

Daily Analysis Runlog For Sequence/QC Batch ID # LB86890

Review By

SubDirectory

Review On

Test : Anions

LB86890

STD. NAME		STD REF.#				
ICAL Standard		WP54011,WP54014,WP54015,WP54016,WP54017,WP54018,WP54019				
ICV Standard		WP54020				
CCV Standard		WP54204				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54209				
Chk Standard		WP53780,WP53781				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	04/04/17 22:15		OK
2	STD2	STD2	CAL2	04/04/17 22:46		OK
3	STD3	STD3	CAL3	04/04/17 23:16		OK
4	STD4	STD4	CAL4	04/04/17 23:47		OK
5	STD5	STD5	CAL5	04/05/17 00:17		OK
6	STD6	STD6	CAL6	04/05/17 00:48		OK
7	STD7	STD7	CAL7	04/05/17 01:18		OK
8	ICV1	ICV1	ICV	04/05/17 02:49		OK
9	ICB1	ICB1	ICB	04/05/17 03:20		OK
10	CCV1	CCV1	CCV	04/14/17 10:52		OK
11	CCB1	CCB1	CCB	04/14/17 11:27		OK
12	LB86890BLW	LB86890BLW	MB	04/14/17 11:57		OK
13	LB86890BSW	LB86890BSW	LCS	04/14/17 12:28		OK
14	I2699-01	MW-6I	SAM	04/14/17 13:05	SO4 high	Dilution
15	I2699-02	MW-3I	SAM	04/14/17 13:35	SO4 high	Dilution
16	I2699-03	MW-12	SAM	04/14/17 14:06	SO4 high	Dilution
17	I2699-04	DUP	SAM	04/14/17 14:36	SO4 high	Dilution
18	I2698-01	CELL-POOL-WATER	SAM	04/14/17 15:07		OK
19	I2698-01D	CELL-POOL-WATER	DUP	04/14/17 15:38		OK
20	I2698-01S	CELL-POOL-WATER	MS	04/14/17 16:09		OK
21	CCV2	CCV2	CCV	04/14/17 16:39		OK

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STD. NAME		STD REF.#				
ICAL Standard		WP54011,WP54014,WP54015,WP54016,WP54017,WP54018,WP54019				
ICV Standard		WP54020				
CCV Standard		WP54204				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54209				
Chk Standard		WP53780,WP53781				
22	CCB2	CCB2	CCB	04/14/17 17:10		OK
23	I2710-01	SW16A	SAM	04/14/17 17:41	CL,SO4 high	Dilution
24	I2710-02	SW13	SAM	04/14/17 18:11	CL,SO4 high	Dilution
25	I2710-03	SW12	SAM	04/14/17 18:42	CL high	Dilution
26	I2710-04	SW3	SAM	04/14/17 19:12	CL high	Dilution
27	I2710-07	SW11	SAM	04/14/17 19:43	CL high	Dilution
28	I2710-08	SW6	SAM	04/14/17 20:13	CL high	Dilution
29	I2710-09	SW7	SAM	04/14/17 20:44	CL high	Dilution
30	I2710-10	SW5	SAM	04/14/17 21:14	CL high	Dilution
31	I2710-11	SW9	SAM	04/14/17 21:44	CL high	Dilution
32	I2710-12	SW4	SAM	04/14/17 22:15	CL high	Dilution
33	CCV3	CCV3	CCV	04/14/17 22:45		OK
34	CCB3	CCB3	CCB	04/14/17 23:16		OK
35	LB86890BLW	LB86890BLW	MB	04/14/17 23:46		OK
36	LB86890BSW	LB86890BSW	LCS	04/15/17 00:17		OK
37	I2710-13	SW17	SAM	04/15/17 00:47	CL,SO4 high	Dilution
38	I2710-14	SW14	SAM	04/15/17 01:18	CL,SO4 high	Dilution
39	I2710-14DUP	SW14DUP	DUP	04/15/17 01:48		OK
40	I2710-14MS	SW14MS	MS	04/15/17 02:19		OK
41	I2699-01DL	MW-6IDL	SAM	04/15/17 02:49	10X for SO4	Confirms
42	I2699-02DL	MW-3IDL	SAM	04/15/17 03:19	2X for SO4	Confirms
43	I2699-03DL	MW-12DL	SAM	04/15/17 03:50	10X for SO4	Confirms

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ICAL Standard		WP54011,WP54014,WP54015,WP54016,WP54017,WP54018,WP54019				
ICV Standard		WP54020				
CCV Standard		WP54204				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54209				
Chk Standard		WP53780,WP53781				
44	I2699-04DL	DUPDL	SAM	04/15/17 04:20	10X for SO4	Confirms
45	CCV4	CCV4	CCV	04/15/17 04:51		OK
46	CCB4	CCB4	CCB	04/15/17 05:21		OK
47	BLANK	BLANK	MB	04/17/17 08:46		OK
48	CCV5	CCV5	CCV	04/17/17 09:16		OK
49	CCB5	CCB5	CCB	04/17/17 09:50		OK
50	LB86890BLW	LB86890BLW	MB	04/17/17 10:21		OK
51	LB86890BSW	LB86890BSW	LCS	04/17/17 10:51		OK
52	I2710-01DL	SW16ADL	SAM	04/17/17 11:23	50X for CL,SO4,Still CL high	Dilution
53	I2710-01DL	SW16ADL	SAM	04/17/17 11:54	1000X for CL	Confirms
54	I2710-02DL	SW13DL	SAM	04/17/17 12:24	2X for CL,SO4,Still CL high	Dilution
55	I2710-03DL	SW12DL	SAM	04/17/17 13:25	20X for CL	Confirms
56	I2710-04DL	SW3DL	SAM	04/17/17 13:55	20X for CL	Confirms
57	I2710-07DL	SW11DL	SAM	04/17/17 14:26	20X for CL	Confirms
58	I2710-08DL	SW6DL	SAM	04/17/17 14:56	20X for CL	Confirms
59	CCV6	CCV6	CCV	04/17/17 15:27		OK
60	CCB6	CCB6	CCB	04/17/17 16:14		OK
61	I2710-09DL	SW7DL	SAM	04/17/17 16:44	20X for CL	Confirms
62	I2710-10DL	SW5DL	SAM	04/17/17 17:15	20X for CL	Confirms
63	I2710-11DL	SW9DL	SAM	04/17/17 17:45	20X for CL	Confirms
64	I2710-12DL	SW4DL	SAM	04/17/17 18:15	20X for CL	Confirms
65	I2710-13DL	SW17DL	SAM	04/17/17 18:46	100X for CL,SO4,Still CL high	Dilution

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SubDirectory		LB86890		Test : Anions		
STD. NAME		STD REF.#				
ICAL Standard		WP54011,WP54014,WP54015,WP54016,WP54017,WP54018,WP54019				
ICV Standard		WP54020				
CCV Standard		WP54204				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54209				
Chk Standard		WP53780,WP53781				
66	I2710-13DL	SW17DL	SAM	04/17/17 19:16	5000X for CL	Confirms
67	I2710-14DL	SW14DL	SAM	04/17/17 19:47	100X for CL,SO4,Still CL high	Dilution
68	I2710-14DL	SW14DL	SAM	04/17/17 20:17	5000X for CL	Confirms
69	I2710-02DL	SW13DL	SAM	04/17/17 20:48	100X for CL	Confirms
70	CCV7	CCV7	CCV	04/17/17 21:18		OK
71	CCB7	CCB7	CCB	04/17/17 21:49		OK

Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	CELL-POOL-WATER	SDG No.:	LB86890
Lab Sample ID:	I2698-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	U	1	0.066		0.5	mg/L		04/14/2017	300.0
	Chloride	0.066	U	1	0.075		0.15	mg/L		04/14/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		04/14/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		04/14/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/14/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/14/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		04/14/2017	300.0



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MW-6I	SDG No.:	LB86890
Lab Sample ID:	I2699-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0.37	J	1	0.066		0.5	mg/L		04/14/2017	300.0
	Chloride	231	OR	1	0.075		0.15	mg/L		04/14/2017	300.0
	Fluoride	1.4		1	0.043		0.1	mg/L		04/14/2017	300.0
	Nitrate	0.094	J	1	0.027		0.13	mg/L		04/14/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/14/2017	300.0
	Phosphorus, Ortho	0.14	J	1	0.01		0.25	mg/L		04/14/2017	300.0
	Sulfate	156	OR	1	0.13		0.75	mg/L		04/14/2017	300.0

Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MW-6IDL	SDG No.:	LB86890
Lab Sample ID:	I2699-01DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	UD	10	0.66		5	mg/L		04/15/2017	300.0
	Chloride	212	OR	10	0.75		1.5	mg/L		04/15/2017	300.0
	Fluoride	3	D	10	0.43		1	mg/L		04/15/2017	300.0
	Nitrate	0	UD	10	0.27		1.3	mg/L		04/15/2017	300.0
	Nitrite	0	UD	10	0.22		1.5	mg/L		04/15/2017	300.0
	Phosphorus, Ortho	-3.2	UD	10	0.1		2.5	mg/L		04/15/2017	300.0
	Sulfate	167	D	10	1.3		7.5	mg/L		04/15/2017	300.0

Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MW-3I	SDG No.:	LB86890
Lab Sample ID:	I2699-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	U	1	0.066		0.5	mg/L		04/14/2017	300.0
	Chloride	69.8	OR	1	0.075		0.15	mg/L		04/14/2017	300.0
	Fluoride	0.092	J	1	0.043		0.1	mg/L		04/14/2017	300.0
	Nitrate	1.3		1	0.027		0.13	mg/L		04/14/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/14/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/14/2017	300.0
	Sulfate	56.7	OR	1	0.13		0.75	mg/L		04/14/2017	300.0

Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MW-3IDL	SDG No.:	LB86890
Lab Sample ID:	I2699-02DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	UD	2	0.13		1	mg/L		04/15/2017	300.0
	Chloride	101	OR	2	0.15		0.3	mg/L		04/15/2017	300.0
	Fluoride	0.14	JD	2	0.086		0.2	mg/L		04/15/2017	300.0
	Nitrate	1.4	D	2	0.054		0.25	mg/L		04/15/2017	300.0
	Nitrite	0	UD	2	0.044		0.3	mg/L		04/15/2017	300.0
	Phosphorus, Ortho	0	UD	2	0.02		0.5	mg/L		04/15/2017	300.0
	Sulfate	54.6	D	2	0.26		1.5	mg/L		04/15/2017	300.0



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MW-12	SDG No.:	LB86890
Lab Sample ID:	I2699-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0.35	J	1	0.066		0.5	mg/L		04/14/2017	300.0
	Chloride	101	OR	1	0.075		0.15	mg/L		04/14/2017	300.0
	Fluoride	0.69		1	0.043		0.1	mg/L		04/14/2017	300.0
	Nitrate	0.83		1	0.027		0.13	mg/L		04/14/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/14/2017	300.0
	Phosphorus, Ortho	0.38		1	0.01		0.25	mg/L		04/14/2017	300.0
	Sulfate	107	OR	1	0.13		0.75	mg/L		04/14/2017	300.0

Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MW-12DL	SDG No.:	LB86890
Lab Sample ID:	I2699-03DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	UD	10	0.66		5	mg/L		04/15/2017	300.0
	Chloride	133	OR	10	0.75		1.5	mg/L		04/15/2017	300.0
	Fluoride	0	UD	10	0.43		1	mg/L		04/15/2017	300.0
	Nitrate	1.5	D	10	0.27		1.3	mg/L		04/15/2017	300.0
	Nitrite	0	UD	10	0.22		1.5	mg/L		04/15/2017	300.0
	Phosphorus, Ortho	-3.5	UD	10	0.1		2.5	mg/L		04/15/2017	300.0
	Sulfate	104	D	10	1.3		7.5	mg/L		04/15/2017	300.0



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	DUP	SDG No.:	LB86890
Lab Sample ID:	I2699-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0.37	J	1	0.066		0.5	mg/L		04/14/2017	300.0
	Chloride	221	OR	1	0.075		0.15	mg/L		04/14/2017	300.0
	Fluoride	1.3		1	0.043		0.1	mg/L		04/14/2017	300.0
	Nitrate	0.094	J	1	0.027		0.13	mg/L		04/14/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/14/2017	300.0
	Phosphorus, Ortho	0.048	J	1	0.01		0.25	mg/L		04/14/2017	300.0
	Sulfate	157	OR	1	0.13		0.75	mg/L		04/14/2017	300.0

Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	DUPDL	SDG No.:	LB86890
Lab Sample ID:	I2699-04DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	UD	10	0.66		5	mg/L		04/15/2017	300.0
	Chloride	210	OR	10	0.75		1.5	mg/L		04/15/2017	300.0
	Fluoride	3	D	10	0.43		1	mg/L		04/15/2017	300.0
	Nitrate	0	UD	10	0.27		1.3	mg/L		04/15/2017	300.0
	Nitrite	0	UD	10	0.22		1.5	mg/L		04/15/2017	300.0
	Phosphorus, Ortho	-3.7	UD	10	0.1		2.5	mg/L		04/15/2017	300.0
	Sulfate	168	D	10	1.3		7.5	mg/L		04/15/2017	300.0



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW16A	SDG No.:	LB86890
Lab Sample ID:	I2710-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	16.6		1	0.066		0.5	mg/L		04/14/2017	300.0
	Chloride	560	OR	1	0.075		0.15	mg/L		04/14/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		04/14/2017	300.0
	Nitrate	1.3		1	0.027		0.13	mg/L		04/14/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/14/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/14/2017	300.0
	Sulfate	335	OR	1	0.13		0.75	mg/L		04/14/2017	300.0



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW16ADL	SDG No.:	LB86890
Lab Sample ID:	I2710-01DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	UD	50	3.3		25	mg/L		04/17/2017	300.0
	Bromide	0	UD	1000	66		500	mg/L		04/17/2017	300.0
	Chloride	5010	D	1000	75		150	mg/L		04/17/2017	300.0
	Chloride	3450	OR	50	3.8		7.5	mg/L		04/17/2017	300.0
	Fluoride	0	UD	50	2.2		5	mg/L		04/17/2017	300.0
	Fluoride	0	UD	1000	43		100	mg/L		04/17/2017	300.0
	Nitrate	0	UD	1000	27		125	mg/L		04/17/2017	300.0
	Nitrate	0	UD	50	1.4		6.3	mg/L		04/17/2017	300.0
	Nitrite	0	UD	50	1.1		7.5	mg/L		04/17/2017	300.0
	Nitrite	0	UD	1000	22		150	mg/L		04/17/2017	300.0
	Phosphorus, Ortho	0	UD	1000	10		250	mg/L		04/17/2017	300.0
	Phosphorus, Ortho	0	UD	50	0.5		12.5	mg/L		04/17/2017	300.0
	Sulfate	684	D	50	6.6		37.5	mg/L		04/17/2017	300.0
	Sulfate	1200	D	1000	132		750	mg/L		04/17/2017	300.0

Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW13	SDG No.:	LB86890
Lab Sample ID:	I2710-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	1.2		1	0.066		0.5	mg/L		04/14/2017	300.0
	Chloride	131	OR	1	0.075		0.15	mg/L		04/14/2017	300.0
	Fluoride	0.14		1	0.043		0.1	mg/L		04/14/2017	300.0
	Nitrate	0.81		1	0.027		0.13	mg/L		04/14/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/14/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/14/2017	300.0
	Sulfate	59.5	OR	1	0.13		0.75	mg/L		04/14/2017	300.0

Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW13DL	SDG No.:	LB86890
Lab Sample ID:	I2710-02DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	UD	100	6.6		50	mg/L		04/17/2017	300.0
	Bromide	1.5	D	2	0.13		1	mg/L		04/17/2017	300.0
	Chloride	185	OR	2	0.15		0.3	mg/L		04/17/2017	300.0
	Chloride	399	D	100	7.5		15	mg/L		04/17/2017	300.0
	Fluoride	0	UD	100	4.3		10	mg/L		04/17/2017	300.0
	Fluoride	0	UD	2	0.086		0.2	mg/L		04/17/2017	300.0
	Nitrate	0.9	D	2	0.054		0.25	mg/L		04/17/2017	300.0
	Nitrate	0	UD	100	2.7		12.5	mg/L		04/17/2017	300.0
	Nitrite	0	UD	100	2.2		15	mg/L		04/17/2017	300.0
	Nitrite	0	UD	2	0.044		0.3	mg/L		04/17/2017	300.0
	Phosphorus, Ortho	0	UD	2	0.02		0.5	mg/L		04/17/2017	300.0
	Phosphorus, Ortho	0	UD	100	1		25	mg/L		04/17/2017	300.0
	Sulfate	110	D	100	13.2		75	mg/L		04/17/2017	300.0
	Sulfate	57.7	D	2	0.26		1.5	mg/L		04/17/2017	300.0



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW12	SDG No.:	LB86890
Lab Sample ID:	I2710-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	U	1	0.066		0.5	mg/L		04/14/2017	300.0
	Chloride	74.5	OR	1	0.075		0.15	mg/L		04/14/2017	300.0
	Fluoride	0.1		1	0.043		0.1	mg/L		04/14/2017	300.0
	Nitrate	0.65		1	0.027		0.13	mg/L		04/14/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/14/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/14/2017	300.0
	Sulfate	16.4		1	0.13		0.75	mg/L		04/14/2017	300.0

Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW12DL	SDG No.:	LB86890
Lab Sample ID:	I2710-03DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	UD	20	1.3		10	mg/L		04/17/2017	300.0
	Chloride	116	D	20	1.5		3	mg/L		04/17/2017	300.0
	Fluoride	0	UD	20	0.86		2	mg/L		04/17/2017	300.0
	Nitrate	0	UD	20	0.54		2.5	mg/L		04/17/2017	300.0
	Nitrite	0	UD	20	0.44		3	mg/L		04/17/2017	300.0
	Phosphorus, Ortho	0	UD	20	0.2		5	mg/L		04/17/2017	300.0
	Sulfate	27	D	20	2.6		15	mg/L		04/17/2017	300.0



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW3	SDG No.:	LB86890
Lab Sample ID:	I2710-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0.34	J	1	0.066		0.5	mg/L		04/14/2017	300.0
	Chloride	77	OR	1	0.075		0.15	mg/L		04/14/2017	300.0
	Fluoride	0.098	J	1	0.043		0.1	mg/L		04/14/2017	300.0
	Nitrate	2.9		1	0.027		0.13	mg/L		04/14/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/14/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/14/2017	300.0
	Sulfate	28.1		1	0.13		0.75	mg/L		04/14/2017	300.0

Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW3DL	SDG No.:	LB86890
Lab Sample ID:	I2710-04DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	UD	20	1.3		10	mg/L		04/17/2017	300.0
	Chloride	124	D	20	1.5		3	mg/L		04/17/2017	300.0
	Fluoride	0	UD	20	0.86		2	mg/L		04/17/2017	300.0
	Nitrate	4	D	20	0.54		2.5	mg/L		04/17/2017	300.0
	Nitrite	0	UD	20	0.44		3	mg/L		04/17/2017	300.0
	Phosphorus, Ortho	0	UD	20	0.2		5	mg/L		04/17/2017	300.0
	Sulfate	37.3	D	20	2.6		15	mg/L		04/17/2017	300.0



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW11	SDG No.:	LB86890
Lab Sample ID:	I2710-07	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	U	1	0.066		0.5	mg/L		04/14/2017	300.0
	Chloride	75.1	OR	1	0.075		0.15	mg/L		04/14/2017	300.0
	Fluoride	0.088	J	1	0.043		0.1	mg/L		04/14/2017	300.0
	Nitrate	0.36		1	0.027		0.13	mg/L		04/14/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/14/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/14/2017	300.0
	Sulfate	14.7		1	0.13		0.75	mg/L		04/14/2017	300.0

Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW11DL	SDG No.:	LB86890
Lab Sample ID:	I2710-07DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	UD	20	1.3		10	mg/L		04/17/2017	300.0
	Chloride	120	D	20	1.5		3	mg/L		04/17/2017	300.0
	Fluoride	0	UD	20	0.86		2	mg/L		04/17/2017	300.0
	Nitrate	0	UD	20	0.54		2.5	mg/L		04/17/2017	300.0
	Nitrite	0	UD	20	0.44		3	mg/L		04/17/2017	300.0
	Phosphorus, Ortho	0	UD	20	0.2		5	mg/L		04/17/2017	300.0
	Sulfate	25.3	D	20	2.6		15	mg/L		04/17/2017	300.0



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW6	SDG No.:	LB86890
Lab Sample ID:	I2710-08	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	U	1	0.066		0.5	mg/L		04/14/2017	300.0
	Chloride	79.2	OR	1	0.075		0.15	mg/L		04/14/2017	300.0
	Fluoride	0.08	J	1	0.043		0.1	mg/L		04/14/2017	300.0
	Nitrate	0.43		1	0.027		0.13	mg/L		04/14/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/14/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/14/2017	300.0
	Sulfate	8.4		1	0.13		0.75	mg/L		04/14/2017	300.0

Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW6DL	SDG No.:	LB86890
Lab Sample ID:	I2710-08DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	UD	20	1.3		10	mg/L		04/17/2017	300.0
	Chloride	139	D	20	1.5		3	mg/L		04/17/2017	300.0
	Fluoride	0	UD	20	0.86		2	mg/L		04/17/2017	300.0
	Nitrate	0	UD	20	0.54		2.5	mg/L		04/17/2017	300.0
	Nitrite	0	UD	20	0.44		3	mg/L		04/17/2017	300.0
	Phosphorus, Ortho	0	UD	20	0.2		5	mg/L		04/17/2017	300.0
	Sulfate	19.4	D	20	2.6		15	mg/L		04/17/2017	300.0

Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW7	SDG No.:	LB86890
Lab Sample ID:	I2710-09	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	U	1	0.066		0.5	mg/L		04/14/2017	300.0
	Chloride	71.2	OR	1	0.075		0.15	mg/L		04/14/2017	300.0
	Fluoride	0.11		1	0.043		0.1	mg/L		04/14/2017	300.0
	Nitrate	0.25		1	0.027		0.13	mg/L		04/14/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/14/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/14/2017	300.0
	Sulfate	27.1		1	0.13		0.75	mg/L		04/14/2017	300.0

Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW7DL	SDG No.:	LB86890
Lab Sample ID:	I2710-09DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	UD	20	1.3		10	mg/L		04/17/2017	300.0
	Chloride	104	D	20	1.5		3	mg/L		04/17/2017	300.0
	Fluoride	0	UD	20	0.86		2	mg/L		04/17/2017	300.0
	Nitrate	0	UD	20	0.54		2.5	mg/L		04/17/2017	300.0
	Nitrite	0	UD	20	0.44		3	mg/L		04/17/2017	300.0
	Phosphorus, Ortho	0	UD	20	0.2		5	mg/L		04/17/2017	300.0
	Sulfate	36.5	D	20	2.6		15	mg/L		04/17/2017	300.0



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW5	SDG No.:	LB86890
Lab Sample ID:	I2710-10	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	U	1	0.066		0.5	mg/L		04/14/2017	300.0
	Chloride	65.7	OR	1	0.075		0.15	mg/L		04/14/2017	300.0
	Fluoride	0.078	J	1	0.043		0.1	mg/L		04/14/2017	300.0
	Nitrate	3.2		1	0.027		0.13	mg/L		04/14/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/14/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/14/2017	300.0
	Sulfate	30.5		1	0.13		0.75	mg/L		04/14/2017	300.0

Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW5DL	SDG No.:	LB86890
Lab Sample ID:	I2710-10DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	UD	20	1.3		10	mg/L		04/17/2017	300.0
	Chloride	81.2	D	20	1.5		3	mg/L		04/17/2017	300.0
	Fluoride	0	UD	20	0.86		2	mg/L		04/17/2017	300.0
	Nitrate	4.2	D	20	0.54		2.5	mg/L		04/17/2017	300.0
	Nitrite	0	UD	20	0.44		3	mg/L		04/17/2017	300.0
	Phosphorus, Ortho	0	UD	20	0.2		5	mg/L		04/17/2017	300.0
	Sulfate	39.1	D	20	2.6		15	mg/L		04/17/2017	300.0

Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW9	SDG No.:	LB86890
Lab Sample ID:	I2710-11	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	U	1	0.066		0.5	mg/L		04/14/2017	300.0
	Chloride	78.5	OR	1	0.075		0.15	mg/L		04/14/2017	300.0
	Fluoride	0.083	J	1	0.043		0.1	mg/L		04/14/2017	300.0
	Nitrate	0.37		1	0.027		0.13	mg/L		04/14/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/14/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/14/2017	300.0
	Sulfate	14.7		1	0.13		0.75	mg/L		04/14/2017	300.0



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW9DL	SDG No.:	LB86890
Lab Sample ID:	I2710-11DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	UD	20	1.3		10	mg/L		04/17/2017	300.0
	Chloride	132	D	20	1.5		3	mg/L		04/17/2017	300.0
	Fluoride	0	UD	20	0.86		2	mg/L		04/17/2017	300.0
	Nitrate	0	UD	20	0.54		2.5	mg/L		04/17/2017	300.0
	Nitrite	0	UD	20	0.44		3	mg/L		04/17/2017	300.0
	Phosphorus, Ortho	0	UD	20	0.2		5	mg/L		04/17/2017	300.0
	Sulfate	25.3	D	20	2.6		15	mg/L		04/17/2017	300.0

Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW4	SDG No.:	LB86890
Lab Sample ID:	I2710-12	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0.36	J	1	0.066		0.5	mg/L		04/14/2017	300.0
	Chloride	61.8	OR	1	0.075		0.15	mg/L		04/14/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		04/14/2017	300.0
	Nitrate	0.95		1	0.027		0.13	mg/L		04/14/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/14/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/14/2017	300.0
	Sulfate	16.4		1	0.13		0.75	mg/L		04/14/2017	300.0

Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW4DL	SDG No.:	LB86890
Lab Sample ID:	I2710-12DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	UD	20	1.3		10	mg/L		04/17/2017	300.0
	Chloride	71.9	D	20	1.5		3	mg/L		04/17/2017	300.0
	Fluoride	0	UD	20	0.86		2	mg/L		04/17/2017	300.0
	Nitrate	0	UD	20	0.54		2.5	mg/L		04/17/2017	300.0
	Nitrite	0	UD	20	0.44		3	mg/L		04/17/2017	300.0
	Phosphorus, Ortho	0	UD	20	0.2		5	mg/L		04/17/2017	300.0
	Sulfate	26.9	D	20	2.6		15	mg/L		04/17/2017	300.0

Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW17	SDG No.:	LB86890
Lab Sample ID:	I2710-13	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	51.7	OR	1	0.066		0.5	mg/L		04/15/2017	300.0
	Chloride	839	OR	1	0.075		0.15	mg/L		04/15/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		04/15/2017	300.0
	Nitrate	0.47		1	0.027		0.13	mg/L		04/15/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/15/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/15/2017	300.0
	Sulfate	556	OR	1	0.13		0.75	mg/L		04/15/2017	300.0



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Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW17DL	SDG No.:	LB86890
Lab Sample ID:	I2710-13DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	68.7	D	100	6.6		50	mg/L		04/17/2017	300.0
	Bromide	0	UD	5000	330		2500	mg/L		04/17/2017	300.0
	Chloride	13200	D	5000	375		750	mg/L		04/17/2017	300.0
	Chloride	7890	OR	100	7.5		15	mg/L		04/17/2017	300.0
	Fluoride	0	UD	100	4.3		10	mg/L		04/17/2017	300.0
	Fluoride	0	UD	5000	215		500	mg/L		04/17/2017	300.0
	Nitrate	0	UD	5000	135		625	mg/L		04/17/2017	300.0
	Nitrate	0	UD	100	2.7		12.5	mg/L		04/17/2017	300.0
	Nitrite	0	UD	100	2.2		15	mg/L		04/17/2017	300.0
	Nitrite	0	UD	5000	110		750	mg/L		04/17/2017	300.0
	Phosphorus, Ortho	0	UD	5000	50		1250	mg/L		04/17/2017	300.0
	Phosphorus, Ortho	0	UD	100	1		25	mg/L		04/17/2017	300.0
	Sulfate	1870	D	100	13.2		75	mg/L		04/17/2017	300.0
	Sulfate	4590	D	5000	660		3750	mg/L		04/17/2017	300.0



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW14	SDG No.:	LB86890
Lab Sample ID:	I2710-14	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	40.5	OR	1	0.066		0.5	mg/L		04/15/2017	300.0
	Chloride	742	OR	1	0.075		0.15	mg/L		04/15/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		04/15/2017	300.0
	Nitrate	0.52		1	0.027		0.13	mg/L		04/15/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/15/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/15/2017	300.0
	Sulfate	497	OR	1	0.13		0.75	mg/L		04/15/2017	300.0

Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW14DL	SDG No.:	LB86890
Lab Sample ID:	I2710-14DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	60.6	D	100	6.6		50	mg/L		04/17/2017	300.0
	Bromide	0	UD	5000	330		2500	mg/L		04/17/2017	300.0
	Chloride	11000	D	5000	375		750	mg/L		04/17/2017	300.0
	Chloride	7350	OR	100	7.5		15	mg/L		04/17/2017	300.0
	Fluoride	0	UD	100	4.3		10	mg/L		04/17/2017	300.0
	Fluoride	0	UD	5000	215		500	mg/L		04/17/2017	300.0
	Nitrate	0	UD	5000	135		625	mg/L		04/17/2017	300.0
	Nitrate	0	UD	100	2.7		12.5	mg/L		04/17/2017	300.0
	Nitrite	0	UD	100	2.2		15	mg/L		04/17/2017	300.0
	Nitrite	0	UD	5000	110		750	mg/L		04/17/2017	300.0
	Phosphorus, Ortho	0	UD	5000	50		1250	mg/L		04/17/2017	300.0
	Phosphorus, Ortho	0	UD	100	1		25	mg/L		04/17/2017	300.0
	Sulfate	1570	D	100	13.2		75	mg/L		04/17/2017	300.0
	Sulfate	4300	D	5000	660		3750	mg/L		04/17/2017	300.0



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86890	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW14DL	SDG No.:	LB86890
Lab Sample ID:	I2710-14DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Sample ID	Analyte	Result	True Value	%	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	Bromide	9.5	10	95	0	90 - 110		04/05/2017	02:49	LB86890
	Chloride	2.8	3	93.3	0	90 - 110		04/05/2017	02:49	LB86890
	Fluoride	1.9	2	95	0	90 - 110		04/05/2017	02:49	LB86890
	Phosphorus, Ortho	5	5	100	0	90 - 110		04/05/2017	02:49	LB86890
	Nitrite	2.9	3	96.7	0	90 - 110		04/05/2017	02:49	LB86890
	Nitrate	2.4	2.5	96	0	90 - 110		04/05/2017	02:49	LB86890
	Sulfate	14.1	15	94	0	90 - 110		04/05/2017	02:49	LB86890



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86890

SDG No.: LB86890

Contract: Lab Code: CHEM

Case No.: LB86890

SAS No.: LB86890

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Bromide	0.066	+/-0.5	U		0.5		04/05/2017	03:20	LB86890
	Chloride	0.075	+/-0.15	U		0.15		04/05/2017	03:20	LB86890
	Fluoride	0.043	+/-0.1	U		0.1		04/05/2017	03:20	LB86890
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/05/2017	03:20	LB86890
	Nitrite	0.022	+/-0.15	U		0.15		04/05/2017	03:20	LB86890
	Nitrate	0.027	+/-0.13	U		0.13		04/05/2017	03:20	LB86890
	Sulfate	0.13	+/-0.75	U		0.75		04/05/2017	03:20	LB86890

GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86890 SDG No.: LB86890
 Contract: _____ Lab Code: CHEM Case No.: LB86890 SAS No.: LB86890

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Bromide	0.066	+/-0.5	U		0.5		04/14/2017	11:27	LB86890
	Chloride	0.075	+/-0.15	U		0.15		04/14/2017	11:27	LB86890
	Fluoride	0.043	+/-0.1	U		0.1		04/14/2017	11:27	LB86890
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/14/2017	11:27	LB86890
	Nitrite	0.022	+/-0.15	U		0.15		04/14/2017	11:27	LB86890
	Nitrate	0.027	+/-0.13	U		0.13		04/14/2017	11:27	LB86890
	Sulfate	0.13	+/-0.75	U		0.75		04/14/2017	11:27	LB86890
CCB2	Bromide	0.066	+/-0.5	U		0.5		04/14/2017	17:10	LB86890
	Chloride	0.075	+/-0.15	U		0.15		04/14/2017	17:10	LB86890
	Fluoride	0.043	+/-0.1	U		0.1		04/14/2017	17:10	LB86890
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/14/2017	17:10	LB86890
	Nitrite	0.022	+/-0.15	U		0.15		04/14/2017	17:10	LB86890
	Nitrate	0.027	+/-0.13	U		0.13		04/14/2017	17:10	LB86890
	Sulfate	0.13	+/-0.75	U		0.75		04/14/2017	17:10	LB86890
CCB3	Bromide	0.066	+/-0.5	U		0.5		04/14/2017	23:16	LB86890
	Chloride	0.075	+/-0.15	U		0.15		04/14/2017	23:16	LB86890
	Fluoride	0.043	+/-0.1	U		0.1		04/14/2017	23:16	LB86890
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/14/2017	23:16	LB86890
	Nitrite	0.022	+/-0.15	U		0.15		04/14/2017	23:16	LB86890
	Nitrate	0.027	+/-0.13	U		0.13		04/14/2017	23:16	LB86890
	Sulfate	0.13	+/-0.75	U		0.75		04/14/2017	23:16	LB86890
CCB4	Bromide	0.066	+/-0.5	U		0.5		04/15/2017	05:21	LB86890
	Chloride	0.075	+/-0.15	U		0.15		04/15/2017	05:21	LB86890
	Fluoride	0.043	+/-0.1	U		0.1		04/15/2017	05:21	LB86890
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/15/2017	05:21	LB86890
	Nitrite	0.022	+/-0.15	U		0.15		04/15/2017	05:21	LB86890
	Nitrate	0.027	+/-0.13	U		0.13		04/15/2017	05:21	LB86890
	Sulfate	0.13	+/-0.75	U		0.75		04/15/2017	05:21	LB86890
CCB5	Bromide	0.066	+/-0.5	U		0.5		04/17/2017	09:50	LB86890
	Chloride	0.075	+/-0.15	U		0.15		04/17/2017	09:50	LB86890
	Fluoride	0.043	+/-0.1	U		0.1		04/17/2017	09:50	LB86890
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/17/2017	09:50	LB86890
	Nitrite	0.022	+/-0.15	U		0.15		04/17/2017	09:50	LB86890
	Nitrate	0.027	+/-0.13	U		0.13		04/17/2017	09:50	LB86890
	Sulfate	0.13	+/-0.75	U		0.75		04/17/2017	09:50	LB86890
CCB6	Bromide	0.066	+/-0.5	U		0.5		04/17/2017	16:14	LB86890
	Chloride	0.075	+/-0.15	U		0.15		04/17/2017	16:14	LB86890
	Fluoride	0.043	+/-0.1	U		0.1		04/17/2017	16:14	LB86890
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/17/2017	16:14	LB86890
	Nitrite	0.022	+/-0.15	U		0.15		04/17/2017	16:14	LB86890



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86890

SDG No.: LB86890

Contract:

Lab Code: CHEM

Case No.: LB86890

SAS No.: LB86890

		Result	Acceptance	Conc				Analysis	Analysis	Run
Sample ID	Analyte	mg/L	Limit	Qual	LOD	CRQL	M	Date	Time	Number
CCB6	Nitrate	0.027	+/-0.13	U		0.13		04/17/2017	16:14	LB86890
	Sulfate	0.13	+/-0.75	U		0.75		04/17/2017	16:14	LB86890
CCB7	Bromide	0.066	+/-0.5	U		0.5		04/17/2017	21:49	LB86890
	Chloride	0.075	+/-0.15	U		0.15		04/17/2017	21:49	LB86890
	Fluoride	0.043	+/-0.1	U		0.1		04/17/2017	21:49	LB86890
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/17/2017	21:49	LB86890
	Nitrite	0.022	+/-0.15	U		0.15		04/17/2017	21:49	LB86890
	Nitrate	0.027	+/-0.13	U		0.13		04/17/2017	21:49	LB86890
	Sulfate	0.13	+/-0.75	U		0.75		04/17/2017	21:49	LB86890



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86890

SDG No.: LB86890

Contract: Lab Code: CHEM

Case No.: LB86890

SAS No.: LB86890

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB86890

SDG No.: LB86890

Instrument: IC Metrohm

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
BLANK		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		04/17/2017	08:46	LB86890
	Chloride	0.075	<0.15	U		0.15		04/17/2017	08:46	LB86890
	Fluoride	1.2	<0.1			0.1		04/17/2017	08:46	LB86890
	Phosphorus, Ortho	0.01	<0.25	U		0.25		04/17/2017	08:46	LB86890
	Nitrite	0.022	<0.15	U		0.15		04/17/2017	08:46	LB86890
	Nitrate	0.027	<0.13	U		0.13		04/17/2017	08:46	LB86890
	Sulfate	0.13	<0.75	U		0.75		04/17/2017	08:46	LB86890
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB86890BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		04/14/2017	23:46	LB86890
	Bromide	0.066	<0.5	U		0.5		04/14/2017	11:57	LB86890
	Bromide	0.066	<0.5	U		0.5		04/17/2017	10:21	LB86890
	Chloride	0.075	<0.15	U		0.15		04/17/2017	10:21	LB86890
	Chloride	0.075	<0.15	U		0.15		04/14/2017	11:57	LB86890
	Chloride	0.075	<0.15	U		0.15		04/14/2017	23:46	LB86890
	Fluoride	0.043	<0.1	U		0.1		04/14/2017	23:46	LB86890
	Fluoride	0.043	<0.1	U		0.1		04/14/2017	11:57	LB86890
	Fluoride	0.043	<0.1	U		0.1		04/17/2017	10:21	LB86890
	Phosphorus, Ortho	0.01	<0.25	U		0.25		04/14/2017	11:57	LB86890
	Phosphorus, Ortho	0.01	<0.25	U		0.25		04/17/2017	10:21	LB86890
	Phosphorus, Ortho	0.01	<0.25	U		0.25		04/14/2017	23:46	LB86890
	Nitrite	0.022	<0.15	U		0.15		04/14/2017	23:46	LB86890
	Nitrite	0.022	<0.15	U		0.15		04/14/2017	11:57	LB86890
	Nitrite	0.022	<0.15	U		0.15		04/17/2017	10:21	LB86890
	Nitrate	0.027	<0.13	U		0.13		04/17/2017	10:21	LB86890
	Nitrate	0.027	<0.13	U		0.13		04/14/2017	11:57	LB86890
	Nitrate	0.027	<0.13	U		0.13		04/14/2017	23:46	LB86890
	Sulfate	0.13	<0.75	U		0.75		04/14/2017	23:46	LB86890
	Sulfate	0.13	<0.75	U		0.75		04/14/2017	11:57	LB86890
	Sulfate	0.13	<0.75	U		0.75		04/17/2017	10:21	LB86890



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB86890 level: low sdg no.: LB86890
contract: _____ lab code: CHEM case no.: LB86890 sas no.: LB86890
matrix: WATER sample id: I2698-01 client id: CELL-POOL-WATER
Percent Solids for Sample: 0 Spiked ID: I2698-01S Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Bromide	mg/L	80 - 120	10		0.066	U	10	100		
Chloride	mg/L	80 - 120	3		0.075	U	3	100		
Fluoride	mg/L	80 - 120	2.1		0.043	U	2	105		
Phosphorus, Ortho	mg/L	80 - 120	5		0.01	U	5	100		
Nitrite	mg/L	80 - 120	2.9		0.022	U	3	96.7		
Nitrate	mg/L	80 - 120	2.5		0.027	U	2.5	100		
Sulfate	mg/L	80 - 120	15.1		0.13	U	15	100.7		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB86890 **level:** low **sdg no.:** LB86890
contract: **lab code:** CHEM **case no.:** LB86890 **sas no.:** LB86890
matrix: WATER **sample id:** I2710-14 **client id:** SW14MS
Percent Solids for Sample: 0 **Spiked ID:** I2710-14MS **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance	Spiked	Sample		Spike	%	Qual	M
		Limit %R	Result	C	Result	C	Added	Recovery	
Bromide	mg/L	80 - 120	49.3	OR	40.5	OR	10	88	
Chloride	mg/L	80 - 120	625	OR	742	OR	3	-3900	*
Fluoride	mg/L	80 - 120	2		0.043	U	2	100	
Phosphorus, Ortho	mg/L	80 - 120	0.77		0.01	U	5	15.4	*
Nitrite	mg/L	80 - 120	1.7		0.022	U	3	56.7	*
Nitrate	mg/L	80 - 120	2.9		0.52		2.5	95	
Sulfate	mg/L	80 - 120	471	OR	497	OR	15	-173	*

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB86890 **Level:** LOW **SDG No.:** LB86890
Contract: **Lab Code:** CHEM **Case No.:** LB86890 **SAS No.:** LB86890
Matrix: WATER **Sample ID:** I2698-01 **Client ID:** CELL-POOL-WATER
Percent Solids for Sample: 0 **Duplicate ID** I2698-01D **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Bromide	mg/L	20	0.066	U	0	U			
Chloride	mg/L	20	0.075	U	0.066	U			
Fluoride	mg/L	20	0.043	U	0	U			
Phosphorus, Ortho	mg/L	20	0.01	U	0	U			
Nitrite	mg/L	20	0.022	U	0	U			
Nitrate	mg/L	20	0.027	U	0	U			
Sulfate	mg/L	20	0.13	U	0	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB86890 **Level:** LOW **SDG No.:** LB86890
Contract: _____ **Lab Code:** CHEM **Case No.:** LB86890 **SAS No.:** LB86890
Matrix: WATER **Sample ID:** I2710-14 **Client ID:** SW14DUP
Percent Solids for Sample: 0 **Duplicate ID** I2710-14DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Bromide	mg/L	20	40.5	OR	40.8	OR	1		
Chloride	mg/L	20	742	OR	743	OR	0		
Fluoride	mg/L	20	0.043	U	0	U			
Phosphorus, Ortho	mg/L	20	0.01	U	0	U			
Nitrite	mg/L	20	0.022	U	0	U			
Nitrate	mg/L	20	0.52		0.52		0		
Sulfate	mg/L	20	497	OR	489	OR	2		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86890 SDG No.: LB86890
Contract: Lab Code: CHEM Case No.: LB86890 SAS No.: LB86890

Analyte	Units	True Value	Result	C	%	Acceptance	M
					Recovery	Limits	
LB86890BSW							
Bromide	mg/L	10	10.3		103	90 - 110	
Bromide	mg/L	10	9.7		97	90 - 110	
Bromide	mg/L	10	9.9		99	90 - 110	
Bromide	mg/L	10	10.3		103	90 - 110	
Bromide	mg/L	10	9.7		97	90 - 110	
Bromide	mg/L	10	9.9		99	90 - 110	
Bromide	mg/L	10	10.3		103	90 - 110	
Bromide	mg/L	10	9.7		97	90 - 110	
Bromide	mg/L	10	9.9		99	90 - 110	
Chloride	mg/L	3	2.9		96.7	90 - 110	
Chloride	mg/L	3	2.9		96.7	90 - 110	
Chloride	mg/L	3	3.1		103.3	90 - 110	
Chloride	mg/L	3	2.9		96.7	90 - 110	
Chloride	mg/L	3	2.9		96.7	90 - 110	
Chloride	mg/L	3	3.1		103.3	90 - 110	
Chloride	mg/L	3	2.9		96.7	90 - 110	
Chloride	mg/L	3	2.9		96.7	90 - 110	
Chloride	mg/L	3	3.1		103.3	90 - 110	
Fluoride	mg/L	2	2		100	90 - 110	
Fluoride	mg/L	2	2.1		105	90 - 110	
Fluoride	mg/L	2	2.1		105	90 - 110	
Fluoride	mg/L	2	2		100	90 - 110	
Fluoride	mg/L	2	2.1		105	90 - 110	
Fluoride	mg/L	2	2.1		105	90 - 110	
Fluoride	mg/L	2	2		100	90 - 110	
Fluoride	mg/L	2	2.1		105	90 - 110	
Fluoride	mg/L	2	2.1		105	90 - 110	
Phosphorus, Ortho	mg/L	5	5.4		108	90 - 110	
Phosphorus, Ortho	mg/L	5	5.5		110	90 - 110	
Phosphorus, Ortho	mg/L	5	5.5		110	90 - 110	
Phosphorus, Ortho	mg/L	5	5.4		108	90 - 110	
Phosphorus, Ortho	mg/L	5	5.5		110	90 - 110	
Phosphorus, Ortho	mg/L	5	5.5		110	90 - 110	
Phosphorus, Ortho	mg/L	5	5.4		108	90 - 110	
Phosphorus, Ortho	mg/L	5	5.5		110	90 - 110	
Phosphorus, Ortho	mg/L	5	5.5		110	90 - 110	
Nitrite	mg/L	3	2.9		96.7	90 - 110	
Nitrite	mg/L	3	2.9		96.7	90 - 110	
Nitrite	mg/L	3	3.1		103.3	90 - 110	
Nitrite	mg/L	3	2.9		96.7	90 - 110	
Nitrite	mg/L	3	2.9		96.7	90 - 110	
Nitrite	mg/L	3	3.1		103.3	90 - 110	
Nitrite	mg/L	3	2.9		96.7	90 - 110	
Nitrite	mg/L	3	2.9		96.7	90 - 110	



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86890

SDG No.: LB86890

Contract:

Lab Code: CHEM

Case No.: LB86890

SAS No.: LB86890

Analyte	Units	True Value	Result	C	%	Acceptance	M
					Recovery	Limits	
Nitrite	mg/L	3	3.1		103.3	90 - 110	
Nitrate	mg/L	2.5	2.4		96	90 - 110	
Nitrate	mg/L	2.5	2.5		100	90 - 110	
Nitrate	mg/L	2.5	2.6		104	90 - 110	
Nitrate	mg/L	2.5	2.4		96	90 - 110	
Nitrate	mg/L	2.5	2.5		100	90 - 110	
Nitrate	mg/L	2.5	2.6		104	90 - 110	
Nitrate	mg/L	2.5	2.4		96	90 - 110	
Nitrate	mg/L	2.5	2.5		100	90 - 110	
Nitrate	mg/L	2.5	2.6		104	90 - 110	
Sulfate	mg/L	15	14.2		94.7	90 - 110	
Sulfate	mg/L	15	14.5		96.7	90 - 110	
Sulfate	mg/L	15	15.2		101.3	90 - 110	
Sulfate	mg/L	15	14.2		94.7	90 - 110	
Sulfate	mg/L	15	14.5		96.7	90 - 110	
Sulfate	mg/L	15	15.2		101.3	90 - 110	
Sulfate	mg/L	15	14.2		94.7	90 - 110	
Sulfate	mg/L	15	14.5		96.7	90 - 110	
Sulfate	mg/L	15	15.2		101.3	90 - 110	