/08/09	JWG0901911	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 06/01/2009
Date Received: 06/02/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-5B
Lab Code: J0902645-010

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Chlorobenzene	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Ethylbenzene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
m,p-Xylenes	ND	U	2.0	0.22	1	06/08/09	06/08/09	JWG0901911	
o-Xylene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Styrene	ND	U	1.0	0.051	1	06/08/09	06/08/09	JWG0901911	
Bromoform	ND	U	2.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/08/09	06/08/09	JWG0901911	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/08/09	06/08/09	JWG0901911	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	81	71-122	06/08/09	Acceptable
4-Bromofluorobenzene	103	75-120	06/08/09	Acceptable
Dibromofluoromethane	86	82-116	06/08/09	Acceptable
Toluene-d8	95	88-117	06/08/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 06/01/2009
Date Received: 06/02/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J0902645-011

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
Vinyl Chloride	ND	U	1.0	0.25	1	06/08/09	06/08/09	JWG0901911	
Bromomethane	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroethane	ND	UJ	5.0	0.19	1	06/08/09	06/08/09	JWG0901911	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/08/09	06/08/09	JWG0901911	
Acetone	ND	U	50	2.4	1	06/08/09	06/08/09	JWG0901911	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/08/09	06/08/09	JWG0901911	
Carbon Disulfide	ND	U	10	0.84	1	06/08/09	06/08/09	JWG0901911	
Methylene Chloride	ND	U	5.0	0.72	1	06/08/09	06/08/09	JWG0901911	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/08/09	06/08/09	JWG0901911	
Acrylonitrile	ND	U	10	0.59	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/08/09	06/08/09	JWG0901911	
Vinyl Acetate	ND	U	10	0.60	1	06/08/09	06/08/09	JWG0901911	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
2-Butanone (MEK)	ND	U	10	0.56	1	06/08/09	06/08/09	JWG0901911	
Bromochloromethane	ND	U	5.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroform	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Benzene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/08/09	06/08/09	JWG0901911	
Dibromomethane	ND	U	5.0	0.12	1	06/08/09	06/08/09	JWG0901911	
Bromodichloromethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/08/09	06/08/09	JWG0901911	
Toluene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/08/09	06/08/09	JWG0901911	
2-Hexanone	ND	U	25	0.36	1	06/08/09	06/08/09	JWG0901911	
Dibromochloromethane	ND	U	1.0	0.11	1	06/08/09	06/08/09	JWG0901911	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 06/01/2009
Date Received: 06/02/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J0902645-011

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Chlorobenzene	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Ethylbenzene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
m,p-Xylenes	ND	U	2.0	0.22	1	06/08/09	06/08/09	JWG0901911	
o-Xylene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Styrene	ND	U	1.0	0.051	1	06/08/09	06/08/09	JWG0901911	
Bromoform	ND	U	2.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/08/09	06/08/09	JWG0901911	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/08/09	06/08/09	JWG0901911	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	76	71-122	06/08/09	Acceptable
4-Bromofluorobenzene	104	75-120	06/08/09	Acceptable
Dibromofluoromethane	83	82-116	06/08/09	Acceptable
Toluene-d8	95	88-117	06/08/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0901911-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
Vinyl Chloride	ND	U	1.0	0.25	1	06/08/09	06/08/09	JWG0901911	
Bromomethane	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroethane	ND	UJ	5.0	0.19	1	06/08/09	06/08/09	JWG0901911	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/08/09	06/08/09	JWG0901911	
Acetone	ND	U	50	2.4	1	06/08/09	06/08/09	JWG0901911	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/08/09	06/08/09	JWG0901911	
Carbon Disulfide	ND	U	10	0.84	1	06/08/09	06/08/09	JWG0901911	
Methylene Chloride	ND	U	5.0	0.72	1	06/08/09	06/08/09	JWG0901911	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/08/09	06/08/09	JWG0901911	
Acrylonitrile	ND	U	10	0.59	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/08/09	06/08/09	JWG0901911	
Vinyl Acetate	ND	U	10	0.60	1	06/08/09	06/08/09	JWG0901911	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
2-Butanone (MEK)	ND	U	10	0.56	1	06/08/09	06/08/09	JWG0901911	
Bromochloromethane	ND	U	5.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroform	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Benzene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/08/09	06/08/09	JWG0901911	
Dibromomethane	ND	U	5.0	0.12	1	06/08/09	06/08/09	JWG0901911	
Bromodichloromethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/08/09	06/08/09	JWG0901911	
Toluene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/08/09	06/08/09	JWG0901911	
2-Hexanone	ND	U	25	0.36	1	06/08/09	06/08/09	JWG0901911	
Dibromochloromethane	ND	U	1.0	0.11	1	06/08/09	06/08/09	JWG0901911	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0901911-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Chlorobenzene	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Ethylbenzene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
m,p-Xylenes	ND	U	2.0	0.22	1	06/08/09	06/08/09	JWG0901911	
o-Xylene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Styrene	ND	U	1.0	0.051	1	06/08/09	06/08/09	JWG0901911	
Bromoform	ND	U	2.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/08/09	06/08/09	JWG0901911	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/08/09	06/08/09	JWG0901911	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	76	71-122	06/08/09	Acceptable
4-Bromofluorobenzene	110	75-120	06/08/09	Acceptable
Dibromofluoromethane	84	82-116	06/08/09	Acceptable
Toluene-d8	97	88-117	06/08/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0901969-2

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/10/09	06/10/09	JWG0901969	
Vinyl Chloride	ND	U	1.0	0.25	1	06/10/09	06/10/09	JWG0901969	
Bromomethane	ND	U	1.0	0.14	1	06/10/09	06/10/09	JWG0901969	
Chloroethane	ND	UJ	5.0	0.19	1	06/10/09	06/10/09	JWG0901969	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/10/09	06/10/09	JWG0901969	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/10/09	06/10/09	JWG0901969	
Acetone	ND	U	50	2.4	1	06/10/09	06/10/09	JWG0901969	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/10/09	06/10/09	JWG0901969	
Carbon Disulfide	ND	U	10	0.84	1	06/10/09	06/10/09	JWG0901969	
Methylene Chloride	ND	U	5.0	0.72	1	06/10/09	06/10/09	JWG0901969	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/10/09	06/10/09	JWG0901969	
Acrylonitrile	ND	UJ	10	0.59	1	06/10/09	06/10/09	JWG0901969	J(3)
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/10/09	06/10/09	JWG0901969	
Vinyl Acetate	ND	U	10	0.60	1	06/10/09	06/10/09	JWG0901969	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/10/09	06/10/09	JWG0901969	
2-Butanone (MEK)	ND	U	10	0.56	1	06/10/09	06/10/09	JWG0901969	
Bromochloromethane	ND	U	5.0	0.14	1	06/10/09	06/10/09	JWG0901969	
Chloroform	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901969	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/10/09	06/10/09	JWG0901969	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/10/09	06/10/09	JWG0901969	
Benzene	ND	U	1.0	0.52	1	06/10/09	06/10/09	JWG0901969	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/10/09	06/10/09	JWG0901969	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/10/09	06/10/09	JWG0901969	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/10/09	06/10/09	JWG0901969	
Dibromomethane	ND	U	5.0	0.12	1	06/10/09	06/10/09	JWG0901969	
Bromodichloromethane	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901969	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/10/09	06/10/09	JWG0901969	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/10/09	06/10/09	JWG0901969	
Toluene	ND	U	1.0	0.52	1	06/10/09	06/10/09	JWG0901969	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/10/09	06/10/09	JWG0901969	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/10/09	06/10/09	JWG0901969	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/10/09	06/10/09	JWG0901969	
2-Hexanone	ND	U	25	0.36	1	06/10/09	06/10/09	JWG0901969	
Dibromochloromethane	ND	U	1.0	0.11	1	06/10/09	06/10/09	JWG0901969	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0901969-2

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/10/09	06/10/09	JWG0901969	
Chlorobenzene	ND	U	1.0	0.15	1	06/10/09	06/10/09	JWG0901969	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901969	
Ethylbenzene	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901969	
m,p-Xylenes	ND	U	2.0	0.22	1	06/10/09	06/10/09	JWG0901969	
o-Xylene	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901969	
Styrene	ND	U	1.0	0.051	1	06/10/09	06/10/09	JWG0901969	
Bromoform	ND	U	2.0	0.12	1	06/10/09	06/10/09	JWG0901969	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/10/09	06/10/09	JWG0901969	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/10/09	06/10/09	JWG0901969	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/10/09	06/10/09	JWG0901969	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/10/09	06/10/09	JWG0901969	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/10/09	06/10/09	JWG0901969	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/10/09	06/10/09	JWG0901969	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	85	71-122	06/10/09	Acceptable
4-Bromofluorobenzene	113	75-120	06/10/09	Acceptable
Dibromofluoromethane	94	82-116	06/10/09	Acceptable
Toluene-d8	103	88-117	06/10/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902645
Project:	JED SWDF/FQ1512A	**Date Collected:**	06/01/2009
Sample Matrix:	Water	**Date Received:**	06/02/2009

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

Sample Name:	MW-9A	**Units:**	ug/L
Lab Code:	J0902645-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/02/09	06/02/09	JWG0901867	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/02/09	06/02/09	JWG0901867	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	126	77-150	06/02/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902645
Project:	JED SWDF/FQ1512A	**Date Collected:**	06/01/2009
Sample Matrix:	Water	**Date Received:**	06/02/2009

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

Sample Name:	MW-9B	**Units:**	ug/L
Lab Code:	J0902645-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/02/09	06/02/09	JWG0901867	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/02/09	06/02/09	JWG0901867	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	129	77-150	06/02/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902645
Project:	JED SWDF/FQ1512A	**Date Collected:**	06/01/2009
Sample Matrix:	Water	**Date Received:**	06/02/2009

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

Sample Name:	MW-8A	**Units:**	ug/L
Lab Code:	J0902645-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/02/09	06/02/09	JWG0901867	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/02/09	06/02/09	JWG0901867	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	139	77-150	06/02/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902645
Project:	JED SWDF/FQ1512A	**Date Collected:**	06/01/2009
Sample Matrix:	Water	**Date Received:**	06/02/2009

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

Sample Name:	MW-8B	**Units:**	ug/L
Lab Code:	J0902645-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/02/09	06/02/09	JWG0901867	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/02/09	06/02/09	JWG0901867	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	139	77-150	06/02/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 06/01/2009
Date Received: 06/02/2009

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

Sample Name: MW-7A
Lab Code: J0902645-005

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/02/09	06/02/09	JWG0901867	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/02/09	06/02/09	JWG0901867	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	136	77-150	06/02/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902645
Project:	JED SWDF/FQ1512A	**Date Collected:**	06/01/2009
Sample Matrix:	Water	**Date Received:**	06/02/2009

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

Sample Name:	MW-7B	**Units:**	ug/L
Lab Code:	J0902645-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/02/09	06/03/09	JWG0901867	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/02/09	06/03/09	JWG0901867	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	134	77-150	06/03/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902645
Project:	JED SWDF/FQ1512A	**Date Collected:**	06/01/2009
Sample Matrix:	Water	**Date Received:**	06/02/2009

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

Sample Name:	MW-6A	**Units:**	ug/L
Lab Code:	J0902645-007	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/02/09	06/03/09	JWG0901867	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/02/09	06/03/09	JWG0901867	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	130	77-150	06/03/09	Acceptable

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	J0902645
Project:	JED SWDF/FQ1512A	**Date Collected:**	06/01/2009
Sample Matrix:	Water	**Date Received:**	06/02/2009

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

Sample Name:	MW-6B	**Units:**	ug/L
Lab Code:	J0902645-008	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/02/09	06/03/09	JWG0901867	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/02/09	06/03/09	JWG0901867	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	130	77-150	06/03/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902645
Project:	JED SWDF/FQ1512A	**Date Collected:**	06/01/2009
Sample Matrix:	Water	**Date Received:**	06/02/2009

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

Sample Name:	MW-5A	**Units:**	ug/L
Lab Code:	J0902645-009	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/02/09	06/03/09	JWG0901867	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/02/09	06/03/09	JWG0901867	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	119	77-150	06/03/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902645
Project:	JED SWDF/FQ1512A	**Date Collected:**	06/01/2009
Sample Matrix:	Water	**Date Received:**	06/02/2009

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

Sample Name:	MW-5B	**Units:**	ug/L
Lab Code:	J0902645-010	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/02/09	06/03/09	JWG0901867	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/02/09	06/03/09	JWG0901867	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	129	77-150	06/03/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902645
Project:	JED SWDF/FQ1512A	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

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

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG0901867-3	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/02/09	06/02/09	JWG0901867	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/02/09	06/02/09	JWG0901867	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	137	77-150	06/02/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Sample Name: MW-9A
Lab Code: J0902645-001

Service Request: J0902645
Date Collected: 6/ 1/09 0715
Date Received: 6/ 2/09

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 3/09	6/11/09 21:04
Arsenic, Total	6020	**2.42**		µg/L	0.50	0.20	1	6/ 3/09	6/11/09 21:04
Barium, Total	6020	**9.7**		µg/L	2.0	0.5	1	6/ 3/09	6/11/09 21:04
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 21:04
Cadmium, Total	6020	**0.12**	I	µg/L	0.50	0.12	1	6/ 3/09	6/11/09 21:04
Chromium, Total	6020	**2.2**		µg/L	2.0	0.8	1	6/ 3/09	6/11/09 21:04
Cobalt, Total	6020	**0.8**	I	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 21:04
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 3/09	6/11/09 21:04
Iron, Total	6010B	**1380**		µg/L	50	4	1	6/ 5/09	6/8/09 19:28
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 21:04
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/10/09	6/11/09 15:40
Nickel, Total	6020	**2.3**		µg/L	2.0	0.3	1	6/ 3/09	6/11/09 21:04
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 3/09	6/11/09 21:04
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 3/09	6/11/09 21:04
Sodium, Total	6010B	**10.4**		mg/L	0.50	0.02	1	6/ 5/09	6/9/09 15:35
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 21:04
Vanadium, Total	6020	**2.5**	I	µg/L	5.0	1.2	1	6/ 3/09	6/11/09 21:04
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 3/09	6/15/09 17:44

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902645
Project:	JED SWDF/FQ1512A	**Date Collected:**	6/ 1/09 0740
Sample Matrix:	Water	**Date Received:**	6/ 2/09
Sample Name:	MW-9B		
Lab Code:	J0902645-002	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	**0.4**	I	µg/L	2.0	0.4	1	6/ 3/09	6/11/09 21:27
Arsenic, Total	6020	**0.38**	I	µg/L	0.50	0.20	1	6/ 3/09	6/11/09 21:27
Barium, Total	6020	**29.5**		µg/L	2.0	0.5	1	6/ 3/09	6/11/09 21:27
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 21:27
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 3/09	6/11/09 21:27
Chromium, Total	6020	**2.0**		µg/L	2.0	0.8	1	6/ 3/09	6/11/09 21:27
Cobalt, Total	6020	**0.2**	I	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 21:27
Copper, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	6/ 3/09	6/11/09 21:27
Iron, Total	6010B	**998**		µg/L	50	4	1	6/ 5/09	6/8/09 19:32
Lead, Total	6020	**1**	I	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 21:27
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/10/09	6/11/09 15:41
Nickel, Total	6020	**0.5**	I	µg/L	2.0	0.3	1	6/ 3/09	6/11/09 21:27
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 3/09	6/11/09 21:27
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 3/09	6/11/09 21:27
Sodium, Total	6010B	**10.2**		mg/L	0.50	0.02	1	6/ 5/09	6/9/09 15:43
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 21:27
Vanadium, Total	6020	**2.9**	I	µg/L	5.0	1.2	1	6/ 3/09	6/11/09 21:27
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 3/09	6/15/09 17:55

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Sample Name: MW-8A
Lab Code: J0902645-003

Service Request: J0902645
Date Collected: 6/ 1/09 0900
Date Received: 6/ 2/09

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 3/09	6/11/09 21:32
Arsenic, Total	6020	**0.53**		µg/L	0.50	0.20	1	6/ 3/09	6/11/09 21:32
Barium, Total	6020	**28.1**		µg/L	2.0	0.5	1	6/ 3/09	6/11/09 21:32
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 21:32
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 3/09	6/11/09 21:32
Chromium, Total	6020	**2.5**		µg/L	2.0	0.8	1	6/ 3/09	6/11/09 21:32
Cobalt, Total	6020	**1.5**		µg/L	1.0	0.2	1	6/ 3/09	6/11/09 21:32
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 3/09	6/11/09 21:32
Iron, Total	6010B	**3450**		µg/L	50	4	1	6/ 5/09	6/8/09 19:49
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 21:32
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/10/09	6/11/09 15:29
Nickel, Total	6020	**2.7**		µg/L	2.0	0.3	1	6/ 3/09	6/11/09 21:32
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 3/09	6/11/09 21:32
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 3/09	6/11/09 21:32
Sodium, Total	6010B	**22.9**		mg/L	0.50	0.02	1	6/ 5/09	6/9/09 15:55
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 21:32
Vanadium, Total	6020	**3.5**	I	µg/L	5.0	1.2	1	6/ 3/09	6/11/09 21:32
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 3/09	6/15/09 17:59

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902645
Project:	JED SWDF/FQ1512A	**Date Collected:**	6/ 1/09 1010
Sample Matrix:	Water	**Date Received:**	6/ 2/09
Sample Name:	MW-8B		
Lab Code:	J0902645-004	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 3/09	6/11/09 21:37
Arsenic, Total	6020	**0.24**	I	µg/L	0.50	0.20	1	6/ 3/09	6/11/09 21:37
Barium, Total	6020	**42.7**		µg/L	2.0	0.5	1	6/ 3/09	6/11/09 21:37
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 21:37
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 3/09	6/11/09 21:37
Chromium, Total	6020	**3.1**		µg/L	2.0	0.8	1	6/ 3/09	6/11/09 21:37
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 21:37
Copper, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	6/ 3/09	6/11/09 21:37
Iron, Total	6010B	**859**		µg/L	50	4	1	6/ 5/09	6/8/09 19:54
Lead, Total	6020	**3.9**		µg/L	1.0	0.2	1	6/ 3/09	6/11/09 21:37
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/10/09	6/11/09 15:43
Nickel, Total	6020	**0.5**	I	µg/L	2.0	0.3	1	6/ 3/09	6/11/09 21:37
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 3/09	6/11/09 21:37
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 3/09	6/11/09 21:37
Sodium, Total	6010B	**6.45**		mg/L	0.50	0.02	1	6/ 5/09	6/9/09 15:58
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 21:37
Vanadium, Total	6020	**7.4**		µg/L	5.0	1.2	1	6/ 3/09	6/11/09 21:37
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 3/09	6/15/09 18:03

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902645
Project:	JED SWDF/FQ1512A	**Date Collected:**	6/ 1/09 1255
Sample Matrix:	Water	**Date Received:**	6/ 2/09
Sample Name:	MW-7A		
Lab Code:	J0902645-005	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	**0.7**	I	µg/L	2.0	0.4	1	6/ 3/09	6/11/09 21:51
Arsenic, Total	6020	**6.98**		µg/L	0.50	0.20	1	6/ 3/09	6/11/09 21:51
Barium, Total	6020	**66.5**		µg/L	2.0	0.5	1	6/ 3/09	6/11/09 21:51
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 21:51
Cadmium, Total	6020	**0.81**		µg/L	0.50	0.12	1	6/ 3/09	6/11/09 21:51
Chromium, Total	6020	**6.9**		µg/L	2.0	0.8	1	6/ 3/09	6/11/09 21:51
Cobalt, Total	6020	**2.6**		µg/L	1.0	0.2	1	6/ 3/09	6/11/09 21:51
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 3/09	6/11/09 21:51
Iron, Total	6010B	**2760**		µg/L	50	4	1	6/ 5/09	6/8/09 20:05
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 21:51
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/10/09	6/11/09 15:44
Nickel, Total	6020	**1.7**	I	µg/L	2.0	0.3	1	6/ 3/09	6/11/09 21:51
Selenium, Total	6020	**12.8**		µg/L	2.0	0.8	1	6/ 3/09	6/11/09 21:51
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 3/09	6/11/09 21:51
Sodium, Total	6010B	**18.5**		mg/L	0.50	0.02	1	6/ 5/09	6/9/09 16:00
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 21:51
Vanadium, Total	6020	**6.3**		µg/L	5.0	1.2	1	6/ 3/09	6/11/09 21:51
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 3/09	6/15/09 18:14

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Sample Name: MW-7B
Lab Code: J0902645-006

Service Request: J0902645
Date Collected: 6/ 1/09 1320
Date Received: 6/ 2/09

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 3/09	6/11/09 21:56
Arsenic, Total	6020	**1.76**		µg/L	0.50	0.20	1	6/ 3/09	6/11/09 21:56
Barium, Total	6020	**197**		µg/L	2.0	0.5	1	6/ 3/09	6/11/09 21:56
Beryllium, Total	6020	**0.2**	I	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 21:56
Cadmium, Total	6020	**0.51**		µg/L	0.50	0.12	1	6/ 3/09	6/11/09 21:56
Chromium, Total	6020	**8.4**		µg/L	2.0	0.8	1	6/ 3/09	6/11/09 21:56
Cobalt, Total	6020	**1.2**		µg/L	1.0	0.2	1	6/ 3/09	6/11/09 21:56
Copper, Total	6020	**1.3**	I	µg/L	2.0	0.3	1	6/ 3/09	6/11/09 21:56
Iron, Total	6010B	**1520**		µg/L	50	4	1	6/ 5/09	6/8/09 20:10
Lead, Total	6020	**4.2**		µg/L	1.0	0.2	1	6/ 3/09	6/11/09 21:56
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/10/09	6/11/09 15:45
Nickel, Total	6020	**2.8**		µg/L	2.0	0.3	1	6/ 3/09	6/11/09 21:56
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 3/09	6/11/09 21:56
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 3/09	6/11/09 21:56
Sodium, Total	6010B	**9.31**		mg/L	0.50	0.02	1	6/ 5/09	6/9/09 16:03
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 21:56
Vanadium, Total	6020	**12.5**		µg/L	5.0	1.2	1	6/ 3/09	6/11/09 21:56
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 3/09	6/15/09 18:18

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 6/ 1/09 1105
Date Received: 6/ 2/09

Sample Name: MW-6A
Lab Code: J0902645-007

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 3/09	6/11/09 22:01
Arsenic, Total	6020	**3.38**		µg/L	0.50	0.20	1	6/ 3/09	6/11/09 22:01
Barium, Total	6020	**56.9**		µg/L	2.0	0.5	1	6/ 3/09	6/11/09 22:01
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 22:01
Cadmium, Total	6020	**0.32**	I	µg/L	0.50	0.12	1	6/ 3/09	6/11/09 22:01
Chromium, Total	6020	**5.5**		µg/L	2.0	0.8	1	6/ 3/09	6/11/09 22:01
Cobalt, Total	6020	**2.8**		µg/L	1.0	0.2	1	6/ 3/09	6/11/09 22:01
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 3/09	6/11/09 22:01
Iron, Total	6010B	**5460**		µg/L	50	4	1	6/ 5/09	6/8/09 20:14
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 22:01
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/10/09	6/11/09 15:47
Nickel, Total	6020	**3.8**		µg/L	2.0	0.3	1	6/ 3/09	6/11/09 22:01
Selenium, Total	6020	**5.4**		µg/L	2.0	0.8	1	6/ 3/09	6/11/09 22:01
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 3/09	6/11/09 22:01
Sodium, Total	6010B	**23.8**		mg/L	0.50	0.02	1	6/ 5/09	6/9/09 16:06
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 22:01
Vanadium, Total	6020	**5.3**		µg/L	5.0	1.2	1	6/ 3/09	6/11/09 22:01
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 3/09	6/15/09 18:22

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902645
Project:	JED SWDF/FQ1512A	**Date Collected:**	6/ 1/09 1140
Sample Matrix:	Water	**Date Received:**	6/ 2/09
Sample Name:	MW-6B		
Lab Code:	J0902645-008	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 3/09	6/11/09 22:05
Arsenic, Total	6020	**0.79**		µg/L	0.50	0.20	1	6/ 3/09	6/11/09 22:05
Barium, Total	6020	**95.9**		µg/L	2.0	0.5	1	6/ 3/09	6/11/09 22:05
Beryllium, Total	6020	**0.2**	I	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 22:05
Cadmium, Total	6020	**0.66**		µg/L	0.50	0.12	1	6/ 3/09	6/11/09 22:05
Chromium, Total	6020	**11.3**		µg/L	2.0	0.8	1	6/ 3/09	6/11/09 22:05
Cobalt, Total	6020	**1.0**		µg/L	1.0	0.2	1	6/ 3/09	6/11/09 22:05
Copper, Total	6020	**0.9**	I	µg/L	2.0	0.3	1	6/ 3/09	6/11/09 22:05
Iron, Total	6010B	**965**		µg/L	50	4	1	6/ 5/09	6/8/09 20:19
Lead, Total	6020	**2.5**		µg/L	1.0	0.2	1	6/ 3/09	6/11/09 22:05
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/10/09	6/11/09 15:48
Nickel, Total	6020	**3.8**		µg/L	2.0	0.3	1	6/ 3/09	6/11/09 22:05
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 3/09	6/11/09 22:05
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 3/09	6/11/09 22:05
Sodium, Total	6010B	**5.89**		mg/L	0.50	0.02	1	6/ 5/09	6/9/09 16:13
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 22:05
Vanadium, Total	6020	**14.4**		µg/L	5.0	1.2	1	6/ 3/09	6/11/09 22:05
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 3/09	6/15/09 18:26

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Sample Name: MW-5A
Lab Code: J0902645-009

Service Request: J0902645
Date Collected: 6/ 1/09 1433
Date Received: 6/ 2/09

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 3/09	6/11/09 22:10
Arsenic, Total	6020	**1.72**		µg/L	0.50	0.20	1	6/ 3/09	6/11/09 22:10
Barium, Total	6020	**3.7**		µg/L	2.0	0.5	1	6/ 3/09	6/11/09 22:10
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 22:10
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 3/09	6/11/09 22:10
Chromium, Total	6020	**4.5**		µg/L	2.0	0.8	1	6/ 3/09	6/11/09 22:10
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 22:10
Copper, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	6/ 3/09	6/11/09 22:10
Iron, Total	6010B	**293**		µg/L	50	4	1	6/ 5/09	6/8/09 20:23
Lead, Total	6020	**1.2**		µg/L	1.0	0.2	1	6/ 3/09	6/11/09 22:10
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/10/09	6/11/09 15:50
Nickel, Total	6020	**2.0**		µg/L	2.0	0.3	1	6/ 3/09	6/11/09 22:10
Selenium, Total	6020	**1.0**	I	µg/L	2.0	0.8	1	6/ 3/09	6/11/09 22:10
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 3/09	6/11/09 22:10
Sodium, Total	6010B	**18.6**		mg/L	0.50	0.02	1	6/ 5/09	6/9/09 16:16
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 22:10
Vanadium, Total	6020	**1.8**	I	µg/L	5.0	1.2	1	6/ 3/09	6/11/09 22:10
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 3/09	6/15/09 18:29

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Sample Name: MW-5B
Lab Code: J0902645-010

Service Request: J0902645
Date Collected: 6/ 1/09 1505
Date Received: 6/ 2/09

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 3/09	6/11/09 22:15
Arsenic, Total	6020	**0.49**	I	µg/L	0.50	0.20	1	6/ 3/09	6/11/09 22:15
Barium, Total	6020	**9.7**		µg/L	2.0	0.5	1	6/ 3/09	6/11/09 22:15
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 22:15
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 3/09	6/11/09 22:15
Chromium, Total	6020	**1.4**	I	µg/L	2.0	0.8	1	6/ 3/09	6/11/09 22:15
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 22:15
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 3/09	6/11/09 22:15
Iron, Total	6010B	**290**		µg/L	50	4	1	6/ 5/09	6/8/09 20:27
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 22:15
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/10/09	6/11/09 15:51
Nickel, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	6/ 3/09	6/11/09 22:15
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 3/09	6/11/09 22:15
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 3/09	6/11/09 22:15
Sodium, Total	6010B	**6.32**		mg/L	0.50	0.02	1	6/ 5/09	6/9/09 16:18
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 22:15
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	6/ 3/09	6/11/09 22:15
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 3/09	6/15/09 18:33

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902645
Project:	JED SWDF/FQ1512A	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	J0902645-MB	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 3/09	6/11/09 20:59
Arsenic, Total	6020	ND	U	µg/L	0.50	0.20	1	6/ 3/09	6/11/09 20:59
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	6/ 3/09	6/11/09 20:59
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 20:59
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 3/09	6/11/09 20:59
Chromium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 3/09	6/11/09 20:59
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 20:59
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 3/09	6/11/09 20:59
Iron, Total	6010B	ND	U	µg/L	50	4	1	6/ 5/09	6/8/09 19:21
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 20:59
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/10/09	6/11/09 15:25
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 3/09	6/11/09 20:59
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 3/09	6/11/09 20:59
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 3/09	6/11/09 20:59
Sodium, Total	6010B	**0.10**	I	mg/L	0.50	0.02	1	6/ 5/09	6/9/09 15:30
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 3/09	6/11/09 20:59
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	6/ 3/09	6/11/09 20:59
Zinc, Total	6020	**5**	I	µg/L	10	4	1	6/ 3/09	6/15/09 17:40

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902645
Date Collected : 06/01/09
Date Received : 06/02/09

Inorganic Parameters

Sample Name : MW-9A
Lab Code : J0902645-001
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.1	0.05	2	06/12/09 14:40	6.8	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	06/02/09 12:48	25	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	06/02/09 12:48	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/08/09 16:00	100	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902645
Date Collected : 06/01/09
Date Received : 06/02/09

Inorganic Parameters

Sample Name : MW-9B
Lab Code : J0902645-002
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/12/09 14:40	0.20	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	06/02/09 12:48	19	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	06/02/09 12:48	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/08/09 16:00	95	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902645
Date Collected : 06/01/09
Date Received : 06/02/09

Inorganic Parameters

Sample Name : MW-8A
Lab Code : J0902645-003
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/12/09 14:40	3.1	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	06/02/09 12:48	56	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	06/02/09 12:48	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/08/09 16:00	140	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902645
Date Collected : 06/01/09
Date Received : 06/02/09

Inorganic Parameters

Sample Name : MW-8B
Lab Code : J0902645-004
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/12/09 14:40	0.14	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	06/02/09 12:48	10	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	06/02/09 12:48	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/08/09 16:00	100	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902645
Date Collected : 06/01/09
Date Received : 06/02/09

Inorganic Parameters

Sample Name : MW-7A
Lab Code : J0902645-005
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/12/09 14:40	2.2	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	06/02/09 12:48	26	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	06/02/09 12:48	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/08/09 16:00	94	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902645
Date Collected : 06/01/09
Date Received : 06/02/09

Inorganic Parameters

Sample Name : MW-7B
Lab Code : J0902645-006
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/12/09 14:40	0.16	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	06/02/09 12:48	23	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	06/02/09 12:48	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/08/09 16:00	75	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902645
Date Collected : 06/01/09
Date Received : 06/02/09

Inorganic Parameters

Sample Name : MW-6A
Lab Code : J0902645-007
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/12/09 14:40	1.3	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	06/02/09 12:48	54	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	06/02/09 12:48	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/08/09 16:00	120	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902645
Date Collected : 06/01/09
Date Received : 06/02/09

Inorganic Parameters

Sample Name : MW-6B
Lab Code : J0902645-008
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/12/09 14:40	0.19	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	06/02/09 12:48	8.7	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	06/02/09 12:48	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/08/09 16:00	49	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902645
Date Collected : 06/01/09
Date Received : 06/02/09

Inorganic Parameters

Sample Name : MW-5A
Lab Code : J0902645-009
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.1	0.05	2	06/12/09 14:40	13	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	06/02/09 12:48	66	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	06/02/09 12:48	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/08/09 16:00	210	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902645
Date Collected : 06/01/09
Date Received : 06/02/09

Inorganic Parameters

Sample Name : MW-5B
Lab Code : J0902645-010
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/12/09 14:40	0.17	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	06/02/09 12:48	12	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	06/02/09 12:48	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/08/09 16:00	51	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902645
Date Collected : NA
Date Received : NA

Inorganic Parameters

Sample Name : Method Blank
Lab Code : J0902645-MB
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/12/09 14:40	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	06/02/09 12:48	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	06/02/09 12:48	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/08/09 16:00	U	

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645

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

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
MW-9A	J0902645-001	78	105	89	96
MW-9B	J0902645-002	77	109	84	96
MW-8A	J0902645-003	98	116	99	105
MW-8B	J0902645-004	81	104	88	93
MW-7A	J0902645-005	87	115	96	102
MW-7B	J0902645-006	77	107	87	94
MW-6A	J0902645-007	79	107	91	97
MW-6B	J0902645-008	78	112	85	98
MW-5A	J0902645-009	78	111	87	98
MW-5B	J0902645-010	81	103	86	95
Trip Blank	J0902645-011	76	104	83	95
Method Blank	JWG0901911-4	76	110	84	97
Method Blank	JWG0901969-2	85	113	94	103
Lab Control Sample	JWG0901911-3	77	107	87	96
Lab Control Sample	JWG0901969-1	86	116	95	107

Surrogate Recovery Control Limits (%)

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Extracted: 06/08/2009
Date Analyzed: 06/08/2009

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

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0901911

Analyte Name	Lab Control Sample JWG0901911-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Chloromethane	20.2	20.0	101	67-135
Vinyl Chloride	22.5	20.0	112	78-132
Bromomethane	17.4	20.0	87	79-130
Chloroethane	25.5	20.0	127 *	74-126
Trichlorofluoromethane	19.9	20.0	99	74-134
1,1-Dichloroethene	19.4	20.0	97	78-130
Acetone	106	100	106	67-133
Iodomethane (Methyl Iodide)	82.8	100	83	68-134
Carbon Disulfide	117	100	117	76-138
Methylene Chloride	19.8	20.0	99	72-124
trans-1,2-Dichloroethene	19.5	20.0	98	77-124
Acrylonitrile	115	100	115	77-127
1,1-Dichloroethane	19.8	20.0	99	80-128
Vinyl Acetate	104	100	104	61-148
cis-1,2-Dichloroethene	19.1	20.0	96	80-126
2-Butanone (MEK)	108	100	108	73-127
Bromochloromethane	22.2	20.0	111	79-129
Chloroform	18.3	20.0	91	83-124
1,1,1-Trichloroethane (TCA)	17.3	20.0	87	79-124
Carbon Tetrachloride	17.3	20.0	87	81-125
Benzene	20.0	20.0	100	79-119
1,2-Dichloroethane (EDC)	17.1	20.0	85	80-124
Trichloroethene (TCE)	17.9	20.0	90	76-124
1,2-Dichloropropane	21.3	20.0	107	79-123
Dibromomethane	19.2	20.0	96	83-123
Bromodichloromethane	18.4	20.0	92	81-123
cis-1,3-Dichloropropene	20.1	20.0	100	86-123
4-Methyl-2-pentanone (MIBK)	107	100	107	72-136
Toluene	21.0	20.0	105	86-117
trans-1,3-Dichloropropene	19.4	20.0	97	83-124
1,1,2-Trichloroethane	19.5	20.0	98	86-114
Tetrachloroethene (PCE)	18.1	20.0	90	80-121
2-Hexanone	111	100	111	71-138
Dibromochloromethane	18.1	20.0	91	82-121
1,2-Dibromoethane (EDB)	19.0	20.0	95	88-117
Chlorobenzene	18.6	20.0	93	86-113

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

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

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Extracted: 06/08/2009
Date Analyzed: 06/08/2009

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

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0901911

Analyte Name	Lab Control Sample JWG0901911-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	18.4	20.0	92	85-117
Ethylbenzene	19.3	20.0	97	90-118
m,p-Xylenes	38.4	40.0	96	86-121
o-Xylene	19.0	20.0	95	89-119
Styrene	19.3	20.0	96	89-122
Bromoform	18.5	20.0	92	68-129
1,1,2,2-Tetrachloroethane	20.7	20.0	103	83-120
1,2,3-Trichloropropane	18.3	20.0	91	83-123
1,4-Dichlorobenzene	18.4	20.0	92	83-113
trans-1,4-Dichloro-2-butene	19.1	20.0	96	53-143
1,2-Dichlorobenzene	18.3	20.0	91	84-115
1,2-Dibromo-3-chloropropane (DBCP	16.9	20.0	85	62-123

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902645
Project:	JED SWDF/FQ1512A	**Date Extracted:**	06/10/2009
Sample Matrix:	Water	**Date Analyzed:**	06/10/2009

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

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	8260B	**Basis:**	NA
		Level:	Low
		Extraction Lot:	JWG0901969

	Lab Control Sample JWG0901969-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Chloromethane	24.5	20.0	122	67-135
Vinyl Chloride	24.6	20.0	123	78-132
Bromomethane	21.5	20.0	107	79-130
Chloroethane	29.9	20.0	149 *	74-126
Trichlorofluoromethane	22.6	20.0	113	74-134
1,1-Dichloroethene	21.2	20.0	106	78-130
Acetone	111	100	111	67-133
Iodomethane (Methyl Iodide)	107	100	107	68-134
Carbon Disulfide	122	100	122	76-138
Methylene Chloride	22.0	20.0	110	72-124
trans-1,2-Dichloroethene	21.6	20.0	108	77-124
Acrylonitrile	130	100	130 *	77-127
1,1-Dichloroethane	21.9	20.0	109	80-128
Vinyl Acetate	116	100	116	61-148
cis-1,2-Dichloroethene	20.8	20.0	104	80-126
2-Butanone (MEK)	123	100	123	73-127
Bromochloromethane	24.6	20.0	123	79-129
Chloroform	19.9	20.0	99	83-124
1,1,1-Trichloroethane (TCA)	19.5	20.0	97	79-124
Carbon Tetrachloride	19.8	20.0	99	81-125
Benzene	21.9	20.0	110	79-119
1,2-Dichloroethane (EDC)	18.8	20.0	94	80-124
Trichloroethene (TCE)	20.1	20.0	100	76-124
1,2-Dichloropropane	23.5	20.0	117	79-123
Dibromomethane	21.0	20.0	105	83-123
Bromodichloromethane	20.0	20.0	100	81-123
cis-1,3-Dichloropropene	22.4	20.0	112	86-123
4-Methyl-2-pentanone (MIBK)	123	100	123	72-136
Toluene	20.9	20.0	104	86-117
trans-1,3-Dichloropropene	21.7	20.0	108	83-124
1,1,2-Trichloroethane	21.3	20.0	106	86-114
Tetrachloroethene (PCE)	20.5	20.0	103	80-121
2-Hexanone	124	100	124	71-138
Dibromochloromethane	19.9	20.0	99	82-121
1,2-Dibromoethane (EDB)	21.1	20.0	105	88-117
Chlorobenzene	20.8	20.0	104	86-113

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

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

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Extracted: 06/10/2009
Date Analyzed: 06/10/2009

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

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0901969

Analyte Name	Lab Control Sample JWG0901969-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.2	20.0	101	85-117
Ethylbenzene	20.9	20.0	105	90-118
m,p-Xylenes	42.1	40.0	105	86-121
o-Xylene	20.4	20.0	102	89-119
Styrene	20.8	20.0	104	89-122
Bromoform	20.1	20.0	100	68-129
1,1,2,2-Tetrachloroethane	22.4	20.0	112	83-120
1,2,3-Trichloropropane	20.7	20.0	103	83-123
1,4-Dichlorobenzene	20.0	20.0	100	83-113
trans-1,4-Dichloro-2-butene	22.0	20.0	110	53-143
1,2-Dichlorobenzene	20.0	20.0	100	84-115
1,2-Dibromo-3-chloropropane (DBCP	19.3	20.0	97	62-123

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645

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

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
MW-9A	J0902645-001	126
MW-9B	J0902645-002	129
MW-8A	J0902645-003	139
MW-8B	J0902645-004	139
MW-7A	J0902645-005	136
MW-7B	J0902645-006	134
MW-6A	J0902645-007	130
MW-6B	J0902645-008	130
MW-5A	J0902645-009	119
MW-5B	J0902645-010	129
Method Blank	JWG0901867-3	137
Lab Control Sample	JWG0901867-1	132
Duplicate Lab Control Sample	JWG0901867-2	133

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: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Extracted: 06/02/2009
Date Analyzed: 06/02/2009

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: JWG0901867

Analyte Name	Lab Control Sample JWG0901867-1 Lab Control Spike Result	Expected	%Rec	Duplicate Lab Control Sample JWG0901867-2 Duplicate Lab Control Spike Result	Expected	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	0.450	0.250	180 *	0.399	0.250	160 *	70-130	12	20
1,2-Dibromo-3-chloropropane (DBCP	0.401	0.250	160 *	0.365	0.250	146 *	70-130	9	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: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 6/1/09
Date Received: 6/2/09
Date Analyzed: 6/11/09 - 6/15/09

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-9A
Lab Code: J0902645-001

Units: µg/L
Basis: NA

Analytical Method: 6020
Prep Method: EPA 3020A

Analyte Name	Sample Result	Matrix Spike J0902645-MS1 Result	Matrix Spike J0902645-MS1 Expected	Matrix Spike J0902645-MS1 % Rec	Duplicate Matrix Spike J0902645-DMS1 Result	Duplicate Matrix Spike J0902645-DMS1 Expected	Duplicate Matrix Spike J0902645-DMS1 % Rec	% Rec Limits	RPD	RPD Limit
Antimony, Total	ND	51.8	50.0	104	51.3	50.0	103	75 - 125	1	20
Arsenic, Total	2.42	52.4	50.0	100	52.3	50.0	100	75 - 125	0	20
Barium, Total	9.7	61.6	50.0	104	60.5	50.0	102	75 - 125	2	20
Beryllium, Total	ND	50.4	50.0	101	50.8	50.0	102	75 - 125	1	20
Cadmium, Total	0.12	50.3	50.0	100	50.2	50.0	100	75 - 125	0	20
Chromium, Total	2.2	51.9	50.0	99	50.8	50.0	97	75 - 125	2	20
Cobalt, Total	0.8	51.5	50.0	101	50.1	50.0	99	75 - 125	3	20
Copper, Total	ND	50.6	50.0	101	49.5	50.0	99	75 - 125	2	20
Lead, Total	ND	52.2	50.0	104	51.5	50.0	103	75 - 125	1	20
Nickel, Total	2.3	52.6	50.0	101	52.1	50.0	100	75 - 125	1	20
Selenium, Total	ND	37.6	50.0	75	37.4	50.0	75	75 - 125	1	20
Silver, Total	ND	51.5	50.0	103	52.1	50.0	104	75 - 125	1	20
Thallium, Total	ND	51.9	50.0	104	51.6	50.0	103	75 - 125	1	20
Vanadium, Total	2.5	53.0	50.0	101	52.3	50.0	100	75 - 125	1	20
Zinc, Total	ND	88.5	100	89	87.4	100	87	75 - 125	1	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 6/1/09
Date Received: 6/2/09
Date Analyzed: 6/ 9/09

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-9B
Lab Code: J0902645-002

Units: mg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3010A

Analyte Name	Sample Result	Matrix Spike J0902645-MS2 Result	Expected	% Rec	Duplicate Matrix Spike J0902645-DMS2 Result	Expected	% Rec	% Rec Limits	RPD	RPD Limit
Sodium, Total	10.2	20.1	10.0	99	20.1	10.0	100	75 - 125	0	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 6/1/09
Date Received: 6/2/09
Date Analyzed: 6/ 8/09

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-9B
Lab Code: J0902645-002

Units: µg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3010A

Analyte Name	Sample Result	Matrix Spike J0902645-MS2 Result	Expected	% Rec	Duplicate Matrix Spike J0902645-DMS2 Result	Expected	% Rec	% Rec Limits	RPD	RPD Limit
Iron, Total	998	2960	2000	98	2970	2000	99	75 - 125	1	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Collected: 6/1/09
Date Received: 6/2/09
Date Analyzed: 6/11/09

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

Sample Name: MW-8A
Lab Code: J0902645-003

Units: µg/L
Basis: NA

Analytical Method: 7470A
Prep Method: Method

Analyte Name	Sample Result	Matrix Spike J0902645-MS3 Result	Expected	% Rec	Duplicate Matrix Spike J0902645-DMS3 Result	Expected	% Rec	% Rec Limits	RPD	RPD Limit
Mercury, Total	ND	4.92	5.00	98	4.50	5.00	90	75 - 125	9	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Analyzed: 6/ 8/09 - 6/15/09

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0902645-LCS2 Result	Expected	% Rec	% Rec Limits
Antimony, Total	6020	**52.7**	50.0	105	80 - 120
Arsenic, Total	6020	**51.1**	50.0	102	80 - 120
Barium, Total	6020	**52.4**	50.0	105	80 - 120
Beryllium, Total	6020	**52.6**	50.0	105	80 - 120
Cadmium, Total	6020	**51.1**	50.0	102	80 - 120
Chromium, Total	6020	**50.4**	50.0	101	80 - 120
Cobalt, Total	6020	**52.2**	50.0	104	80 - 120
Copper, Total	6020	**51.3**	50.0	103	80 - 120
Iron, Total	6010B	**2060**	2000	103	80 - 120
Lead, Total	6020	**52.2**	50.0	104	80 - 120
Nickel, Total	6020	**51.3**	50.0	103	80 - 120
Selenium, Total	6020	**48.8**	50.0	98	80 - 120
Silver, Total	6020	**52.1**	50.0	104	80 - 120
Thallium, Total	6020	**52.3**	50.0	105	80 - 120
Vanadium, Total	6020	**52.2**	50.0	104	80 - 120
Zinc, Total	6020	**90.5**	100	90	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Analyzed: 6/ 9/09

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0902645-LCS2 Result	Expected	% Rec	% Rec Limits
Sodium, Total	6010B	**10.4**	10.0	104	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902645
Date Analyzed: 6/11/09

Lab Control Sample Summary
Mercury, Total in Liquid Waste (Manual Cold-Vapor Technique)

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0902645-LCS1 Result	Expected	% Rec	Duplicate Lab Control Sample J0902645-DLCS1 Result	Expected	% Rec	% Rec Limits	RPD	RPD Limit
Mercury, Total	7470A	**5.04**	5.00	101	**5.18**	5.00	104	80 - 120	3	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902645
Date Collected : 06/01/09
Date Received : 06/02/09
Date Extracted : NA
Date Analyzed : 06/02-12/09

Duplicate Summary
Inorganic Parameters

Sample Name : MW-9A
Lab Code : J0902645-001DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.1	6.8	6.7	6.75	1	
Chloride	mg/L (ppm)	300.0	0.2	25	25	25	<1	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	U	U	U	-	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902645
Date Collected : 06/01/09
Date Received : 06/02/09
Date Extracted : NA
Date Analyzed : 06/02-12/09

Matrix Spike Summary
Inorganic Parameters

Sample Name : MW-9A
Lab Code : J0902645-001MS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.1	10.0	6.8	17.5	107	90-110	
Chloride	mg/L (ppm)	300.0	0.2	100	25	129	104	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	5.0	U	5.10	102	90-110	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902645
Date Collected : 06/01/09
Date Received : 06/02/09
Date Extracted : NA
Date Analyzed : 06/08/09

Duplicate Summary
Inorganic Parameters

Sample Name : MW-8A
Lab Code : J0902645-003DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	140	140	140	<1	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902645
Date Collected : NA
Date Received : NA
Date Extracted : NA
Date Analyzed : 06/02-12/09

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Laboratory Control Sample
Lab Code : J0902645-LCS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	5.00	5.11	102	90-110	
Chloride	mg/L (ppm)	300.0	5.00	5.05	101	90-110	
Chloride	mg/L (ppm)	300.0	100	104	104	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	4.94	99	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	300	304	101	85-115	

Report By: Palimi

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

Client: Geosyntec Service Request # J6902645

Project: JED SWDF

Cooler received on 6-2-09 and opened on 6-2-09 by SC

COURIER: CAS (UPS) FEDEX DHL CLIENT Tracking # J2081512474

1	Were custody seals on outside of cooler?	(Yes)	No	N/A
2	Were seals intact, signed and dated?	(Yes)	No	N/A
3	Were custody papers properly filled out?	(Yes)	No	N/A
4	Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C) 1.6			
5	Correct Temperature?	(Yes)	No	N/A
6	Were Ice or Ice Packs present	(Yes)	No	N/A
7	Did all bottles arrive in good condition (unbroken, etc....)?	(Yes)	No	N/A
8	Were all bottle labels complete (sample ID, preservation, etc....)?	(Yes)	No	N/A
9	Did all bottle labels and tags agree with custody papers?	(Yes)	No	N/A
10	Were the correct bottles used for the tests indicated?	(Yes)	No	N/A
11	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

12	Were all samples received within analysis holding times?	(Yes)	No	N/A
13	Were VOA vials checked for absence of air bubbles? If present, note below	(Yes)	No	N/A
14	Where did the bottles originate?	(CAS)	Client	

Sample ID	Reagent	Manuf. Lot # or CAS Chem ID	ml added	Inititials

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

Client approval to run samples if discrepancies noted: Date: 84

SR # : J 0902615 Date: 6-2-09 Initials: SC

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

	Bottle Code																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	40mL	40mL	40mL	40mL	125mL	125mL	125mL	125mL	250mL	250mL	250mL	250mL	250mL	250mL	250mL	500mL	500mL	500mL	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	5g	100mL	Misc.
Container	G	G	G	G	P	P	P	P	P	P	P	P	P	G	G	P	P	P	P	P	G	G	G	G	G	G	G	ENC	P	Misc.
Pres.		HCl	Sodium Thiosulfate	H2SO4		HCl	H2SO4	HNO3		H2SO4	HNO3	ZnAcetate NaOH	NaOH		HNO3		H2SO4	HNO3		HNO3		HCl	H2SO4						Sodium Thiosulfate	
Req. pH	N/A	<2	N/A	<2	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample #	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-			-	-
-001	3	2					1	1	1																					
-002																														
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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

Columbia Analytical Services

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PAGE 1 OF 2

SR # J0902645

CAS Contact [redacted]

Project Name: JED SWDF	Project Number: FQ1512A
Project Manager: Kirk Wills	Email Address: kwills@geosyntec.com
Company/Address: Geosyntec 14055 Riveredge Dr. Ste 300 Tampa, FL 33637	
Phone #: 813-558-0940	FAX#: 813-558-9726
Sampler's Signature: Joe Terry	Sampler's Printed Name: Joe Terry

ANALYSIS REQUESTED (Include Method Number an [redacted]

PRESERVATIVE: 1 0 2 3 0

NUMBER OF CONTAINERS

8260 | 8011 | Metals | NH3 | TDS, Cl, NO3

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

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	REMARKS/ ALTERNATE DESCRIPTION
MW-9A		6-1-09	0715	GW	9 X X X X X
MW-9B			0740		
MW-8A			0900		
MW-8B			1010		
MW-7A			1255		
MW-7B			1320		
MW-6A			1105		
MW-6B			1140		
MW-5A			1433		
MW-5B			1505		

SPECIAL INSTRUCTIONS/COMMENTS

See QAPP ☐

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

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

INVOICE INFORMATION
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
8 9					
Signature: Joe Terry	Signature: Shawn Lightbody	Signature	Signature	Signature	Signature
Printed Name: Joe Terry	Printed Name: Shawn Lightbody	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Geosyntec	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 6-1-09 / 1550	Date/Time: 6-2-09 0930	Date/Time	Date/Time	Date/Time	Date/Time

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

JSCOC-06/20/08

Columbia Analytical Services

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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PAGE 2 OF 2

SR #

CAS Contact JO902645

Project Name: JED SWDF	Project Number: FQ1512A
Project Manager: Kirk Wills	Email Address: kwills@geosyntec.com
Company/Address: Geosyntec	
14055 Riveredge Dr. Ste 300	
Tampa FL 33637	
Phone #: 813-558-0940	FAX#: 813-558-9726
Sampler's Signature: Joe Terry	Sampler's Printed Name: Joe Terry

ANALYSIS REQUESTED (Include Method Number and [redacted])

PRESERVATIVE: 1 0 2 3 0

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	8260	8011	Methane	NH3	TDS, Cl, NO3	REMARKS/ ALTERNATE DESCRIPTION
Trip Blank				W	2	X					

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

SPECIAL INSTRUCTIONS/COMMENTS

See QAPP ☐

TURNAROUND REQUIREMENTS
- ____ RUSH (SURCHARGES APPLY)
- X STANDARD

REQUESTED FAX DATE: _____

REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
- ____ I. Results Only
- X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
- ____ III. Results + QC and Calibration Summaries
- ____ IV. Data Validation Report with Raw Data
- ____ V. Speicalized Forms / Custom Report

Edata ____ Yes ____ No

INVOICE INFORMATION
- PO#
- BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Joe Terry	Signature: Shawn Lightsey	Signature	Signature	Signature	Signature
Printed Name: Joe Terry	Printed Name: Shawn Lightsey	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Geosyntec	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 6-1-09 / 1550	Date/Time: 6-2-09 0930	Date/Time	Date/Time	Date/Time	Date/Time

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

JSCOC-06/20/08

9143 Philips Highway, Suite 200 Jacksonville, FL 32256 (904) 739-2277 (904) 739-2011 fax

Columbia Analytical Services INC.
An Employee - Owned Company

June 17, 2009

Service Request No: J0902685

Kirk Wills
GeoSyntec Consultants
14055 Riveredge Drive
Suite 300
Tampa, FL 33637

Laboratory Results for: JED SWDF/FQ1512A

Dear Kirk:

Enclosed are the results of the sample(s) submitted to our laboratory on June 3, 2009. For your reference, these analyses have been assigned our service request number **J0902685**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. In accordance to the NELAC 2003 Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

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

Respectfully submitted,

Columbia Analytical Services, Inc.

Craig Myers
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502 valid through 6/30/09. Other state accreditations include: Georgia, #958 valid through 6/30/09; Louisiana, #02086 valid through 6/30/09; Texas, #T104704197-06-TX valid through 5/31/09; North Carolina, #527 valid through 12/31/09; South Carolina, #96021001 valid through 6/30/09.

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	GeoSyntec Consultants	**Service Request No.:**	J0902685
Project:	JED SWDF	**Date Received:**	6/3/09
Sample Matrix:	Water		

CASE NARRATIVE

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

Sample Receipt

Five water samples and one trip blank were received for analysis at Columbia Analytical Services on 6/3/09. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

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

Continuing Calibration Verification Exceptions

The upper control criterion was exceeded for the following analyte in Continuing Calibration Verification (CCV) JWG0901972-2: Chloroethane. The field samples analyzed in this sequence did not contain the analyte in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

Lab Control Sample Exceptions

The spike recovery of Chloroethane for Laboratory Control Sample (LCS) JWG0901911-3 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.

The spike recoveries of 1,2-Dichloroethane (EDC), 1,2-Dibromoethane (EDB), 1,1,1,2-Tetrachloroethane and 1,2,3-Trichloropropane for Laboratory Control Sample (LCS) JWG0901971-3 were outside the lower control criterion. The analytes in question were not detected in the associated field samples. Since the analytes were detected in the MRL check standard, instrument sensitivity was documented. The data quality was not significantly affected and no further corrective action was taken.

Batch QC Notes and Discussion

Quality control samples for MS/DMS were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements.

Approved by Craig R Kly **Date** 6/17/09

Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

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 recoveries of Selenium for sample MW-3A were 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 low bias in this matrix. No further corrective action was appropriate.

Batch QC Notes and Discussion

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

General Chemistry Parameters

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

Batch QC Notes and Discussion

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

Approved by _____ **Date** 6/17/09

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: GeoSyntec Consultants
Project: JED SWDF/FQ1512A

Service Request: J0902685

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J0902685-001	MW-3A	6/2/09	08:35
J0902685-002	MW-3B	6/2/09	09:00
J0902685-003	MW-4A	6/2/09	07:03
J0902685-004	MW-4B	6/2/09	07:20
J0902685-005	EQ Blank	6/2/09	07:35
J0902685-006	Trip Blank	6/2/09	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Collected: 06/02/2009
Date Received: 06/03/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-3A
Lab Code: J0902685-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
Vinyl Chloride	ND	U	1.0	0.25	1	06/08/09	06/08/09	JWG0901911	
Bromomethane	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroethane	ND	UJ	5.0	0.19	1	06/08/09	06/08/09	JWG0901911	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/08/09	06/08/09	JWG0901911	
Acetone	ND	U	50	2.4	1	06/08/09	06/08/09	JWG0901911	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/08/09	06/08/09	JWG0901911	
Carbon Disulfide	ND	U	10	0.84	1	06/08/09	06/08/09	JWG0901911	
Methylene Chloride	ND	U	5.0	0.72	1	06/08/09	06/08/09	JWG0901911	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/08/09	06/08/09	JWG0901911	
Acrylonitrile	ND	U	10	0.59	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/08/09	06/08/09	JWG0901911	
Vinyl Acetate	ND	U	10	0.60	1	06/08/09	06/08/09	JWG0901911	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
2-Butanone (MEK)	ND	U	10	0.56	1	06/08/09	06/08/09	JWG0901911	
Bromochloromethane	ND	U	5.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroform	**0.30**	I	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Benzene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/08/09	06/08/09	JWG0901911	
Dibromomethane	ND	U	5.0	0.12	1	06/08/09	06/08/09	JWG0901911	
Bromodichloromethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/08/09	06/08/09	JWG0901911	
Toluene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/08/09	06/08/09	JWG0901911	
2-Hexanone	ND	U	25	0.36	1	06/08/09	06/08/09	JWG0901911	
Dibromochloromethane	ND	U	1.0	0.11	1	06/08/09	06/08/09	JWG0901911	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902685
Project:	JED SWDF/FQ1512A	**Date Collected:**	06/02/2009
Sample Matrix:	Water	**Date Received:**	06/03/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-3A	**Units:**	ug/L
Lab Code:	J0902685-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Chlorobenzene	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Ethylbenzene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
m,p-Xylenes	ND	U	2.0	0.22	1	06/08/09	06/08/09	JWG0901911	
o-Xylene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Styrene	ND	U	1.0	0.051	1	06/08/09	06/08/09	JWG0901911	
Bromoform	ND	U	2.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/08/09	06/08/09	JWG0901911	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/08/09	06/08/09	JWG0901911	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	76	71-122	06/08/09	Acceptable
4-Bromofluorobenzene	105	75-120	06/08/09	Acceptable
Dibromofluoromethane	84	82-116	06/08/09	Acceptable
Toluene-d8	97	88-117	06/08/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Collected: 06/02/2009
Date Received: 06/03/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-3B
Lab Code: J0902685-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
Vinyl Chloride	ND	U	1.0	0.25	1	06/08/09	06/08/09	JWG0901911	
Bromomethane	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroethane	ND	UJ	5.0	0.19	1	06/08/09	06/08/09	JWG0901911	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/08/09	06/08/09	JWG0901911	
Acetone	ND	U	50	2.4	1	06/08/09	06/08/09	JWG0901911	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/08/09	06/08/09	JWG0901911	
Carbon Disulfide	ND	U	10	0.84	1	06/08/09	06/08/09	JWG0901911	
Methylene Chloride	ND	U	5.0	0.72	1	06/08/09	06/08/09	JWG0901911	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/08/09	06/08/09	JWG0901911	
Acrylonitrile	ND	U	10	0.59	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/08/09	06/08/09	JWG0901911	
Vinyl Acetate	ND	U	10	0.60	1	06/08/09	06/08/09	JWG0901911	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
2-Butanone (MEK)	ND	U	10	0.56	1	06/08/09	06/08/09	JWG0901911	
Bromochloromethane	ND	U	5.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroform	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Benzene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/08/09	06/08/09	JWG0901911	
Dibromomethane	ND	U	5.0	0.12	1	06/08/09	06/08/09	JWG0901911	
Bromodichloromethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/08/09	06/08/09	JWG0901911	
Toluene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/08/09	06/08/09	JWG0901911	
2-Hexanone	ND	U	25	0.36	1	06/08/09	06/08/09	JWG0901911	
Dibromochloromethane	ND	U	1.0	0.11	1	06/08/09	06/08/09	JWG0901911	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Collected: 06/02/2009
Date Received: 06/03/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-3B
Lab Code: J0902685-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Chlorobenzene	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Ethylbenzene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
m,p-Xylenes	ND	U	2.0	0.22	1	06/08/09	06/08/09	JWG0901911	
o-Xylene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Styrene	ND	U	1.0	0.051	1	06/08/09	06/08/09	JWG0901911	
Bromoform	ND	U	2.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/08/09	06/08/09	JWG0901911	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/08/09	06/08/09	JWG0901911	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	74	71-122	06/08/09	Acceptable
4-Bromofluorobenzene	107	75-120	06/08/09	Acceptable
Dibromofluoromethane	83	82-116	06/08/09	Acceptable
Toluene-d8	93	88-117	06/08/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Collected: 06/02/2009
Date Received: 06/03/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-4A
Lab Code: J0902685-003

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
Vinyl Chloride	ND	U	1.0	0.25	1	06/08/09	06/08/09	JWG0901911	
Bromomethane	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroethane	ND	UJ	5.0	0.19	1	06/08/09	06/08/09	JWG0901911	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/08/09	06/08/09	JWG0901911	
Acetone	ND	U	50	2.4	1	06/08/09	06/08/09	JWG0901911	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/08/09	06/08/09	JWG0901911	
Carbon Disulfide	ND	U	10	0.84	1	06/08/09	06/08/09	JWG0901911	
Methylene Chloride	ND	U	5.0	0.72	1	06/08/09	06/08/09	JWG0901911	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/08/09	06/08/09	JWG0901911	
Acrylonitrile	ND	U	10	0.59	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/08/09	06/08/09	JWG0901911	
Vinyl Acetate	ND	U	10	0.60	1	06/08/09	06/08/09	JWG0901911	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
2-Butanone (MEK)	ND	U	10	0.56	1	06/08/09	06/08/09	JWG0901911	
Bromochloromethane	ND	U	5.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroform	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Benzene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/08/09	06/08/09	JWG0901911	
Dibromomethane	ND	U	5.0	0.12	1	06/08/09	06/08/09	JWG0901911	
Bromodichloromethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/08/09	06/08/09	JWG0901911	
Toluene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/08/09	06/08/09	JWG0901911	
2-Hexanone	ND	U	25	0.36	1	06/08/09	06/08/09	JWG0901911	
Dibromochloromethane	ND	U	1.0	0.11	1	06/08/09	06/08/09	JWG0901911	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Collected: 06/02/2009
Date Received: 06/03/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-4A
Lab Code: J0902685-003

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Chlorobenzene	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Ethylbenzene	**0.13**	I	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
m,p-Xylenes	ND	U	2.0	0.22	1	06/08/09	06/08/09	JWG0901911	
o-Xylene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Styrene	ND	U	1.0	0.051	1	06/08/09	06/08/09	JWG0901911	
Bromoform	ND	U	2.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/08/09	06/08/09	JWG0901911	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/08/09	06/08/09	JWG0901911	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	78	71-122	06/08/09	Acceptable
4-Bromofluorobenzene	107	75-120	06/08/09	Acceptable
Dibromofluoromethane	90	82-116	06/08/09	Acceptable
Toluene-d8	97	88-117	06/08/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Collected: 06/02/2009
Date Received: 06/03/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-4B
Lab Code: J0902685-004

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/10/09	06/10/09	JWG0901971	
Vinyl Chloride	ND	U	1.0	0.25	1	06/10/09	06/10/09	JWG0901971	
Bromomethane	ND	U	1.0	0.14	1	06/10/09	06/10/09	JWG0901971	
Chloroethane	ND	U	5.0	0.19	1	06/10/09	06/10/09	JWG0901971	
Trichlorofluoromethane	ND	U	20	0.25	1	06/10/09	06/10/09	JWG0901971	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/10/09	06/10/09	JWG0901971	
Acetone	ND	U	50	2.4	1	06/10/09	06/10/09	JWG0901971	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/10/09	06/10/09	JWG0901971	
Carbon Disulfide	ND	U	10	0.84	1	06/10/09	06/10/09	JWG0901971	
Methylene Chloride	ND	U	5.0	0.72	1	06/10/09	06/10/09	JWG0901971	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/10/09	06/10/09	JWG0901971	
Acrylonitrile	ND	U	10	0.59	1	06/10/09	06/10/09	JWG0901971	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/10/09	06/10/09	JWG0901971	
Vinyl Acetate	ND	U	10	0.60	1	06/10/09	06/10/09	JWG0901971	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/10/09	06/10/09	JWG0901971	
2-Butanone (MEK)	ND	U	10	0.56	1	06/10/09	06/10/09	JWG0901971	
Bromochloromethane	ND	U	5.0	0.14	1	06/10/09	06/10/09	JWG0901971	
Chloroform	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901971	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/10/09	06/10/09	JWG0901971	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/10/09	06/10/09	JWG0901971	
Benzene	ND	U	1.0	0.52	1	06/10/09	06/10/09	JWG0901971	
1,2-Dichloroethane (EDC)	ND	UJ	1.0	0.15	1	06/10/09	06/10/09	JWG0901971	J(3)
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/10/09	06/10/09	JWG0901971	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/10/09	06/10/09	JWG0901971	
Dibromomethane	ND	U	5.0	0.12	1	06/10/09	06/10/09	JWG0901971	
Bromodichloromethane	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901971	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/10/09	06/10/09	JWG0901971	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/10/09	06/10/09	JWG0901971	
Toluene	ND	U	1.0	0.52	1	06/10/09	06/10/09	JWG0901971	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/10/09	06/10/09	JWG0901971	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/10/09	06/10/09	JWG0901971	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/10/09	06/10/09	JWG0901971	
2-Hexanone	ND	U	25	0.36	1	06/10/09	06/10/09	JWG0901971	
Dibromochloromethane	ND	U	1.0	0.11	1	06/10/09	06/10/09	JWG0901971	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Collected: 06/02/2009
Date Received: 06/03/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-4B
Lab Code: J0902685-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	1.0	0.18	1	06/10/09	06/10/09	JWG0901971	J(3)
Chlorobenzene	ND	U	1.0	0.15	1	06/10/09	06/10/09	JWG0901971	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.10	1	06/10/09	06/10/09	JWG0901971	J(3)
Ethylbenzene	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901971	
m,p-Xylenes	ND	U	2.0	0.22	1	06/10/09	06/10/09	JWG0901971	
o-Xylene	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901971	
Styrene	ND	U	1.0	0.051	1	06/10/09	06/10/09	JWG0901971	
Bromoform	ND	U	2.0	0.12	1	06/10/09	06/10/09	JWG0901971	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/10/09	06/10/09	JWG0901971	
1,2,3-Trichloropropane	ND	UJ	2.0	0.16	1	06/10/09	06/10/09	JWG0901971	J(3)
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/10/09	06/10/09	JWG0901971	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/10/09	06/10/09	JWG0901971	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/10/09	06/10/09	JWG0901971	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/10/09	06/10/09	JWG0901971	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	89	71-122	06/10/09	Acceptable
4-Bromofluorobenzene	117	75-120	06/10/09	Acceptable
Dibromofluoromethane	87	82-116	06/10/09	Acceptable
Toluene-d8	102	88-117	06/10/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Collected: 06/02/2009
Date Received: 06/03/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: EQ Blank
Lab Code: J0902685-005

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/10/09	06/10/09	JWG0901971	
Vinyl Chloride	ND	U	1.0	0.25	1	06/10/09	06/10/09	JWG0901971	
Bromomethane	ND	U	1.0	0.14	1	06/10/09	06/10/09	JWG0901971	
Chloroethane	ND	U	5.0	0.19	1	06/10/09	06/10/09	JWG0901971	
Trichlorofluoromethane	ND	U	20	0.25	1	06/10/09	06/10/09	JWG0901971	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/10/09	06/10/09	JWG0901971	
Acetone	ND	U	50	2.4	1	06/10/09	06/10/09	JWG0901971	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/10/09	06/10/09	JWG0901971	
Carbon Disulfide	ND	U	10	0.84	1	06/10/09	06/10/09	JWG0901971	
Methylene Chloride	ND	U	5.0	0.72	1	06/10/09	06/10/09	JWG0901971	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/10/09	06/10/09	JWG0901971	
Acrylonitrile	ND	U	10	0.59	1	06/10/09	06/10/09	JWG0901971	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/10/09	06/10/09	JWG0901971	
Vinyl Acetate	ND	U	10	0.60	1	06/10/09	06/10/09	JWG0901971	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/10/09	06/10/09	JWG0901971	
2-Butanone (MEK)	ND	U	10	0.56	1	06/10/09	06/10/09	JWG0901971	
Bromochloromethane	ND	U	5.0	0.14	1	06/10/09	06/10/09	JWG0901971	
Chloroform	**0.58**	I	1.0	0.10	1	06/10/09	06/10/09	JWG0901971	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/10/09	06/10/09	JWG0901971	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/10/09	06/10/09	JWG0901971	
Benzene	ND	U	1.0	0.52	1	06/10/09	06/10/09	JWG0901971	
1,2-Dichloroethane (EDC)	ND	UJ	1.0	0.15	1	06/10/09	06/10/09	JWG0901971	J(3)
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/10/09	06/10/09	JWG0901971	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/10/09	06/10/09	JWG0901971	
Dibromomethane	ND	U	5.0	0.12	1	06/10/09	06/10/09	JWG0901971	
Bromodichloromethane	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901971	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/10/09	06/10/09	JWG0901971	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/10/09	06/10/09	JWG0901971	
Toluene	ND	U	1.0	0.52	1	06/10/09	06/10/09	JWG0901971	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/10/09	06/10/09	JWG0901971	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/10/09	06/10/09	JWG0901971	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/10/09	06/10/09	JWG0901971	
2-Hexanone	ND	U	25	0.36	1	06/10/09	06/10/09	JWG0901971	
Dibromochloromethane	ND	U	1.0	0.11	1	06/10/09	06/10/09	JWG0901971	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Collected: 06/02/2009
Date Received: 06/03/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: EQ Blank
Lab Code: J0902685-005

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	1.0	0.18	1	06/10/09	06/10/09	JWG0901971	J(3)
Chlorobenzene	ND	U	1.0	0.15	1	06/10/09	06/10/09	JWG0901971	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.10	1	06/10/09	06/10/09	JWG0901971	J(3)
Ethylbenzene	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901971	
m,p-Xylenes	ND	U	2.0	0.22	1	06/10/09	06/10/09	JWG0901971	
o-Xylene	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901971	
Styrene	ND	U	1.0	0.051	1	06/10/09	06/10/09	JWG0901971	
Bromoform	ND	U	2.0	0.12	1	06/10/09	06/10/09	JWG0901971	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/10/09	06/10/09	JWG0901971	
1,2,3-Trichloropropane	ND	UJ	2.0	0.16	1	06/10/09	06/10/09	JWG0901971	J(3)
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/10/09	06/10/09	JWG0901971	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/10/09	06/10/09	JWG0901971	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/10/09	06/10/09	JWG0901971	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/10/09	06/10/09	JWG0901971	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	77	71-122	06/10/09	Acceptable
4-Bromofluorobenzene	112	75-120	06/10/09	Acceptable
Dibromofluoromethane	88	82-116	06/10/09	Acceptable
Toluene-d8	99	88-117	06/10/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Collected: 06/02/2009
Date Received: 06/03/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J0902685-006

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/10/09	06/10/09	JWG0901971	
Vinyl Chloride	ND	U	1.0	0.25	1	06/10/09	06/10/09	JWG0901971	
Bromomethane	ND	U	1.0	0.14	1	06/10/09	06/10/09	JWG0901971	
Chloroethane	ND	U	5.0	0.19	1	06/10/09	06/10/09	JWG0901971	
Trichlorofluoromethane	ND	U	20	0.25	1	06/10/09	06/10/09	JWG0901971	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/10/09	06/10/09	JWG0901971	
Acetone	ND	U	50	2.4	1	06/10/09	06/10/09	JWG0901971	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/10/09	06/10/09	JWG0901971	
Carbon Disulfide	ND	U	10	0.84	1	06/10/09	06/10/09	JWG0901971	
Methylene Chloride	ND	U	5.0	0.72	1	06/10/09	06/10/09	JWG0901971	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/10/09	06/10/09	JWG0901971	
Acrylonitrile	ND	U	10	0.59	1	06/10/09	06/10/09	JWG0901971	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/10/09	06/10/09	JWG0901971	
Vinyl Acetate	ND	U	10	0.60	1	06/10/09	06/10/09	JWG0901971	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/10/09	06/10/09	JWG0901971	
2-Butanone (MEK)	ND	U	10	0.56	1	06/10/09	06/10/09	JWG0901971	
Bromochloromethane	ND	U	5.0	0.14	1	06/10/09	06/10/09	JWG0901971	
Chloroform	**0.20**	I	1.0	0.10	1	06/10/09	06/10/09	JWG0901971	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/10/09	06/10/09	JWG0901971	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/10/09	06/10/09	JWG0901971	
Benzene	ND	U	1.0	0.52	1	06/10/09	06/10/09	JWG0901971	
1,2-Dichloroethane (EDC)	ND	UJ	1.0	0.15	1	06/10/09	06/10/09	JWG0901971	J(3)
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/10/09	06/10/09	JWG0901971	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/10/09	06/10/09	JWG0901971	
Dibromomethane	ND	U	5.0	0.12	1	06/10/09	06/10/09	JWG0901971	
Bromodichloromethane	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901971	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/10/09	06/10/09	JWG0901971	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/10/09	06/10/09	JWG0901971	
Toluene	**0.67**	I	1.0	0.52	1	06/10/09	06/10/09	JWG0901971	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/10/09	06/10/09	JWG0901971	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/10/09	06/10/09	JWG0901971	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/10/09	06/10/09	JWG0901971	
2-Hexanone	ND	U	25	0.36	1	06/10/09	06/10/09	JWG0901971	
Dibromochloromethane	ND	U	1.0	0.11	1	06/10/09	06/10/09	JWG0901971	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Collected: 06/02/2009
Date Received: 06/03/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J0902685-006

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	1.0	0.18	1	06/10/09	06/10/09	JWG0901971	J(3)
Chlorobenzene	ND	U	1.0	0.15	1	06/10/09	06/10/09	JWG0901971	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.10	1	06/10/09	06/10/09	JWG0901971	J(3)
Ethylbenzene	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901971	
m,p-Xylenes	ND	U	2.0	0.22	1	06/10/09	06/10/09	JWG0901971	
o-Xylene	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901971	
Styrene	ND	U	1.0	0.051	1	06/10/09	06/10/09	JWG0901971	
Bromoform	ND	U	2.0	0.12	1	06/10/09	06/10/09	JWG0901971	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/10/09	06/10/09	JWG0901971	
1,2,3-Trichloropropane	ND	UJ	2.0	0.16	1	06/10/09	06/10/09	JWG0901971	J(3)
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/10/09	06/10/09	JWG0901971	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/10/09	06/10/09	JWG0901971	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/10/09	06/10/09	JWG0901971	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/10/09	06/10/09	JWG0901971	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	88	71-122	06/10/09	Acceptable
4-Bromofluorobenzene	112	75-120	06/10/09	Acceptable
Dibromofluoromethane	92	82-116	06/10/09	Acceptable
Toluene-d8	99	88-117	06/10/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0901911-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
Vinyl Chloride	ND	U	1.0	0.25	1	06/08/09	06/08/09	JWG0901911	
Bromomethane	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroethane	ND	UJ	5.0	0.19	1	06/08/09	06/08/09	JWG0901911	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/08/09	06/08/09	JWG0901911	
Acetone	ND	U	50	2.4	1	06/08/09	06/08/09	JWG0901911	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/08/09	06/08/09	JWG0901911	
Carbon Disulfide	ND	U	10	0.84	1	06/08/09	06/08/09	JWG0901911	
Methylene Chloride	ND	U	5.0	0.72	1	06/08/09	06/08/09	JWG0901911	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/08/09	06/08/09	JWG0901911	
Acrylonitrile	ND	U	10	0.59	1	06/08/09	06/08/09	JWG0901911	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/08/09	06/08/09	JWG0901911	
Vinyl Acetate	ND	U	10	0.60	1	06/08/09	06/08/09	JWG0901911	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
2-Butanone (MEK)	ND	U	10	0.56	1	06/08/09	06/08/09	JWG0901911	
Bromochloromethane	ND	U	5.0	0.14	1	06/08/09	06/08/09	JWG0901911	
Chloroform	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Benzene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/08/09	06/08/09	JWG0901911	
Dibromomethane	ND	U	5.0	0.12	1	06/08/09	06/08/09	JWG0901911	
Bromodichloromethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/08/09	06/08/09	JWG0901911	
Toluene	ND	U	1.0	0.52	1	06/08/09	06/08/09	JWG0901911	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/08/09	06/08/09	JWG0901911	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/08/09	06/08/09	JWG0901911	
2-Hexanone	ND	U	25	0.36	1	06/08/09	06/08/09	JWG0901911	
Dibromochloromethane	ND	U	1.0	0.11	1	06/08/09	06/08/09	JWG0901911	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0901911-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/08/09	06/08/09	JWG0901911	
Chlorobenzene	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Ethylbenzene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
m,p-Xylenes	ND	U	2.0	0.22	1	06/08/09	06/08/09	JWG0901911	
o-Xylene	ND	U	1.0	0.10	1	06/08/09	06/08/09	JWG0901911	
Styrene	ND	U	1.0	0.051	1	06/08/09	06/08/09	JWG0901911	
Bromoform	ND	U	2.0	0.12	1	06/08/09	06/08/09	JWG0901911	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/08/09	06/08/09	JWG0901911	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/08/09	06/08/09	JWG0901911	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/08/09	06/08/09	JWG0901911	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/08/09	06/08/09	JWG0901911	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/08/09	06/08/09	JWG0901911	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/08/09	06/08/09	JWG0901911	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	76	71-122	06/08/09	Acceptable
4-Bromofluorobenzene	110	75-120	06/08/09	Acceptable
Dibromofluoromethane	84	82-116	06/08/09	Acceptable
Toluene-d8	97	88-117	06/08/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0901971-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/10/09	06/10/09	JWG0901971	
Vinyl Chloride	ND	U	1.0	0.25	1	06/10/09	06/10/09	JWG0901971	
Bromomethane	ND	U	1.0	0.14	1	06/10/09	06/10/09	JWG0901971	
Chloroethane	ND	U	5.0	0.19	1	06/10/09	06/10/09	JWG0901971	
Trichlorofluoromethane	ND	U	20	0.25	1	06/10/09	06/10/09	JWG0901971	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/10/09	06/10/09	JWG0901971	
Acetone	ND	U	50	2.4	1	06/10/09	06/10/09	JWG0901971	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/10/09	06/10/09	JWG0901971	
Carbon Disulfide	ND	U	10	0.84	1	06/10/09	06/10/09	JWG0901971	
Methylene Chloride	ND	U	5.0	0.72	1	06/10/09	06/10/09	JWG0901971	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/10/09	06/10/09	JWG0901971	
Acrylonitrile	ND	U	10	0.59	1	06/10/09	06/10/09	JWG0901971	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/10/09	06/10/09	JWG0901971	
Vinyl Acetate	ND	U	10	0.60	1	06/10/09	06/10/09	JWG0901971	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/10/09	06/10/09	JWG0901971	
2-Butanone (MEK)	ND	U	10	0.56	1	06/10/09	06/10/09	JWG0901971	
Bromochloromethane	ND	U	5.0	0.14	1	06/10/09	06/10/09	JWG0901971	
Chloroform	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901971	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/10/09	06/10/09	JWG0901971	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/10/09	06/10/09	JWG0901971	
Benzene	ND	U	1.0	0.52	1	06/10/09	06/10/09	JWG0901971	
1,2-Dichloroethane (EDC)	ND	UJ	1.0	0.15	1	06/10/09	06/10/09	JWG0901971	J(3)
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/10/09	06/10/09	JWG0901971	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/10/09	06/10/09	JWG0901971	
Dibromomethane	ND	U	5.0	0.12	1	06/10/09	06/10/09	JWG0901971	
Bromodichloromethane	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901971	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/10/09	06/10/09	JWG0901971	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/10/09	06/10/09	JWG0901971	
Toluene	ND	U	1.0	0.52	1	06/10/09	06/10/09	JWG0901971	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/10/09	06/10/09	JWG0901971	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/10/09	06/10/09	JWG0901971	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/10/09	06/10/09	JWG0901971	
2-Hexanone	ND	U	25	0.36	1	06/10/09	06/10/09	JWG0901971	
Dibromochloromethane	ND	U	1.0	0.11	1	06/10/09	06/10/09	JWG0901971	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0901971-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	1.0	0.18	1	06/10/09	06/10/09	JWG0901971	J(3)
Chlorobenzene	ND	U	1.0	0.15	1	06/10/09	06/10/09	JWG0901971	
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.10	1	06/10/09	06/10/09	JWG0901971	J(3)
Ethylbenzene	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901971	
m,p-Xylenes	ND	U	2.0	0.22	1	06/10/09	06/10/09	JWG0901971	
o-Xylene	ND	U	1.0	0.10	1	06/10/09	06/10/09	JWG0901971	
Styrene	ND	U	1.0	0.051	1	06/10/09	06/10/09	JWG0901971	
Bromoform	ND	U	2.0	0.12	1	06/10/09	06/10/09	JWG0901971	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/10/09	06/10/09	JWG0901971	
1,2,3-Trichloropropane	ND	UJ	2.0	0.16	1	06/10/09	06/10/09	JWG0901971	J(3)
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/10/09	06/10/09	JWG0901971	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/10/09	06/10/09	JWG0901971	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/10/09	06/10/09	JWG0901971	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/10/09	06/10/09	JWG0901971	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	82	71-122	06/10/09	Acceptable
4-Bromofluorobenzene	110	75-120	06/10/09	Acceptable
Dibromofluoromethane	89	82-116	06/10/09	Acceptable
Toluene-d8	99	88-117	06/10/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902685
Project:	JED SWDF/FQ1512A	**Date Collected:**	06/02/2009
Sample Matrix:	Water	**Date Received:**	06/03/2009

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

Sample Name:	MW-3A	**Units:**	ug/L
Lab Code:	J0902685-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	06/11/09	06/12/09	JWG0901979	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	06/11/09	06/12/09	JWG0901979	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	110	77-150	06/12/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902685
Project:	JED SWDF/FQ1512A	**Date Collected:**	06/02/2009
Sample Matrix:	Water	**Date Received:**	06/03/2009

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

Sample Name:	MW-3B	**Units:**	ug/L
Lab Code:	J0902685-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	06/11/09	06/12/09	JWG0901979	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	06/11/09	06/12/09	JWG0901979	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	120	77-150	06/12/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902685
Project:	JED SWDF/FQ1512A	**Date Collected:**	06/02/2009
Sample Matrix:	Water	**Date Received:**	06/03/2009

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

Sample Name:	MW-4A	**Units:**	ug/L
Lab Code:	J0902685-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	06/11/09	06/12/09	JWG0901979	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	06/11/09	06/12/09	JWG0901979	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	117	77-150	06/12/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902685
Project:	JED SWDF/FQ1512A	**Date Collected:**	06/02/2009
Sample Matrix:	Water	**Date Received:**	06/03/2009

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

Sample Name:	MW-4B	**Units:**	ug/L
Lab Code:	J0902685-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	06/11/09	06/12/09	JWG0901979	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	06/11/09	06/12/09	JWG0901979	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	117	77-150	06/12/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902685
Project:	JED SWDF/FQ1512A	**Date Collected:**	06/02/2009
Sample Matrix:	Water	**Date Received:**	06/03/2009

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

Sample Name:	EQ Blank	**Units:**	ug/L
Lab Code:	J0902685-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	06/11/09	06/12/09	JWG0901979	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	06/11/09	06/12/09	JWG0901979	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	120	77-150	06/12/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902685
Project:	JED SWDF/FQ1512A	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

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

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG0901979-3	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	06/11/09	06/12/09	JWG0901979	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	06/11/09	06/12/09	JWG0901979	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	119	77-150	06/12/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902685
Project:	JED SWDF/FQ1512A	**Date Collected:**	6/ 2/09 0835
Sample Matrix:	Water	**Date Received:**	6/ 3/09
Sample Name:	MW-3A		
Lab Code:	J0902685-001	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 4/09	6/10/09 00:28
Arsenic, Total	6020	**0.68**		µg/L	0.50	0.20	1	6/ 4/09	6/10/09 00:28
Barium, Total	6020	**45.8**		µg/L	2.0	0.5	1	6/ 4/09	6/10/09 00:28
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 4/09	6/12/09 00:46
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 4/09	6/10/09 00:28
Chromium, Total	6020	**1.4**	I	µg/L	2.0	0.8	1	6/ 4/09	6/10/09 00:28
Cobalt, Total	6020	**0.6**	I	µg/L	1.0	0.2	1	6/ 4/09	6/10/09 00:28
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 4/09	6/10/09 00:28
Iron, Total	6010B	**2210**		µg/L	50	4	1	6/ 8/09	6/11/09 15:07
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 4/09	6/10/09 00:28
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/10/09	6/11/09 15:53
Nickel, Total	6020	**0.7**	I	µg/L	2.0	0.3	1	6/ 4/09	6/10/09 00:28
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 4/09	6/10/09 00:28
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 4/09	6/10/09 00:28
Sodium, Total	6010B	**27.0**		mg/L	0.50	0.02	1	6/ 8/09	6/11/09 15:07
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 4/09	6/10/09 00:28
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	6/ 4/09	6/10/09 00:28
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 4/09	6/10/09 00:28

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902685
Project:	JED SWDF/FQ1512A	**Date Collected:**	6/ 2/09 0900
Sample Matrix:	Water	**Date Received:**	6/ 3/09
Sample Name:	MW-3B		
Lab Code:	J0902685-002	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	**0.5**	I	µg/L	2.0	0.4	1	6/ 4/09	6/10/09 00:53
Arsenic, Total	6020	**0.33**	I	µg/L	0.50	0.20	1	6/ 4/09	6/10/09 00:53
Barium, Total	6020	**28.5**		µg/L	2.0	0.5	1	6/ 4/09	6/10/09 00:53
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 4/09	6/12/09 01:10
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 4/09	6/10/09 00:53
Chromium, Total	6020	**1**	I	µg/L	2.0	0.8	1	6/ 4/09	6/10/09 00:53
Cobalt, Total	6020	**0.5**	I	µg/L	1.0	0.2	1	6/ 4/09	6/10/09 00:53
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 4/09	6/10/09 00:53
Iron, Total	6010B	**1830**		µg/L	50	4	1	6/ 8/09	6/11/09 15:11
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 4/09	6/10/09 00:53
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/10/09	6/11/09 15:57
Nickel, Total	6020	**0.5**	I	µg/L	2.0	0.3	1	6/ 4/09	6/10/09 00:53
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 4/09	6/10/09 00:53
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 4/09	6/10/09 00:53
Sodium, Total	6010B	**10.9**		mg/L	0.50	0.02	1	6/ 8/09	6/11/09 15:11
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 4/09	6/10/09 00:53
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	6/ 4/09	6/10/09 00:53
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 4/09	6/10/09 00:53

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Sample Name: MW-4A
Lab Code: J0902685-003

Service Request: J0902685
Date Collected: 6/ 2/09 0703
Date Received: 6/ 3/09

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 4/09	6/10/09 01:08
Arsenic, Total	6020	**1.39**		µg/L	0.50	0.20	1	6/ 4/09	6/10/09 01:08
Barium, Total	6020	**51.8**		µg/L	2.0	0.5	1	6/ 4/09	6/10/09 01:08
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 4/09	6/12/09 14:11
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 4/09	6/10/09 01:08
Chromium, Total	6020	**1.5**	I	µg/L	2.0	0.8	1	6/ 4/09	6/10/09 01:08
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 4/09	6/10/09 01:08
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 4/09	6/10/09 01:08
Iron, Total	6010B	**1690**		µg/L	50	4	1	6/ 8/09	6/11/09 15:26
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 4/09	6/10/09 01:08
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/10/09	6/11/09 15:59
Nickel, Total	6020	**1.0**	I	µg/L	2.0	0.3	1	6/ 4/09	6/10/09 01:08
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 4/09	6/10/09 01:08
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 4/09	6/10/09 01:08
Sodium, Total	6010B	**20.2**		mg/L	0.50	0.02	1	6/ 8/09	6/11/09 15:26
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 4/09	6/10/09 01:08
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	6/ 4/09	6/10/09 01:08
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 4/09	6/10/09 01:08

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Sample Name: MW-4B
Lab Code: J0902685-004

Service Request: J0902685
Date Collected: 6/ 2/09 0720
Date Received: 6/ 3/09

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 4/09	6/10/09 01:13
Arsenic, Total	6020	**1.12**		µg/L	0.50	0.20	1	6/ 4/09	6/10/09 01:13
Barium, Total	6020	**66.3**		µg/L	2.0	0.5	1	6/ 4/09	6/10/09 01:13
Beryllium, Total	6020	**0.5**	I	µg/L	1.0	0.2	1	6/ 4/09	6/12/09 14:16
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 4/09	6/10/09 01:13
Chromium, Total	6020	**2.6**		µg/L	2.0	0.8	1	6/ 4/09	6/10/09 01:13
Cobalt, Total	6020	**0.9**	I	µg/L	1.0	0.2	1	6/ 4/09	6/10/09 01:13
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 4/09	6/10/09 01:13
Iron, Total	6010B	**7560**		µg/L	50	4	1	6/ 8/09	6/11/09 15:37
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 4/09	6/10/09 01:13
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/10/09	6/11/09 16:00
Nickel, Total	6020	**2.5**		µg/L	2.0	0.3	1	6/ 4/09	6/10/09 01:13
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 4/09	6/10/09 01:13
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 4/09	6/10/09 01:13
Sodium, Total	6010B	**34.3**		mg/L	0.50	0.02	1	6/ 8/09	6/11/09 15:36
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 4/09	6/10/09 01:13
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	6/ 4/09	6/10/09 01:13
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 4/09	6/10/09 01:13

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902685
Project:	JED SWDF/FQ1512A	**Date Collected:**	6/ 2/09 0735
Sample Matrix:	Water	**Date Received:**	6/ 3/09
Sample Name:	EQ Blank		
Lab Code:	J0902685-005	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 4/09	6/10/09 01:18
Arsenic, Total	6020	ND	U	µg/L	0.50	0.20	1	6/ 4/09	6/10/09 01:18
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	6/ 4/09	6/10/09 01:18
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 4/09	6/12/09 14:21
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 4/09	6/10/09 01:18
Chromium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 4/09	6/10/09 01:18
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 4/09	6/10/09 01:18
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 4/09	6/10/09 01:18
Iron, Total	6010B	ND	U	µg/L	50	4	1	6/ 8/09	6/11/09 15:40
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 4/09	6/10/09 01:18
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/10/09	6/11/09 16:02
Nickel, Total	6020	**0.3**	I	µg/L	2.0	0.3	1	6/ 4/09	6/10/09 01:18
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 4/09	6/10/09 01:18
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 4/09	6/10/09 01:18
Sodium, Total	6010B	**0.09**	I	mg/L	0.50	0.02	1	6/ 8/09	6/11/09 15:40
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 4/09	6/10/09 01:18
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	6/ 4/09	6/10/09 01:18
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 4/09	6/10/09 01:18

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902685
Project:	JED SWDF/FQ1512A	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	J0902685-MB	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 4/09	6/10/09 00:13
Arsenic, Total	6020	ND	U	µg/L	0.50	0.20	1	6/ 4/09	6/10/09 00:13
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	6/ 4/09	6/10/09 00:13
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 4/09	6/12/09 00:32
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 4/09	6/10/09 00:13
Chromium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 4/09	6/10/09 00:13
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 4/09	6/10/09 00:13
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 4/09	6/10/09 00:13
Iron, Total	6010B	ND	U	µg/L	50	4	1	6/ 8/09	6/11/09 15:01
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 4/09	6/10/09 00:13
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/10/09	6/11/09 15:25
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 4/09	6/10/09 00:13
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 4/09	6/10/09 00:13
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 4/09	6/10/09 00:13
Sodium, Total	6010B	ND	U	mg/L	0.50	0.02	1	6/ 8/09	6/11/09 15:01
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 4/09	6/10/09 00:13
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	6/ 4/09	6/10/09 00:13
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 4/09	6/10/09 00:13

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902685
Date Collected : 06/02/09
Date Received : 06/03/09

Inorganic Parameters

Sample Name : MW-3A
Lab Code : J0902685-001
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.1	0.05	2	06/12/09 14:40	6.4	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	06/03/09 11:04	50	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	06/03/09 11:04	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/08/09 12:55	250	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902685
Date Collected : 06/02/09
Date Received : 06/03/09

Inorganic Parameters

Sample Name : MW-3B
Lab Code : J0902685-002
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/12/09 14:40	0.17	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	06/03/09 11:04	26	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	06/03/09 11:04	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/08/09 12:55	82	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902685
Date Collected : 06/02/09
Date Received : 06/03/09

Inorganic Parameters

Sample Name : MW-4A
Lab Code : J0902685-003
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/12/09 14:40	5.8	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	06/03/09 11:04	53	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	06/03/09 11:04	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/08/09 12:55	150	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902685
Date Collected : 06/02/09
Date Received : 06/03/09

Inorganic Parameters

Sample Name : MW-4B
Lab Code : J0902685-004
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/12/09 14:40	2.3	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	06/03/09 11:04	49	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	06/03/09 11:04	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/08/09 12:55	280	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902685
Date Collected : 06/02/09
Date Received : 06/03/09

Inorganic Parameters

Sample Name : EQ Blank
Lab Code : J0902685-005
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/12/09 14:40	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	06/03/09 11:04	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	06/03/09 11:04	0.15	i
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/08/09 12:55	U	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902685
Date Collected : NA
Date Received : NA

Inorganic Parameters

Sample Name : Method Blank
Lab Code : J0902685-MB
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/12/09 14:40	U	
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/12/09 14:40	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	06/03/09 11:04	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	06/03/09 11:04	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/08/09 12:55	U	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685

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

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
MW-3A	J0902685-001	76	105	84	97
MW-3B	J0902685-002	74	107	83	93
MW-4A	J0902685-003	78	107	90	97
MW-4B	J0902685-004	89	117	87	102
EQ Blank	J0902685-005	77	112	88	99
Trip Blank	J0902685-006	88	112	92	99
Method Blank	JWG0901911-4	76	110	84	97
Method Blank	JWG0901971-4	82	110	89	99
Lab Control Sample	JWG0901911-3	77	107	87	96
Lab Control Sample	JWG0901971-3	74	109	85	100

Surrogate Recovery Control Limits (%)

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

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

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Extracted: 06/08/2009
Date Analyzed: 06/08/2009

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

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0901911

Analyte Name	Lab Control Sample JWG0901911-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Chloromethane	20.2	20.0	101	67-135
Vinyl Chloride	22.5	20.0	112	78-132
Bromomethane	17.4	20.0	87	79-130
Chloroethane	25.5	20.0	127 *	74-126
Trichlorofluoromethane	19.9	20.0	99	74-134
1,1-Dichloroethene	19.4	20.0	97	78-130
Acetone	106	100	106	67-133
Iodomethane (Methyl Iodide)	82.8	100	83	68-134
Carbon Disulfide	117	100	117	76-138
Methylene Chloride	19.8	20.0	99	72-124
trans-1,2-Dichloroethene	19.5	20.0	98	77-124
Acrylonitrile	115	100	115	77-127
1,1-Dichloroethane	19.8	20.0	99	80-128
Vinyl Acetate	104	100	104	61-148
cis-1,2-Dichloroethene	19.1	20.0	96	80-126
2-Butanone (MEK)	108	100	108	73-127
Bromochloromethane	22.2	20.0	111	79-129
Chloroform	18.3	20.0	91	83-124
1,1,1-Trichloroethane (TCA)	17.3	20.0	87	79-124
Carbon Tetrachloride	17.3	20.0	87	81-125
Benzene	20.0	20.0	100	79-119
1,2-Dichloroethane (EDC)	17.1	20.0	85	80-124
Trichloroethene (TCE)	17.9	20.0	90	76-124
1,2-Dichloropropane	21.3	20.0	107	79-123
Dibromomethane	19.2	20.0	96	83-123
Bromodichloromethane	18.4	20.0	92	81-123
cis-1,3-Dichloropropene	20.1	20.0	100	86-123
4-Methyl-2-pentanone (MIBK)	107	100	107	72-136
Toluene	21.0	20.0	105	86-117
trans-1,3-Dichloropropene	19.4	20.0	97	83-124
1,1,2-Trichloroethane	19.5	20.0	98	86-114
Tetrachloroethene (PCE)	18.1	20.0	90	80-121
2-Hexanone	111	100	111	71-138
Dibromochloromethane	18.1	20.0	91	82-121
1,2-Dibromoethane (EDB)	19.0	20.0	95	88-117
Chlorobenzene	18.6	20.0	93	86-113

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

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

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Extracted: 06/08/2009
Date Analyzed: 06/08/2009

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

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0901911

Analyte Name	Lab Control Sample JWG0901911-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	18.4	20.0	92	85-117
Ethylbenzene	19.3	20.0	97	90-118
m,p-Xylenes	38.4	40.0	96	86-121
o-Xylene	19.0	20.0	95	89-119
Styrene	19.3	20.0	96	89-122
Bromoform	18.5	20.0	92	68-129
1,1,2,2-Tetrachloroethane	20.7	20.0	103	83-120
1,2,3-Trichloropropane	18.3	20.0	91	83-123
1,4-Dichlorobenzene	18.4	20.0	92	83-113
trans-1,4-Dichloro-2-butene	19.1	20.0	96	53-143
1,2-Dichlorobenzene	18.3	20.0	91	84-115
1,2-Dibromo-3-chloropropane (DBCP	16.9	20.0	85	62-123

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

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

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Extracted: 06/10/2009
Date Analyzed: 06/10/2009

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

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0901971

Analyte Name	Lab Control Sample JWG0901971-3 Lab Control Spike Result	Expected	%Rec		%Rec Limits
Chloromethane	18.7	20.0	93		67-135
Vinyl Chloride	19.9	20.0	100		78-132
Bromomethane	17.2	20.0	86		79-130
Chloroethane	25.2	20.0	126		74-126
Trichlorofluoromethane	18.4	20.0	92		74-134
1,1-Dichloroethene	18.6	20.0	93		78-130
Acetone	93.1	100	93		67-133
Iodomethane (Methyl Iodide)	115	100	115		68-134
Carbon Disulfide	126	100	126		76-138
Methylene Chloride	19.0	20.0	95		72-124
trans-1,2-Dichloroethene	18.3	20.0	92		77-124
Acrylonitrile	108	100	108		77-127
1,1-Dichloroethane	19.3	20.0	96		80-128
Vinyl Acetate	87.8	100	88		61-148
cis-1,2-Dichloroethene	17.6	20.0	88		80-126
2-Butanone (MEK)	96.2	100	96		73-127
Bromochloromethane	21.9	20.0	109		79-129
Chloroform	17.9	20.0	89		83-124
1,1,1-Trichloroethane (TCA)	16.8	20.0	84		79-124
Carbon Tetrachloride	16.3	20.0	82		81-125
Benzene	19.1	20.0	96		79-119
1,2-Dichloroethane (EDC)	14.9	20.0	75	*	80-124
Trichloroethene (TCE)	17.2	20.0	86		76-124
1,2-Dichloropropane	20.6	20.0	103		79-123
Dibromomethane	17.3	20.0	87		83-123
Bromodichloromethane	17.2	20.0	86		81-123
cis-1,3-Dichloropropene	18.7	20.0	93		86-123
4-Methyl-2-pentanone (MIBK)	97.0	100	97		72-136
Toluene	19.5	20.0	97		86-117
trans-1,3-Dichloropropene	17.7	20.0	89		83-124
1,1,2-Trichloroethane	17.4	20.0	87		86-114
Tetrachloroethene (PCE)	17.2	20.0	86		80-121
2-Hexanone	98.9	100	99		71-138
Dibromochloromethane	17.0	20.0	85		82-121
1,2-Dibromoethane (EDB)	16.9	20.0	85	*	88-117
Chlorobenzene	18.0	20.0	90		86-113

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

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

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Extracted: 06/10/2009
Date Analyzed: 06/10/2009

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

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0901971

Analyte Name	Lab Control Sample JWG0901971-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	16.5	20.0	83 *	85-117
Ethylbenzene	18.6	20.0	93	90-118
m,p-Xylenes	37.7	40.0	94	86-121
o-Xylene	18.2	20.0	91	89-119
Styrene	17.8	20.0	89	89-122
Bromoform	16.2	20.0	81	68-129
1,1,2,2-Tetrachloroethane	19.4	20.0	97	83-120
1,2,3-Trichloropropane	15.8	20.0	79 *	83-123
1,4-Dichlorobenzene	17.9	20.0	89	83-113
trans-1,4-Dichloro-2-butene	20.9	20.0	105	53-143
1,2-Dichlorobenzene	17.4	20.0	87	84-115
1,2-Dibromo-3-chloropropane (DBCP	13.8	20.0	69	62-123

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

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

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685

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

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
MW-3A	J0902685-001	110
MW-3B	J0902685-002	120
MW-4A	J0902685-003	117
MW-4B	J0902685-004	117
EQ Blank	J0902685-005	120
Method Blank	JWG0901979-3	119
Lab Control Sample	JWG0901979-1	121
Duplicate Lab Control Sample	JWG0901979-2	116

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.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Extracted: 06/11/2009
Date Analyzed: 06/12/2009

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: JWG0901979

	Lab Control Sample JWG0901979-1 Lab Control Spike			Duplicate Lab Control Sample JWG0901979-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,2-Dibromoethane (EDB)	0.304	0.250	122	0.298	0.250	119	70-130	2	20
1,2-Dibromo-3-chloropropane (DBCP	0.264	0.250	106	0.252	0.250	101	70-130	5	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: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Collected: 6/2/09
Date Received: 6/3/09
Date Analyzed: 6/10/09 - 6/12/09

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-3A
Lab Code: J0902685-001

Units: µg/L
Basis: NA

Analytical Method: 6020
Prep Method: EPA 3020A

Analyte Name	Sample Result	Matrix Spike J0902685-MS1 Result	Expected	% Rec		Duplicate Matrix Spike J0902685-DMS1 Result	Expected	% Rec		% Rec Limits	RPD	RPD Limit
Antimony, Total	ND	49.8	50.0	100		48.8	50.0	98		75 - 125	2	20
Arsenic, Total	0.68	49.8	50.0	98		48.7	50.0	96		75 - 125	2	20
Barium, Total	45.8	102	50.0	112		102	50.0	113		75 - 125	0	20
Beryllium, Total	ND	49.8	50.0	100		48.8	50.0	98		75 - 125	2	20
Cadmium, Total	ND	48.5	50.0	97		49.2	50.0	98		75 - 125	1	20
Chromium, Total	1.4	51.2	50.0	100		51.1	50.0	99		75 - 125	0	20
Cobalt, Total	0.6	50.5	50.0	100		49.5	50.0	98		75 - 125	2	20
Copper, Total	ND	49.2	50.0	98		48.8	50.0	98		75 - 125	1	20
Lead, Total	ND	53.5	50.0	107		53.1	50.0	106		75 - 125	1	20
Nickel, Total	0.7	49.2	50.0	97		49.2	50.0	97		75 - 125	0	20
Selenium, Total	ND	33.6	50.0	67	*	32.8	50.0	66	*	75 - 125	2	20
Silver, Total	ND	50.9	50.0	102		51.2	50.0	102		75 - 125	1	20
Thallium, Total	ND	53.3	50.0	107		53.2	50.0	106		75 - 125	0	20
Vanadium, Total	ND	49.7	50.0	99		49.7	50.0	99		75 - 125	0	20
Zinc, Total	ND	92.7	100	93		92.3	100	92		75 - 125	0	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Collected: 6/2/09
Date Received: 6/3/09
Date Analyzed: 6/11/09

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-3B
Lab Code: J0902685-002

Units: µg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3010A

Analyte Name	Sample Result	Matrix Spike J0902685-MS2 Result	Expected	% Rec	Duplicate Matrix Spike J0902685-DMS2 Result	Expected	% Rec	% Rec Limits	RPD	RPD Limit
Iron, Total	1830	3740	2000	95	3670	2000	92	75 - 125	2	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Collected: 6/2/09
Date Received: 6/3/09
Date Analyzed: 6/11/09

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-3B
Lab Code: J0902685-002

Units: mg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3010A

Analyte Name	Sample Result	Matrix Spike J0902685-MS2 Result	Expected	% Rec	Duplicate Matrix Spike J0902685-DMS2 Result	Expected	% Rec	% Rec Limits	RPD	RPD Limit
Sodium, Total	10.9	20.3	10.0	94	20.5	10.0	96	75 - 125	1	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Analyzed: 6/10/09 - 6/12/09

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0902685-LCS2 Result	Expected	% Rec	% Rec Limits
Antimony, Total	6020	**48.4**	50.0	97	80 - 120
Arsenic, Total	6020	**48.0**	50.0	96	80 - 120
Barium, Total	6020	**52.5**	50.0	105	80 - 120
Beryllium, Total	6020	**48.8**	50.0	98	80 - 120
Cadmium, Total	6020	**49.1**	50.0	98	80 - 120
Chromium, Total	6020	**49.3**	50.0	99	80 - 120
Cobalt, Total	6020	**48.3**	50.0	97	80 - 120
Copper, Total	6020	**50.3**	50.0	101	80 - 120
Iron, Total	6010B	**1960**	2000	98	80 - 120
Lead, Total	6020	**51.8**	50.0	104	80 - 120
Nickel, Total	6020	**47.7**	50.0	95	80 - 120
Selenium, Total	6020	**45.9**	50.0	92	80 - 120
Silver, Total	6020	**51.2**	50.0	102	80 - 120
Thallium, Total	6020	**52.0**	50.0	104	80 - 120
Vanadium, Total	6020	**47.9**	50.0	96	80 - 120
Zinc, Total	6020	**93.2**	100	93	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Analyzed: 6/11/09

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0902685-LCS2 Result	Expected	% Rec	% Rec Limits
Sodium, Total	6010B	**10.1**	10.0	101	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902685
Date Analyzed: 6/11/09

Lab Control Sample Summary
Mercury, Total in Liquid Waste (Manual Cold-Vapor Technique)

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0902685-LCS1 Result	Expected	% Rec	Duplicate Lab Control Sample J0902685-DLCS1 Result	Expected	% Rec	% Rec Limits	RPD	RPD Limit
Mercury, Total	7470A	**5.04**	5.00	101	**5.18**	5.00	104	80 - 120	3	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902685
Date Collected : 06/02/09
Date Received : 06/03/09
Date Extracted : NA
Date Analyzed : 06/03-12/09

Duplicate Summary
Inorganic Parameters

Sample Name : MW-3A
Lab Code : J0902685-001DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.1	6.4	6.4	6.4	<1	
Chloride	mg/L (ppm)	300.0	0.2	50	50	50	<1	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	U	U	U	-	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902685
Date Collected : 06/02/09
Date Received : 06/03/09
Date Extracted : NA
Date Analyzed : 06/03-12/09

Matrix Spike Summary
Inorganic Parameters

Sample Name : MW-3A
Lab Code : J0902685-001MS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.1	10.0	6.4	17.0	106	90-110	
Chloride	mg/L (ppm)	300.0	0.2	100	50	152	102	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	5.0	U	5.07	101	90-110	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	GeoSyntec Consultants	**Service Request :**	J0902685
Project Name :	JED SWDF	**Date Collected :**	NA
Project Number :	FQ1512A	**Date Received :**	NA
Sample Matrix :	WATER	**Date Extracted :**	NA
		Date Analyzed :	06/03-12/09

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Laboratory Control Sample
Lab Code : J0902685-LCS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	5.00	5.11	102	90-110	
Ammonia as Nitrogen	mg/L (ppm)	350.1	5.00	5.07	101	90-110	
Chloride	mg/L (ppm)	300.0	100	103	103	90-110	
Chloride	mg/L (ppm)	300.0	5.00	5.09	102	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	4.93	99	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	300	313	104	85-115	

Report By: Palimi

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

Client: Geosyntec Service Request # 500 2685

Project: JED SWDF

Cooler received on 6-3-09 and opened on 6-3-09 by GB

COURIER: CAS UPS (FEDEX) DHL CLIENT Tracking # 867338949639

1	Were custody seals on outside of cooler?	(Yes)	No	N/A
2	Were seals intact, signed and dated?	(Yes)	No	N/A
3	Were custody papers properly filled out?	(Yes)	No	N/A
4	Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C) 2.9 °C			
5	Correct Temperature?	(Yes)	No	N/A
6	Were Ice or Ice Packs present	(Yes)	No	N/A
7	Did all bottles arrive in good condition (unbroken, etc....)?	(Yes)	No	N/A
8	Were all bottle labels complete (sample ID, preservation, etc....)?	(Yes)	No	N/A
9	Did all bottle labels and tags agree with custody papers?	(Yes)	No	N/A
10	Were the correct bottles used for the tests indicated?	(Yes)	No	N/A
11	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 5260)

Preservative additions noted below

12	Were all samples received within analysis holding times?	(Yes)	No	N/A
13	Were VOA vials checked for absence of air bubbles? If present, note below	(Yes)	No	N/A
14	Where did the bottles originate?	(CAS)	Client	

Sample ID	Reagent	Manuf. Lot # or CAS Chem ID	ml added	Inititials

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

Client approval to run samples if discrepancies noted: Date: 6-4-09

SR #: J0902685 Date: 6-3-09 Initials: GB

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

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

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

Columbia Analytical Services

www.caslab.com

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

PAGE 1 OF 1

SR # J0902685

CAS Contact

Project Name: JED SWDF	Project Number: FQ1512A
Project Manager: Kirk Wills	Email Address: kwills@geosyntec.com
Company/Address: Geosyntec	
14055 Riveredge Dr. Ste 300	
Tampa, FL 33637	
Phone #: 813-558-0490	FAX#: 813-558-9726
Sampler's Signature: Joe Terry	Sampler's Printed Name: Joe Terry

ANALYSIS REQUESTED (Include Method Number and [redacted])

PRESERVATIVE: 1 0 2 3 0

NUMBER OF CONTAINERS

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	8260	8011	Metals	NH3, TDS, Cl, NO3	REMARKS/ ALTERNATE DESCRIPTION
MW-3A		6-2-09	0835	GW	X	X	X	X	X	
MW-3B			0900	GW					
MW-4A			0703	GW					
MW-4B			0720	GW					
EQ Blank			0735	DI Water					
Trip Blank				W					

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

SPECIAL INSTRUCTIONS/COMMENTS

See QAPP ☐

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

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

INVOICE INFORMATION
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Joe Terry	Signature: FedEx	Signature: FedEx	Signature: [illegible]	Signature:	Signature:
Printed Name: Joe Terry	Printed Name:	Printed Name:	Printed Name: [illegible]	Printed Name:	Printed Name:
Firm: Geosyntec	Firm:	Firm:	Firm: CAS	Firm:	Firm:
Date/Time: 6-2-09 / 1330	Date/Time:	Date/Time:	Date/Time: 6-3-09 0905	Date/Time:	Date/Time:

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

JSCOC-06/20/08

9143 Philips Highway, Suite 200 Jacksonville, FL 32256 (904) 739-2277 (904) 739-2011 fax

Columbia Analytical Services INC.
An Employee - Owned Company

June 15, 2009

Service Request No: J0902568

Kirk Wills
GeoSyntec Consultants
14055 Riveredge Drive
Suite 300
Tampa, FL 33637

Laboratory Results for: JED SWDF/FQ1512A

Dear Kirk:

Enclosed are the results of the sample(s) submitted to our laboratory on May 28, 2009. For your reference, these analyses have been assigned our service request number **J0902568**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. In accordance to the NELAC 2003 Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

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

Respectfully submitted,

Columbia Analytical Services, Inc.

Craig Myers
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502 valid through 6/30/09. Other state accreditations include: Georgia, #958 valid through 6/30/09; Louisiana, #02086 valid through 6/30/09; Texas, #T104704197-06-TX valid through 5/31/09; North Carolina, #527 valid through 12/31/09; South Carolina, #96021001 valid through 6/30/09.

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	GeoSyntec Consultants	**Service Request No.:**	J0902568
Project:	JED SWDF	**Date Received:**	5/28/09
Sample Matrix:	Water		

CASE NARRATIVE

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

Sample Receipt

Nine water samples and one trip blank were received for analysis at Columbia Analytical Services on 5/28/09. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

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

Matrix Spike Recovery Exceptions

The matrix spike recovery of Bromomethane for sample MW-1B was outside the control criterion. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. No further corrective action was appropriate.

The matrix spike recovery of Chloroethane for sample MW-1B 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.

Relative Percent Difference Exceptions

The Relative Percent Difference (RPD) for the following analyte in the replicate matrix spike analyses of sample MW-1B was outside control criteria: 1,2-Dibromo-3-chloropropane (DBCP). 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.

Lab Control Sample Exceptions

The spike recovery of Chloroethane for Laboratory Control Sample (LCS) JWG0901881-3 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.

Approved by _____ **Date** 6/15/09

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.

Lab Control Sample Exceptions

The spike recoveries of 1,2-Dibromoethane for Laboratory Control Sample (LCS) JWG0901850-1 and of 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane for Duplicate laboratory Control Sample (DLCS) JWG0901850-2 were outside the upper control criteria. The analytes in question were not detected in the associated field samples. The error associated with elevated recovery equates to high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Metals by ICP-MS/ICP-OES/CVAA

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

Matrix Spike Recovery Exceptions

The matrix spike recovery of Selenium for sample MW-1A was outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. No further corrective action was appropriate.

Sample Notes and Discussion

The dissolved sample container for sample MW-19A contained visible particulate matter.

Batch QC Notes and Discussion

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

General Chemistry Parameters

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

Batch QC Notes and Discussion

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

Approved by _____ **Date** 6/15/09

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: GeoSyntec Consultants
Project: JED SWDF/FQ1512A

Service Request: J0902568

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J0902568-001	MW-1A	5/27/09	12:45
J0902568-002	MW-1B	5/27/09	13:00
J0902568-003	MW-2A	5/27/09	13:47
J0902568-004	MW-2B	5/27/09	14:05
J0902568-005	MW-16A	5/27/09	07:55
J0902568-006	MW-16B	5/27/09	09:15
J0902568-007	MW-16C	5/27/09	07:40
J0902568-008	MW-19A	5/27/09	10:55
J0902568-009	MW-19B	5/27/09	10:08
J0902568-010	Trip Blank	5/27/09	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 05/27/2009
Date Received: 05/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-1A
Lab Code: J0902568-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/02/09	06/02/09	JWG0901881	
Vinyl Chloride	ND	U	1.0	0.25	1	06/02/09	06/02/09	JWG0901881	
Bromomethane	ND	U	1.0	0.14	1	06/02/09	06/02/09	JWG0901881	
Chloroethane	ND	UJ	5.0	0.19	1	06/02/09	06/02/09	JWG0901881	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/02/09	06/02/09	JWG0901881	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/02/09	06/02/09	JWG0901881	
Acetone	ND	U	50	2.4	1	06/02/09	06/02/09	JWG0901881	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/02/09	06/02/09	JWG0901881	
Carbon Disulfide	ND	U	10	0.84	1	06/02/09	06/02/09	JWG0901881	
Methylene Chloride	ND	U	5.0	0.72	1	06/02/09	06/02/09	JWG0901881	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/02/09	06/02/09	JWG0901881	
Acrylonitrile	ND	U	10	0.59	1	06/02/09	06/02/09	JWG0901881	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/02/09	06/02/09	JWG0901881	
Vinyl Acetate	ND	U	10	0.60	1	06/02/09	06/02/09	JWG0901881	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/02/09	06/02/09	JWG0901881	
2-Butanone (MEK)	ND	U	10	0.56	1	06/02/09	06/02/09	JWG0901881	
Bromochloromethane	ND	U	5.0	0.14	1	06/02/09	06/02/09	JWG0901881	
Chloroform	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901881	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/02/09	06/02/09	JWG0901881	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/02/09	06/02/09	JWG0901881	
Benzene	ND	U	1.0	0.52	1	06/02/09	06/02/09	JWG0901881	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901881	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901881	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/02/09	06/02/09	JWG0901881	
Dibromomethane	ND	U	5.0	0.12	1	06/02/09	06/02/09	JWG0901881	
Bromodichloromethane	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901881	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/02/09	06/02/09	JWG0901881	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/02/09	06/02/09	JWG0901881	
Toluene	ND	U	1.0	0.52	1	06/02/09	06/02/09	JWG0901881	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/02/09	06/02/09	JWG0901881	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/02/09	06/02/09	JWG0901881	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/02/09	06/02/09	JWG0901881	
2-Hexanone	ND	U	25	0.36	1	06/02/09	06/02/09	JWG0901881	
Dibromochloromethane	ND	U	1.0	0.11	1	06/02/09	06/02/09	JWG0901881	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 05/27/2009
Date Received: 05/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-1A
Lab Code: J0902568-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/02/09	06/02/09	JWG0901881	
Chlorobenzene	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901881	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901881	
Ethylbenzene	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901881	
m,p-Xylenes	ND	U	2.0	0.22	1	06/02/09	06/02/09	JWG0901881	
o-Xylene	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901881	
Styrene	ND	U	1.0	0.051	1	06/02/09	06/02/09	JWG0901881	
Bromoform	ND	U	2.0	0.12	1	06/02/09	06/02/09	JWG0901881	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901881	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/02/09	06/02/09	JWG0901881	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/02/09	06/02/09	JWG0901881	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/02/09	06/02/09	JWG0901881	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/02/09	06/02/09	JWG0901881	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/02/09	06/02/09	JWG0901881	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	79	71-122	06/02/09	Acceptable
4-Bromofluorobenzene	106	75-120	06/02/09	Acceptable
Dibromofluoromethane	86	82-116	06/02/09	Acceptable
Toluene-d8	104	88-117	06/02/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 05/27/2009
Date Received: 05/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-1B
Lab Code: J0902568-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/02/09	06/02/09	JWG0901881	
Vinyl Chloride	ND	U	1.0	0.25	1	06/02/09	06/02/09	JWG0901881	
Bromomethane	ND	U	1.0	0.14	1	06/02/09	06/02/09	JWG0901881	
Chloroethane	ND	UJ	5.0	0.19	1	06/02/09	06/02/09	JWG0901881	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/02/09	06/02/09	JWG0901881	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/02/09	06/02/09	JWG0901881	
Acetone	ND	U	50	2.4	1	06/02/09	06/02/09	JWG0901881	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/02/09	06/02/09	JWG0901881	
Carbon Disulfide	ND	U	10	0.84	1	06/02/09	06/02/09	JWG0901881	
Methylene Chloride	ND	U	5.0	0.72	1	06/02/09	06/02/09	JWG0901881	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/02/09	06/02/09	JWG0901881	
Acrylonitrile	ND	U	10	0.59	1	06/02/09	06/02/09	JWG0901881	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/02/09	06/02/09	JWG0901881	
Vinyl Acetate	ND	U	10	0.60	1	06/02/09	06/02/09	JWG0901881	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/02/09	06/02/09	JWG0901881	
2-Butanone (MEK)	ND	U	10	0.56	1	06/02/09	06/02/09	JWG0901881	
Bromochloromethane	ND	U	5.0	0.14	1	06/02/09	06/02/09	JWG0901881	
Chloroform	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901881	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/02/09	06/02/09	JWG0901881	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/02/09	06/02/09	JWG0901881	
Benzene	ND	U	1.0	0.52	1	06/02/09	06/02/09	JWG0901881	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901881	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901881	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/02/09	06/02/09	JWG0901881	
Dibromomethane	ND	U	5.0	0.12	1	06/02/09	06/02/09	JWG0901881	
Bromodichloromethane	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901881	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/02/09	06/02/09	JWG0901881	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/02/09	06/02/09	JWG0901881	
Toluene	ND	U	1.0	0.52	1	06/02/09	06/02/09	JWG0901881	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/02/09	06/02/09	JWG0901881	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/02/09	06/02/09	JWG0901881	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/02/09	06/02/09	JWG0901881	
2-Hexanone	ND	U	25	0.36	1	06/02/09	06/02/09	JWG0901881	
Dibromochloromethane	ND	U	1.0	0.11	1	06/02/09	06/02/09	JWG0901881	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 05/27/2009
Date Received: 05/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-1B
Lab Code: J0902568-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/02/09	06/02/09	JWG0901881	
Chlorobenzene	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901881	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901881	
Ethylbenzene	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901881	
m,p-Xylenes	ND	U	2.0	0.22	1	06/02/09	06/02/09	JWG0901881	
o-Xylene	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901881	
Styrene	ND	U	1.0	0.051	1	06/02/09	06/02/09	JWG0901881	
Bromoform	ND	U	2.0	0.12	1	06/02/09	06/02/09	JWG0901881	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901881	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/02/09	06/02/09	JWG0901881	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/02/09	06/02/09	JWG0901881	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/02/09	06/02/09	JWG0901881	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/02/09	06/02/09	JWG0901881	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/02/09	06/02/09	JWG0901881	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	77	71-122	06/02/09	Acceptable
4-Bromofluorobenzene	101	75-120	06/02/09	Acceptable
Dibromofluoromethane	82	82-116	06/02/09	Acceptable
Toluene-d8	101	88-117	06/02/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 05/27/2009
Date Received: 05/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-2A
Lab Code: J0902568-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/02/09	06/02/09	JWG0901881	
Vinyl Chloride	ND	U	1.0	0.25	1	06/02/09	06/02/09	JWG0901881	
Bromomethane	ND	U	1.0	0.14	1	06/02/09	06/02/09	JWG0901881	
Chloroethane	ND	UJ	5.0	0.19	1	06/02/09	06/02/09	JWG0901881	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/02/09	06/02/09	JWG0901881	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/02/09	06/02/09	JWG0901881	
Acetone	ND	U	50	2.4	1	06/02/09	06/02/09	JWG0901881	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/02/09	06/02/09	JWG0901881	
Carbon Disulfide	ND	U	10	0.84	1	06/02/09	06/02/09	JWG0901881	
Methylene Chloride	ND	U	5.0	0.72	1	06/02/09	06/02/09	JWG0901881	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/02/09	06/02/09	JWG0901881	
Acrylonitrile	ND	U	10	0.59	1	06/02/09	06/02/09	JWG0901881	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/02/09	06/02/09	JWG0901881	
Vinyl Acetate	ND	U	10	0.60	1	06/02/09	06/02/09	JWG0901881	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/02/09	06/02/09	JWG0901881	
2-Butanone (MEK)	ND	U	10	0.56	1	06/02/09	06/02/09	JWG0901881	
Bromochloromethane	ND	U	5.0	0.14	1	06/02/09	06/02/09	JWG0901881	
Chloroform	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901881	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/02/09	06/02/09	JWG0901881	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/02/09	06/02/09	JWG0901881	
Benzene	ND	U	1.0	0.52	1	06/02/09	06/02/09	JWG0901881	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901881	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901881	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/02/09	06/02/09	JWG0901881	
Dibromomethane	ND	U	5.0	0.12	1	06/02/09	06/02/09	JWG0901881	
Bromodichloromethane	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901881	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/02/09	06/02/09	JWG0901881	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/02/09	06/02/09	JWG0901881	
Toluene	ND	U	1.0	0.52	1	06/02/09	06/02/09	JWG0901881	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/02/09	06/02/09	JWG0901881	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/02/09	06/02/09	JWG0901881	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/02/09	06/02/09	JWG0901881	
2-Hexanone	ND	U	25	0.36	1	06/02/09	06/02/09	JWG0901881	
Dibromochloromethane	ND	U	1.0	0.11	1	06/02/09	06/02/09	JWG0901881	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 05/27/2009
Date Received: 05/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-2A
Lab Code: J0902568-003

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/02/09	06/02/09	JWG0901881	
Chlorobenzene	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901881	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901881	
Ethylbenzene	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901881	
m,p-Xylenes	ND	U	2.0	0.22	1	06/02/09	06/02/09	JWG0901881	
o-Xylene	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901881	
Styrene	ND	U	1.0	0.051	1	06/02/09	06/02/09	JWG0901881	
Bromoform	ND	U	2.0	0.12	1	06/02/09	06/02/09	JWG0901881	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901881	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/02/09	06/02/09	JWG0901881	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/02/09	06/02/09	JWG0901881	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/02/09	06/02/09	JWG0901881	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/02/09	06/02/09	JWG0901881	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/02/09	06/02/09	JWG0901881	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	77	71-122	06/02/09	Acceptable
4-Bromofluorobenzene	105	75-120	06/02/09	Acceptable
Dibromofluoromethane	88	82-116	06/02/09	Acceptable
Toluene-d8	99	88-117	06/02/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 05/27/2009
Date Received: 05/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-2B
Lab Code: J0902568-004

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/03/09	06/03/09	JWG0901881	
Vinyl Chloride	ND	U	1.0	0.25	1	06/03/09	06/03/09	JWG0901881	
Bromomethane	ND	U	1.0	0.14	1	06/03/09	06/03/09	JWG0901881	
Chloroethane	ND	UJ	5.0	0.19	1	06/03/09	06/03/09	JWG0901881	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/03/09	06/03/09	JWG0901881	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/03/09	06/03/09	JWG0901881	
Acetone	ND	U	50	2.4	1	06/03/09	06/03/09	JWG0901881	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/03/09	06/03/09	JWG0901881	
Carbon Disulfide	ND	U	10	0.84	1	06/03/09	06/03/09	JWG0901881	
Methylene Chloride	ND	U	5.0	0.72	1	06/03/09	06/03/09	JWG0901881	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/03/09	06/03/09	JWG0901881	
Acrylonitrile	ND	U	10	0.59	1	06/03/09	06/03/09	JWG0901881	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/03/09	06/03/09	JWG0901881	
Vinyl Acetate	ND	U	10	0.60	1	06/03/09	06/03/09	JWG0901881	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/03/09	06/03/09	JWG0901881	
2-Butanone (MEK)	ND	U	10	0.56	1	06/03/09	06/03/09	JWG0901881	
Bromochloromethane	ND	U	5.0	0.14	1	06/03/09	06/03/09	JWG0901881	
Chloroform	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/03/09	06/03/09	JWG0901881	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/03/09	06/03/09	JWG0901881	
Benzene	ND	U	1.0	0.52	1	06/03/09	06/03/09	JWG0901881	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/03/09	06/03/09	JWG0901881	
Dibromomethane	ND	U	5.0	0.12	1	06/03/09	06/03/09	JWG0901881	
Bromodichloromethane	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/03/09	06/03/09	JWG0901881	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/03/09	06/03/09	JWG0901881	
Toluene	ND	U	1.0	0.52	1	06/03/09	06/03/09	JWG0901881	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/03/09	06/03/09	JWG0901881	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/03/09	06/03/09	JWG0901881	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/03/09	06/03/09	JWG0901881	
2-Hexanone	ND	U	25	0.36	1	06/03/09	06/03/09	JWG0901881	
Dibromochloromethane	ND	U	1.0	0.11	1	06/03/09	06/03/09	JWG0901881	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 05/27/2009
Date Received: 05/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-2B
Lab Code: J0902568-004

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/03/09	06/03/09	JWG0901881	
Chlorobenzene	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
Ethylbenzene	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
m,p-Xylenes	ND	U	2.0	0.22	1	06/03/09	06/03/09	JWG0901881	
o-Xylene	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
Styrene	ND	U	1.0	0.051	1	06/03/09	06/03/09	JWG0901881	
Bromoform	ND	U	2.0	0.12	1	06/03/09	06/03/09	JWG0901881	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/03/09	06/03/09	JWG0901881	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/03/09	06/03/09	JWG0901881	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/03/09	06/03/09	JWG0901881	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/03/09	06/03/09	JWG0901881	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/03/09	06/03/09	JWG0901881	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	82	71-122	06/03/09	Acceptable
4-Bromofluorobenzene	109	75-120	06/03/09	Acceptable
Dibromofluoromethane	89	82-116	06/03/09	Acceptable
Toluene-d8	100	88-117	06/03/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 05/27/2009
Date Received: 05/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-16A
Lab Code: J0902568-005

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/03/09	06/03/09	JWG0901881	
Vinyl Chloride	ND	U	1.0	0.25	1	06/03/09	06/03/09	JWG0901881	
Bromomethane	ND	U	1.0	0.14	1	06/03/09	06/03/09	JWG0901881	
Chloroethane	ND	UJ	5.0	0.19	1	06/03/09	06/03/09	JWG0901881	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/03/09	06/03/09	JWG0901881	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/03/09	06/03/09	JWG0901881	
Acetone	ND	U	50	2.4	1	06/03/09	06/03/09	JWG0901881	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/03/09	06/03/09	JWG0901881	
Carbon Disulfide	ND	U	10	0.84	1	06/03/09	06/03/09	JWG0901881	
Methylene Chloride	ND	U	5.0	0.72	1	06/03/09	06/03/09	JWG0901881	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/03/09	06/03/09	JWG0901881	
Acrylonitrile	ND	U	10	0.59	1	06/03/09	06/03/09	JWG0901881	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/03/09	06/03/09	JWG0901881	
Vinyl Acetate	ND	U	10	0.60	1	06/03/09	06/03/09	JWG0901881	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/03/09	06/03/09	JWG0901881	
2-Butanone (MEK)	ND	U	10	0.56	1	06/03/09	06/03/09	JWG0901881	
Bromochloromethane	ND	U	5.0	0.14	1	06/03/09	06/03/09	JWG0901881	
Chloroform	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/03/09	06/03/09	JWG0901881	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/03/09	06/03/09	JWG0901881	
Benzene	ND	U	1.0	0.52	1	06/03/09	06/03/09	JWG0901881	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/03/09	06/03/09	JWG0901881	
Dibromomethane	ND	U	5.0	0.12	1	06/03/09	06/03/09	JWG0901881	
Bromodichloromethane	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/03/09	06/03/09	JWG0901881	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/03/09	06/03/09	JWG0901881	
Toluene	ND	U	1.0	0.52	1	06/03/09	06/03/09	JWG0901881	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/03/09	06/03/09	JWG0901881	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/03/09	06/03/09	JWG0901881	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/03/09	06/03/09	JWG0901881	
2-Hexanone	ND	U	25	0.36	1	06/03/09	06/03/09	JWG0901881	
Dibromochloromethane	ND	U	1.0	0.11	1	06/03/09	06/03/09	JWG0901881	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 05/27/2009
Date Received: 05/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-16A
Lab Code: J0902568-005

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/03/09	06/03/09	JWG0901881	
Chlorobenzene	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
Ethylbenzene	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
m,p-Xylenes	ND	U	2.0	0.22	1	06/03/09	06/03/09	JWG0901881	
o-Xylene	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
Styrene	ND	U	1.0	0.051	1	06/03/09	06/03/09	JWG0901881	
Bromoform	ND	U	2.0	0.12	1	06/03/09	06/03/09	JWG0901881	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/03/09	06/03/09	JWG0901881	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/03/09	06/03/09	JWG0901881	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/03/09	06/03/09	JWG0901881	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/03/09	06/03/09	JWG0901881	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/03/09	06/03/09	JWG0901881	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	78	71-122	06/03/09	Acceptable
4-Bromofluorobenzene	103	75-120	06/03/09	Acceptable
Dibromofluoromethane	89	82-116	06/03/09	Acceptable
Toluene-d8	99	88-117	06/03/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902568
Project:	JED SWDF/FQ1512A	**Date Collected:**	05/27/2009
Sample Matrix:	Water	**Date Received:**	05/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-16B	**Units:**	ug/L
Lab Code:	J0902568-006	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/03/09	06/03/09	JWG0901881	
Vinyl Chloride	ND	U	1.0	0.25	1	06/03/09	06/03/09	JWG0901881	
Bromomethane	ND	U	1.0	0.14	1	06/03/09	06/03/09	JWG0901881	
Chloroethane	ND	UJ	5.0	0.19	1	06/03/09	06/03/09	JWG0901881	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/03/09	06/03/09	JWG0901881	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/03/09	06/03/09	JWG0901881	
Acetone	ND	U	50	2.4	1	06/03/09	06/03/09	JWG0901881	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/03/09	06/03/09	JWG0901881	
Carbon Disulfide	ND	U	10	0.84	1	06/03/09	06/03/09	JWG0901881	
Methylene Chloride	ND	U	5.0	0.72	1	06/03/09	06/03/09	JWG0901881	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/03/09	06/03/09	JWG0901881	
Acrylonitrile	ND	U	10	0.59	1	06/03/09	06/03/09	JWG0901881	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/03/09	06/03/09	JWG0901881	
Vinyl Acetate	ND	U	10	0.60	1	06/03/09	06/03/09	JWG0901881	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/03/09	06/03/09	JWG0901881	
2-Butanone (MEK)	ND	U	10	0.56	1	06/03/09	06/03/09	JWG0901881	
Bromochloromethane	ND	U	5.0	0.14	1	06/03/09	06/03/09	JWG0901881	
Chloroform	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/03/09	06/03/09	JWG0901881	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/03/09	06/03/09	JWG0901881	
Benzene	ND	U	1.0	0.52	1	06/03/09	06/03/09	JWG0901881	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/03/09	06/03/09	JWG0901881	
Dibromomethane	ND	U	5.0	0.12	1	06/03/09	06/03/09	JWG0901881	
Bromodichloromethane	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/03/09	06/03/09	JWG0901881	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/03/09	06/03/09	JWG0901881	
Toluene	ND	U	1.0	0.52	1	06/03/09	06/03/09	JWG0901881	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/03/09	06/03/09	JWG0901881	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/03/09	06/03/09	JWG0901881	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/03/09	06/03/09	JWG0901881	
2-Hexanone	ND	U	25	0.36	1	06/03/09	06/03/09	JWG0901881	
Dibromochloromethane	ND	U	1.0	0.11	1	06/03/09	06/03/09	JWG0901881	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 05/27/2009
Date Received: 05/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-16B
Lab Code: J0902568-006

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/03/09	06/03/09	JWG0901881	
Chlorobenzene	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
Ethylbenzene	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
m,p-Xylenes	ND	U	2.0	0.22	1	06/03/09	06/03/09	JWG0901881	
o-Xylene	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
Styrene	ND	U	1.0	0.051	1	06/03/09	06/03/09	JWG0901881	
Bromoform	ND	U	2.0	0.12	1	06/03/09	06/03/09	JWG0901881	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/03/09	06/03/09	JWG0901881	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/03/09	06/03/09	JWG0901881	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/03/09	06/03/09	JWG0901881	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/03/09	06/03/09	JWG0901881	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/03/09	06/03/09	JWG0901881	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	80	71-122	06/03/09	Acceptable
4-Bromofluorobenzene	111	75-120	06/03/09	Acceptable
Dibromofluoromethane	88	82-116	06/03/09	Acceptable
Toluene-d8	102	88-117	06/03/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 05/27/2009
Date Received: 05/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-16C
Lab Code: J0902568-007

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/03/09	06/03/09	JWG0901881	
Vinyl Chloride	ND	U	1.0	0.25	1	06/03/09	06/03/09	JWG0901881	
Bromomethane	ND	U	1.0	0.14	1	06/03/09	06/03/09	JWG0901881	
Chloroethane	ND	UJ	5.0	0.19	1	06/03/09	06/03/09	JWG0901881	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/03/09	06/03/09	JWG0901881	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/03/09	06/03/09	JWG0901881	
Acetone	ND	U	50	2.4	1	06/03/09	06/03/09	JWG0901881	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/03/09	06/03/09	JWG0901881	
Carbon Disulfide	ND	U	10	0.84	1	06/03/09	06/03/09	JWG0901881	
Methylene Chloride	ND	U	5.0	0.72	1	06/03/09	06/03/09	JWG0901881	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/03/09	06/03/09	JWG0901881	
Acrylonitrile	ND	U	10	0.59	1	06/03/09	06/03/09	JWG0901881	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/03/09	06/03/09	JWG0901881	
Vinyl Acetate	ND	U	10	0.60	1	06/03/09	06/03/09	JWG0901881	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/03/09	06/03/09	JWG0901881	
2-Butanone (MEK)	ND	U	10	0.56	1	06/03/09	06/03/09	JWG0901881	
Bromochloromethane	ND	U	5.0	0.14	1	06/03/09	06/03/09	JWG0901881	
Chloroform	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/03/09	06/03/09	JWG0901881	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/03/09	06/03/09	JWG0901881	
Benzene	ND	U	1.0	0.52	1	06/03/09	06/03/09	JWG0901881	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/03/09	06/03/09	JWG0901881	
Dibromomethane	ND	U	5.0	0.12	1	06/03/09	06/03/09	JWG0901881	
Bromodichloromethane	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/03/09	06/03/09	JWG0901881	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/03/09	06/03/09	JWG0901881	
Toluene	**1.7**		1.0	0.52	1	06/03/09	06/03/09	JWG0901881	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/03/09	06/03/09	JWG0901881	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/03/09	06/03/09	JWG0901881	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/03/09	06/03/09	JWG0901881	
2-Hexanone	ND	U	25	0.36	1	06/03/09	06/03/09	JWG0901881	
Dibromochloromethane	ND	U	1.0	0.11	1	06/03/09	06/03/09	JWG0901881	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 05/27/2009
Date Received: 05/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-16C
Lab Code: J0902568-007

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/03/09	06/03/09	JWG0901881	
Chlorobenzene	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
Ethylbenzene	**0.53**	I	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
m,p-Xylenes	ND	U	2.0	0.22	1	06/03/09	06/03/09	JWG0901881	
o-Xylene	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
Styrene	ND	U	1.0	0.051	1	06/03/09	06/03/09	JWG0901881	
Bromoform	ND	U	2.0	0.12	1	06/03/09	06/03/09	JWG0901881	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/03/09	06/03/09	JWG0901881	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/03/09	06/03/09	JWG0901881	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/03/09	06/03/09	JWG0901881	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/03/09	06/03/09	JWG0901881	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/03/09	06/03/09	JWG0901881	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	78	71-122	06/03/09	Acceptable
4-Bromofluorobenzene	106	75-120	06/03/09	Acceptable
Dibromofluoromethane	87	82-116	06/03/09	Acceptable
Toluene-d8	96	88-117	06/03/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 05/27/2009
Date Received: 05/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-19A
Lab Code: J0902568-008

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/03/09	06/03/09	JWG0901881	
Vinyl Chloride	ND	U	1.0	0.25	1	06/03/09	06/03/09	JWG0901881	
Bromomethane	ND	U	1.0	0.14	1	06/03/09	06/03/09	JWG0901881	
Chloroethane	ND	UJ	5.0	0.19	1	06/03/09	06/03/09	JWG0901881	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/03/09	06/03/09	JWG0901881	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/03/09	06/03/09	JWG0901881	
Acetone	ND	U	50	2.4	1	06/03/09	06/03/09	JWG0901881	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/03/09	06/03/09	JWG0901881	
Carbon Disulfide	ND	U	10	0.84	1	06/03/09	06/03/09	JWG0901881	
Methylene Chloride	ND	U	5.0	0.72	1	06/03/09	06/03/09	JWG0901881	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/03/09	06/03/09	JWG0901881	
Acrylonitrile	ND	U	10	0.59	1	06/03/09	06/03/09	JWG0901881	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/03/09	06/03/09	JWG0901881	
Vinyl Acetate	ND	U	10	0.60	1	06/03/09	06/03/09	JWG0901881	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/03/09	06/03/09	JWG0901881	
2-Butanone (MEK)	ND	U	10	0.56	1	06/03/09	06/03/09	JWG0901881	
Bromochloromethane	ND	U	5.0	0.14	1	06/03/09	06/03/09	JWG0901881	
Chloroform	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/03/09	06/03/09	JWG0901881	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/03/09	06/03/09	JWG0901881	
Benzene	ND	U	1.0	0.52	1	06/03/09	06/03/09	JWG0901881	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/03/09	06/03/09	JWG0901881	
Dibromomethane	ND	U	5.0	0.12	1	06/03/09	06/03/09	JWG0901881	
Bromodichloromethane	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/03/09	06/03/09	JWG0901881	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/03/09	06/03/09	JWG0901881	
Toluene	ND	U	1.0	0.52	1	06/03/09	06/03/09	JWG0901881	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/03/09	06/03/09	JWG0901881	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/03/09	06/03/09	JWG0901881	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/03/09	06/03/09	JWG0901881	
2-Hexanone	ND	U	25	0.36	1	06/03/09	06/03/09	JWG0901881	
Dibromochloromethane	ND	U	1.0	0.11	1	06/03/09	06/03/09	JWG0901881	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 05/27/2009
Date Received: 05/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-19A
Lab Code: J0902568-008

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/03/09	06/03/09	JWG0901881	
Chlorobenzene	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
Ethylbenzene	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
m,p-Xylenes	ND	U	2.0	0.22	1	06/03/09	06/03/09	JWG0901881	
o-Xylene	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
Styrene	ND	U	1.0	0.051	1	06/03/09	06/03/09	JWG0901881	
Bromoform	ND	U	2.0	0.12	1	06/03/09	06/03/09	JWG0901881	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/03/09	06/03/09	JWG0901881	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/03/09	06/03/09	JWG0901881	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/03/09	06/03/09	JWG0901881	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/03/09	06/03/09	JWG0901881	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/03/09	06/03/09	JWG0901881	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	75	71-122	06/03/09	Acceptable
4-Bromofluorobenzene	105	75-120	06/03/09	Acceptable
Dibromofluoromethane	84	82-116	06/03/09	Acceptable
Toluene-d8	97	88-117	06/03/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 05/27/2009
Date Received: 05/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-19B
Lab Code: J0902568-009

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/03/09	06/03/09	JWG0901881	
Vinyl Chloride	ND	U	1.0	0.25	1	06/03/09	06/03/09	JWG0901881	
Bromomethane	ND	U	1.0	0.14	1	06/03/09	06/03/09	JWG0901881	
Chloroethane	ND	UJ	5.0	0.19	1	06/03/09	06/03/09	JWG0901881	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/03/09	06/03/09	JWG0901881	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/03/09	06/03/09	JWG0901881	
Acetone	ND	U	50	2.4	1	06/03/09	06/03/09	JWG0901881	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/03/09	06/03/09	JWG0901881	
Carbon Disulfide	ND	U	10	0.84	1	06/03/09	06/03/09	JWG0901881	
Methylene Chloride	ND	U	5.0	0.72	1	06/03/09	06/03/09	JWG0901881	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/03/09	06/03/09	JWG0901881	
Acrylonitrile	ND	U	10	0.59	1	06/03/09	06/03/09	JWG0901881	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/03/09	06/03/09	JWG0901881	
Vinyl Acetate	ND	U	10	0.60	1	06/03/09	06/03/09	JWG0901881	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/03/09	06/03/09	JWG0901881	
2-Butanone (MEK)	ND	U	10	0.56	1	06/03/09	06/03/09	JWG0901881	
Bromochloromethane	ND	U	5.0	0.14	1	06/03/09	06/03/09	JWG0901881	
Chloroform	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/03/09	06/03/09	JWG0901881	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/03/09	06/03/09	JWG0901881	
Benzene	ND	U	1.0	0.52	1	06/03/09	06/03/09	JWG0901881	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/03/09	06/03/09	JWG0901881	
Dibromomethane	ND	U	5.0	0.12	1	06/03/09	06/03/09	JWG0901881	
Bromodichloromethane	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/03/09	06/03/09	JWG0901881	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/03/09	06/03/09	JWG0901881	
Toluene	**0.81**	I	1.0	0.52	1	06/03/09	06/03/09	JWG0901881	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/03/09	06/03/09	JWG0901881	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/03/09	06/03/09	JWG0901881	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/03/09	06/03/09	JWG0901881	
2-Hexanone	ND	U	25	0.36	1	06/03/09	06/03/09	JWG0901881	
Dibromochloromethane	ND	U	1.0	0.11	1	06/03/09	06/03/09	JWG0901881	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 05/27/2009
Date Received: 05/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-19B
Lab Code: J0902568-009

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/03/09	06/03/09	JWG0901881	
Chlorobenzene	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
Ethylbenzene	**1.4**		1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
m,p-Xylenes	ND	U	2.0	0.22	1	06/03/09	06/03/09	JWG0901881	
o-Xylene	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
Styrene	ND	U	1.0	0.051	1	06/03/09	06/03/09	JWG0901881	
Bromoform	ND	U	2.0	0.12	1	06/03/09	06/03/09	JWG0901881	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/03/09	06/03/09	JWG0901881	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/03/09	06/03/09	JWG0901881	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/03/09	06/03/09	JWG0901881	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/03/09	06/03/09	JWG0901881	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/03/09	06/03/09	JWG0901881	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	79	71-122	06/03/09	Acceptable
4-Bromofluorobenzene	111	75-120	06/03/09	Acceptable
Dibromofluoromethane	87	82-116	06/03/09	Acceptable
Toluene-d8	101	88-117	06/03/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 05/27/2009
Date Received: 05/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J0902568-010

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/03/09	06/03/09	JWG0901881	
Vinyl Chloride	ND	U	1.0	0.25	1	06/03/09	06/03/09	JWG0901881	
Bromomethane	ND	U	1.0	0.14	1	06/03/09	06/03/09	JWG0901881	
Chloroethane	ND	UJ	5.0	0.19	1	06/03/09	06/03/09	JWG0901881	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/03/09	06/03/09	JWG0901881	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/03/09	06/03/09	JWG0901881	
Acetone	ND	U	50	2.4	1	06/03/09	06/03/09	JWG0901881	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/03/09	06/03/09	JWG0901881	
Carbon Disulfide	ND	U	10	0.84	1	06/03/09	06/03/09	JWG0901881	
Methylene Chloride	ND	U	5.0	0.72	1	06/03/09	06/03/09	JWG0901881	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/03/09	06/03/09	JWG0901881	
Acrylonitrile	ND	U	10	0.59	1	06/03/09	06/03/09	JWG0901881	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/03/09	06/03/09	JWG0901881	
Vinyl Acetate	ND	U	10	0.60	1	06/03/09	06/03/09	JWG0901881	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/03/09	06/03/09	JWG0901881	
2-Butanone (MEK)	ND	U	10	0.56	1	06/03/09	06/03/09	JWG0901881	
Bromochloromethane	ND	U	5.0	0.14	1	06/03/09	06/03/09	JWG0901881	
Chloroform	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/03/09	06/03/09	JWG0901881	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/03/09	06/03/09	JWG0901881	
Benzene	ND	U	1.0	0.52	1	06/03/09	06/03/09	JWG0901881	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/03/09	06/03/09	JWG0901881	
Dibromomethane	ND	U	5.0	0.12	1	06/03/09	06/03/09	JWG0901881	
Bromodichloromethane	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/03/09	06/03/09	JWG0901881	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/03/09	06/03/09	JWG0901881	
Toluene	ND	U	1.0	0.52	1	06/03/09	06/03/09	JWG0901881	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/03/09	06/03/09	JWG0901881	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/03/09	06/03/09	JWG0901881	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/03/09	06/03/09	JWG0901881	
2-Hexanone	ND	U	25	0.36	1	06/03/09	06/03/09	JWG0901881	
Dibromochloromethane	ND	U	1.0	0.11	1	06/03/09	06/03/09	JWG0901881	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 05/27/2009
Date Received: 05/28/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J0902568-010

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/03/09	06/03/09	JWG0901881	
Chlorobenzene	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
Ethylbenzene	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
m,p-Xylenes	ND	U	2.0	0.22	1	06/03/09	06/03/09	JWG0901881	
o-Xylene	ND	U	1.0	0.10	1	06/03/09	06/03/09	JWG0901881	
Styrene	ND	U	1.0	0.051	1	06/03/09	06/03/09	JWG0901881	
Bromoform	ND	U	2.0	0.12	1	06/03/09	06/03/09	JWG0901881	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/03/09	06/03/09	JWG0901881	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/03/09	06/03/09	JWG0901881	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/03/09	06/03/09	JWG0901881	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/03/09	06/03/09	JWG0901881	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/03/09	06/03/09	JWG0901881	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/03/09	06/03/09	JWG0901881	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	76	71-122	06/03/09	Acceptable
4-Bromofluorobenzene	108	75-120	06/03/09	Acceptable
Dibromofluoromethane	87	82-116	06/03/09	Acceptable
Toluene-d8	101	88-117	06/03/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0901881-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	06/02/09	06/02/09	JWG0901881	
Vinyl Chloride	ND	U	1.0	0.25	1	06/02/09	06/02/09	JWG0901881	
Bromomethane	ND	U	1.0	0.14	1	06/02/09	06/02/09	JWG0901881	
Chloroethane	ND	UJ	5.0	0.19	1	06/02/09	06/02/09	JWG0901881	J(3)
Trichlorofluoromethane	ND	U	20	0.25	1	06/02/09	06/02/09	JWG0901881	
1,1-Dichloroethene	ND	U	1.0	0.16	1	06/02/09	06/02/09	JWG0901881	
Acetone	ND	U	50	2.4	1	06/02/09	06/02/09	JWG0901881	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	06/02/09	06/02/09	JWG0901881	
Carbon Disulfide	ND	U	10	0.84	1	06/02/09	06/02/09	JWG0901881	
Methylene Chloride	ND	U	5.0	0.72	1	06/02/09	06/02/09	JWG0901881	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	06/02/09	06/02/09	JWG0901881	
Acrylonitrile	ND	U	10	0.59	1	06/02/09	06/02/09	JWG0901881	
1,1-Dichloroethane	ND	U	1.0	0.56	1	06/02/09	06/02/09	JWG0901881	
Vinyl Acetate	ND	U	10	0.60	1	06/02/09	06/02/09	JWG0901881	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	06/02/09	06/02/09	JWG0901881	
2-Butanone (MEK)	ND	U	10	0.56	1	06/02/09	06/02/09	JWG0901881	
Bromochloromethane	ND	U	5.0	0.14	1	06/02/09	06/02/09	JWG0901881	
Chloroform	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901881	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	06/02/09	06/02/09	JWG0901881	
Carbon Tetrachloride	ND	U	1.0	0.18	1	06/02/09	06/02/09	JWG0901881	
Benzene	ND	U	1.0	0.52	1	06/02/09	06/02/09	JWG0901881	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901881	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901881	
1,2-Dichloropropane	ND	U	1.0	0.057	1	06/02/09	06/02/09	JWG0901881	
Dibromomethane	ND	U	5.0	0.12	1	06/02/09	06/02/09	JWG0901881	
Bromodichloromethane	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901881	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/02/09	06/02/09	JWG0901881	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	06/02/09	06/02/09	JWG0901881	
Toluene	ND	U	1.0	0.52	1	06/02/09	06/02/09	JWG0901881	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	06/02/09	06/02/09	JWG0901881	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	06/02/09	06/02/09	JWG0901881	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	06/02/09	06/02/09	JWG0901881	
2-Hexanone	ND	U	25	0.36	1	06/02/09	06/02/09	JWG0901881	
Dibromochloromethane	ND	U	1.0	0.11	1	06/02/09	06/02/09	JWG0901881	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0901881-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	06/02/09	06/02/09	JWG0901881	
Chlorobenzene	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901881	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901881	
Ethylbenzene	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901881	
m,p-Xylenes	ND	U	2.0	0.22	1	06/02/09	06/02/09	JWG0901881	
o-Xylene	ND	U	1.0	0.10	1	06/02/09	06/02/09	JWG0901881	
Styrene	ND	U	1.0	0.051	1	06/02/09	06/02/09	JWG0901881	
Bromoform	ND	U	2.0	0.12	1	06/02/09	06/02/09	JWG0901881	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	06/02/09	06/02/09	JWG0901881	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	06/02/09	06/02/09	JWG0901881	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	06/02/09	06/02/09	JWG0901881	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	06/02/09	06/02/09	JWG0901881	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	06/02/09	06/02/09	JWG0901881	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	06/02/09	06/02/09	JWG0901881	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	79	71-122	06/02/09	Acceptable
4-Bromofluorobenzene	108	75-120	06/02/09	Acceptable
Dibromofluoromethane	88	82-116	06/02/09	Acceptable
Toluene-d8	100	88-117	06/02/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 05/27/2009
Date Received: 05/28/2009

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

Sample Name: MW-1A
Lab Code: J0902568-001

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/01/09	06/03/09	JWG0901850	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/03/09	JWG0901850	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	124	77-150	06/03/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 05/27/2009
Date Received: 05/28/2009

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

Sample Name: MW-1B
Lab Code: J0902568-002

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/01/09	06/03/09	JWG0901850	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/03/09	JWG0901850	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	135	77-150	06/03/09	Acceptable

Comments:

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 05/27/2009
Date Received: 05/28/2009

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

Sample Name: MW-2A
Lab Code: J0902568-003

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/01/09	06/03/09	JWG0901850	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/03/09	JWG0901850	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	126	77-150	06/03/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902568
Project:	JED SWDF/FQ1512A	**Date Collected:**	05/27/2009
Sample Matrix:	Water	**Date Received:**	05/28/2009

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

Sample Name:	MW-2B	**Units:**	ug/L
Lab Code:	J0902568-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/01/09	06/03/09	JWG0901850	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/03/09	JWG0901850	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	141	77-150	06/03/09	Acceptable

Comments:

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 05/27/2009
Date Received: 05/28/2009

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

Sample Name: MW-16A
Lab Code: J0902568-005

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	UJ	0.020	0.0070	1	06/01/09	06/03/09	JWG0901850	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/03/09	JWG0901850	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	115	77-150	06/03/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902568
Project:	JED SWDF/FQ1512A	**Date Collected:**	05/27/2009
Sample Matrix:	Water	**Date Received:**	05/28/2009

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

Sample Name:	MW-16B	**Units:**	ug/L
Lab Code:	J0902568-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/01/09	06/03/09	JWG0901850	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/03/09	JWG0901850	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	141	77-150	06/03/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902568
Project:	JED SWDF/FQ1512A	**Date Collected:**	05/27/2009
Sample Matrix:	Water	**Date Received:**	05/28/2009

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

Sample Name:	MW-16C	**Units:**	ug/L
Lab Code:	J0902568-007	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/01/09	06/03/09	JWG0901850	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/03/09	JWG0901850	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	133	77-150	06/03/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 05/27/2009
Date Received: 05/28/2009

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

Sample Name: MW-19A
Lab Code: J0902568-008

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	UJ	0.020	0.0070	1	06/01/09	06/03/09	JWG0901850	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/03/09	JWG0901850	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	124	77-150	06/03/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902568
Project:	JED SWDF/FQ1512A	**Date Collected:**	05/27/2009
Sample Matrix:	Water	**Date Received:**	05/28/2009

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

Sample Name:	MW-19B	**Units:**	ug/L
Lab Code:	J0902568-009	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/01/09	06/03/09	JWG0901850	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/03/09	JWG0901850	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	128	77-150	06/03/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0902568
Project:	JED SWDF/FQ1512A	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

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

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG0901850-3	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	06/01/09	06/03/09	JWG0901850	J(3)
1,2-Dibromo-3-chloropropane (DBCP	ND	UJ	0.020	0.0057	1	06/01/09	06/03/09	JWG0901850	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	129	77-150	06/03/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 5/27/09 1245
Date Received: 5/28/09

Sample Name: MW-1A
Lab Code: J0902568-001

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 1/09	6/4/09 02:39
Arsenic, Total	6020	**0.95**		µg/L	0.50	0.20	1	6/ 1/09	6/4/09 02:39
Barium, Total	6020	**10.1**		µg/L	2.0	0.5	1	6/ 1/09	6/4/09 02:39
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 02:39
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 1/09	6/4/09 02:39
Chromium, Total	6020	**2.1**		µg/L	2.0	0.8	1	6/ 1/09	6/4/09 02:39
Cobalt, Total	6020	**0.3**	I	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 02:39
Copper, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	6/ 1/09	6/4/09 02:39
Iron, Total	6010B	**1340**		µg/L	50	4	1	6/ 2/09	6/2/09 18:33
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 02:39
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/1/09 16:49
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 1/09	6/4/09 02:39
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 1/09	6/4/09 02:39
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/4/09 02:39
Sodium, Total	6010B	**14.8**		mg/L	0.50	0.02	1	6/ 2/09	6/2/09 18:33
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 02:39
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	6/ 1/09	6/4/09 12:47
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 1/09	6/4/09 02:39

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902568
Project:	JED SWDF/FQ1512A	**Date Collected:**	5/27/09 1300
Sample Matrix:	Water	**Date Received:**	5/28/09
Sample Name:	MW-1B		
Lab Code:	J0902568-002	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 1/09	6/4/09 03:03
Arsenic, Total	6020	ND	U	µg/L	0.50	0.20	1	6/ 1/09	6/4/09 03:03
Barium, Total	6020	**4.6**		µg/L	2.0	0.5	1	6/ 1/09	6/4/09 03:03
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:03
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 1/09	6/4/09 03:03
Chromium, Total	6020	**1.2**	I	µg/L	2.0	0.8	1	6/ 1/09	6/4/09 03:03
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:03
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 1/09	6/4/09 03:03
Iron, Total	6010B	**214**		µg/L	50	4	1	6/ 2/09	6/2/09 18:36
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:03
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/1/09 16:50
Nickel, Total	6020	**0.3**	I	µg/L	2.0	0.3	1	6/ 1/09	6/4/09 03:03
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 1/09	6/4/09 03:03
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/4/09 03:03
Sodium, Total	6010B	**5.28**		mg/L	0.50	0.02	1	6/ 2/09	6/2/09 18:36
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:03
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	6/ 1/09	6/4/09 13:05
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 1/09	6/4/09 03:03

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 5/27/09 1347
Date Received: 5/28/09

Sample Name: MW-2A
Lab Code: J0902568-003

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 1/09	6/4/09 03:08
Arsenic, Total	6020	**1.24**		µg/L	0.50	0.20	1	6/ 1/09	6/4/09 03:08
Barium, Total	6020	**46.0**		µg/L	2.0	0.5	1	6/ 1/09	6/4/09 03:08
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:08
Cadmium, Total	6020	**0.14**	I	µg/L	0.50	0.12	1	6/ 1/09	6/4/09 03:08
Chromium, Total	6020	**1.4**	I	µg/L	2.0	0.8	1	6/ 1/09	6/4/09 03:08
Cobalt, Total	6020	**4.1**		µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:08
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 1/09	6/4/09 03:08
Iron, Total	6010B	**11100**		µg/L	50	4	1	6/ 2/09	6/2/09 18:55
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:08
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/1/09 16:52
Nickel, Total	6020	**0.5**	I	µg/L	2.0	0.3	1	6/ 1/09	6/4/09 03:08
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 1/09	6/4/09 03:08
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/4/09 03:08
Sodium, Total	6010B	**14.5**		mg/L	0.50	0.02	1	6/ 2/09	6/2/09 18:55
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:08
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	6/ 1/09	6/4/09 13:08
Zinc, Total	6020	**5**	I	µg/L	10	4	1	6/ 1/09	6/4/09 03:08

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902568
Project:	JED SWDF/FQ1512A	**Date Collected:**	5/27/09 1405
Sample Matrix:	Water	**Date Received:**	5/28/09
Sample Name:	MW-2B		
Lab Code:	J0902568-004	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 1/09	6/4/09 03:13
Arsenic, Total	6020	ND	U	µg/L	0.50	0.20	1	6/ 1/09	6/4/09 03:13
Barium, Total	6020	**10.1**		µg/L	2.0	0.5	1	6/ 1/09	6/4/09 03:13
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:13
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 1/09	6/4/09 03:13
Chromium, Total	6020	**1**	I	µg/L	2.0	0.8	1	6/ 1/09	6/4/09 03:13
Cobalt, Total	6020	**0.3**	I	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:13
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 1/09	6/4/09 03:13
Iron, Total	6010B	**875**		µg/L	50	4	1	6/ 2/09	6/2/09 18:57
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:13
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/1/09 16:53
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 1/09	6/4/09 03:13
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 1/09	6/4/09 03:13
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/4/09 03:13
Sodium, Total	6010B	**5.76**		mg/L	0.50	0.02	1	6/ 2/09	6/2/09 18:57
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:13
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	6/ 1/09	6/4/09 13:12
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 1/09	6/4/09 03:13

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902568
Project:	JED SWDF/FQ1512A	**Date Collected:**	5/27/09 0755
Sample Matrix:	Water	**Date Received:**	5/28/09
Sample Name:	MW-16A		
Lab Code:	J0902568-005	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 1/09	6/4/09 03:17
Arsenic, Total	6020	**0.40**	I	µg/L	0.50	0.20	1	6/ 1/09	6/4/09 03:17
Barium, Total	6020	**14.3**		µg/L	2.0	0.5	1	6/ 1/09	6/4/09 03:17
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:17
Cadmium, Total	6020	**0.13**	I	µg/L	0.50	0.12	1	6/ 1/09	6/4/09 03:17
Chromium, Total	6020	**2.7**		µg/L	2.0	0.8	1	6/ 1/09	6/4/09 03:17
Cobalt, Total	6020	**0.5**	I	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:17
Copper, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	6/ 1/09	6/4/09 03:17
Iron, Total	6010B	**1350**		µg/L	50	4	1	6/ 2/09	6/2/09 19:00
Lead, Total	6020	**0.7**	I	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:17
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/1/09 16:55
Nickel, Total	6020	**2.3**		µg/L	2.0	0.3	1	6/ 1/09	6/4/09 03:17
Selenium, Total	6020	**2.4**		µg/L	2.0	0.8	1	6/ 1/09	6/4/09 03:17
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/4/09 03:17
Sodium, Total	6010B	**4.04**		mg/L	0.50	0.02	1	6/ 2/09	6/2/09 19:00
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:17
Vanadium, Total	6020	**5.0**		µg/L	5.0	1.2	1	6/ 1/09	6/4/09 13:15
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 1/09	6/4/09 03:17

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902568
Project:	JED SWDF/FQ1512A	**Date Collected:**	5/27/09 0915
Sample Matrix:	Water	**Date Received:**	5/28/09
Sample Name:	MW-16B		
Lab Code:	J0902568-006	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 1/09	6/4/09 03:32
Arsenic, Total	6020	**0.26**	I	µg/L	0.50	0.20	1	6/ 1/09	6/4/09 03:32
Barium, Total	6020	**31.8**		µg/L	2.0	0.5	1	6/ 1/09	6/4/09 03:32
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:32
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 1/09	6/4/09 03:32
Chromium, Total	6020	**1.9**	I	µg/L	2.0	0.8	1	6/ 1/09	6/4/09 03:32
Cobalt, Total	6020	**0.3**	I	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:32
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 1/09	6/4/09 03:32
Iron, Total	6010B	**1780**		µg/L	50	4	1	6/ 2/09	6/2/09 19:03
Lead, Total	6020	**1.5**		µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:32
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/1/09 16:56
Nickel, Total	6020	**0.5**	I	µg/L	2.0	0.3	1	6/ 1/09	6/4/09 03:32
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 1/09	6/4/09 03:32
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/4/09 03:32
Sodium, Total	6010B	**8.48**		mg/L	0.50	0.02	1	6/ 2/09	6/2/09 19:03
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:32
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	6/ 1/09	6/4/09 13:26
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 1/09	6/4/09 03:32

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Sample Name: MW-16C
Lab Code: J0902568-007

Service Request: J0902568
Date Collected: 5/27/09 0740
Date Received: 5/28/09

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 1/09	6/4/09 03:36
Arsenic, Total	6020	ND	U	µg/L	0.50	0.20	1	6/ 1/09	6/4/09 03:36
Barium, Total	6020	**16.8**		µg/L	2.0	0.5	1	6/ 1/09	6/4/09 03:36
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:36
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 1/09	6/4/09 03:36
Chromium, Total	6020	**1.2**	I	µg/L	2.0	0.8	1	6/ 1/09	6/4/09 03:36
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:36
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 1/09	6/4/09 03:36
Iron, Total	6010B	**1140**		µg/L	50	4	1	6/ 2/09	6/2/09 19:06
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:36
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/1/09 17:01
Nickel, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	6/ 1/09	6/4/09 03:36
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 1/09	6/4/09 03:36
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/4/09 03:36
Sodium, Total	6010B	**11.7**		mg/L	0.50	0.02	1	6/ 2/09	6/2/09 19:05
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:36
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	6/ 1/09	6/4/09 13:30
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 1/09	6/4/09 03:36

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 5/27/09 1055
Date Received: 5/28/09

Sample Name: MW-19A
Lab Code: J0902568-008

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Dissolved	6020	**0.4**	I	µg/L	2.0	0.4	1	6/ 1/09	6/8/09 13:05
Antimony, Total	6020	**0.5**	I	µg/L	2.0	0.4	1	6/ 1/09	6/4/09 03:41
Arsenic, Dissolved	6020	**3.71**		µg/L	0.50	0.20	1	6/ 1/09	6/8/09 13:05
Arsenic, Total	6020	**3.98**		µg/L	0.50	0.20	1	6/ 1/09	6/4/09 03:41
Barium, Dissolved	6020	**29.5**		µg/L	2.0	0.5	1	6/ 1/09	6/8/09 13:05
Barium, Total	6020	**33.0**		µg/L	2.0	0.5	1	6/ 1/09	6/4/09 03:41
Beryllium, Dissolved	6020	**0.2**	I	µg/L	1.0	0.2	1	6/ 1/09	6/8/09 13:05
Beryllium, Total	6020	**0.3**	I	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:41
Cadmium, Dissolved	6020	**0.38**	I	µg/L	0.50	0.12	1	6/ 1/09	6/8/09 13:05
Cadmium, Total	6020	**0.20**	I	µg/L	0.50	0.12	1	6/ 1/09	6/4/09 03:41
Chromium, Dissolved	6020	**8.5**		µg/L	2.0	0.8	1	6/ 1/09	6/8/09 13:05
Chromium, Total	6020	**14.0**		µg/L	2.0	0.8	1	6/ 1/09	6/4/09 03:41
Cobalt, Dissolved	6020	**0.5**	I	µg/L	1.0	0.2	1	6/ 1/09	6/8/09 13:05
Cobalt, Total	6020	**0.7**	I	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:41
Copper, Dissolved	6020	**0.7**	I	µg/L	2.0	0.3	1	6/ 1/09	6/8/09 13:05
Copper, Total	6020	**6.3**		µg/L	2.0	0.3	1	6/ 1/09	6/4/09 03:41
Iron, Dissolved	6010B	**2540**		µg/L	50	4	1	5/29/09	6/1/09 16:33
Iron, Total	6010B	**3320**		µg/L	50	4	1	6/ 2/09	6/2/09 19:08
Lead, Dissolved	6020	**2.2**		µg/L	1.0	0.2	1	6/ 1/09	6/8/09 13:05
Lead, Total	6020	**7.3**		µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:41
Mercury, Dissolved	7470A	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/1/09 17:02
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/1/09 17:02
Nickel, Dissolved	6020	**2.1**		µg/L	2.0	0.3	1	6/ 1/09	6/8/09 13:05
Nickel, Total	6020	**2.5**		µg/L	2.0	0.3	1	6/ 1/09	6/4/09 03:41
Selenium, Dissolved	6020	**8.4**		µg/L	2.0	0.8	1	6/ 1/09	6/8/09 13:05
Selenium, Total	6020	**9.2**		µg/L	2.0	0.8	1	6/ 1/09	6/4/09 03:41
Silver, Dissolved	6020	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/8/09 13:05
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/4/09 03:41
Sodium, Dissolved	6010B	**14.5**		mg/L	0.50	0.02	1	5/29/09	6/1/09 16:32
Sodium, Total	6010B	**14.5**		mg/L	0.50	0.02	1	6/ 2/09	6/2/09 19:08
Thallium, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/8/09 13:05
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:41
Vanadium, Dissolved	6020	**13.5**		µg/L	5.0	1.2	1	6/ 1/09	6/8/09 13:05
Vanadium, Total	6020	**15.9**		µg/L	5.0	1.2	1	6/ 1/09	6/4/09 13:33
Zinc, Dissolved	6020	**5**	I	µg/L	10	4	1	6/ 1/09	6/8/09 13:05
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 1/09	6/4/09 03:41

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Sample Name: MW-19B
Lab Code: J0902568-009

Service Request: J0902568
Date Collected: 5/27/09 1008
Date Received: 5/28/09

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 1/09	6/4/09 03:46
Arsenic, Total	6020	**0.51**		µg/L	0.50	0.20	1	6/ 1/09	6/4/09 03:46
Barium, Total	6020	**37.1**		µg/L	2.0	0.5	1	6/ 1/09	6/4/09 03:46
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:46
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 1/09	6/4/09 03:46
Chromium, Total	6020	**2.2**		µg/L	2.0	0.8	1	6/ 1/09	6/4/09 03:46
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:46
Copper, Total	6020	**1**	I	µg/L	2.0	0.3	1	6/ 1/09	6/4/09 03:46
Iron, Total	6010B	**873**		µg/L	50	4	1	6/ 2/09	6/2/09 19:11
Lead, Total	6020	**2.5**		µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:46
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/1/09 17:04
Nickel, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	6/ 1/09	6/4/09 03:46
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 1/09	6/4/09 03:46
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/4/09 03:46
Sodium, Total	6010B	**15.5**		mg/L	0.50	0.02	1	6/ 2/09	6/2/09 19:11
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 03:46
Vanadium, Total	6020	**1.8**	I	µg/L	5.0	1.2	1	6/ 1/09	6/4/09 13:37
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 1/09	6/4/09 03:46

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: J0902568-MB

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Dissolved	6020	ND	U	µg/L	2.0	0.4	1	6/ 1/09	6/5/09 19:49
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	6/ 1/09	6/4/09 01:09
Arsenic, Dissolved	6020	ND	U	µg/L	0.50	0.20	1	6/ 1/09	6/3/09 16:29
Arsenic, Total	6020	ND	U	µg/L	0.50	0.20	1	6/ 1/09	6/4/09 01:09
Barium, Dissolved	6020	ND	U	µg/L	2.0	0.5	1	6/ 1/09	6/5/09 19:49
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	6/ 1/09	6/4/09 01:09
Beryllium, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/5/09 19:49
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 01:09
Cadmium, Dissolved	6020	**0.13**	I	µg/L	0.50	0.12	1	6/ 1/09	6/5/09 19:49
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	6/ 1/09	6/4/09 01:09
Chromium, Dissolved	6020	ND	U	µg/L	2.0	0.8	1	6/ 1/09	6/3/09 16:29
Chromium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 1/09	6/4/09 01:09
Cobalt, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/5/09 19:49
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 01:09
Copper, Dissolved	6020	ND	U	µg/L	2.0	0.3	1	6/ 1/09	6/3/09 16:29
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 1/09	6/4/09 01:09
Iron, Dissolved	6010B	ND	U	µg/L	50	4	1	5/29/09	6/1/09 16:01
Iron, Total	6010B	ND	U	µg/L	50	4	1	6/ 2/09	6/2/09 18:23
Lead, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/5/09 19:49
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 01:09
Mercury, Dissolved	7470A	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/1/09 16:28
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/1/09 16:28
Nickel, Dissolved	6020	ND	U	µg/L	2.0	0.3	1	6/ 1/09	6/5/09 19:49
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	6/ 1/09	6/4/09 01:09
Selenium, Dissolved	6020	ND	U	µg/L	2.0	0.8	1	6/ 1/09	6/5/09 19:49
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	6/ 1/09	6/4/09 01:09
Silver, Dissolved	6020	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/5/09 19:49
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	6/ 1/09	6/4/09 01:09
Sodium, Dissolved	6010B	ND	U	mg/L	0.50	0.02	1	5/29/09	6/1/09 16:01
Sodium, Total	6010B	ND	U	mg/L	0.50	0.02	1	6/ 2/09	6/2/09 18:22
Thallium, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/5/09 19:49
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	6/ 1/09	6/4/09 01:09
Vanadium, Dissolved	6020	ND	U	µg/L	5.0	1.2	1	6/ 1/09	6/5/09 19:49
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	6/ 1/09	6/4/09 01:09
Zinc, Dissolved	6020	ND	U	µg/L	10	4	1	6/ 1/09	6/3/09 16:29
Zinc, Total	6020	ND	U	µg/L	10	4	1	6/ 1/09	6/4/09 01:09

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902568
Date Collected : 05/27/09
Date Received : 05/28/09

Inorganic Parameters

Sample Name : MW-1A
Lab Code : J0902568-001
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/09/09 17:52	1.7	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	05/28/09 21:00	28	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/28/09 21:45	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/02/09 12:30	61	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902568
Date Collected : 05/27/09
Date Received : 05/28/09

Inorganic Parameters

Sample Name : MW-1B
Lab Code : J0902568-002
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/09/09 17:52	0.085	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	05/28/09 21:00	7.8	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/28/09 22:29	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/02/09 12:30	25	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902568
Date Collected : 05/27/09
Date Received : 05/28/09

Inorganic Parameters

Sample Name : MW-2A
Lab Code : J0902568-003
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/09/09 17:52	1.3	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	05/28/09 21:00	44	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/28/09 22:44	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/02/09 12:30	75	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902568
Date Collected : 05/27/09
Date Received : 05/28/09

Inorganic Parameters

Sample Name : MW-2B
Lab Code : J0902568-004
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/09/09 17:52	0.16	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	05/28/09 21:00	13	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/28/09 22:59	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/02/09 12:30	37	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902568
Date Collected : 05/27/09
Date Received : 05/28/09

Inorganic Parameters

Sample Name : MW-16A
Lab Code : J0902568-005
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/09/09 17:52	0.29	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	05/28/09 21:00	5.8	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/28/09 23:14	0.22	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/02/09 12:30	72	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902568
Date Collected : 05/27/09
Date Received : 05/28/09

Inorganic Parameters

Sample Name : MW-16B
Lab Code : J0902568-006
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/09/09 17:52	0.25	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	05/28/09 21:00	15	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/29/09 00:14	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/02/09 12:30	58	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902568
Date Collected : 05/27/09
Date Received : 05/28/09

Inorganic Parameters

Sample Name : MW-16C
Lab Code : J0902568-007
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/09/09 17:52	0.15	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	05/28/09 21:00	21	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/29/09 00:29	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/02/09 12:30	65	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902568
Date Collected : 05/27/09
Date Received : 05/28/09

Inorganic Parameters

Sample Name : MW-19A
Lab Code : J0902568-008
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/09/09 17:52	7.3	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	05/28/09 21:00	15	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/29/09 00:44	5.6	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/02/09 14:00	340	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902568
Date Collected : 05/27/09
Date Received : 05/28/09

Inorganic Parameters

Sample Name : MW-19B
Lab Code : J0902568-009
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/09/09 17:52	0.13	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	05/28/09 21:00	29	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/29/09 00:59	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/02/09 14:00	80	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902568
Date Collected : NA
Date Received : NA

Inorganic Parameters

Sample Name : Method Blank
Lab Code : J0902568-MB
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.025	1	06/09/09 17:52	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	05/28/09 21:00	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	05/28/09 21:00	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	05/28/09 21:00	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/02/09 12:30	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	10	4.8	1	06/02/09 14:00	U	

Report By: Palimi

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568

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

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
MW-1A	J0902568-001	79	106	86	104
MW-1B	J0902568-002	77	101	82	101
MW-2A	J0902568-003	77	105	88	99
MW-2B	J0902568-004	82	109	89	100
MW-16A	J0902568-005	78	103	89	99
MW-16B	J0902568-006	80	111	88	102
MW-16C	J0902568-007	78	106	87	96
MW-19A	J0902568-008	75	105	84	97
MW-19B	J0902568-009	79	111	87	101
Trip Blank	J0902568-010	76	108	87	101
Method Blank	JWG0901881-4	79	108	88	100
MW-1BMS	JWG0901881-1	81	113	90	103
MW-1BDMS	JWG0901881-2	78	112	87	106
Lab Control Sample	JWG0901881-3	79	106	86	103

Surrogate Recovery Control Limits (%)

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

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902568
Project:	JED SWDF/FQ1512A	**Date Extracted:**	06/03/2009
Sample Matrix:	Water	**Date Analyzed:**	06/03/2009

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

Sample Name:	MW-1B	**Units:**	ug/L
Lab Code:	J0902568-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	JWG0901881

Analyte Name	Sample Result	MW-1BMS JWG0901881-1 Matrix Spike Result	Expected	%Rec	MW-1BDMS JWG0901881-2 Duplicate Matrix Spike Result	Expected	%Rec	%Rec Limits	RPD	RPD Limit
Chloromethane	ND	20.9	20.0	105	20.5	20.0	103	73-139	2	30
Vinyl Chloride	ND	23.2	20.0	116	23.1	20.0	115	78-141	1	30
Bromomethane	ND	7.69	20.0	38 *	9.68	20.0	48 *	78-129	23	30
Chloroethane	ND	26.7	20.0	134 *	25.9	20.0	130 *	76-129	3	30
Trichlorofluoromethane	ND	22.2	20.0	111	21.9	20.0	109	81-133	1	30
1,1-Dichloroethene	ND	21.0	20.0	105	21.9	20.0	109	79-133	4	30
Acetone	ND	101	100	101	98.1	100	98	56-139	3	30
Iodomethane (Methyl Iodide)	ND	78.3	100	78	95.2	100	95	74-134	20	30
Carbon Disulfide	ND	116	100	116	119	100	119	71-146	3	30
Methylene Chloride	ND	19.6	20.0	98	19.3	20.0	96	75-123	1	30
trans-1,2-Dichloroethene	ND	19.4	20.0	97	20.2	20.0	101	76-125	4	30
Acrylonitrile	ND	109	100	109	114	100	114	68-131	4	30
1,1-Dichloroethane	ND	20.2	20.0	101	20.0	20.0	100	78-125	1	30
Vinyl Acetate	ND	71.1	100	71	70.6	100	71	43-163	1	30
cis-1,2-Dichloroethene	ND	19.0	20.0	95	19.5	20.0	98	75-127	3	30
2-Butanone (MEK)	ND	105	100	105	105	100	105	63-134	1	30
Bromochloromethane	ND	22.9	20.0	114	22.7	20.0	113	80-124	1	30
Chloroform	ND	19.0	20.0	95	18.8	20.0	94	81-124	1	30
1,1,1-Trichloroethane (TCA)	ND	18.6	20.0	93	18.9	20.0	95	76-130	2	30
Carbon Tetrachloride	ND	17.8	20.0	89	18.6	20.0	93	76-131	4	30
Benzene	ND	20.1	20.0	101	20.4	20.0	102	78-123	2	30
1,2-Dichloroethane (EDC)	ND	17.7	20.0	88	17.0	20.0	85	74-126	4	30
Trichloroethene (TCE)	ND	18.1	20.0	91	18.4	20.0	92	77-128	2	30
1,2-Dichloropropane	ND	21.4	20.0	107	20.8	20.0	104	77-122	3	30
Dibromomethane	ND	19.1	20.0	96	19.7	20.0	99	78-124	3	30
Bromodichloromethane	ND	17.9	20.0	89	18.9	20.0	95	79-125	6	30
cis-1,3-Dichloropropene	ND	19.5	20.0	97	20.5	20.0	103	77-117	5	30
4-Methyl-2-pentanone (MIBK)	ND	105	100	105	114	100	114	65-138	8	30
Toluene	ND	19.9	20.0	99	21.3	20.0	106	86-119	7	30
trans-1,3-Dichloropropene	ND	18.5	20.0	92	20.0	20.0	100	75-120	8	30
1,1,2-Trichloroethane	ND	19.0	20.0	95	20.2	20.0	101	77-124	6	30
Tetrachloroethene (PCE)	ND	18.6	20.0	93	20.2	20.0	101	79-123	8	30
2-Hexanone	ND	111	100	111	119	100	119	63-142	7	30
Dibromochloromethane	ND	17.3	20.0	86	19.8	20.0	99	78-124	14	30

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

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

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

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Extracted: 06/03/2009
Date Analyzed: 06/03/2009

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

Sample Name: MW-1B
Lab Code: J0902568-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG0901881

Analyte Name	Sample Result	MW-1BMS JWG0901881-1 Matrix Spike			MW-1BDMS JWG0901881-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	ND	19.1	20.0	96	20.0	20.0	100	81-119	5	30
Chlorobenzene	ND	19.7	20.0	98	20.9	20.0	104	81-120	6	30
1,1,1,2-Tetrachloroethane	ND	18.1	20.0	90	19.8	20.0	99	82-118	9	30
Ethylbenzene	ND	20.0	20.0	100	21.5	20.0	107	87-122	7	30
m,p-Xylenes	ND	39.2	40.0	98	43.0	40.0	108	82-120	9	30
o-Xylene	ND	18.8	20.0	94	21.2	20.0	106	85-119	12	30
Styrene	ND	18.9	20.0	94	20.8	20.0	104	84-126	10	30
Bromoform	ND	18.2	20.0	91	19.5	20.0	98	70-129	7	30
1,1,2,2-Tetrachloroethane	ND	20.7	20.0	104	22.8	20.0	114	72-127	10	30
1,2,3-Trichloropropane	ND	17.8	20.0	89	20.2	20.0	101	76-123	13	30
1,4-Dichlorobenzene	ND	19.1	20.0	96	20.2	20.0	101	75-115	5	30
trans-1,4-Dichloro-2-butene	ND	17.5	20.0	88	18.7	20.0	93	22-135	6	30
1,2-Dichlorobenzene	ND	19.2	20.0	96	20.5	20.0	103	77-116	6	30
1,2-Dibromo-3-chloropropane (DBCP	ND	16.5	20.0	83	22.8	20.0	114	54-120	32 *	30

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

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

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

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Extracted: 06/02/2009
Date Analyzed: 06/02/2009

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

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0901881

Analyte Name	Lab Control Sample JWG0901881-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Chloromethane	19.8	20.0	99	67-135
Vinyl Chloride	21.8	20.0	109	78-132
Bromomethane	16.0	20.0	80	79-130
Chloroethane	26.7	20.0	133 *	74-126
Trichlorofluoromethane	19.8	20.0	99	74-134
1,1-Dichloroethene	20.0	20.0	100	78-130
Acetone	96.1	100	96	67-133
Iodomethane (Methyl Iodide)	90.2	100	90	68-134
Carbon Disulfide	110	100	110	76-138
Methylene Chloride	19.7	20.0	99	72-124
trans-1,2-Dichloroethene	19.3	20.0	97	77-124
Acrylonitrile	115	100	115	77-127
1,1-Dichloroethane	20.3	20.0	102	80-128
Vinyl Acetate	102	100	102	61-148
cis-1,2-Dichloroethene	19.7	20.0	98	80-126
2-Butanone (MEK)	104	100	104	73-127
Bromochloromethane	22.0	20.0	110	79-129
Chloroform	19.1	20.0	96	83-124
1,1,1-Trichloroethane (TCA)	17.9	20.0	89	79-124
Carbon Tetrachloride	18.0	20.0	90	81-125
Benzene	19.3	20.0	96	79-119
1,2-Dichloroethane (EDC)	17.3	20.0	87	80-124
Trichloroethene (TCE)	18.7	20.0	94	76-124
1,2-Dichloropropane	21.1	20.0	106	79-123
Dibromomethane	19.4	20.0	97	83-123
Bromodichloromethane	19.1	20.0	96	81-123
cis-1,3-Dichloropropene	20.8	20.0	104	86-123
4-Methyl-2-pentanone (MIBK)	108	100	108	72-136
Toluene	19.6	20.0	98	86-117
trans-1,3-Dichloropropene	19.8	20.0	99	83-124
1,1,2-Trichloroethane	20.8	20.0	104	86-114
Tetrachloroethene (PCE)	20.2	20.0	101	80-121
2-Hexanone	112	100	112	71-138
Dibromochloromethane	19.5	20.0	98	82-121
1,2-Dibromoethane (EDB)	20.4	20.0	102	88-117
Chlorobenzene	21.8	20.0	109	86-113

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

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

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Extracted: 06/02/2009
Date Analyzed: 06/02/2009

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

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0901881

Analyte Name	Lab Control Sample JWG0901881-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	19.2	20.0	96	85-117
Ethylbenzene	21.3	20.0	107	90-118
m,p-Xylenes	41.2	40.0	103	86-121
o-Xylene	21.3	20.0	106	89-119
Styrene	21.1	20.0	106	89-122
Bromoform	20.0	20.0	100	68-129
1,1,2,2-Tetrachloroethane	21.4	20.0	107	83-120
1,2,3-Trichloropropane	20.5	20.0	102	83-123
1,4-Dichlorobenzene	18.9	20.0	95	83-113
trans-1,4-Dichloro-2-butene	17.6	20.0	88	53-143
1,2-Dichlorobenzene	19.6	20.0	98	84-115
1,2-Dibromo-3-chloropropane (DBCP	17.3	20.0	87	62-123

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

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

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568

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

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
MW-1A	J0902568-001	124
MW-1B	J0902568-002	135
MW-2A	J0902568-003	126
MW-2B	J0902568-004	141
MW-16A	J0902568-005	115
MW-16B	J0902568-006	141
MW-16C	J0902568-007	133
MW-19A	J0902568-008	124
MW-19B	J0902568-009	128
Method Blank	JWG0901850-3	129
Lab Control Sample	JWG0901850-1	123
Duplicate Lab Control Sample	JWG0901850-2	126

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:	GeoSyntec Consultants	**Service Request:**	J0902568
Project:	JED SWDF/FQ1512A	**Date Extracted:**	06/01/2009
Sample Matrix:	Water	**Date Analyzed:**	06/03/2009

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

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	8011	**Basis:**	NA
		Level:	Low
		Extraction Lot:	JWG0901850

	Lab Control Sample JWG0901850-1 Lab Control Spike			Duplicate Lab Control Sample JWG0901850-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,2-Dibromoethane (EDB)	0.359	0.250	144 *	0.363	0.250	145 *	70-130	1	20
1,2-Dibromo-3-chloropropane (DBCP	0.319	0.250	128	0.365	0.250	146 *	70-130	13	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: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 5/27/09
Date Received: 5/28/09
Date Analyzed: 6/ 4/09

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-1A
Lab Code: J0902568-001

Units: µg/L
Basis: NA

Analytical Method: 6020
Prep Method: EPA 3020A

Analyte Name	Sample Result	Matrix Spike J0902568-MS1 Result	Expected	% Rec		Duplicate Matrix Spike J0902568-DMS1 Result	Expected	% Rec		% Rec Limits	RPD	RPD Limit
Antimony, Total	ND	49.9	50.0	100		48.5	50.0	97		75 - 125	3	20
Arsenic, Total	0.95	48.4	50.0	95		49.6	50.0	97		75 - 125	2	20
Barium, Total	10.1	62.0	50.0	104		62.2	50.0	104		75 - 125	0	20
Beryllium, Total	ND	49.7	50.0	99		49.3	50.0	99		75 - 125	1	20
Cadmium, Total	ND	47.9	50.0	96		48.2	50.0	96		75 - 125	1	20
Chromium, Total	2.1	54.9	50.0	106		54.8	50.0	105		75 - 125	0	20
Cobalt, Total	0.3	52.9	50.0	105		53.7	50.0	107		75 - 125	2	20
Copper, Total	0.6	50.3	50.0	99		50.6	50.0	100		75 - 125	1	20
Lead, Total	ND	51.7	50.0	103		53.2	50.0	106		75 - 125	3	20
Nickel, Total	ND	51.9	50.0	104		51.4	50.0	103		75 - 125	1	20
Selenium, Total	ND	34.4	50.0	69	*	29.5	50.0	59	*	75 - 125	16	20
Silver, Total	ND	49.7	50.0	99		50.1	50.0	100		75 - 125	1	20
Thallium, Total	ND	51.5	50.0	103		52.9	50.0	106		75 - 125	3	20
Vanadium, Total	ND	50.8	50.0	102		52.4	50.0	105		75 - 125	3	20
Zinc, Total	ND	91.7	100	92		91.1	100	91		75 - 125	1	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	J0902568
Project:	JED SWDF/FQ1512A	**Date Collected:**	5/27/09
Sample Matrix:	Water	**Date Received:**	5/28/09
		Date Analyzed:	6/ 2/09

Matrix Spike Summary
Inorganic Parameters

Sample Name:	MW-1B	**Units:**	µg/L
Lab Code:	J0902568-002	**Basis:**	NA

Analytical Method: 6010B
Prep Method: EPA 3010A

		Matrix Spike			Duplicate Matrix Spike					
	Sample	J0902568-MS2			J0902568-DMS2			% Rec		RPD
Analyte Name	**Result**	**Result**	**Expected**	**% Rec**	**Result**	**Expected**	**% Rec**	**Limits**	**RPD**	**Limit**
Iron, Total	214	2100	2000	94	2180	2000	98	75 - 125	4	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Collected: 5/27/09
Date Received: 5/28/09
Date Analyzed: 6/ 2/09

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-1B
Lab Code: J0902568-002

Units: mg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3010A

		Matrix Spike			Duplicate Matrix Spike					
	Sample	J0902568-MS2			J0902568-DMS2			% Rec		RPD
Analyte Name	Result	Result	Expected	% Rec	Result	Expected	% Rec	Limits	RPD	Limit
Sodium, Total	5.28	15.0	10.0	98	15.3	10.0	101	75 - 125	2	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Analyzed: 6/ 1/09 - 6/ 5/09

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0902568-LCS2 Result	Expected	% Rec	% Rec Limits
Antimony, Dissolved	6020	**53.7**	50.0	107	80 - 120
Antimony, Total	6020	**49.5**	50.0	99	80 - 120
Arsenic, Dissolved	6020	**55.0**	50.0	110	80 - 120
Arsenic, Total	6020	**48.7**	50.0	97	80 - 120
Barium, Dissolved	6020	**51.9**	50.0	104	80 - 120
Barium, Total	6020	**52.1**	50.0	104	80 - 120
Beryllium, Dissolved	6020	**54.5**	50.0	109	80 - 120
Beryllium, Total	6020	**46.0**	50.0	92	80 - 120
Cadmium, Dissolved	6020	**54.4**	50.0	109	80 - 120
Cadmium, Total	6020	**46.9**	50.0	94	80 - 120
Chromium, Dissolved	6020	**54.4**	50.0	109	80 - 120
Chromium, Total	6020	**51.7**	50.0	103	80 - 120
Cobalt, Dissolved	6020	**52.7**	50.0	105	80 - 120
Cobalt, Total	6020	**52.7**	50.0	105	80 - 120
Copper, Dissolved	6020	**53.6**	50.0	107	80 - 120
Copper, Total	6020	**51.7**	50.0	103	80 - 120
Iron, Dissolved	6010B	**1980**	2000	99	80 - 120
Iron, Total	6010B	**2010**	2000	101	80 - 120
Lead, Dissolved	6020	**51.4**	50.0	103	80 - 120
Lead, Total	6020	**50.9**	50.0	102	80 - 120
Nickel, Dissolved	6020	**52.2**	50.0	104	80 - 120
Nickel, Total	6020	**51.8**	50.0	104	80 - 120
Selenium, Dissolved	6020	**55.7**	50.0	111	80 - 120
Selenium, Total	6020	**44.9**	50.0	90	80 - 120
Silver, Dissolved	6020	**52.4**	50.0	105	80 - 120
Silver, Total	6020	**49.7**	50.0	99	80 - 120
Thallium, Dissolved	6020	**51.8**	50.0	104	80 - 120
Thallium, Total	6020	**50.7**	50.0	101	80 - 120
Vanadium, Dissolved	6020	**52.2**	50.0	104	80 - 120
Vanadium, Total	6020	**52.4**	50.0	105	80 - 120
Zinc, Dissolved	6020	**107**	100	107	80 - 120
Zinc, Total	6020	**92.2**	100	92	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Analyzed: 6/ 1/09

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0902568-LCS1 Result	Expected	% Rec	Duplicate Lab Control Sample J0902568-DLCS1 Result	Expected	% Rec	% Rec Limits	RPD	RPD Limit
Mercury, Dissolved	7470A	**4.70**	5.00	94	**5.40**	5.00	108	80 - 120	14	20
Mercury, Total	7470A	**4.70**	5.00	94	**5.40**	5.00	108	80 - 120	14	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A
Sample Matrix: Water

Service Request: J0902568
Date Analyzed: 6/ 1/09 - 6/ 2/09

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0902568-LCS2 Result	Expected	% Rec	% Rec Limits
Sodium, Dissolved	6010B	**10.2**	10.0	102	80 - 120
Sodium, Total	6010B	**10.3**	10.0	103	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902568
Date Collected : 05/27/09
Date Received : 05/28/09
Date Extracted : NA
Date Analyzed : 05/28-06/09/09

Duplicate Summary
Inorganic Parameters

Sample Name : MW-1A
Lab Code : J0902568-001DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	1.7	1.7	1.7	<1	
Chloride	mg/L (ppm)	300.0	0.2	28	28	28	<1	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	U	U	U	-	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902568
Date Collected : 05/27/09
Date Received : 05/28/09
Date Extracted : NA
Date Analyzed : 05/28-06/09/09

Matrix Spike Summary
Inorganic Parameters

Sample Name : MW-1A
Lab Code : J0902568-001MS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	5.00	1.7	6.66	99	90-110	
Chloride	mg/L (ppm)	300.0	0.2	100	28	129	101	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	5.0	U	5.00	100	90-110	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A
Sample Matrix : WATER

Service Request : J0902568
Date Collected : NA
Date Received : NA
Date Extracted : NA
Date Analyzed : 05/28-06/09/09

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Laboratory Control Sample
Lab Code : J0902568-LCS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	5.00	5.31	106	90-110	
Chloride	mg/L (ppm)	300.0	5.00	5.22	104	90-110	
Chloride	mg/L (ppm)	300.0	100	102	102	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	5.12	102	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	300	287	96	85-115	
Solids, Total Dissolved (TDS)	mg/L (ppm)	160.1	300	290	97	85-115	

Report By: Palimi

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

Client: Geosyntec Service Request # J0902568

Project: JEA Waste Facility

Cooler received on 5/28/09 and opened on 5/28/09 by SJO

COURIER: CAS (UPS) FEDEX DHL CLIENT Tracking # J208 1512483

1	Were custody seals on outside of cooler?	(Yes)	No	N/A
2	Were seals intact, signed and dated?	(Yes)	No	N/A
3	Were custody papers properly filled out?	(Yes)	No	N/A
4	Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C)	1.1		
5	Correct Temperature?	(Yes)	No	N/A
6	Were Ice or Ice Packs present	(Yes)	No	N/A
7	Did all bottles arrive in good condition (unbroken, etc....)?	(Yes)	No	N/A
8	Were all bottle labels complete (sample ID, preservation, etc....)?	(Yes)	No	N/A
9	Did all bottle labels and tags agree with custody papers?	(Yes)	No	N/A
10	Were the correct bottles used for the tests indicated?	(Yes)	No	N/A
11	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

12	Were all samples received within analysis holding times?	(Yes)	No	N/A
13	Were VOA vials checked for absence of air bubbles? If present, note below	(Yes)	No	N/A
14	Where did the bottles originate?	(CAS)	Client	

Sample ID	Reagent	Manuf. Lot # or CAS Chem ID	ml added	Inititials

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

Client approval to run samples if discrepancies noted: Date:

SR #: J0902588 Date: 5/28/09 Initials: SSO

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

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

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

www.caslab.com

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

SR # 5902568
CAS Contact

Project Name: JED SWDF	Project Number: FQ1512A
Project Manager: Kirk Wills	Email Address: kwills@geosyntec.com
Company/Address: Geosyntec 14055 Riveredge Dr. Ste 300 Tampa, FL 33637	
Phone #: 813-558-0990	FAX#: 813-558-9726
Sampler's Signature: Joe Terry	Sampler's Printed Name: Joe Terry

ANALYSIS REQUESTED (Include Method Number and C[redacted]

PRESERVATIVE: 1 0 2 3 0 2

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	8260	8011	Metals	NH3	TDS, Cl, NO3	Dissolved Metals	REMARKS/ ALTERNATE DESCRIPTION
MW-1A		5-27-09	1245	GW	9	X	X	X	X	X		
MW-1B			1300		9							
MW-2A			1347		9							
MW-2B			1405		9							
MW-16A			0755		9							
MW-16B			0915		9							
MW-16C			0740		9							
MW-19A			1055		10						X	
MW-19B			1008		9							
Trip Blank				W	2							

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

SPECIAL INSTRUCTIONS/COMMENTS

See QAPP ☐

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

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

INVOICE INFORMATION
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Joe Terry	Signature:	Signature:	Signature: Summer Ostrom	Signature:	Signature:
Printed Name: Joe Terry	Printed Name: CAS	Printed Name: CAS	Printed Name: CAS	Printed Name:	Printed Name:
Firm: Geosyntec	Firm: CAS	Firm: CAS	Firm: 5/28/09	Firm:	Firm:
Date/Time: 5-27-09 / 1515	Date/Time:	Date/Time:	Date/Time: 0945	Date/Time:	Date/Time:

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

JSCOC-06/20/08