

Ms. Stephanie Andrews
Indiana Department of Environmental Management
Office of Land Quality
100 North Senate Avenue, IGCN-Suite 1101
Indianapolis, IN 46204-2251

Arcadis U.S., Inc.
132 E. Washington Street
Suite 600
Indianapolis
Indiana 46204
Tel 317 231 6500
Fax 317 231 6514
www.arcadis.com

Subject:

November 2016 Discharge Report, Lakeland Disposal Landfill, Claypool, Indiana

ENVIRONMENT

Dear Ms. Andrews:

Date:

December 14, 2016

On behalf of the Lakeland Disposal Respondents (Respondents), Arcadis respectfully submits this report for the treatment and discharge of groundwater during November 2016. Discharge under NPDES Permit Discharge Standards was authorized by the Indiana Department of Environmental Management (IDEM) in letters dated August 9th, 2000 and March 28th, 2001.

Contact:

Jon Akin

Phone:

317-236-2819

Sampling was conducted November 7th and 8th, 2016. Groundwater samples were collected (sample identified as EF-1116) after treatment with the air stripper and activated carbon vessel located in the treatment system building. The samples were submitted to Test America – University Park, Illinois for analysis as required by the discharge authorization.

Email:

Jon.Akin@arcadis.com

The 24-hour flow proportioned composite metals sample was prepared using approximate equal volumetric portions from three grab samples collected between 11:00 AM on November 7th and 11:00 AM on November 8th, 2016.

Our ref:

IN000775.0009.00001

The attached table details the quantity of water processed by the treatment system during November 2016 and a summary of sample analytical results from Test America.

The treatment system was operational during the month of November with the following exception. The system was shut down October 28th to November 7th to facilitate the granular activated carbon change out activities. The activated carbon was replaced on November 4th and the carbon vessel hydrated over the weekend. The treatment system was returned to operation on November 7th.

Ms. Stephanie Andrews
December 14, 2016

If you have any questions regarding these matters, please contact us at (317) 231-6500.

Sincerely,

Arcadis U.S., Inc.

Handwritten signature of Tom Kolb in blue ink.

Tom Kolb, L.P.G.
Staff Geologist

Handwritten signature of Jon Akin in blue ink.

Jon Akin, P.E.
Senior Engineer

Copies:

Scott Hansen - USEPA

Bill Schikora – Dykema Gossett

Lakeland Disposal Landfill

MONTHLY REPORT FOR TREATED WATER DISCHARGE STANDARDS

Lakeland Disposal Respondents
5854 S 450 W
Claypool, Indiana 46510

Month/Fac. #
Nov-16
001

Date	Units	pH		Flow	Benzene	Trichloroethene	cis-1,2 Dichloroethene	Cadmium	Copper	Iron	Lead	Nickel	Zinc	Cyanide
		Monthly Average	Daily Maximum											
1				N/A	Report	Report	Report	0.002	0.02	1.7	0.009	0.07	0.28	0.004
2				N/A	0.005	0.005	0.07	0.004	0.05	4	0.02	0.16	0.61	0.008
3					Grab	Grab	Grab	24 Hr Flow Composite						
4				24-hr Total	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly
5				MGD	mg/l	mg/l	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
6				0.0000										
7				0.0000										
8				0.0135	6.90	6.90	<0.005	0.00051	0.0033	<0.10	<0.0025	0.0032	<0.010	<0.010
9				0.0032										
10				0.0032										
11				0.0032										
12				0.0032										
13				0.0032										
14				0.0032										
15				0.0052										
16				0.0052										
17				0.0052										
18				0.0052										
19				0.0052										
20				0.0052										
21				0.0052										
22				0.0052										
23				0.0052										
24				0.0052										
25				0.0052										
26				0.0052										
27				0.0052										
28				0.0052										
29				0.0052										
30				0.0052										
		Monthly Average Values	6.90	6.90	0.004292	<0.001	<0.005	0.00051	0.0033	<0.10	<0.0025	0.0032	<0.10	<0.010
		Monthly Maximum Values	6.90	6.90	<0.001	<0.005	<0.005	0.00051	0.0033	<0.10	<0.0025	0.0032	<0.10	<0.010
		Number of Exceedances	0	0	0	0	0	0	0	0	0	0	0	0
		Monthly Flow Total (MG)			-			0.128751						

Cyanide was not exhibited between the 0.0036 mg/L laboratory method detection limit and the 0.010 mg/L reporting limit.

Signature of Certified Operator: 

Telephone Number: (317) 231-6500

Certification Number: 17222

Date Submitted: 17/14/2014

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-119835-1
Client Project/Site: Lakeland Disposal

For:
ARCADIS U.S., Inc.
132 East Washington St
Suite 600
Indianapolis, Indiana 46204

Attn: Jon Akin



Authorized for release by:
11/17/2016 9:09:38 AM

Robin Kintz, Project Manager II
(708)534-5200

robin.kintz@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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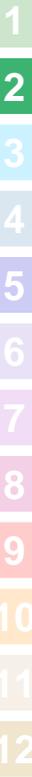


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Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Lakeland Disposal

TestAmerica Job ID: 500-119835-1

Job ID: 500-119835-1

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-119835-1**

Comments

No additional comments.

Receipt

The sample was received on 11/9/2016 10:25 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was -0.3° C.

GC/MS VOA

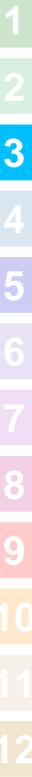
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Lakeland Disposal

TestAmerica Job ID: 500-119835-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL CHI
200.7 Rev 4.4	Metals (ICP)	EPA	TAL CHI
SM 4500 CN E	Cyanide, Total	SM	TAL CHI

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Lakeland Disposal

TestAmerica Job ID: 500-119835-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-119835-1	EF-1116	Water	11/08/16 11:00	11/09/16 10:25

1

2

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4

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12

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Lakeland Disposal

TestAmerica Job ID: 500-119835-1

Client Sample ID: EF-1116

Date Collected: 11/08/16 11:00

Date Received: 11/09/16 10:25

Lab Sample ID: 500-119835-1

Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	0.15	ug/L			11/11/16 14:57	1
cis-1,2-Dichloroethene	<5.0		5.0	0.41	ug/L			11/11/16 14:57	1
Trichloroethene	<5.0		5.0	0.16	ug/L			11/11/16 14:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		71 - 120					11/11/16 14:57	1
1,2-Dichloroethane-d4 (Surr)	100		71 - 127					11/11/16 14:57	1
Toluene-d8 (Surr)	95		75 - 120					11/11/16 14:57	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.00051	J	0.0010	0.00027	mg/L		11/09/16 14:35	11/11/16 01:51	1
Copper	0.0033	J	0.0050	0.0015	mg/L		11/09/16 14:35	11/11/16 01:51	1
Iron	<0.10		0.10	0.068	mg/L		11/09/16 14:35	11/11/16 01:51	1
Lead	<0.0025		0.0025	0.0013	mg/L		11/09/16 14:35	11/11/16 01:51	1
Nickel	0.0032	J	0.0050	0.0013	mg/L		11/09/16 14:35	11/11/16 01:51	1
Zinc	<0.010		0.010	0.0076	mg/L		11/09/16 14:35	11/11/16 01:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010	0.0036	mg/L		11/15/16 14:25	11/15/16 17:54	1

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Lakeland Disposal

TestAmerica Job ID: 500-119835-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Lakeland Disposal

TestAmerica Job ID: 500-119835-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-360341/7
Matrix: Water
Analysis Batch: 360341

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	0.15	ug/L			11/11/16 10:29	1
cis-1,2-Dichloroethene	<5.0		5.0	0.41	ug/L			11/11/16 10:29	1
Trichloroethene	<5.0		5.0	0.16	ug/L			11/11/16 10:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		71 - 120		11/11/16 10:29	1
1,2-Dichloroethane-d4 (Surr)	98		71 - 127		11/11/16 10:29	1
Toluene-d8 (Surr)	94		75 - 120		11/11/16 10:29	1

Lab Sample ID: LCS 500-360341/5
Matrix: Water
Analysis Batch: 360341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	42.0		ug/L		84	37 - 151
Trichloroethene	50.0	48.6		ug/L		97	71 - 157

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		71 - 120
1,2-Dichloroethane-d4 (Surr)	97		71 - 127
Toluene-d8 (Surr)	96		75 - 120

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-360037/1-A
Matrix: Water
Analysis Batch: 360400

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 360037

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0010		0.0010	0.00027	mg/L		11/09/16 14:35	11/11/16 01:16	1
Copper	<0.0050		0.0050	0.0015	mg/L		11/09/16 14:35	11/11/16 01:16	1
Iron	<0.10		0.10	0.068	mg/L		11/09/16 14:35	11/11/16 01:16	1
Lead	<0.0025		0.0025	0.0013	mg/L		11/09/16 14:35	11/11/16 01:16	1
Nickel	<0.0050		0.0050	0.0013	mg/L		11/09/16 14:35	11/11/16 01:16	1
Zinc	<0.010		0.010	0.0076	mg/L		11/09/16 14:35	11/11/16 01:16	1

Lab Sample ID: LCS 500-360037/2-A
Matrix: Water
Analysis Batch: 360400

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 360037

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.0250	0.0232		mg/L		93	85 - 115
Copper	0.125	0.117		mg/L		94	85 - 115
Iron	0.500	0.527		mg/L		105	85 - 115
Lead	0.0500	0.0487		mg/L		97	85 - 115
Nickel	0.250	0.237		mg/L		95	85 - 115
Zinc	0.250	0.240		mg/L		96	85 - 115

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Lakeland Disposal

TestAmerica Job ID: 500-119835-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 500-119835-1 MS
Matrix: Water
Analysis Batch: 360400

Client Sample ID: EF-1116
Prep Type: Total Recoverable
Prep Batch: 360037

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Cadmium	0.00051	J	0.0250	0.0238		mg/L		93	70 - 130
Copper	0.0033	J	0.125	0.122		mg/L		95	70 - 130
Iron	<0.10		0.500	0.550		mg/L		110	70 - 130
Lead	<0.0025		0.0500	0.0486		mg/L		97	70 - 130
Nickel	0.0032	J	0.250	0.246		mg/L		97	70 - 130
Zinc	<0.010		0.250	0.257		mg/L		103	70 - 130

Lab Sample ID: 500-119835-1 DU
Matrix: Water
Analysis Batch: 360400

Client Sample ID: EF-1116
Prep Type: Total Recoverable
Prep Batch: 360037

Analyte	Sample	Sample	DU DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Cadmium	0.00051	J	0.000436	J	mg/L		16	20
Copper	0.0033	J	0.00315	J	mg/L		5	20
Iron	<0.10		<0.10		mg/L		NC	20
Lead	<0.0025		<0.0025		mg/L		NC	20
Nickel	0.0032	J	0.00286	J	mg/L		10	20
Zinc	<0.010		<0.010		mg/L		NC	20

Method: SM 4500 CN E - Cyanide, Total

Lab Sample ID: MB 500-360893/1-A
Matrix: Water
Analysis Batch: 361131

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 360893

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cyanide, Total	<0.010		0.010	0.0036	mg/L		11/15/16 14:25	11/15/16 17:50	1

Lab Sample ID: LCS 500-360893/2-A
Matrix: Water
Analysis Batch: 361131

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 360893

Analyte	Spike	LCS LCS		Unit	D	%Rec	Limits
		Added	Result				
Cyanide, Total	0.100	0.0943		mg/L		94	80 - 120

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Lakeland Disposal

TestAmerica Job ID: 500-119835-1

Client Sample ID: EF-1116

Date Collected: 11/08/16 11:00

Date Received: 11/09/16 10:25

Lab Sample ID: 500-119835-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	360341	11/11/16 14:57	PMF	TAL CHI
Total Recoverable	Prep	200.7			360037	11/09/16 14:35	JNH	TAL CHI
Total Recoverable	Analysis	200.7 Rev 4.4		1	360400	11/11/16 01:51	KML	TAL CHI
Total/NA	Prep	Distill/CN			360893	11/15/16 14:25	VIP	TAL CHI
Total/NA	Analysis	SM 4500 CN E		1	361131		VIP	TAL CHI
					(Start)	11/15/16 17:54		
					(End)	11/15/16 17:54		

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: ARCADIS U.S., Inc.
 Project/Site: Lakeland Disposal

TestAmerica Job ID: 500-119835-1

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2903	04-30-18
Georgia	State Program	4	N/A	04-30-17
Georgia	State Program	4	939	04-30-17
Hawaii	State Program	9	N/A	04-30-17
Illinois	NELAP	5	100201	04-30-17
Indiana	State Program	5	C-IL-02	04-30-17
Iowa	State Program	7	82	05-01-18
Kansas	NELAP	7	E-10161	10-31-17
Kentucky (UST)	State Program	4	66	04-30-17
Kentucky (WW)	State Program	4	KY90023	12-31-16 *
Mississippi	State Program	4	N/A	04-30-17
New York	NELAP	2	12019	04-01-17
North Carolina (WW/SW)	State Program	4	291	12-31-16 *
North Dakota	State Program	8	R-194	04-30-17
Oklahoma	State Program	6	8908	08-31-17
South Carolina	State Program	4	77001	04-30-17
USDA	Federal		P330-15-00038	02-11-18
Wisconsin	State Program	5	999580010	08-31-17
Wyoming	State Program	8	8TMS-Q	04-30-17

* Certification renewal pending - certification considered valid.



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: Jon Akin
 Company: Arcadis
 Address: 132 E. Washington St. # 600
Indpls, IN 46204
 Phone: 317-231-6500
 Fax: X6514
 E-Mail: Jon.Akin@Arcadis.com

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# 500-119835.COC

Chain of Custody Record

Lab Job #: 500-119835
 Chain of Custody Number: _____
 Page 1 of 1
 Temperature °C of Cooler: -0.3



Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Arcadis		IND00775.0009.0001		HCl HNO3 NaOH						
Project Name		Lab Project #		Benzene TCE CIS-1,2 PCE		624		Cyanide		
Lakeland Disposal				CALCIUM, Pb, Ni, Zn		100.7		335.2		
Project Location/State		Lab Project #		# of Containers		Matrix				Comments
Claypool, IN				5		W				
Sampler		Lab PM		Date		Time				
Chad Butrum		Bonnie Stadelmann		11/8/16		11:00				
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix				
1		EF-1116			5	W				

Turnaround Time Required (Business Days)

Requested Due Date: 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u> Company: <u>Arcadis</u> Date: <u>11/8/16</u> Time: <u>17:00</u>	Received By: <u>[Signature]</u> Company: <u>FedEx</u> Date: <u>11/8/16</u> Time: <u>17:00</u>	Lab Courier: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>11/09/16</u> Time: <u>1025</u>	Shipped: <input checked="" type="checkbox"/>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments: _____

Lab Comments: _____



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-119835-1

Login Number: 119835

List Source: TestAmerica Chicago

List Number: 1

Creator: Kelsey, Shawn M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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	-0.3c
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 containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

