

ANALYTICAL REPORT

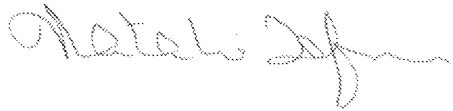
Job Number: 660-30754-1

Job Description: Citrus County Landfill

For:

Camp Dresser & McKee Inc
1715 North Westshore Blvd.
Suite 875
Tampa, FL 33607

Attention: Mr. Aamod Sonawane



Approved for release.
Natalie Tafuni
Project Manager I
8/10/2009 4:06 PM

Designee for
Hansan Mouslle
Project Manager I
hansan.mouslle@testamericainc.com
08/10/2009
Revision: 1

cc: Mr. David Rojas

Methods: FDEP, DOH Certification #: E84282, E81005 These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

TestAmerica Laboratories, Inc.

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Job Narrative
660-J30754-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

8260B

The laboratory control sample (LCS) for preparation batch 660-82165 exceeded control limits for the following analytes: MIBK and trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The data are flagged with J3 qualifiers.

The matrix spike (MS) for preparation batch 660-82165 was biased high for trichlorofluoromethane. Since the samples were ND, and the analyte was biased high, data is reported. The data are flagged with J3 qualifiers.

7470A

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 660-82358 were outside of control limits. The associated laboratory control sample (LCS) met acceptance criteria. The data are flagged with J3 qualifiers.

350.1

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 660-82623 were outside of control limits. The associated laboratory control sample (LCS) met acceptance criteria. The data are flagged with J3 qualifiers.

This report was revised on 8-10-09: The THMs were removed from the 8260B and reported only in the 524.2 list to prevent duplication in the adapt deliverables. Also the synonyms were changed for bromodichloromethane and dibromochloromethane. The Hg was removed from the 6020 list as it was reported by method 7470A.

EXECUTIVE SUMMARY - Detections

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
660-30754-1	MW-6				
Dibromochloromethane		1.4	0.50	ug/L	524.2
Chloroform		2.8	0.50	ug/L	524.2
Bromodichloromethane		1.7	1.0	ug/L	524.2
Trihalomethanes, Total		5.9	0.50	ug/L	524.2
Benzene		0.79 I	1.0	ug/L	8260B
1,1-Dichloroethane		0.76 I	1.0	ug/L	8260B
cis-1,2-Dichloroethene		1.1	1.0	ug/L	8260B
Vinyl chloride		2.2	1.0	ug/L	8260B
Xylenes, Total		1.5 I	3.0	ug/L	8260B
Color		Clear		Color Units	Field Sampling
Field pH		4.37		SU	Field Sampling
Field Temperature		24.9		Degrees C	Field Sampling
Oxygen, Dissolved		.68		mg/L	Field Sampling
Specific Conductance		815		umhos/cm	Field Sampling
Turbidity		2.21		NTU	Field Sampling
Water Level		112.05		ft	Field Sampling
Chloride		220	2.0	mg/L	300.0
Ammonia (as N)		1.1 J3	0.020	mg/L	350.1
Nitrate as N		6.6	0.50	mg/L	353.2
Total Dissolved Solids		430	10	mg/L	SM 2540C
Total Recoverable					
Barium		78	5.0	ug/L	6020
Beryllium		0.46 I	0.50	ug/L	6020
Lead		2.3	1.5	ug/L	6020
Cadmium		0.23 I	0.50	ug/L	6020
Nickel		19	1.0	ug/L	6020
Cobalt		2.1	0.50	ug/L	6020
Copper		20	5.0	ug/L	6020
Iron		280	100	ug/L	6020
Zinc		16 I	20	ug/L	6020
Sodium		110000	500	ug/L	6020

EXECUTIVE SUMMARY - Detections

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
660-30754-2	MW-6 DUP				
Dibromochloromethane		1.4	0.50	ug/L	524.2
Chloroform		2.5	0.50	ug/L	524.2
Bromodichloromethane		1.6	1.0	ug/L	524.2
Trihalomethanes, Total		5.5	0.50	ug/L	524.2
Benzene		0.87 I	1.0	ug/L	8260B
1,1-Dichloroethane		0.74 I	1.0	ug/L	8260B
cis-1,2-Dichloroethene		1.1	1.0	ug/L	8260B
Tetrachloroethene		0.50 I	1.0	ug/L	8260B
Vinyl chloride		2.4	1.0	ug/L	8260B
Xylenes, Total		1.6 I	3.0	ug/L	8260B
Chloride		220	2.0	mg/L	300.0
Ammonia (as N)		1.1	0.020	mg/L	350.1
Nitrate as N		6.5	0.50	mg/L	353.2
Total Dissolved Solids		400	10	mg/L	SM 2540C
Total Recoverable					
Barium		78	5.0	ug/L	6020
Beryllium		0.46 I	0.50	ug/L	6020
Lead		2.2	1.5	ug/L	6020
Cadmium		0.34 I	0.50	ug/L	6020
Nickel		18	1.0	ug/L	6020
Cobalt		2.1	0.50	ug/L	6020
Copper		18	5.0	ug/L	6020
Iron		270	100	ug/L	6020
Zinc		15 I	20	ug/L	6020
Sodium		110000	500	ug/L	6020

METHOD SUMMARY

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Total Trihalomethane Calculation	TAL SAV	EPA-DW 524.2	
Volatile Organic Compounds (GC/MS)	TAL TAM	SW846 8260B	
Purge and Trap	TAL TAM		SW846 5030B
EDB, DBCP, and 1,2,3-TCP (GC)	TAL TAM	SW846 8011	
Microextraction	TAL TAM		SW846 8011
Metals (ICP/MS)	TAL SAV	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL SAV		SW846 3005A
Mercury (CVAA)	TAL TAM	SW846 7470A	
Preparation, Mercury	TAL TAM		SW846 7470A
Anions, Ion Chromatography	TAL TAM	MCAWW 300.0	
Nitrogen, Ammonia	TAL TAM	MCAWW 350.1	
Nitrogen, Nitrate-Nitrite	TAL TAM	MCAWW 353.2	
Solids, Total Dissolved (TDS)	TAL TAL	SM SM 2540C	
Field Sampling	TAL TAM	EPA Field Sampling	
Membrane Filter Technique - Fecal Coliform Procedure	TAL ORL	SM 9222D	

Lab References:

TAL ORL = TestAmerica Orlando

TAL SAV = TestAmerica Savannah

TAL TAL = TestAmerica Tallahassee

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Method	Analyst	Analyst ID
EPA-DW 524.2	Jakubsen, Melanie	MLJ
SW846 8260B	Carlson, Robyn	RC
SW846 8011	Ballard, James	JB
SW846 6020	Boyuk, Brian	BB
SW846 7470A	Canales, Richard	RC
EPA Field Sampling	Atkins, Amy	AA
MCAWW 300.0	Cantin, Stephen C	SCC
MCAWW 350.1	Mathew, Pinky	PM
MCAWW 353.2	Steward, Tiffany	TS
SM SM 2540C	Office, Trey	TO

SAMPLE SUMMARY

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-30754-1	MW-6	Water	07/21/2009 1449	07/22/2009 0800
660-30754-2	MW-6 Dup	Water	07/21/2009 1449	07/22/2009 0800
660-30754-3	Trip Blank	Water	07/21/2009 0000	07/22/2009 0800

SAMPLE RESULTS

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Client Sample ID: MW-6

Lab Sample ID: 660-30754-1

Client Matrix: Water

Date Sampled: 07/21/2009 1449

Date Received: 07/22/2009 0800

524.2 Total Trihalomethane Calculation

Method:	524.2	Analysis Batch: 680-143890	Instrument ID:	MSS
Preparation:	N/A		Lab File ID:	s0232.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/27/2009 1448		Final Weight/Volume:	5 mL
Date Prepared:				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Bromoform	0.39	U	0.39	0.50
Dibromochloromethane	1.4		0.43	0.50
Chloroform	2.8		0.29	0.50
Bromodichloromethane	1.7		0.54	1.0
Trihalomethanes, Total	5.9		0.29	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichlorobenzene-d4	90		70 - 130
4-Bromofluorobenzene	89		70 - 130

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Client Sample ID: MW-6 Dup

Lab Sample ID: 660-30754-2

Client Matrix: Water

Date Sampled: 07/21/2009 1449

Date Received: 07/22/2009 0800

524.2 Total Trihalomethane Calculation

Method:	524.2	Analysis Batch: 680-143890	Instrument ID:	MSS
Preparation:	N/A		Lab File ID:	s0233.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/27/2009 1510		Final Weight/Volume:	5 mL
Date Prepared:				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Bromoform	0.39	U	0.39	0.50
Dibromochloromethane	1.4		0.43	0.50
Chloroform	2.5		0.29	0.50
Bromodichloromethane	1.6		0.54	1.0
Trihalomethanes, Total	5.5		0.29	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichlorobenzene-d4	89		70 - 130
4-Bromofluorobenzene	92		70 - 130

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Client Sample ID: MW-6

Lab Sample ID: 660-30754-1

Date Sampled: 07/21/2009 1449

Client Matrix: Water

Date Received: 07/22/2009 0800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 660-82165	Instrument ID:	BVMG5973
Preparation:	5030B		Lab File ID:	1GG2231.D
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/22/2009 1927		Final Weight/Volume:	5 mL
Date Prepared:	07/22/2009 1927			

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Acetone	9.9	U	9.9	20
Acrylonitrile	1.2	U	1.2	100
Benzene	0.79	I	0.50	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
trans-1,4-Dichloro-2-butene	2.5	U	2.5	10
1,1-Dichloroethane	0.76	I	0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	1.1		0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
2-Hexanone	4.4	U	4.4	10
Bromomethane	2.5	U	2.5	5.0
Chloromethane	1.0	U	1.0	4.0
Dibromomethane	0.41	U	0.41	1.0
Methylene Chloride	4.0	U	4.0	5.0
2-Butanone (MEK)	8.4	U	8.4	10
Iodomethane	2.5	U	2.5	5.0
4-Methyl-2-pentanone (MIBK)	3.8	U J3	3.8	10
Styrene	0.98	U	0.98	2.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U J3	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
Vinyl acetate	1.5	U	1.5	10
Vinyl chloride	2.2		0.50	1.0
Xylenes, Total	1.5	I	0.50	3.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Client Sample ID: MW-6

Lab Sample ID: 660-30754-1

Date Sampled: 07/21/2009 1449

Client Matrix: Water

Date Received: 07/22/2009 0800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 660-82165	Instrument ID:	BVMG5973
Preparation:	5030B		Lab File ID:	1GG2231.D
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/22/2009 1927		Final Weight/Volume:	5 mL
Date Prepared:	07/22/2009 1927			

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane	95		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Client Sample ID: MW-6 Dup

Lab Sample ID: 660-30754-2

Date Sampled: 07/21/2009 1449

Client Matrix: Water

Date Received: 07/22/2009 0800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 660-82165	Instrument ID:	BVMG5973
Preparation:	5030B		Lab File ID:	1GG2232.D
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/22/2009 1949		Final Weight/Volume:	5 mL
Date Prepared:	07/22/2009 1949			

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Acetone	9.9	U	9.9	20
Acrylonitrile	1.2	U	1.2	100
Benzene	0.87	I	0.50	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
trans-1,4-Dichloro-2-butene	2.5	U	2.5	10
1,1-Dichloroethane	0.74	I	0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	1.1		0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
2-Hexanone	4.4	U	4.4	10
Bromomethane	2.5	U	2.5	5.0
Chloromethane	1.0	U	1.0	4.0
Dibromomethane	0.41	U	0.41	1.0
Methylene Chloride	4.0	U	4.0	5.0
2-Butanone (MEK)	8.4	U	8.4	10
Iodomethane	2.5	U	2.5	5.0
4-Methyl-2-pentanone (MIBK)	3.8	U J3	3.8	10
Styrene	0.98	U	0.98	2.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	I	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U J3	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
Vinyl acetate	1.5	U	1.5	10
Vinyl chloride	2.4		0.50	1.0
Xylenes, Total	1.6	I	0.50	3.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Client Sample ID: MW-6 Dup

Lab Sample ID: 660-30754-2

Client Matrix: Water

Date Sampled: 07/21/2009 1449

Date Received: 07/22/2009 0800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 660-82165

Instrument ID: BVMG5973

Preparation: 5030B

Lab File ID: 1GG2232.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 07/22/2009 1949

Final Weight/Volume: 5 mL

Date Prepared: 07/22/2009 1949

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane	92		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Client Sample ID: Trip Blank

Lab Sample ID: 660-30754-3

Client Matrix: Water

Date Sampled: 07/21/2009 0000

Date Received: 07/22/2009 0800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 660-82165	Instrument ID:	BVMG5973
Preparation:	5030B		Lab File ID:	1GG2230.D
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/22/2009 1904		Final Weight/Volume:	5 mL
Date Prepared:	07/22/2009 1904			

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Acetone	9.9	U	9.9	20
Acrylonitrile	1.2	U	1.2	100
Benzene	0.50	U	0.50	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
trans-1,4-Dichloro-2-butene	2.5	U	2.5	10
1,1-Dichloroethane	0.52	U	0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
2-Hexanone	4.4	U	4.4	10
Bromomethane	2.5	U	2.5	5.0
Chloromethane	1.0	U	1.0	4.0
Dibromomethane	0.41	U	0.41	1.0
Methylene Chloride	4.0	U	4.0	5.0
2-Butanone (MEK)	8.4	U	8.4	10
Iodomethane	2.5	U	2.5	5.0
4-Methyl-2-pentanone (MIBK)	3.8	U J3	3.8	10
Styrene	0.98	U	0.98	2.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U J3	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
Vinyl acetate	1.5	U	1.5	10
Vinyl chloride	0.50	U	0.50	1.0

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Client Sample ID: Trip Blank

Lab Sample ID: 660-30754-3

Client Matrix: Water

Date Sampled: 07/21/2009 0000

Date Received: 07/22/2009 0800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 660-82165	Instrument ID:	BVMG5973
Preparation:	5030B		Lab File ID:	1GG2230.D
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/22/2009 1904		Final Weight/Volume:	5 mL
Date Prepared:	07/22/2009 1904			

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Xylenes, Total	0.50	U	0.50	3.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
4-Bromofluorobenzene	98		70 - 130	
Dibromofluoromethane	94		70 - 130	
Toluene-d8 (Surr)	101		70 - 130	

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Client Sample ID: MW-6

Lab Sample ID: 660-30754-1

Client Matrix: Water

Date Sampled: 07/21/2009 1449

Date Received: 07/22/2009 0800

8011 EDB, DBCP, and 1,2,3-TCP (GC)

Method:	8011	Analysis Batch:	660-82540	Instrument ID:	BSGU
Preparation:	8011	Prep Batch:	660-82529	Initial Weight/Volume:	36.6144 mL
Dilution:	1.0			Final Weight/Volume:	2.0 mL
Date Analyzed:	07/28/2009 1524			Injection Volume:	4 uL
Date Prepared:	07/28/2009 1345			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,2-Dibromo-3-Chloropropane	0.0096	U	0.0096	0.019
Ethylene Dibromide	0.0096	U	0.0096	0.019

Surrogate	%Rec	Qualifier	Acceptance Limits
1,1,1,2-Tetrachloroethane	82		60 - 140

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Client Sample ID: MW-6 Dup

Lab Sample ID: 660-30754-2

Client Matrix: Water

Date Sampled: 07/21/2009 1449

Date Received: 07/22/2009 0800

8011 EDB, DBCP, and 1,2,3-TCP (GC)

Method:	8011	Analysis Batch:	660-82540	Instrument ID:	BSGU
Preparation:	8011	Prep Batch:	660-82529	Initial Weight/Volume:	36.7398 mL
Dilution:	1.0			Final Weight/Volume:	2.0 mL
Date Analyzed:	07/28/2009 1607			Injection Volume:	4 uL
Date Prepared:	07/28/2009 1345			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,2-Dibromo-3-Chloropropane	0.0095	U	0.0095	0.019
Ethylene Dibromide	0.0095	U	0.0095	0.019

Surrogate	%Rec	Qualifier	Acceptance Limits
1,1,1,2-Tetrachloroethane	93		60 - 140

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Client Sample ID: MW-6

Lab Sample ID: 660-30754-1

Client Matrix: Water

Date Sampled: 07/21/2009 1449

Date Received: 07/22/2009 0800

6020 Metals (ICP/MS)-Total Recoverable

Method:	6020	Analysis Batch:	680-143770	Instrument ID:	ICPMSA
Preparation:	3005A	Prep Batch:	680-143550	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	07/25/2009 0142			Final Weight/Volume:	250 mL
Date Prepared:	07/23/2009 1215				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Antimony	2.3	U	2.3	5.0
Arsenic	1.3	U	1.3	2.5
Barium	78		1.3	5.0
Beryllium	0.46	I	0.25	0.50
Lead	2.3		0.20	1.5
Selenium	1.0	U	1.0	2.5
Cadmium	0.23	I	0.095	0.50
Silver	0.25	U	0.25	1.0
Chromium	2.5	U	2.5	5.0
Nickel	19		0.50	1.0
Cobalt	2.1		0.15	0.50
Copper	20		1.1	5.0
Iron	280		33	100
Vanadium	3.8	U	3.8	10
Zinc	16	I	8.3	20
Thallium	0.50	U	0.50	1.0
Sodium	110000		250	500

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch:	660-82358	Instrument ID:	PS200II
Preparation:	7470A	Prep Batch:	660-82319	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	25 mL
Date Analyzed:	07/24/2009 1408			Final Weight/Volume:	25 mL
Date Prepared:	07/24/2009 1015				

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Client Sample ID: MW-6 Dup

Lab Sample ID: 660-30754-2

Client Matrix: Water

Date Sampled: 07/21/2009 1449

Date Received: 07/22/2009 0800

6020 Metals (ICP/MS)-Total Recoverable

Method:	6020	Analysis Batch:	680-143770	Instrument ID:	ICPMSA
Preparation:	3005A	Prep Batch:	680-143550	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	07/25/2009 0149			Final Weight/Volume:	250 mL
Date Prepared:	07/23/2009 1215				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Antimony	2.3	U	2.3	5.0
Arsenic	1.3	U	1.3	2.5
Barium	78		1.3	5.0
Beryllium	0.46	I	0.25	0.50
Lead	2.2		0.20	1.5
Selenium	1.0	U	1.0	2.5
Cadmium	0.34	I	0.095	0.50
Silver	0.25	U	0.25	1.0
Chromium	2.5	U	2.5	5.0
Nickel	18		0.50	1.0
Cobalt	2.1		0.15	0.50
Copper	18		1.1	5.0
Iron	270		33	100
Vanadium	3.8	U	3.8	10
Zinc	15	I	8.3	20
Thallium	0.50	U	0.50	1.0
Sodium	110000		250	500

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch:	660-82358	Instrument ID:	PS200II
Preparation:	7470A	Prep Batch:	660-82319	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	25 mL
Date Analyzed:	07/24/2009 1410			Final Weight/Volume:	25 mL
Date Prepared:	07/24/2009 1015				

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

General Chemistry

Client Sample ID: MW-6

Lab Sample ID: 660-30754-1

Date Sampled: 07/21/2009 1449

Client Matrix: Water

Date Received: 07/22/2009 0800

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Ammonia (as N)	1.1	J3	mg/L	0.010	0.020	1.0	350.1
	Analysis Batch: 660-82623	Date Analyzed: 07/30/2009	1410				
Chloride	220		mg/L	0.80	2.0	4.0	300.0
	Analysis Batch: 660-82721	Date Analyzed: 08/03/2009	1737				
Total Dissolved Solids	430		mg/L	10	10	1.0	SM 2540C
	Analysis Batch: 640-58965	Date Analyzed: 07/23/2009	1516				
Nitrate as N	6.6		mg/L	0.10	0.50	1.0	353.2
	Analysis Batch: 660-82236	Date Analyzed: 07/22/2009	1435				

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

General Chemistry

Client Sample ID: MW-6 Dup

Lab Sample ID: 660-30754-2

Client Matrix: Water

Date Sampled: 07/21/2009 1449

Date Received: 07/22/2009 0800

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Ammonia (as N)	1.1		mg/L	0.010	0.020	1.0	350.1
	Analysis Batch: 660-82623	Date Analyzed: 07/30/2009	1414				
Chloride	220		mg/L	0.80	2.0	4.0	300.0
	Analysis Batch: 660-82721	Date Analyzed: 08/03/2009	1809				
Total Dissolved Solids	400		mg/L	10	10	1.0	SM 2540C
	Analysis Batch: 640-58965	Date Analyzed: 07/23/2009	1516				
Nitrate as N	6.5		mg/L	0.10	0.50	1.0	353.2
	Analysis Batch: 660-82236	Date Analyzed: 07/22/2009	1435				

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Field Service / Mobile Lab

Client Sample ID: MW-6

Lab Sample ID: 660-30754-1

Client Matrix: Water

Date Sampled: 07/21/2009 1449

Date Received: 07/22/2009 0800

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Color	Clear		Color Units	1.0	Field Sampling	660-82418	07/21/2009 1449
Field pH	4.37		SU	1.0	Field Sampling	660-82418	07/21/2009 1449
Field Temperature	24.9		Degrees C	1.0	Field Sampling	660-82418	07/21/2009 1449
Oxygen, Dissolved	.68		mg/L	1.0	Field Sampling	660-82418	07/21/2009 1449
Specific Conductance	815		umhos/cm	1.0	Field Sampling	660-82418	07/21/2009 1449
Turbidity	2.21		NTU	1.0	Field Sampling	660-82418	07/21/2009 1449
Water Level	112.05		ft	1.0	Field Sampling	660-82418	07/21/2009 1449

DATA REPORTING QUALIFIERS

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Lab Section	Qualifier	Description
GC/MS VOA		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
GC Semi VOA		
	U	Indicates that the compound was analyzed for but not detected.
Metals		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
General Chemistry		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.

QUALITY CONTROL RESULTS

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
660-30754-1	MW-6	101	95	102
660-30754-2	MW-6 Dup	100	92	102
660-30754-3	Trip Blank	98	94	101
MB 660-82165/3		99	91	102
LCS 660-82165/2		101	96	102
660-30730-B-1 MS		102	94	102
660-30730-D-2 DU		100	95	102

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	70-130
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Surrogate Recovery Report

8011 EDB, DBCP, and 1,2,3-TCP (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	TCEA1 %Rec
660-30754-1	MW-6	82
660-30754-2	MW-6 Dup	93
MB 660-82529/1-A		95
LCS 660-82529/2-A		101
660-30754-1 MS	MW-6 MS	73

Surrogate	Acceptance Limits
TCEA = 1,1,1,2-Tetrachloroethane	60-140

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Surrogate Recovery Report

524.2 Total Trihalomethane Calculation

Client Matrix: Water

Lab Sample ID	Client Sample ID	12DCB %Rec	BFB %Rec
660-30754-1	MW-6	90	89
660-30754-2	MW-6 Dup	89	92
MB 680-143890/26		94	95
LCS 680-143890/24		105	106
LCSD 680-143890/25		107	100

Surrogate	Acceptance Limits
12DCB = 1,2-Dichlorobenzene-d4	70-130
BFB = 4-Bromofluorobenzene	70-130

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Method Blank - Batch: 680-143890

Method: 524.2
Preparation: N/A

Lab Sample ID: MB 680-143890/26
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/27/2009 1304
Date Prepared: N/A

Analysis Batch: 680-143890
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - S
Lab File ID: sq124.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Bromoform	0.39	U	0.39	0.50
Dibromochloromethane	0.43	U	0.43	0.50
Chloroform	0.29	U	0.29	0.50
Bromodichloromethane	0.54	U	0.54	1.0
Trihalomethanes, Total	0.29	U	0.29	0.50

Surrogate	% Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	94	70 - 130
4-Bromofluorobenzene	95	70 - 130

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 680-143890

Method: 524.2
Preparation: N/A

LCS Lab Sample ID: LCS 680-143890/24
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/27/2009 1116
Date Prepared: N/A

Analysis Batch: 680-143890
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - S
Lab File ID: sq122.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-143890/25
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/27/2009 1138
Date Prepared: N/A

Analysis Batch: 680-143890
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - S
Lab File ID: sq123.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Bromoform	91	88	70 - 130	3	30		
Dibromochloromethane	99	96	70 - 130	3	30		
Chloroform	105	100	70 - 130	4	30		
Bromodichloromethane	105	101	70 - 130	4	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Method Blank - Batch: 660-82165

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 660-82165/3

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 07/22/2009 1114

Date Prepared: 07/22/2009 1114

Analysis Batch: 660-82165

Prep Batch: N/A

Units: ug/L

Instrument ID: BVMG GC/MS

Lab File ID: 1GG2209.D

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Acetone	9.9	U	9.9	20
Acrylonitrile	1.2	U	1.2	100
Benzene	0.50	U	0.50	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
trans-1,4-Dichloro-2-butene	2.5	U	2.5	10
1,1-Dichloroethane	0.52	U	0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
2-Hexanone	4.4	U	4.4	10
Bromomethane	2.5	U	2.5	5.0
Chloromethane	1.0	U	1.0	4.0
Dibromomethane	0.41	U	0.41	1.0
Methylene Chloride	4.0	U	4.0	5.0
2-Butanone (MEK)	8.4	U	8.4	10
Iodomethane	2.5	U	2.5	5.0
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Styrene	0.98	U	0.98	2.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Method Blank - Batch: 660-82165

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 660-82165/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/22/2009 1114
Date Prepared: 07/22/2009 1114

Analysis Batch: 660-82165
Prep Batch: N/A
Units: ug/L

Instrument ID: BVMG GC/MS
Lab File ID: 1GG2209.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
Vinyl acetate	1.5	U	1.5	10
Vinyl chloride	0.50	U	0.50	1.0
Xylenes, Total	0.50	U	0.50	3.0
Surrogate	% Rec	Acceptance Limits		
4-Bromofluorobenzene	99	70 - 130		
Dibromofluoromethane	91	70 - 130		
Toluene-d8 (Surr)	102	70 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Lab Control Sample - Batch: 660-82165

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 660-82165/2

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 07/22/2009 0944

Date Prepared: 07/22/2009 0944

Analysis Batch: 660-82165

Prep Batch: N/A

Units: ug/L

Instrument ID: BVMG GC/MS

Lab File ID: 1GG2205.D

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	100	134	134	62 - 142	
Acrylonitrile	200	245	122	10 - 183	
Benzene	20.0	24.3	122	64 - 140	
Chlorobromomethane	20.0	22.1	111	59 - 130	
Dichlorobromomethane	20.0	24.1	121	70 - 130	
Bromoform	20.0	20.9	105	65 - 130	
Carbon disulfide	10.0	12.5	125	30 - 184	
Carbon tetrachloride	20.0	25.7	129	53 - 145	
Chlorobenzene	20.0	22.2	111	70 - 130	
Chloroethane	20.0	26.9	134	39 - 174	
Chloroform	20.0	23.1	116	59 - 130	
Chlorodibromomethane	20.0	23.4	117	70 - 130	
1,2-Dibromo-3-Chloropropane	20.0	17.7	89	52 - 130	
Ethylene Dibromide	20.0	22.2	111	65 - 130	
1,2-Dichlorobenzene	20.0	20.9	105	70 - 130	
1,4-Dichlorobenzene	20.0	22.3	112	70 - 130	
trans-1,4-Dichloro-2-butene	20.0	21.1	105	70 - 130	
1,1-Dichloroethane	20.0	23.3	116	60 - 132	
1,2-Dichloroethane	20.0	24.8	124	70 - 130	
1,1-Dichloroethene	20.0	24.6	123	51 - 157	
cis-1,2-Dichloroethene	20.0	22.5	112	61 - 130	
trans-1,2-Dichloroethene	20.0	25.0	125	55 - 145	
1,2-Dichloropropane	20.0	24.6	123	70 - 130	
cis-1,3-Dichloropropene	20.0	24.6	123	70 - 130	
trans-1,3-Dichloropropene	20.0	23.2	116	62 - 130	
Ethylbenzene	20.0	24.0	120	69 - 131	
2-Hexanone	100	140	140	57 - 148	
Bromomethane	20.0	21.3	107	14 - 184	
Chloromethane	20.0	21.4	107	35 - 153	
Dibromomethane	20.0	21.6	108	70 - 130	
Methylene Chloride	20.0	22.6	113	57 - 130	
2-Butanone (MEK)	100	135	135	63 - 140	
Iodomethane	20.0	14.5	73	70 - 130	
4-Methyl-2-pentanone (MIBK)	100	139	139	64 - 137	J3
Styrene	20.0	23.5	118	62 - 136	
1,1,1,2-Tetrachloroethane	20.0	22.4	112	70 - 130	
1,1,2,2-Tetrachloroethane	20.0	21.9	110	67 - 130	
Tetrachloroethene	20.0	22.7	113	47 - 143	
Toluene	20.0	25.0	125	70 - 131	
1,1,1-Trichloroethane	20.0	24.7	123	57 - 135	
1,1,2-Trichloroethane	20.0	22.4	112	69 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Lab Control Sample - Batch: 660-82165

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 660-82165/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/22/2009 0944
Date Prepared: 07/22/2009 0944

Analysis Batch: 660-82165
Prep Batch: N/A
Units: ug/L

Instrument ID: BVMG GC/MS
Lab File ID: 1GG2205.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Trichloroethene	20.0	24.1	120	59 - 142	J3
Trichlorofluoromethane	20.0	30.0	150	62 - 147	
1,2,3-Trichloropropane	20.0	20.3	102	62 - 130	
Vinyl acetate	30.4	24.6	81	10 - 166	
Vinyl chloride	20.0	23.5	117	48 - 147	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Matrix Spike - Batch: 660-82165

Method: 8260B

Preparation: 5030B

Lab Sample ID: 660-30730-B-1 MS

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 07/22/2009 1650

Date Prepared: 07/22/2009 1650

Analysis Batch: 660-82165

Prep Batch: N/A

Units: ug/L

Instrument ID: BVMG GC/MS

Lab File ID: 1GG2224.D

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Sample	Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	9.9	U	100	120	120	62 - 142	
Acrylonitrile	1.2	U	200	219	110	10 - 183	
Benzene	0.50	U	20.0	22.0	110	64 - 140	
Chlorobromomethane	0.58	U	20.0	19.2	96	59 - 130	
Dichlorobromomethane	0.35	U	20.0	21.5	107	70 - 130	
Bromoform	0.58	U	20.0	19.2	96	65 - 130	
Carbon disulfide	0.85	U	10.0	9.96	100	30 - 184	
Carbon tetrachloride	0.42	U	20.0	23.0	115	53 - 145	
Chlorobenzene	0.63	U	20.0	20.7	103	70 - 130	
Chloroethane	2.5	U	20.0	27.2	136	39 - 174	
Chloroform	0.90	U	20.0	20.6	103	59 - 130	
Chlorodibromomethane	0.34	U	20.0	21.0	105	70 - 130	
1,2-Dibromo-3-Chloropropane	2.5	U	20.0	16.8	84	52 - 130	
Ethylene Dibromide	0.50	U	20.0	19.8	99	65 - 130	
1,2-Dichlorobenzene	0.44	U	20.0	19.1	96	70 - 130	
1,4-Dichlorobenzene	0.52	U	20.0	20.3	102	70 - 130	
trans-1,4-Dichloro-2-butene	2.5	U	20.0	19.7	99	70 - 130	
1,1-Dichloroethane	0.52	U	20.0	20.5	102	60 - 132	
1,2-Dichloroethane	0.57	U	20.0	22.5	112	70 - 130	
1,1-Dichloroethene	0.45	U	20.0	21.0	105	51 - 157	
cis-1,2-Dichloroethene	0.78	I	20.0	20.1	97	61 - 130	
trans-1,2-Dichloroethene	0.44	U	20.0	21.5	108	55 - 145	
1,2-Dichloropropane	0.52	U	20.0	21.5	107	70 - 130	
cis-1,3-Dichloropropene	0.14	U	20.0	20.8	104	70 - 130	
trans-1,3-Dichloropropene	0.14	U	20.0	19.7	99	62 - 130	
Ethylbenzene	0.44	U	20.0	22.2	111	69 - 131	
2-Hexanone	4.4	U	100	126	126	57 - 148	
Bromomethane	2.5	U	20.0	20.1	101	14 - 184	
Chloromethane	1.0	U	20.0	20.4	102	35 - 153	
Dibromomethane	0.41	U	20.0	19.8	99	70 - 130	
Methylene Chloride	4.0	U	20.0	20.1	101	57 - 130	
2-Butanone (MEK)	8.4	U	100	117	117	63 - 140	
Iodomethane	2.5	U	20.0	12.2	61	70 - 130	J3
4-Methyl-2-pentanone (MIBK)	3.8	U	100	129	129	64 - 137	
Styrene	0.98	U	20.0	21.5	108	62 - 136	
1,1,1,2-Tetrachloroethane	0.63	U	20.0	20.7	103	70 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Matrix Spike - Batch: 660-82165

Method: 8260B
Preparation: 5030B

Lab Sample ID: 660-30730-B-1 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/22/2009 1650
Date Prepared: 07/22/2009 1650

Analysis Batch: 660-82165
Prep Batch: N/A
Units: ug/L

Instrument ID: BVMG GC/MS
Lab File ID: 1GG2224.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
1,1,2,2-Tetrachloroethane	0.15	U	20.0	20.0	100	67 - 130	
Tetrachloroethene	0.99	I	20.0	22.0	105	47 - 143	
Toluene	0.51	U	20.0	22.7	114	70 - 131	
1,1,1-Trichloroethane	0.46	U	20.0	21.2	106	57 - 135	
1,1,2-Trichloroethane	0.47	U	20.0	20.6	103	69 - 130	
Trichloroethene	0.50	U	20.0	20.9	104	59 - 142	
Trichlorofluoromethane	2.5	U	20.0	30.0	150	62 - 147	J3
1,2,3-Trichloropropane	0.18	U	20.0	19.2	96	62 - 130	
Vinyl acetate	1.5	U	30.4	21.9	72	10 - 166	
Vinyl chloride	0.91	I	20.0	24.3	117	48 - 147	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Duplicate - Batch: 660-82165

Method: 8260B

Preparation: 5030B

Lab Sample ID: 660-30730-D-2 DU

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 07/22/2009 1436

Date Prepared: 07/22/2009 1436

Analysis Batch: 660-82165

Prep Batch: N/A

Units: ug/L

Instrument ID: BVMG GC/MS

Lab File ID: 1GG2218.D

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Acetone	9.9	U	9.9	NC	30	U
Acrylonitrile	1.2	U	1.2	NC	30	U
Benzene	0.50	U	0.50	NC	30	U
Chlorobromomethane	0.58	U	0.58	NC	30	U
Dichlorobromomethane	0.35	U	0.35	NC	30	U
Bromoform	0.58	U	0.58	NC	30	U
Carbon disulfide	0.85	U	0.85	NC	30	U
Carbon tetrachloride	0.42	U	0.42	NC	30	U
Chlorobenzene	0.63	U	0.63	NC	30	U
Chloroethane	2.5	U	2.5	NC	30	U
Chloroform	0.91	I	0.90	NC	30	U
Chlorodibromomethane	0.34	U	0.34	NC	30	U
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	NC	30	U
Ethylene Dibromide	0.50	U	0.50	NC	30	U
1,2-Dichlorobenzene	0.44	U	0.44	NC	30	U
1,4-Dichlorobenzene	0.52	U	0.52	NC	30	U
trans-1,4-Dichloro-2-butene	2.5	U	2.5	NC	30	U
1,1-Dichloroethane	0.52	U	0.52	NC	30	U
1,2-Dichloroethane	0.57	U	0.57	NC	30	U
1,1-Dichloroethene	0.45	U	0.45	NC	30	U
cis-1,2-Dichloroethene	0.65	U	0.65	NC	30	U
trans-1,2-Dichloroethene	0.44	U	0.44	NC	30	U
1,2-Dichloropropane	0.52	U	0.52	NC	30	U
cis-1,3-Dichloropropene	0.14	U	0.14	NC	30	U
trans-1,3-Dichloropropene	0.14	U	0.14	NC	30	U
Ethylbenzene	0.44	U	0.44	NC	30	U
2-Hexanone	4.4	U	4.4	NC	30	U
Bromomethane	2.5	U	2.5	NC	30	U
Chloromethane	1.0	U	1.0	NC	30	U
Dibromomethane	0.41	U	0.41	NC	30	U
Methylene Chloride	4.0	U	4.0	NC	30	U
2-Butanone (MEK)	8.4	U	8.4	NC	30	U
Iodomethane	2.5	U	2.5	NC	30	U
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	NC	30	U J3
Styrene	0.98	U	0.98	NC	30	U
1,1,1,2-Tetrachloroethane	0.63	U	0.63	NC	30	U
1,1,2,2-Tetrachloroethane	0.15	U	0.15	NC	30	U
Tetrachloroethene	0.50	U	0.50	NC	30	U
Toluene	0.51	U	0.51	NC	30	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Duplicate - Batch: 660-82165

Method: 8260B
Preparation: 5030B

Lab Sample ID: 660-30730-D-2 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/22/2009 1436
Date Prepared: 07/22/2009 1436

Analysis Batch: 660-82165
Prep Batch: N/A
Units: ug/L

Instrument ID: BVMG GC/MS
Lab File ID: 1GG2218.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
1,1,1-Trichloroethane	0.46	U	0.46	NC	30	U
1,1,2-Trichloroethane	0.47	U	0.47	NC	30	U
Trichloroethene	0.50	U	0.50	NC	30	U
Trichlorofluoromethane	2.5	U	2.5	NC	30	U J3
1,2,3-Trichloropropane	0.18	U	0.18	NC	30	U
Vinyl acetate	1.5	U	1.5	NC	30	U
Vinyl chloride	0.50	U	0.50	NC	30	U
Xylenes, Total	0.50	U	0.50	NC	30	U
Surrogate	% Rec		Acceptance Limits			
4-Bromofluorobenzene	100		70 - 130			
Dibromofluoromethane	95		70 - 130			
Toluene-d8 (Surr)	102		70 - 130			

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Method Blank - Batch: 660-82529

Lab Sample ID: MB 660-82529/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/28/2009 1346
Date Prepared: 07/28/2009 1345

Analysis Batch: 660-82540
Prep Batch: 660-82529
Units: ug/L

Method: 8011 Preparation: 8011

Instrument ID: HP 5890 DUAL ECD
Lab File ID: 1G28U011.D
Initial Weight/Volume: 34.9721 mL
Final Weight/Volume: 2.0 mL
Injection Volume: 4 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	PQL
1,2-Dibromo-3-Chloropropane	0.010	U	0.010	0.020
Ethylene Dibromide	0.010	U	0.010	0.020
Surrogate	% Rec		Acceptance Limits	
1,1,1,2-Tetrachloroethane	95		60 - 140	

Lab Control Sample - Batch: 660-82529

Lab Sample ID: LCS 660-82529/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/28/2009 1408
Date Prepared: 07/28/2009 1345

Analysis Batch: 660-82540
Prep Batch: 660-82529
Units: ug/L

Method: 8011 Preparation: 8011

Instrument ID: HP 5890 DUAL ECD
Lab File ID: 1G28U012.D
Initial Weight/Volume: 34.8657 mL
Final Weight/Volume: 2.0 mL
Injection Volume: 4 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2-Dibromo-3-Chloropropane	0.251	0.242	97	60 - 140	
Ethylene Dibromide	0.251	0.251	100	60 - 140	

Matrix Spike - Batch: 660-82529

Lab Sample ID: 660-30754-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/28/2009 1545
Date Prepared: 07/28/2009 1345

Analysis Batch: 660-82540
Prep Batch: 660-82529
Units: ug/L

Method: 8011 Preparation: 8011

Instrument ID: HP 5890 DUAL ECD
Lab File ID: 1G28U016.D
Initial Weight/Volume: 36.5256 mL
Final Weight/Volume: 2.0 mL
Injection Volume: 4 uL
Column ID: PRIMARY

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
1,2-Dibromo-3-Chloropropane	0.0096	U	0.240	0.177	74	60 - 140	
Ethylene Dibromide	0.0096	U	0.240	0.180	75	60 - 140	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Method Blank - Batch: 680-143550

Lab Sample ID: MB 680-143550/17-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/25/2009 0015
Date Prepared: 07/23/2009 1215

Analysis Batch: 680-143770
Prep Batch: 680-143550
Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	PQL
Antimony	2.3	U	2.3	5.0
Arsenic	1.3	U	1.3	2.5
Barium	1.3	U	1.3	5.0
Beryllium	0.25	U	0.25	0.50
Lead	0.20	U	0.20	1.5
Selenium	1.0	U	1.0	2.5
Cadmium	0.095	U	0.095	0.50
Silver	0.25	U	0.25	1.0
Chromium	2.5	U	2.5	5.0
Nickel	0.50	U	0.50	1.0
Cobalt	0.15	U	0.15	0.50
Copper	1.1	U	1.1	5.0
Iron	33	U	33	100
Vanadium	3.8	U	3.8	10
Zinc	8.3	U	8.3	20
Thallium	0.50	U	0.50	1.0
Sodium	250	U	250	500

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Lab Control Sample - Batch: 680-143550

Method: 6020

Preparation: 3005A

Total Recoverable

Lab Sample ID: LCS 680-143550/18-A

Analysis Batch: 680-143770

Instrument ID: ICP MS - A

Client Matrix: Water

Prep Batch: 680-143550

Lab File ID: N/A

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 50 mL

Date Analyzed: 07/25/2009 0022

Final Weight/Volume: 250 mL

Date Prepared: 07/23/2009 1215

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	50.0	54.8	110	75 - 125	
Arsenic	100	104	104	75 - 125	
Barium	100	103	103	75 - 125	
Beryllium	50.0	53.0	106	75 - 125	
Lead	50.0	49.6	99	75 - 125	
Selenium	100	106	106	75 - 125	
Cadmium	50.0	52.0	104	75 - 125	
Silver	50.0	50.6	101	75 - 125	
Chromium	100	101	101	75 - 125	
Nickel	100	104	104	75 - 125	
Cobalt	50.0	49.4	99	75 - 125	
Copper	100	104	104	75 - 125	
Iron	5000	5100	102	75 - 125	
Vanadium	100	102	102	75 - 125	
Zinc	100	106	106	75 - 125	
Thallium	40.0	40.7	102	75 - 125	
Sodium	5000	5000	100	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 680-143550

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-30729-B-1-B MS Analysis Batch: 680-143770
Client Matrix: Water Prep Batch: 680-143550
Dilution: 1.0
Date Analyzed: 07/25/2009 0048
Date Prepared: 07/23/2009 1215

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

MSD Lab Sample ID: 660-30729-B-1-C MSD Analysis Batch: 680-143770
Client Matrix: Water Prep Batch: 680-143550
Dilution: 1.0
Date Analyzed: 07/25/2009 0055
Date Prepared: 07/23/2009 1215

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Antimony	108	104	75 - 125	4	20		
Arsenic	104	100	75 - 125	4	20		
Barium	100	97	75 - 125	3	20		
Beryllium	109	102	75 - 125	6	20		
Lead	98	94	75 - 125	4	20		
Selenium	106	102	75 - 125	3	20		
Cadmium	103	99	75 - 125	3	20		
Silver	99	96	75 - 125	3	20		
Chromium	100	97	75 - 125	3	20		
Nickel	101	97	75 - 125	3	20		
Cobalt	96	93	75 - 125	3	20		
Copper	98	95	75 - 125	3	20		
Iron	103	100	75 - 125	3	20		
Vanadium	101	98	75 - 125	3	20		
Zinc	105	109	75 - 125	4	20		
Thallium	103	99	75 - 125	4	20		
Sodium	98	93	75 - 125	3	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Method Blank - Batch: 660-82319

Method: 7470A
Preparation: 7470A

Lab Sample ID: MB 660-82319/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/24/2009 1346
Date Prepared: 07/24/2009 1015

Analysis Batch: 660-82358
Prep Batch: 660-82319
Units: mg/L

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result	Qual	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020

Lab Control Sample - Batch: 660-82319

Method: 7470A
Preparation: 7470A

Lab Sample ID: LCS 660-82319/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/24/2009 1348
Date Prepared: 07/24/2009 1015

Analysis Batch: 660-82358
Prep Batch: 660-82319
Units: mg/L

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00100	0.000979	98	80 - 120	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 660-82319

Method: 7470A
Preparation: 7470A

MS Lab Sample ID: 660-30753-I-1-C MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/24/2009 1355
Date Prepared: 07/24/2009 1015

Analysis Batch: 660-82358
Prep Batch: 660-82319

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

MSD Lab Sample ID: 660-30753-I-1-D MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/24/2009 1357
Date Prepared: 07/24/2009 1015

Analysis Batch: 660-82358
Prep Batch: 660-82319

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Mercury	66	66	80 - 120	0	20	J3	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Method Blank - Batch: 660-82721

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 660-82721/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/01/2009 0916
Date Prepared: N/A

Analysis Batch: 660-82721
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Chloride	0.20	U	0.20	0.50

Lab Control Sample - Batch: 660-82721

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 660-82721/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/01/2009 0949
Date Prepared: N/A

Analysis Batch: 660-82721
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	10.0	10.3	103	90 - 110	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 660-82721

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-30755-H-2 MS
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 08/01/2009 1231
Date Prepared: N/A

Analysis Batch: 660-82721
Prep Batch: N/A

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 660-30755-H-2 MSD
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 08/01/2009 1304
Date Prepared: N/A

Analysis Batch: 660-82721
Prep Batch: N/A

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Chloride	105	105	90 - 110	0	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Method Blank - Batch: 660-82623

Method: 350.1
Preparation: N/A

Lab Sample ID: MB 660-82623/12
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/30/2009 1351
Date Prepared: N/A

Analysis Batch: 660-82623
Prep Batch: N/A
Units: mg/L

Instrument ID: Autoanalyzer
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	PQL
Ammonia (as N)	0.010	U	0.010	0.020

Lab Control Sample - Batch: 660-82623

Method: 350.1
Preparation: N/A

Lab Sample ID: LCS 660-82623/13
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/30/2009 1353
Date Prepared: N/A

Analysis Batch: 660-82623
Prep Batch: N/A
Units: mg/L

Instrument ID: Autoanalyzer
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia (as N)	0.500	0.501	100	90 - 110	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 660-82623

Method: 350.1
Preparation: N/A

MS Lab Sample ID: 660-30754-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/30/2009 1411
Date Prepared: N/A

Analysis Batch: 660-82623
Prep Batch: N/A

Instrument ID: Autoanalyzer
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 660-30754-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/30/2009 1413
Date Prepared: N/A

Analysis Batch: 660-82623
Prep Batch: N/A

Instrument ID: Autoanalyzer
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Ammonia (as N)	85	85	90 - 110	0	30	J3	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Method Blank - Batch: 660-82236

Method: 353.2
Preparation: N/A

Lab Sample ID: MB 660-82236/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/22/2009 1435
Date Prepared: N/A

Analysis Batch: 660-82236
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Nitrate Nitrite as N	0.10	U	0.10	0.50
Nitrite as N	0.10	U	0.10	0.50
Nitrate as N	0.10	U	0.10	0.50

Lab Control Sample - Batch: 660-82236

Method: 353.2
Preparation: N/A

Lab Sample ID: LCS 660-82236/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/22/2009 1435
Date Prepared: N/A

Analysis Batch: 660-82236
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N	1.00	1.06	106	90 - 110	
Nitrite as N	1.00	0.979	98	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-82236**

**Method: 353.2
Preparation: N/A**

MS Lab Sample ID: 660-30754-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/22/2009 1435
Date Prepared: N/A

Analysis Batch: 660-82236
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-30754-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/22/2009 1435
Date Prepared: N/A

Analysis Batch: 660-82236
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Nitrate Nitrite as N	94	94	90 - 110	0	30		
Nitrite as N	94	97	90 - 110	3	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Method Blank - Batch: 640-58965

Method: SM 2540C
Preparation: N/A

Lab Sample ID: MB 640-58965/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/23/2009 1515
Date Prepared: N/A

Analysis Batch: 640-58965
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Result	Qual	MDL	PQL
Total Dissolved Solids	5.0	U	5.0	5.0

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 640-58965

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-58965/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/23/2009 1515
Date Prepared: N/A

Analysis Batch: 640-58965
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

LCSD Lab Sample ID: LCSD 640-58965/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/23/2009 1515
Date Prepared: N/A

Analysis Batch: 640-58965
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Total Dissolved Solids	98	96	80 - 120	2	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Duplicate - Batch: 640-58965

Method: SM 2540C
Preparation: N/A

Lab Sample ID: 660-30761-C-1 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/23/2009 1515
Date Prepared: N/A

Analysis Batch: 640-58965
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids	20	19.5	5	25	

Calculations are performed before rounding to avoid round-off errors in calculated results.

7/24/2009 5:39:19PM

Client: TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Attn: Natalie Tafuni

Work Order: NSG1682
Project Name: CDM - Citrus County
Project Number: 660-30754
Date Received: 07/22/09

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MW-6	NSG1682-01	07/21/09 14:49
MW-6 DUP	NSG1682-02	07/21/09 14:49

Samples were received into laboratory at a temperature of 2.10 °C.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately.

Results are reported on a wet weight basis unless otherwise noted

The reported results were obtained in compliance with 2003 NELAC standards unless otherwise noted.

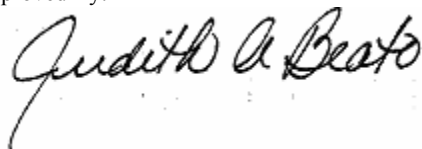
These results relate only to the items tested

Estimated uncertainty is available upon request.

Florida Certification Number: E87358

This report has been electronically signed.

Approved By:



TestAmerica Nashville
Judith A Beato
Project Manager

Client: TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Attn: Natalie Tafuni

Work Order: NSG1682
Project: CDM - Citrus County
Project Number: 660-30754

Sampled: 07/21/09
Received: 07/22/09

LABORATORY REPORT

Sample ID: MW-6 - Lab Number: NSG1682-01 - Matrix: Water

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Microbiology											
E761792	Fecal Coliform	2	U	CFU/100 ml	2	2	2	07/22/09 16:08	SXJ	SM 9222D	9073167
Prep Date: 07/21/09 17:19											

LABORATORY REPORT

Sample ID: MW-6 DUP - Lab Number: NSG1682-02 - Matrix: Water

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Microbiology											
E761792	Fecal Coliform	2	U	CFU/100 ml	2	2	2	07/22/09 16:08	SXJ	SM 9222D	9073167
Prep Date: 07/21/09 17:19											

Client: TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Attn: Natalie Tafuni

Work Order: NSG1682
Project: CDM - Citrus County
Project Number: 660-30754

Sampled: 07/21/09
Received: 07/22/09

SAMPLE EXTRACTION DATA

Parameter	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Method
Microbiology	NSG1682-01	100.0 mL	100.0 mL	07/21/2009	SXJ	MF
Microbiology	NSG1682-02	100.0 mL	100.0 mL	07/21/2009	SXJ	MF

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number
Microbiology					
Fecal Coliform	1	U	CFU/100 ml	9073167	9073167-BLK1

PROJECT QUALITY CONTROL DATA

Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	RPD Limit	Q.C. Batch	Sample Duplicated
Microbiology								
Fecal Coliform	<2	2	U	CFU/100 ml		15	9073167	NSG1682-01

Client: TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Attn: Natalie Tafuni

Work Order: NSG1682
Project: CDM - Citrus County
Project Number: 660-30754

Sampled: 07/21/09
Received: 07/22/09

CERTIFICATION SUMMARY

TestAmerica Nashville

Method	Matrix	A2LA	AIHA	Nelac	Florida
SM 9222D	Water			X	X

Subcontracted Laboratories

TestAmerica - Orlando, FL Florida Cert #E83012
8010 Sunport Drive Suite 116 - Orlando, FL 32809
Analysis Performed: Coliform Fecal SM9222D (MF)
Samples: NSG1682-01, NSG1682-02

DATA QUALIFIERS AND DEFINITIONS

U The compound was analyzed for but not detected

ADDITIONAL COMMENTS

When insufficient sample volume is received for Matrix Spike and Matrix Spike Duplicate, Laboratory Control Spike and Laboratory Control Spike Duplicate data is used for batch QC.

Client: TestAmerica TampaProject: NSG1682

Shipped By: Walk-in

Tracking Number:

Cooler Received On: 07/22/09 09:21And Opened On (Date/time): 7-21-09/1721

Received By: Ryan Reich

Logged in by: Ryan Reich

Were custody seals on the outside of cooler? YES ☐ NO ☒ If Yes # ☐ Location ☐Were custody seals intact? YES ☐ NO ☐ N/A ☒ (no seals present)Chain of Custody Complete? YES ☒ NO ☐Discrepancy Comments:Cooler Temperature When Opened: 2.10 Degrees CelsiusTemperature Blank Included: YES ☐ NO ☒Packing Material: Bubblewrap ☐ NONE ☒ Other: ☐Received on Ice: YES ☒ NO ☐ Other: ☐ Total # Of Containers: 4 # Vials ☐Any Bottles Broken? YES ☐ NO ☒ If Yes Which One(s)? ☐Any Missing Samples? YES ☐ NO ☒ If Yes Which One(s)? ☐pH Levels: H2SO4 <=2? ☐ HNO3 <=2? ☐ HCL <=2? ☐ NaOH >=10? ☐# Of Containers Unpreserved between 6 and 8? 4Any Air Bubbles in VOA Vials? YES ☐ NO ☐ N/A ☒ (no VOA vials received)Was there enough sample shipped in each container? YES ☒ NO ☒ RR 7-22-09Correct Preservatives Used? YES ☒ NO ☐ If No, see comments:

Project Manager: Judith A Beato

Corrective Actions Taken

TestAmerica

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

☐ Alternate Laboratory Name/Location

[illegible]

JOB NUMBER: 30754 Logged in TALS By: Carol Mc Mully

Cooler Received on (date) 7/22/09 And Opened By (full name): Carol Mc Mully

1. Shipper (circle one) FEDEX UPS DHL WALK-IN COURIER OTHER: _____

2. Tracking # _____

3. Temperature of rep. sample or temp blank when opened: 2.1 Degrees Celsius

4. Number of H2SO4 (sulfuric acid) preserved containers: 2

All containers pH < 2 ? yes If not please comment below:

5. Number of HCL (hydrochloric acid) preserved containers: _____

All containers pH < 2 ? _____ If not please comment below:

6. Number of HNO3 (nitric acid) preserved containers: 2

All containers pH < 2 ? yes If not please comment below:

7. Number of NaOH (sodium hydroxide) preserved containers: _____

All containers pH > 12 ? _____ If not please comment below:

8. Number of Unpreserved containers: 4

All containers pH between 6 and 8? yes If not please comment below:

9. Was chlorine present in any of the unpreserved containers? no

If yes, which samples? _____

Meter #'s:

PAGE: of

SITE NAME: CDM		SITE LOCATION: Leconte, FL	
WELL NO: mw-6	SAMPLE ID:		DATE: 7-21-09

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 112 feet to 122 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: D8P
Measuring Point Elevation (ft/msl) MP Elevation =		- Water Level = Water Level Elevation		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 1315 1347 112.05 112.05 x 11

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 118	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 118	PURGING INITIATED AT: 1343	PURGING ENDED AT: 1421	TOTAL VOLUME PURGED (gallons): 304
--	--	----------------------------	------------------------	------------------------------------

[illegible]

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

SAMPLED BY (PRINT) / AFFILIATION: <i>Ryan Reich</i>		SAMPLER(S) SIGNATURES: 		SAMPLING INITIATED AT: <i>1421</i>	SAMPLING ENDED AT: <i>1449</i>
PUMP OR TUBING DEPTH IN WELL (feet): <i>118</i>		SAMPLE PUMP FLOW RATE (mL per minute):		TUBING MATERIAL CODE: <i>PE</i>	
FIELD DECONTAMINATION: ☒ Y ☐ N		FIELD-FILTERED: ☒ Y ☐ N Filtration Equipment Type: _____		FILTER SIZE: _____ μ m	DUPLICATE: ☒ Y ☐ N

[illegible]

REMARKS:

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

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

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

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

pH: ± 0.2 units **Temperature:** $\pm 0.2^\circ\text{C}$ **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, $\pm 0.2\text{ mg/L}$ or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings $\leq 20\text{ NTU}$; optionally $\pm 5\text{ NTU}$ or $\pm 10\%$ (whichever is greater)

Login Sample Receipt Check List

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Login Number: 30754

Creator: McNulty, Carol

List Number: 1

List Source: TestAmerica Tampa

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2.1 degrees C Cu-07
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	

Login Sample Receipt Check List

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Login Number: 30754
Creator: Conner, Keaton
List Number: 1

List Source: TestAmerica Savannah
List Creation: 07/23/09 09:13 AM

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	False	
Sample Preservation Verified	True	

Login Sample Receipt Check List

Client: Camp Dresser & McKee Inc

Job Number: 660-30754-1

Login Number: 30754
Creator: Alsheimer, Carl
List Number: 1

List Source: TestAmerica Tallahassee
List Creation: 07/23/09 08:24 AM

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	