

ANALYTICAL REPORT

Job Number: 460-38301-1

Job Description: Site No: 130050 DEC Hempstead 206

For:
New York State D.E.C.
625 Broadway
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Albany, NY 12233
Attention: Mr. David Gardner



Approved for release.
Larry Decker
Project Manager I
4/25/2012 4:21 PM

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04/25/2012

cc: Mr. Greg Mann
Mrs. Tracy Salvitti
Ms. Karen Sanford

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A handwritten signature in black ink, consisting of a large, stylized 'L' and 'D' followed by a horizontal line extending to the right.

Approved for release.
Larry Decker
Project Manager I
4/25/2012 4:21 PM

Larry Decker

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CASE NARRATIVE

Client: New York State D.E.C.

Project: Site No: 130050 DEC Hempstead 206

Report Number: 460-38301-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/24/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.4 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

TOTAL METALS

Sample 460-38301-3 was analyzed for total metals in accordance with EPA SW-846 Method 6010B. The samples were prepared on 04/17/2012 and analyzed on 04/18/2012.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples 460-38301-1 through 460-38301-3 were analyzed for volatile organic compounds (GC-MS) in accordance with EPA Method 624. The samples were analyzed on 03/28/2012.

Method(s) 624: The matrix spike / matrix spike duplicate (MS/MSD) %RPD for batch 107324-2 could not be calculated for 2-Chloroethyl vinyl ether due to the sample preservation.

No difficulties were encountered during the volatiles analyses.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 460-38301-1

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
460-38301-1	EW-1					
Chloroform		0.11	J	1.0	ug/L	624
Tetrachloroethene		21		1.0	ug/L	624
460-38301-2	EW-2					
Chloroform		0.13	J	1.0	ug/L	624
Tetrachloroethene		49		1.0	ug/L	624
460-38301-3	AS					
Manganese		15.6		15.0	ug/L	6010B

METHOD SUMMARY

Client: New York State D.E.C.

Job Number: 460-38301-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL EDI	40CFR136A 624	
Metals (ICP)	TAL EDI	SW846 6010B	
Preparation, Total Metals	TAL EDI		SW846 3010A

Lab References:

TAL EDI = TestAmerica Edison

Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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

METHOD / ANALYST SUMMARY

Client: New York State D.E.C.

Job Number: 460-38301-1

Method	Analyst	Analyst ID
40CFR136A 624	Moroney, Christopher J	CJM
SW846 6010B	Chang, Churn Der	CDC

SAMPLE SUMMARY

Client: New York State D.E.C.

Job Number: 460-38301-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-38301-1	EW-1	Water	03/22/2012 1200	03/24/2012 1020
460-38301-2	EW-2	Water	03/22/2012 1205	03/24/2012 1020
460-38301-3	AS	Water	03/22/2012 1155	03/24/2012 1020

SAMPLE RESULTS

Analytical Data

Client: New York State D.E.C.

Job Number: 460-38301-1

Client Sample ID: EW-1

Lab Sample ID: 460-38301-1

Date Sampled: 03/22/2012 1200

Client Matrix: Water

Date Received: 03/24/2012 1020

624 Volatile Organic Compounds (GC/MS)

Analysis Method: 624	Analysis Batch: 460-107324	Instrument ID: VOAMS6
N/A	Prep Batch: N/A	Lab File ID: f86827.d
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 03/28/2012 2356		Final Weight/Volume: 5 mL
Prep Date: N/A		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloromethane	1.0	U	0.10	1.0
Bromomethane	1.0	U	0.18	1.0
Vinyl chloride	1.0	U	0.14	1.0
Chloroethane	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.18	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
1,1-Dichloroethene	1.0	U	0.090	1.0
1,1-Dichloroethane	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.13	1.0
cis-1,2-Dichloroethene	1.0	U	0.18	1.0
Chloroform	0.11	J	0.080	1.0
1,2-Dichloroethane	1.0	U	0.19	1.0
1,1,1-Trichloroethane	1.0	U	0.060	1.0
Carbon tetrachloride	1.0	U	0.060	1.0
Bromodichloromethane	1.0	U	0.12	1.0
1,2-Dichloropropane	1.0	U	0.090	1.0
cis-1,3-Dichloropropene	1.0	U	0.18	1.0
Trichloroethene	1.0	U	0.090	1.0
Dibromochloromethane	1.0	U	0.20	1.0
1,1,2-Trichloroethane	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.24	1.0
2-Chloroethyl vinyl ether	1.0	U	0.34	1.0
Bromoform	1.0	U	0.19	1.0
Tetrachloroethene	21		0.10	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.16	1.0
Chlorobenzene	1.0	U	0.11	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.21	1.0
Dichlorodifluoromethane	1.0	U	0.22	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	97		70 - 130
4-Bromofluorobenzene	100		70 - 130

Analytical Data

Client: New York State D.E.C.

Job Number: 460-38301-1

Client Sample ID: EW-2

Lab Sample ID: 460-38301-2

Date Sampled: 03/22/2012 1205

Client Matrix: Water

Date Received: 03/24/2012 1020

624 Volatile Organic Compounds (GC/MS)

Analysis Method: 624	Analysis Batch: 460-107324	Instrument ID: VOAMS6
N/A	Prep Batch: N/A	Lab File ID: f86826.d
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 03/28/2012 2334		Final Weight/Volume: 5 mL
Prep Date: N/A		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloromethane	1.0	U	0.10	1.0
Bromomethane	1.0	U	0.18	1.0
Vinyl chloride	1.0	U	0.14	1.0
Chloroethane	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.18	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
1,1-Dichloroethene	1.0	U	0.090	1.0
1,1-Dichloroethane	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.13	1.0
cis-1,2-Dichloroethene	1.0	U	0.18	1.0
Chloroform	0.13	J	0.080	1.0
1,2-Dichloroethane	1.0	U	0.19	1.0
1,1,1-Trichloroethane	1.0	U	0.060	1.0
Carbon tetrachloride	1.0	U	0.060	1.0
Bromodichloromethane	1.0	U	0.12	1.0
1,2-Dichloropropane	1.0	U	0.090	1.0
cis-1,3-Dichloropropene	1.0	U	0.18	1.0
Trichloroethene	1.0	U	0.090	1.0
Dibromochloromethane	1.0	U	0.20	1.0
1,1,2-Trichloroethane	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.24	1.0
2-Chloroethyl vinyl ether	1.0	U	0.34	1.0
Bromoform	1.0	U	0.19	1.0
Tetrachloroethene	49		0.10	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.16	1.0
Chlorobenzene	1.0	U	0.11	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.21	1.0
Dichlorodifluoromethane	1.0	U	0.22	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	97		70 - 130
4-Bromofluorobenzene	101		70 - 130

Analytical Data

Client: New York State D.E.C.

Job Number: 460-38301-1

Client Sample ID: AS

Lab Sample ID: 460-38301-3

Date Sampled: 03/22/2012 1155

Client Matrix: Water

Date Received: 03/24/2012 1020

624 Volatile Organic Compounds (GC/MS)

Analysis Method: 624	Analysis Batch: 460-107324	Instrument ID: VOAMS6
N/A	Prep Batch: N/A	Lab File ID: f86825.d
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 03/28/2012 2313		Final Weight/Volume: 5 mL
Prep Date: N/A		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloromethane	1.0	U	0.10	1.0
Bromomethane	1.0	U	0.18	1.0
Vinyl chloride	1.0	U	0.14	1.0
Chloroethane	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.18	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
1,1-Dichloroethene	1.0	U	0.090	1.0
1,1-Dichloroethane	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.13	1.0
cis-1,2-Dichloroethene	1.0	U	0.18	1.0
Chloroform	1.0	U	0.080	1.0
1,2-Dichloroethane	1.0	U	0.19	1.0
1,1,1-Trichloroethane	1.0	U	0.060	1.0
Carbon tetrachloride	1.0	U	0.060	1.0
Bromodichloromethane	1.0	U	0.12	1.0
1,2-Dichloropropane	1.0	U	0.090	1.0
cis-1,3-Dichloropropene	1.0	U	0.18	1.0
Trichloroethene	1.0	U	0.090	1.0
Dibromochloromethane	1.0	U	0.20	1.0
1,1,2-Trichloroethane	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.24	1.0
2-Chloroethyl vinyl ether	1.0	U	0.34	1.0
Bromoform	1.0	U	0.19	1.0
Tetrachloroethene	1.0	U	0.10	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.16	1.0
Chlorobenzene	1.0	U	0.11	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.21	1.0
Dichlorodifluoromethane	1.0	U	0.22	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	97		70 - 130
4-Bromofluorobenzene	98		70 - 130

Analytical Data

Client: New York State D.E.C.

Job Number: 460-38301-1

Client Sample ID: AS

Lab Sample ID: 460-38301-3

Date Sampled: 03/22/2012 1155

Client Matrix: Water

Date Received: 03/24/2012 1020

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-109848	Instrument ID:	ICP4
Prep Method:	3010A	Prep Batch:	460-109592	Lab File ID:	04182012A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	04/18/2012 1912			Final Weight/Volume:	50 mL
Prep Date:	04/17/2012 0757				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	150	U	73.6	150
Manganese	15.6		4.3	15.0

DATA REPORTING QUALIFIERS

Client: New York State D.E.C.

Job Number: 460-38301-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	J	Indicates an estimated value.
Metals		
	U	Indicates analyzed for but not detected.

QUALITY CONTROL RESULTS

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-38301-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:460-107324					
LCS 460-107324/25	Lab Control Sample	T	Water	624	
MB 460-107324/26	Method Blank	T	Water	624	
460-38301-1	EW-1	T	Water	624	
460-38301-2	EW-2	T	Water	624	
460-38301-3	AS	T	Water	624	

Report Basis

T = Total

Metals

Prep Batch: 460-109592					
LCS 460-109592/2-A	Lab Control Sample	T	Water	3010A	
MB 460-109592/1-A	Method Blank	T	Water	3010A	
460-38301-3	AS	T	Water	3010A	
Analysis Batch:460-109848					
LCS 460-109592/2-A	Lab Control Sample	T	Water	6010B	460-109592
MB 460-109592/1-A	Method Blank	T	Water	6010B	460-109592
460-38301-3	AS	T	Water	6010B	460-109592

Report Basis

T = Total

Client: New York State D.E.C.

Job Number: 460-38301-1

Surrogate Recovery Report

624 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
460-38301-1	EW-1	102	97	100
460-38301-2	EW-2	100	97	101
460-38301-3	AS	102	97	98
MB 460-107324/26		102	98	101
LCS 460-107324/25		99	99	100

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-38301-1

Method Blank - Batch: 460-107324

**Method: 624
Preparation: N/A**

Lab Sample ID: MB 460-107324/26
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/28/2012 2104
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 460-107324
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: VOAMS6
 Lab File ID: f86819.d
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Chloromethane	1.0	U	0.10	1.0
Bromomethane	1.0	U	0.18	1.0
Vinyl chloride	1.0	U	0.14	1.0
Chloroethane	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.18	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
1,1-Dichloroethene	1.0	U	0.090	1.0
1,1-Dichloroethane	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.13	1.0
cis-1,2-Dichloroethene	1.0	U	0.18	1.0
Chloroform	1.0	U	0.080	1.0
1,2-Dichloroethane	1.0	U	0.19	1.0
1,1,1-Trichloroethane	1.0	U	0.060	1.0
Carbon tetrachloride	1.0	U	0.060	1.0
Bromodichloromethane	1.0	U	0.12	1.0
1,2-Dichloropropane	1.0	U	0.090	1.0
cis-1,3-Dichloropropene	1.0	U	0.18	1.0
Trichloroethene	1.0	U	0.090	1.0
Dibromochloromethane	1.0	U	0.20	1.0
1,1,2-Trichloroethane	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.24	1.0
2-Chloroethyl vinyl ether	1.0	U	0.34	1.0
Bromoform	1.0	U	0.19	1.0
Tetrachloroethene	1.0	U	0.10	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.16	1.0
Chlorobenzene	1.0	U	0.11	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.21	1.0
Dichlorodifluoromethane	1.0	U	0.22	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	70 - 130
Toluene-d8 (Surr)	98	70 - 130
4-Bromofluorobenzene	101	70 - 130

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-38301-1

Lab Control Sample - Batch: 460-107324

Method: 624

Preparation: N/A

Lab Sample ID: LCS 460-107324/25	Analysis Batch: 460-107324	Instrument ID: VOAMS6
Client Matrix: Water	Prep Batch: N/A	Lab File ID: f86815.d
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 03/28/2012 1938	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: N/A		
Leach Date: N/A		

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloromethane	20.0	22.0	110	0 - 273	
Bromomethane	20.0	19.9	99	0 - 242	
Vinyl chloride	20.0	20.6	103	0 - 251	
Chloroethane	20.0	21.7	109	14 - 230	
Methylene Chloride	20.0	20.5	103	0 - 221	
Trichlorofluoromethane	20.0	22.4	112	17 - 181	
1,1-Dichloroethene	20.0	20.8	104	0 - 234	
1,1-Dichloroethane	20.0	20.9	104	59 - 155	
trans-1,2-Dichloroethene	20.0	21.5	108	54 - 156	
cis-1,2-Dichloroethene	20.0	21.7	109	80 - 120	
Chloroform	20.0	22.2	111	51 - 138	
1,2-Dichloroethane	20.0	22.5	112	49 - 155	
1,1,1-Trichloroethane	20.0	21.8	109	52 - 162	
Carbon tetrachloride	20.0	22.6	113	70 - 140	
Bromodichloromethane	20.0	20.9	105	35 - 155	
1,2-Dichloropropane	20.0	20.1	101	0 - 210	
cis-1,3-Dichloropropene	20.0	18.6	93	0 - 227	
Trichloroethene	20.0	23.3	117	71 - 157	
Dibromochloromethane	20.0	21.1	105	53 - 149	
1,1,2-Trichloroethane	20.0	20.0	100	52 - 150	
trans-1,3-Dichloropropene	20.0	18.5	93	17 - 183	
2-Chloroethyl vinyl ether	20.0	18.7	94	0 - 305	
Bromoform	20.0	20.8	104	45 - 169	
Tetrachloroethene	20.0	23.5	117	64 - 148	
1,1,2,2-Tetrachloroethane	20.0	17.3	87	46 - 157	
Chlorobenzene	20.0	20.9	104	37 - 160	
1,3-Dichlorobenzene	20.0	21.3	106	59 - 156	
1,4-Dichlorobenzene	20.0	21.0	105	18 - 190	
1,2-Dichlorobenzene	20.0	21.6	108	18 - 190	
Dichlorodifluoromethane	20.0	21.8	109	46 - 145	
Surrogate		% Rec		Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)		99		70 - 130	
Toluene-d8 (Surr)		99		70 - 130	
4-Bromofluorobenzene		100		70 - 130	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-38301-1

Method Blank - Batch: 460-109592

Lab Sample ID: MB 460-109592/1-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 04/18/2012 1908
 Prep Date: 04/17/2012 0757
 Leach Date: N/A

Analysis Batch: 460-109848
 Prep Batch: 460-109592
 Leach Batch: N/A
 Units: ug/L

**Method: 6010B
 Preparation: 3010A**

Instrument ID: ICP4
 Lab File ID: 04182012A.asc
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Iron	150	U	73.6	150
Manganese	15.0	U	4.3	15.0

Lab Control Sample - Batch: 460-109592

Lab Sample ID: LCS 460-109592/2-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 04/18/2012 1858
 Prep Date: 04/17/2012 0757
 Leach Date: N/A

Analysis Batch: 460-109848
 Prep Batch: 460-109592
 Leach Batch: N/A
 Units: ug/L

**Method: 6010B
 Preparation: 3010A**

Instrument ID: ICP4
 Lab File ID: 04182012A.asc
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1000	1030	103	80 - 120	
Manganese	500	519.4	104	80 - 120	

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 460-38301-1

Login Number: 38301
List Number: 1
Creator: McClain, Mark A

List Source: TestAmerica Edison

Question	Answer	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.	N/A	Not present
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	4.4C IR# 50
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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	
Sample Preservation Verified.	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	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.