

Daily Analysis Runlog For Sequence/QC Batch ID # LB93112

Review By		Review On				
SubDirectory		LB93112		Test : Anions		

STD. NAME	STD REF.#
ICAL Standard	WP60967,WP60968,WP60969,WP60970,WP60971,WP60972,WP60973,WP60980
ICV Standard	WP60983
CCV Standard	WP61631
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP61632
Chk Standard	WP61542,WP61544

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	01/15/18 10:28		OK
2	STD2	STD2	CAL2	01/15/18 10:58		OK
3	STD3	STD3	CAL3	01/15/18 11:33		OK
4	STD4	STD4	CAL4	01/15/18 12:04		OK
5	STD5	STD5	CAL5	01/15/18 12:35		OK
6	STD6	STD6	CAL6	01/15/18 13:06		OK
7	STD7	STD7	CAL7	01/15/18 13:37		OK
8	ICV1	ICV1	ICV	01/15/18 15:11		OK
9	ICB1	ICB1	ICB	01/15/18 15:46		OK
10	CCV1	CCV1	CCV	02/05/18 12:11		OK
11	CCB1	CCB1	CCB	02/05/18 12:44		OK
12	LB93112BLW	LB93112BLW	MB	02/05/18 13:15		OK
13	LB93112BSW	LB93112BSW	LCS	02/05/18 14:06		OK
14	J1439-01	STERIGENICS-TUS	SAM	02/05/18 14:37		OK
15	J1439-01DUP	STERIGENICS-TUS	DUP	02/05/18 15:08		OK
16	J1439-01MS	STERIGENICS-TUS	MS	02/05/18 15:39		OK
17	CCV2	CCV2	CCV	02/05/18 16:10		OK
18	CCB2	CCB2	CCB	02/05/18 16:41		OK



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Report of Analysis

Client:		Date Collected:	1/29/2018 12:00:00 AM
Project:	LB93112	Date Received:	2/2/2018 12:00:00 AM
Client Sample ID:	STERIGENICS-TUSTIN-WATER-SAMPLE-29-JAN-2018	SDG No.:	LB93112
Lab Sample ID:	J1439-01	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		02/05/2018	300.0
	Chloride	0.7		1	0.075		0.15	mg/L		02/05/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		02/05/2018	300.0
	Nitrate	0.18		1	0.027		0.13	mg/L		02/05/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		02/05/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		02/05/2018	300.0
	Sulfate	1.4		1	0.13		0.75	mg/L		02/05/2018	300.0



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Report of Analysis

Client:		Date Collected:	1/29/2018 12:00:00 AM
Project:	LB93112	Date Received:	2/2/2018 12:00:00 AM
Client Sample ID:	STERIGENICS-TUSTIN-WATER-SAMPLE-29-JAN-2018	SDG No.:	LB93112
Lab Sample ID:	J1439-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

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



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93112

SDG No.: LB93112

Contract: _____ Lab Code: CHEM

Case No.: LB93112

SAS No.: LB93112

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Bromide	9.4	10	94		90 - 110		01/15/2018	15:11	LB93112
	Chloride	2.8	3	93.3		90 - 110		01/15/2018	15:11	LB93112
	Fluoride	1.9	2	95		90 - 110		01/15/2018	15:11	LB93112
	Phosphorus, Ortho	5	5	100		90 - 110		01/15/2018	15:11	LB93112
	Nitrite	2.8	3	93.3		90 - 110		01/15/2018	15:11	LB93112
	Nitrate	2.4	2.5	96		90 - 110		01/15/2018	15:11	LB93112
	Sulfate	14	15	93.3		90 - 110		01/15/2018	15:11	LB93112



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93112

SDG No.: LB93112

Contract: _____ Lab Code: CHEM

Case No.: LB93112

SAS No.: LB93112

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Bromide	9.3	10	93		90 - 110		02/05/2018	12:11	LB93112
	Chloride	2.8	3	93.3		90 - 110		02/05/2018	12:11	LB93112
	Fluoride	1.8	2	90		90 - 110		02/05/2018	12:11	LB93112
	Phosphorus, Ortho	4.6	5	92		90 - 110		02/05/2018	12:11	LB93112
	Nitrite	2.8	3	93.3		90 - 110		02/05/2018	12:11	LB93112
	Nitrate	2.3	2.5	92		90 - 110		02/05/2018	12:11	LB93112
	Sulfate	13.8	15	92		90 - 110		02/05/2018	12:11	LB93112
CCV2	Bromide	9.3	10	93		90 - 110		02/05/2018	16:10	LB93112
	Chloride	2.8	3	93.3		90 - 110		02/05/2018	16:10	LB93112
	Fluoride	1.9	2	95		90 - 110		02/05/2018	16:10	LB93112
	Phosphorus, Ortho	5.1	5	102		90 - 110		02/05/2018	16:10	LB93112
	Nitrite	2.8	3	93.3		90 - 110		02/05/2018	16:10	LB93112
	Nitrate	2.3	2.5	92		90 - 110		02/05/2018	16:10	LB93112
	Sulfate	14.2	15	94.7		90 - 110		02/05/2018	16:10	LB93112

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		01/15/2018	15:46	LB93112
	Chloride	0.075	+/-0.15	U		0.15		01/15/2018	15:46	LB93112
	Fluoride	0.043	+/-0.1	U		0.1		01/15/2018	15:46	LB93112
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		01/15/2018	15:46	LB93112
	Nitrite	0.022	+/-0.15	U		0.15		01/15/2018	15:46	LB93112
	Nitrate	0.027	+/-0.13	U		0.13		01/15/2018	15:46	LB93112
	Sulfate	0.13	+/-0.75	U		0.75		01/15/2018	15:46	LB93112

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		02/05/2018	12:44	LB93112
	Chloride	0.075	+/-0.15	U		0.15		02/05/2018	12:44	LB93112
	Fluoride	0.043	+/-0.1	U		0.1		02/05/2018	12:44	LB93112
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		02/05/2018	12:44	LB93112
	Nitrite	0.022	+/-0.15	U		0.15		02/05/2018	12:44	LB93112
	Nitrate	0.027	+/-0.13	U		0.13		02/05/2018	12:44	LB93112
	Sulfate	0.13	+/-0.75	U		0.75		02/05/2018	12:44	LB93112
CCB2	Bromide	0.066	+/-0.5	U		0.5		02/05/2018	16:41	LB93112
	Chloride	0.075	+/-0.15	U		0.15		02/05/2018	16:41	LB93112
	Fluoride	0.043	+/-0.1	U		0.1		02/05/2018	16:41	LB93112
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		02/05/2018	16:41	LB93112
	Nitrite	0.022	+/-0.15	U		0.15		02/05/2018	16:41	LB93112
	Nitrate	0.027	+/-0.13	U		0.13		02/05/2018	16:41	LB93112
	Sulfate	0.13	+/-0.75	U		0.75		02/05/2018	16:41	LB93112



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93112

SDG No.: LB93112

Contract: Lab Code: CHEM

Case No.: LB93112

SAS No.: LB93112

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

Client: LB93112

SDG No.: LB93112

Instrument: IC-2

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB93112BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		02/05/2018	13:15	LB93112
	Chloride	0.075	<0.15	U		0.15		02/05/2018	13:15	LB93112
	Fluoride	0.043	<0.1	U		0.1		02/05/2018	13:15	LB93112
	Phosphorus, Ortho	0.01	<0.25	U		0.25		02/05/2018	13:15	LB93112
	Nitrite	0.022	<0.15	U		0.15		02/05/2018	13:15	LB93112
	Nitrate	0.027	<0.13	U		0.13		02/05/2018	13:15	LB93112
	Sulfate	0.13	<0.75	U		0.75		02/05/2018	13:15	LB93112



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- 5a -
MATRIX SPIKE SUMMARY

client: LB93112 level: low sdg no.: LB93112
contract: lab code: CHEM case no.: LB93112 sas no.: LB93112
matrix: WATER sample id: J1439-01 client id: STERIGENICS-TUSTIN-WATER-SAMPLE-29-JA
Percent Solids for Sample: 0 Spiked ID: J1439-01MS 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	9.3		0.066	U	10	93		
Chloride	mg/L	80 - 120	3.4		0.7		3	90		
Fluoride	mg/L	80 - 120	1.8		0.043	U	2	90		
Phosphorus, Ortho	mg/L	80 - 120	4.9		0.01	U	5	98		
Nitrite	mg/L	80 - 120	2.8		0.022	U	3	93.3		
Nitrate	mg/L	80 - 120	2.4		0.18		2.5	89		
Sulfate	mg/L	80 - 120	15.3		1.4		15	93		

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93112 **Level:** LOW **SDG No.:** LB93112
Contract: _____ **Lab Code:** CHEM **Case No.:** LB93112 **SAS No.:** LB93112
Matrix: WATER **Sample ID:** J1439-01 **Client ID:** STERIGENICS-TUSTIN-WATER-SAMPLE-29-JA
Percent Solids for Sample: 0 **Duplicate ID** J1439-01DUP **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	0.7		0.7		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	0.18		0.18		0		
Sulfate	mg/L	20	1.4		1.4		0		



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- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93112

SDG No.: LB93112

Contract:

Lab Code: CHEM

Case No.: LB93112

SAS No.: LB93112

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB93112BSW							
Bromide	mg/L	10	9.2		92	90 - 110	
Chloride	mg/L	3	2.8		93.3	90 - 110	
Fluoride	mg/L	2	1.8		90	90 - 110	
Phosphorus, Ortho	mg/L	5	4.8		96	90 - 110	
Nitrite	mg/L	3	2.8		93.3	90 - 110	
Nitrate	mg/L	2.5	2.3		92	90 - 110	
Sulfate	mg/L	15	14.4		96	90 - 110	
