NELAP CERTIFICATE NUMBER: 01955
DOD ELAP CERTIFICATE NUMBER: L14-243

ANALYTICAL RESULTS

PERFORMED BY

GCAL, LLC
7979 Innovation Park Dr.
Baton Rouge, LA 70820

Report Date 06/26/2017

GCAL Report 217061457

Project LOOP

Deliver To	*Additional Recipients*
David Hawley CK ASSOCIATES 17170 Perkins Rd Baton Rouge, LA 70810 2257551000	NONE

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or ot her recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations that may be Utilized in this Report

ND	Indicates the result was Not Detected at the specified reporting limit
NO	Indicates the sample did not ignite when preliminary test performed for EPA Method 1030
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
DL	Detection Limit
DL	Diluted analysis – when appended to Client Sample ID
LOD	Limit of Detection
LOQ	Limit of Quantitation
RE	Re-analysis
CF	HPLC or GC Confirmation
00:01	Reported as a time equivalent to 12:00 AM

Reporting Flags that may be Utilized in this Report

J or I	Indicates the result is between the MDL and LOQ
J	DOD flag on analyte in the parent sample for MS/MSD outside a cceptance criteria
U	Indicates the compound was analyzed for but not detected
B or V	Indicates the analyte was detected in the associated Method Blank
Q	Indicates a non-compliant QC Result (See Q Flag Application Report)
*	Indicates a non-compliant or not applicable QC recovery or RPD – see narrative
E	The result is estimated because it exceeded the instrument calibration range
E	Metals - % diference for the serial dilution is > 10%
P	RPD between primary and confirmation result is greater than 40

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduce d only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reporte d. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record the reof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with The NELAC Institute (TNI) Standard 2009 and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer readable data submitted has been authorized by the Quality Assurance Manager or h is/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Authorized Signature
GCAL Report 217061457

Certifications

Certification	Certification Number
DOD ELAP	L14-243
Alabama	01955
Arkansas	12-060-0
Colorado	01955
Delaware	01955
Florida	E87854
Georgia	01955
Hawaii	01955
Idaho	01955
Illinois	200048
Indiana	01955
Kansas	E-10354
Kentucky	95
Louisiana	01955
Maryland	01955
Massachusetts	01955
Michigan	01955
Mississippi	01955
Missouri	01955
Montana	N/A
Nebraska	01955
New Mexico	01955
North Carolina	618
North Dakota	R-195
Oklahoma	9403
South Carolina	73006001
South Dakota	01955
Tennessee	01955
Texas	T104704178
Vermont	01955
Virginia	460215
USDA Soil Permit	P330-10-00117

Case Narrative

Client: C-K Associates **Report:** 217061457

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the Report Sample Summary page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

COC ANOMALIES

David Hawley added Chloride analysis to all samples in workorder. (Amanda Cobb 06/15/2017 08:41)

METALS

In the EPA 6020A analysis, a chemical or physical interference necessitated a dilution for all samples. This is reflected in elevated detection limits. Additional dilutions were required to bracket the concentration of target analytes within the calibration range of the instrument.

GENERAL CHEMISTRY

In the EPA 300.0, Rev 2.1 analysis, all samples had to be diluted to eliminate background interference. This is reflected in the elevated reporting limit. Additional dilutions were required to bracket the concentration of target analytes within the calibration range of the instrument.

Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21706145701	1706 1303 2.42	Water	06/13/2017 12:30	06/14/2017 16:45
21706145702	1706 1303 3.22	Water	06/13/2017 12:30	06/14/2017 16:45
21706145703	1706 1303 4.29	Water	06/13/2017 12:30	06/14/2017 16:45
21706145704	1706 1303 5.72	Water	06/13/2017 12:30	06/14/2017 16:45
21706145705	1706 1303 7.63	Water	06/13/2017 12:30	06/14/2017 16:45

Summary of Compounds Detected

1706 1303 2.42

Collect Date 06/13/2017 12:30 **GCAL ID** 21706145701
Receive Date 06/14/2017 16:45 **Matrix** Water

EPA 6020A

CAS#	Parameter	Result	LOQ	Units
7440-70-2	Calcium	393000	50000	ug/L
7439-95-4	Magnesium	1200000	500000	ug/L
7440-09-7	Potassium	372000	10000	ug/L
7440-23-5	Sodium	11000000	500000	ug/L

EPA 300.0, Rev 2.1

CAS#	Parameter	Result	LOQ	Units
24959-67-9	Bromide	82.0	20.0	mg/L
16887-00-6	Chloride	18900	1000	mg/L
14808-79-8	Sulfate	2990	1000	mg/L

SM 2320 B-2011

CAS#	Parameter	Result	LOQ	Units
T-005-B	Bicarbonate Alkalinity	143	1.0	mg/L CaCO3

1706 1303 3.22

Collect Date 06/13/2017 12:30 **GCAL ID** 21706145702
Receive Date 06/14/2017 16:45 **Matrix** Water

EPA 6020A

CAS#	Parameter	Result	LOQ	Units
7440-70-2	Calcium	419000	50000	ug/L
7439-95-4	Magnesium	1280000	500000	ug/L
7440-09-7	Potassium	387000	10000	ug/L
7440-23-5	Sodium	11200000	500000	ug/L

EPA 300.0, Rev 2.1

CAS#	Parameter	Result	LOQ	Units
24959-67-9	Bromide	79.2	20.0	mg/L
16887-00-6	Chloride	19000	1000	mg/L

Summary of Compounds Detected

1706 1303 3.22

Collect Date 06/13/2017 12:30 **GCAL ID** 21706145702
Receive Date 06/14/2017 16:45 **Matrix** Water

EPA 300.0, Rev 2.1 (Continued)

CAS#	Parameter	Result	LOQ	Units
14808-79-8	Sulfate	2920	1000	mg/L

SM 2320 B-2011

CAS#	Parameter	Result	LOQ	Units
T-005-B	Bicarbonate Alkalinity	132	1.0	mg/L CaCO3

1706 1303 4.29

Collect Date 06/13/2017 12:30 **GCAL ID** 21706145703
Receive Date 06/14/2017 16:45 **Matrix** Water

EPA 6020A

CAS#	Parameter	Result	LOQ	Units
7440-70-2	Calcium	428000	50000	ug/L
7439-95-4	Magnesium	1260000	500000	ug/L
7440-09-7	Potassium	382000	10000	ug/L
7440-23-5	Sodium	10400000	500000	ug/L

EPA 300.0, Rev 2.1

CAS#	Parameter	Result	LOQ	Units
24959-67-9	Bromide	76.0	20.0	mg/L
16887-00-6	Chloride	19900	1000	mg/L
14808-79-8	Sulfate	2930	1000	mg/L

SM 2320 B-2011

CAS#	Parameter	Result	LOQ	Units
T-005-B	Bicarbonate Alkalinity	125	1.0	mg/L CaCO3

Summary of Compounds Detected

1706 1303 5.72

Collect Date	06/13/2017 12:30	**GCAL ID**	21706145704
Receive Date	06/14/2017 16:45	**Matrix**	Water

EPA 6020A

CAS#	Parameter	Result	LOQ	Units
7440-70-2	Calcium	406000	50000	ug/L
7439-95-4	Magnesium	1280000	500000	ug/L
7440-09-7	Potassium	383000	10000	ug/L
7440-23-5	Sodium	10200000	500000	ug/L

EPA 300.0, Rev 2.1

CAS#	Parameter	Result	LOQ	Units
24959-67-9	Bromide	73.1	20.0	mg/L
16887-00-6	Chloride	17800	1000	mg/L
14808-79-8	Sulfate	2580	1000	mg/L

SM 2320 B-2011

CAS#	Parameter	Result	LOQ	Units
T-005-B	Bicarbonate Alkalinity	114	1.0	mg/L CaCO3

1706 1303 7.63

Collect Date	06/13/2017 12:30	**GCAL ID**	21706145705
Receive Date	06/14/2017 16:45	**Matrix**	Water

EPA 6020A

CAS#	Parameter	Result	LOQ	Units
7440-70-2	Calcium	421000	50000	ug/L
7439-95-4	Magnesium	1430000	500000	ug/L
7440-09-7	Potassium	396000	10000	ug/L
7440-23-5	Sodium	10300000	500000	ug/L

EPA 300.0, Rev 2.1

CAS#	Parameter	Result	LOQ	Units
24959-67-9	Bromide	62.8	20.0	mg/L
16887-00-6	Chloride	17000	1000	mg/L
14808-79-8	Sulfate	2370	1000	mg/L

Summary of Compounds Detected

1706 1303 7.63	**Collect Date**	06/13/2017 12:30	**GCAL ID**	21706145705
	Receive Date	06/14/2017 16:45	**Matrix**	Water

SM 2320 B-2011

CAS#	Parameter	Result	LOQ	Units
T-005-B	Bicarbonate Alkalinity	99.0	1.0	mg/L CaCO3

Sample Results

1706 1303 2.42	**Collect Date**	06/13/2017 12:30	**GCAL ID**	21706145701
	Receive Date	06/14/2017 16:45	**Matrix**	Water

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
06/15/2017 13:30	612297	EPA 3010A	100	06/22/2017 21:42	JLN	612724

CAS#	Parameter	Result	LOQ	Units
7440-70-2	Calcium	393000	50000	ug/L
7440-09-7	Potassium	372000	10000	ug/L

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
06/15/2017 13:30	612297	EPA 3010A	5000	06/23/2017 15:41	AWG	612797

CAS#	Parameter	Result	LOQ	Units
7439-95-4	Magnesium	1200000	500000	ug/L
7440-23-5	Sodium	11000000	500000	ug/L

EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	100	06/20/2017 18:09	BSV	612434

CAS#	Parameter	Result	LOQ	Units
24959-67-9	Bromide	82.0	20.0	mg/L
16984-48-8	Fluoride	ND	20.0	mg/L

EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	5000	06/20/2017 18:27	BSV	612434

CAS#	Parameter	Result	LOQ	Units
16887-00-6	Chloride	18900	1000	mg/L
14808-79-8	Sulfate	2990	1000	mg/L

Sample Results

1706 1303 2.42	**Collect Date**	06/13/2017 12:30	**GCAL ID**	21706145701
	Receive Date	06/14/2017 16:45	**Matrix**	Water

SM 2320 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	06/16/2017 11:14	RYC	612402

CAS#	Parameter	Result	LOQ	Units
T-005-B	Bicarbonate Alkalinity	143	1.0	mg/L CaCO3

1706 1303 3.22	**Collect Date**	06/13/2017 12:30	**GCAL ID**	21706145702
	Receive Date	06/14/2017 16:45	**Matrix**	Water

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
06/15/2017 13:30	612297	EPA 3010A	100	06/22/2017 21:47	JLN	612724

CAS#	Parameter	Result	LOQ	Units
7440-70-2	Calcium	419000	50000	ug/L
7440-09-7	Potassium	387000	10000	ug/L

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
06/15/2017 13:30	612297	EPA 3010A	5000	06/23/2017 15:48	AWG	612797

CAS#	Parameter	Result	LOQ	Units
7439-95-4	Magnesium	1280000	500000	ug/L
7440-23-5	Sodium	11200000	500000	ug/L

EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	100	06/20/2017 18:44	BSV	612434

CAS#	Parameter	Result	LOQ	Units
24959-67-9	Bromide	79.2	20.0	mg/L
16984-48-8	Fluoride	ND	20.0	mg/L

Sample Results

1706 1303 3.22

Collect Date	06/13/2017 12:30	**GCAL ID**	21706145702
Receive Date	06/14/2017 16:45	**Matrix**	Water

EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	5000	06/20/2017 19:02	BSV	612434

CAS#	Parameter	Result	LOQ	Units
16887-00-6	Chloride	19000	1000	mg/L
14808-79-8	Sulfate	2920	1000	mg/L

SM 2320 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	06/16/2017 11:14	RYC	612402

CAS#	Parameter	Result	LOQ	Units
T-005-B	Bicarbonate Alkalinity	132	1.0	mg/L CaCO3

1706 1303 4.29

Collect Date	06/13/2017 12:30	**GCAL ID**	21706145703
Receive Date	06/14/2017 16:45	**Matrix**	Water

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
06/15/2017 13:30	612297	EPA 3010A	100	06/22/2017 21:52	JLN	612724

CAS#	Parameter	Result	LOQ	Units
7440-70-2	Calcium	428000	50000	ug/L
7440-09-7	Potassium	382000	10000	ug/L

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
06/15/2017 13:30	612297	EPA 3010A	5000	06/23/2017 15:55	AWG	612797

CAS#	Parameter	Result	LOQ	Units
7439-95-4	Magnesium	1260000	500000	ug/L
7440-23-5	Sodium	10400000	500000	ug/L

Sample Results

1706 1303 4.29

Collect Date	06/13/2017 12:30	**GCAL ID**	21706145703
Receive Date	06/14/2017 16:45	**Matrix**	Water

EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	100	06/20/2017 19:19	BSV	612434

CAS#	Parameter	Result	LOQ	Units
24959-67-9	Bromide	76.0	20.0	mg/L
16984-48-8	Fluoride	ND	20.0	mg/L

EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	5000	06/20/2017 19:36	BSV	612434

CAS#	Parameter	Result	LOQ	Units
16887-00-6	Chloride	19900	1000	mg/L
14808-79-8	Sulfate	2930	1000	mg/L

SM 2320 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	06/16/2017 11:14	RYC	612402

CAS#	Parameter	Result	LOQ	Units
T-005-B	Bicarbonate Alkalinity	125	1.0	mg/L CaCO3

1706 1303 5.72

Collect Date	06/13/2017 12:30	**GCAL ID**	21706145704
Receive Date	06/14/2017 16:45	**Matrix**	Water

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
06/15/2017 13:30	612297	EPA 3010A	100	06/22/2017 21:56	JLN	612724

CAS#	Parameter	Result	LOQ	Units
7440-70-2	Calcium	406000	50000	ug/L
7440-09-7	Potassium	383000	10000	ug/L

Sample Results

1706 1303 5.72	**Collect Date**	06/13/2017 12:30	**GCAL ID**	21706145704
	Receive Date	06/14/2017 16:45	**Matrix**	Water

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
06/15/2017 13:30	612297	EPA 3010A	5000	06/23/2017 16:02	AWG	612797

CAS#	Parameter	Result	LOQ	Units
7439-95-4	Magnesium	1280000	500000	ug/L
7440-23-5	Sodium	10200000	500000	ug/L

EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	100	06/20/2017 20:29	BSV	612434

CAS#	Parameter	Result	LOQ	Units
24959-67-9	Bromide	73.1	20.0	mg/L
16984-48-8	Fluoride	ND	20.0	mg/L

EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	5000	06/20/2017 20:46	BSV	612434

CAS#	Parameter	Result	LOQ	Units
16887-00-6	Chloride	17800	1000	mg/L
14808-79-8	Sulfate	2580	1000	mg/L

SM 2320 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	06/16/2017 11:14	RYC	612402

CAS#	Parameter	Result	LOQ	Units
T-005-B	Bicarbonate Alkalinity	114	1.0	mg/L CaCO3

Sample Results

1706 1303 7.63	**Collect Date**	06/13/2017 12:30	**GCAL ID**	21706145705
	Receive Date	06/14/2017 16:45	**Matrix**	Water

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
06/15/2017 13:30	612297	EPA 3010A	100	06/22/2017 22:01	JLN	612724

CAS#	Parameter	Result	LOQ	Units
7440-70-2	Calcium	421000	50000	ug/L
7440-09-7	Potassium	396000	10000	ug/L

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
06/15/2017 13:30	612297	EPA 3010A	5000	06/23/2017 16:08	AWG	612797

CAS#	Parameter	Result	LOQ	Units
7439-95-4	Magnesium	1430000	500000	ug/L
7440-23-5	Sodium	10300000	500000	ug/L

EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	100	06/20/2017 21:04	BSV	612434

CAS#	Parameter	Result	LOQ	Units
24959-67-9	Bromide	62.8	20.0	mg/L
16984-48-8	Fluoride	ND	20.0	mg/L

EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	5000	06/20/2017 21:21	BSV	612434

CAS#	Parameter	Result	LOQ	Units
16887-00-6	Chloride	17000	1000	mg/L
14808-79-8	Sulfate	2370	1000	mg/L

Sample Results

1706 1303 7.63	**Collect Date**	06/13/2017 12:30	**GCAL ID**	21706145705
	Receive Date	06/14/2017 16:45	**Matrix**	Water

SM 2320 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	06/16/2017 11:14	RYC	612402

CAS#	Parameter	Result	LOQ	Units
T-005-B	Bicarbonate Alkalinity	99.0	1.0	mg/L CaCO3

Inorganics QC Summary

Analytical Batch	Client ID	MB612297		LCS612297				LCSD612297				
612724	GCAL ID	1693477		1693478				1693552				
Prep Batch	Sample Type	MB		LCS				LCSD				
612297	Prep Date	06/15/2017 13:30		06/15/2017 13:30				06/15/2017 13:30				
Prep Method	Analysis Date	06/22/2017 20:26		06/22/2017 20:36				06/22/2017 20:31				
EPA 3010A	Matrix	Water		Water				Water				
EPA 6020A		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Calcium	7440-70-2	ND	500	25000	26700	107	80 - 120	25000	27100	108	1	20
Magnesium	7439-95-4	ND	100	5000	5170	103	80 - 120	5000	5350	107	4	20
Potassium	7440-09-7	ND	100	5000	5260	105	80 - 120	5000	5350	107	2	20
Sodium	7440-23-5	ND	100	5000	5250	105	80 - 120	5000	5540	111	5	20

General Chemistry QC Summary

Analytical Batch 612434	Client ID	MB612434		LCS612434			
	GCAL ID	1694191		1694192			
	Sample Type	MB		LCS			
	Prep Date	NA		NA			
	Analysis Date	06/20/2017 17:00		06/20/2017 16:42			
	Matrix	Water		Water			
EPA 300.0, Rev 2.1		Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R
Bromide	24959-67-9	ND	0.200	2.50	2.40	96	80 - 120
Chloride	16887-00-6	ND	0.200	2.50	2.62	105	80 - 120
Fluoride	16984-48-8	ND	0.200	2.50	2.47	99	80 - 120
Sulfate	14808-79-8	ND	0.200	2.50	2.57	103	80 - 120

Analytical Batch 612434	Client ID	B81-MW-38I-061417		B81-MW-38I-061417 MS				B81-MW-38I-061417 MSD				
	GCAL ID	21706162308		21706162309				21706162310				
	Sample Type	SAMPLE		MS				MSD				
	Prep Date	NA		NA				NA				
	Analysis Date	06/21/2017 00:32		06/21/2017 00:50				06/21/2017 01:07				
	Matrix	Water		Water				Water				
EPA 300.0, Rev 2.1		Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Chloride	16887-00-6	4.68	0.200	2.50	7.60	117	80 - 120	2.50	7.59	116	0	15
Sulfate	14808-79-8	5.46	0.200	2.50	7.86	96	80 - 120	2.50	7.83	95	0	15

Analytical Batch 612434	Client ID	SW-1-WO		1693626MS				1693626MSD				
	GCAL ID	21706152607		1694403				1694404				
	Sample Type	SAMPLE		MS				MSD				
	Prep Date	NA		NA				NA				
	Analysis Date	06/20/2017 17:17		06/20/2017 17:35				06/20/2017 17:52				
	Matrix	Water		Water				Water				
EPA 300.0, Rev 2.1		Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Chloride	16887-00-6	2120	200	2500	4680	102	80 - 120	2500	4710	103	1	15

GCAL ANALYTICAL LABORATORIES, LLC

CHAIN OF CUSTODY RECORD

7979 Innovation Park Dr., Baton Rouge, LA 70820-7402
Phone: 225.769.4900 • Fax: 225.767.5717 • www.gcal.com

Client ID: 0060 - C-K Associates
SDG: 217061457
PM: AEC

Report to:
Client: CK ASSOC
Address: 17170 Perkins Rd
Baton Rouge, LA 70810
Contact: David Hawley
Phone: 225-755-1000
E-mail: David.Hawley@c-ka.com

Bill to:
Client: SAME
Address:
Contact:
Phone:
E-mail:

P.O. Number
Project Name/Number
Sampled By:

Analytical Requests & Method: EPA 6020A Ca, Mg, Na, K; EPA 300.0 Bromide, Fluoride, Sulfate; SM 2320 B-2011 – Bicarbonate Alk.

GCAL use only:
Custody Seal used ☐ yes ☐ no; intact ☐ yes ☐ no
Temperature °C 4.0 E29
38 CPM
☐ Dissolved Analysis Requested
☐ Field filtered
☐ Lab filtered

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	No Containers	EPA 6020A Ca, Mg, Na, K	EPA 300.0 Bromide, Fluoride, Sulfate	SM 2320 B-2011 – Bicarbonate Alk.	Preservative
W	4/13/17	1230		X	17061303 2.42	2	✓	✓	✓	-1
					17061303 3.22	2				-2
					17061303 4.29	2				-3
					17061303 5.72	2				-4
					17061303 7.63	2				-5

Air Bill No:

Turn Around Time (Business Days): ☐ 24h* ☐ 48h* ☐ 3 days* ☐ 1 week* ☒ Standard (Per Contract/Quote)

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Courtney Hebert	6/14/17	1015	Jules Hebert	6-14-17	1615
Jules Hebert	6-14-17	1645	Tiffany Savage	6-14-17	1645

Note:
By submitting these samples, you agree to GCAL's terms and conditions contained in our most recent schedule of services.

[1]Matrix: W = water, S = solid, L = liquid, T = tissue

*Requires prior approval, rush charges may apply.

We cannot accept verbal changes. Please email written changes to your PM.

WHITE: CLIENT FINAL REPORT - CANARY: CLIENT

ED_001774D_00023178-00019

SAMPLE RECEIVING CHECKLIST

SAMPLE DELIVERY GROUP 217061457	
Client: PM: AEC 0060 - C-K Associates	Transport Method COURIER
Profile Number 273621	Received By Savage, Tiffany R
Line Item(s) 1 - Water	Receive Date(s) 06/14/17

CHECKLIST	YES	NO	NA
Samples received with proper thermal and chemical preservation?	☑	☐	☐
Radioactivity is <1600 cpm? If no, record cpm value in notes section.	☑	☐	☐
When used, were custody seals intact?	☑	☐	☐
COC relinquished and complete (including sample IDs, collect dates/times, and sampler name)?	☑	☐	☐
Short holds or RUSH samples received?	☐	☑	☐
All containers received in good condition and within hold time?	☑	☐	☐
All sample labels and containers received match the chain of custody?	☑	☐	☐
Preservation checked at receipt? Exceptions: VOC, Coliform, TOC, Oil and Grease, DOC	☑	☐	☐
Preservative added to any containers?	☐	☑	☐
VOC water containers received with headspace < 6mm?	☐	☐	☑
Received filtered sample volume for dissolved analysis?	☐	☐	☑
Trip blank present in all coolers containing VOC waters?	☐	☐	☑
Samples collected in containers provided by GCAL?	☑	☐	☐

COOLERS		
Wet/Ice	Thermometer ID: E29	Temp(°C)
		4.0

DISCREPANCIES
None

LAB PRESERVATIONS
None

NOTES	

Revision 3.6

Page 1 of 1