

ANALYTICAL REPORT

Job Number: 640-27475-1

Job Description: TA98/SIS Acreage

For:

DEP-Chemistry Section
2600 Blairstone Road
Tallahassee, FL 32399-2400
Attention: Ms. Kate Brackett



Approved for release.
Laura B Snead
Project Manager II
5/12/2010 9:38 AM

Laura B Snead
Project Manager II
laura.snead@testamericainc.com
05/12/2010

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report.

Measurement uncertainty data, as referenced in Section 20.12 of the TestAmerica Tallahassee Quality Assurance Manual, are available upon request

TestAmerica Tallahassee Florida Department of Health Certification No.: E81005
TestAmerica Savannah Florida Department of Health Certification No.: E87052

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

General Chemistry

Method 314.0: Project samples were analyzed at 4X dilutions due to the Matrix Conductivity Threshold of the instrument. The detection limits have been adjusted accordingly.

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: DEP-Chemistry Section

Job Number: 640-27475-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
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No Detections

METHOD SUMMARY

Client: DEP-Chemistry Section

Job Number: 640-27475-1

Description		Lab Location	Method	Preparation Method
Matrix	Water			
Perchlorate (IC)		TAL SAV	EPA 314.0	

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

EPA = US Environmental Protection Agency

METHOD / ANALYST SUMMARY

Client: DEP-Chemistry Section

Job Number: 640-27475-1

Method	Analyst	Analyst ID
EPA 314.0	Brazell, Connie	CB

SAMPLE SUMMARY

Client: DEP-Chemistry Section

Job Number: 640-27475-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
640-27475-1	1266643	Water	04/26/2010 1800	04/28/2010 1504
640-27475-1MS	1266643MS	Water	04/26/2010 1800	04/28/2010 1504
640-27475-1MSD	1266643MSD	Water	04/26/2010 1800	04/28/2010 1504
640-27475-2	1266644	Water	04/26/2010 1800	04/28/2010 1504
640-27475-3	1266645	Water	04/26/2010 1900	04/28/2010 1504

SAMPLE RESULTS

Analytical Data

Client: DEP-Chemistry Section

Job Number: 640-27475-1

Client Sample ID: 1266643

Lab Sample ID: 640-27475-1

Client Matrix: Water

Date Sampled: 04/26/2010 1800

Date Received: 04/28/2010 1504

314.0 Perchlorate (IC)

Method: 314.0

Analysis Batch: 680-167798

Instrument ID: ICH

Preparation: N/A

Lab File ID: 0017.d

Dilution: 4.0

Initial Weight/Volume:

Date Analyzed: 05/05/2010 1355

Final Weight/Volume: 5 mL

Date Prepared:

Injection Volume: 0.25 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Perchlorate	1.2	U	1.2	4.0

Analytical Data

Client: DEP-Chemistry Section

Job Number: 640-27475-1

Client Sample ID: 1266644

Lab Sample ID: 640-27475-2

Client Matrix: Water

Date Sampled: 04/26/2010 1800

Date Received: 04/28/2010 1504

314.0 Perchlorate (IC)

Method: 314.0

Analysis Batch: 680-167798

Instrument ID: ICH

Preparation: N/A

Lab File ID: 0020.d

Dilution: 4.0

Initial Weight/Volume:

Date Analyzed: 05/05/2010 1440

Final Weight/Volume: 5 mL

Date Prepared:

Injection Volume: 0.25 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Perchlorate	1.2	U	1.2	4.0

Analytical Data

Client: DEP-Chemistry Section

Job Number: 640-27475-1

Client Sample ID: 1266645

Lab Sample ID: 640-27475-3

Client Matrix: Water

Date Sampled: 04/26/2010 1900

Date Received: 04/28/2010 1504

314.0 Perchlorate (IC)

Method: 314.0

Analysis Batch: 680-167798

Instrument ID: ICH

Preparation: N/A

Lab File ID: 0021.d

Dilution: 4.0

Initial Weight/Volume:

Date Analyzed: 05/05/2010 1455

Final Weight/Volume: 5 mL

Date Prepared:

Injection Volume: 0.25 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Perchlorate	1.2	U	1.2	4.0

DATA REPORTING QUALIFIERS

Client: DEP-Chemistry Section

Job Number: 640-27475-1

Lab Section	Qualifier	Description
HPLC/IC	U	Indicates that the compound was analyzed for but not detected.

QUALITY CONTROL RESULTS

Quality Control Results

Client: DEP-Chemistry Section

Job Number: 640-27475-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Analysis Batch:680-167798					
LCS 680-167798/3	Lab Control Sample	T	Water	314.0	
LCSD 680-167798/4	Lab Control Sample Duplicate	T	Water	314.0	
MB 680-167798/2	Method Blank	T	Water	314.0	
640-27475-1	1266643	T	Water	314.0	
640-27475-1MS	Matrix Spike	T	Water	314.0	
640-27475-1MSD	Matrix Spike Duplicate	T	Water	314.0	
640-27475-2	1266644	T	Water	314.0	
640-27475-3	1266645	T	Water	314.0	

Report Basis

T = Total

Quality Control Results

Client: DEP-Chemistry Section

Job Number: 640-27475-1

Method Blank - Batch: 680-167798

Lab Sample ID: MB 680-167798/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/05/2010 1049
Date Prepared: N/A

Analysis Batch: 680-167798
Prep Batch: N/A
Units: ug/L

Method: 314.0 Preparation: N/A

Instrument ID: ICH
Lab File ID: 0005.d
Initial Weight/Volume:
Final Weight/Volume: 5 mL
Injection Volume: 0.25 uL

Analyte	Result	Qual	MDL	PQL
Perchlorate	0.30	U	0.30	1.0

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 680-167798

Method: 314.0 Preparation: N/A

LCS Lab Sample ID: LCS 680-167798/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/05/2010 1104
Date Prepared: N/A

Analysis Batch: 680-167798
Prep Batch: N/A
Units: ug/L

Instrument ID: ICH
Lab File ID: 0006.d
Initial Weight/Volume:
Final Weight/Volume: 5 mL
Injection Volume: 0.25 uL

LCSD Lab Sample ID: LCSD 680-167798/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/05/2010 1119
Date Prepared: N/A

Analysis Batch: 680-167798
Prep Batch: N/A
Units: ug/L

Instrument ID: ICH
Lab File ID: 0007.d
Initial Weight/Volume:
Final Weight/Volume: 5 mL
Injection Volume: 0.25 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Perchlorate	94	94	85 - 115	0	15		

Quality Control Results

Client: DEP-Chemistry Section

Job Number: 640-27475-1

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 680-167798

Method: 314.0
Preparation: N/A

LCS Lab Sample ID: LCS 680-167798/3 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/05/2010 1104
Date Prepared: N/A

LCSD Lab Sample ID: LCSD 680-167798/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/05/2010 1119
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Perchlorate	10.0	10.0	9.37	9.39

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 680-167798

Method: 314.0
Preparation: N/A

MS Lab Sample ID: 640-27475-1
Client Matrix: Water
Dilution: 4.0
Date Analyzed: 05/05/2010 1410
Date Prepared: N/A

Analysis Batch: 680-167798
Prep Batch: N/A

Instrument ID: ICH
Lab File ID: 0018.d
Initial Weight/Volume:
Final Weight/Volume: 5 mL
Injection Volume: 0.25 uL

MSD Lab Sample ID: 640-27475-1
Client Matrix: Water
Dilution: 4.0
Date Analyzed: 05/05/2010 1425
Date Prepared: N/A

Analysis Batch: 680-167798
Prep Batch: N/A

Instrument ID: ICH
Lab File ID: 0019.d
Initial Weight/Volume:
Final Weight/Volume: 5 mL
Injection Volume: 0.25 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Perchlorate	96	92	80 - 120	5	15		

Quality Control Results

Client: DEP-Chemistry Section

Job Number: 640-27475-1

**Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-167798**

**Method: 314.0
Preparation: N/A**

MS Lab Sample ID: 640-27475-1
Client Matrix: Water
Dilution: 4.0
Date Analyzed: 05/05/2010 1410
Date Prepared: N/A

Units: ug/L

MSD Lab Sample ID: 640-27475-1
Client Matrix: Water
Dilution: 4.0
Date Analyzed: 05/05/2010 1425
Date Prepared: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Perchlorate	1.2	U	40.0	40.0	38.5	36.8

Quality Control Results

Client: DEP-Chemistry Section

Job Number: 640-27475-1

Laboratory Chronicle

Lab ID: 640-27475-1

Client ID: 1266643

Sample Date/Time: 04/26/2010 18:00 Received Date/Time: 04/28/2010 15:04

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:314.0	640-27475-A-1		680-167798		05/05/2010 13:55	4	TAL SAV	CB

Lab ID: 640-27475-1

Client ID: 1266643

Sample Date/Time: 04/26/2010 18:00 Received Date/Time: 04/28/2010 15:04

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:314.0	640-27475-A-1 MS		680-167798		05/05/2010 14:10	4	TAL SAV	CB

Lab ID: 640-27475-1

Client ID: 1266643

Sample Date/Time: 04/26/2010 18:00 Received Date/Time: 04/28/2010 15:04

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:314.0	640-27475-A-1 MSD		680-167798		05/05/2010 14:25	4	TAL SAV	CB

Lab ID: 640-27475-2

Client ID: 1266644

Sample Date/Time: 04/26/2010 18:00 Received Date/Time: 04/28/2010 15:04

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:314.0	640-27475-A-2		680-167798		05/05/2010 14:40	4	TAL SAV	CB

Lab ID: 640-27475-3

Client ID: 1266645

Sample Date/Time: 04/26/2010 19:00 Received Date/Time: 04/28/2010 15:04

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:314.0	640-27475-A-3		680-167798		05/05/2010 14:55	4	TAL SAV	CB

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:314.0	MB 680-167798/2		680-167798		05/05/2010 10:49	1	TAL SAV	CB

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:314.0	LCS 680-167798/3		680-167798		05/05/2010 11:04	1	TAL SAV	CB

Quality Control Results

Client: DEP-Chemistry Section

Job Number: 640-27475-1

Laboratory Chronicle

Lab ID: LCSD

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:314.0	LCSD 680-167798/4		680-167798		05/05/2010 11:19	1	TAL SAV	CB

Lab References:

TAL SAV = TestAmerica Savannah

515-2010-04-27-01

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
TASK ASSIGNMENT/NOTIFICATION FORM: DEP Contract: LAB 028

DEP Project Manager: Kate Brackett

(850) 245-8095

640-27475

Contractor: TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301

(850) 878-3994

NELAC Certification #: E81005

State Approval By: [Signature]
Project Manager

Contractor Approval By: [Signature]
Project Manager

Contractor Representative Contacted: Laura Sneed

Date: 4/28/10

Means of Contact: phone

Task Assignment Number: SA 98 Maximum Cost: \$210.00

Turnaround Time: 2 weeks if possible (within 21 days of receipt at Savannah)

Sample Delivery Date: 4/28/10

Project Name/Description: (include purpose, location, etc.) SIS Army

Parameter Group/ Method	Sample Matrix	# of Samples	Analyte/Method in Contract (Y/N)	DEP ID #	Unit Cost	%mark-up (if any)	Cost
<u>Perchlorate</u>	<u>Water</u>	<u>3</u>	<u>N</u> <u>See</u> <u>Notes</u>	<u>1266643-645</u>	<u>\$70.00</u>		<u>\$210.00</u>

Total: \$210.00

Total No. of Containers: 3

QC Instructions: Run duplicate matrix spikes in 1266643 if
sufficient volume, or another DEP sample if insufficient volume.

Samples released to Contract Lab by: Frank Rush

Date/Time 4-28-10, 15:04

Delivery Method: HAND

Samples Accepted by: [Signature]

4-28-10 1504

* Please sign and return by FAX at (850) 245-8218

4.1

Login Sample Receipt Check List

Client: DEP-Chemistry Section

Job Number: 640-27475-1

Login Number: 27475

Creator: Alsheimer, Carl

List Number: 1

List Source: TestAmerica Tallahassee

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	

Login Sample Receipt Check List

Client: DEP-Chemistry Section

Job Number: 640-27475-1

Login Number: 27475

Creator: Kicklighter, Marilyn

List Number: 1

List Source: TestAmerica Savannah

List Creation: 04/29/10 02:55 PM

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?	False	
Sample Preservation Verified	True	