

Daily Analysis Runlog For Sequence/QC Batch ID # LB91331

Review By		Review On				
SubDirectory		LB91331		Test : TOC		
STD. NAME		STD REF.#				
ICAL Standard		WP58465,WP58466,WP58467,WP58468,WP58469,WP58470,WP58471,WP58473				
ICV Standard		WP58474				
CCV Standard		WP58472				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58474				
Chk Standard		WP57902				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPM	0.0PPM	CAL1	10/03/17 11:46		OK
2	0.5PPM	0.5PPM	CAL2	10/03/17 11:59		OK
3	1.0PPM	1.0PPM	CAL3	10/03/17 12:12		OK
4	2.0PPM	2.0PPM	CAL4	10/03/17 12:25		OK
5	5.0PPM	5.0PPM	CAL5	10/03/17 12:38		OK
6	10.0PPM	10.0PPM	CAL6	10/03/17 12:51		OK
7	20.0PPM	20.0PPM	CAL7	10/03/17 13:05		OK
8	ICV1	ICV1	ICV	10/03/17 13:50		OK
9	ICB1	ICB1	ICB	10/03/17 14:16		OK
10	CCV1	CCV1	CCV	11/03/17 11:56		OK
11	CCB1	CCB1	CCB	11/03/17 12:09		OK
12	LB91331BLW	LB91331BLW	MB	11/03/17 12:28		OK
13	LB91331BSW	LB91331BSW	LCS	11/03/17 12:46		OK
14	I6115-01	STORM-DRAIN	SAM	11/03/17 13:05		OK
15	I6160-01	RLF-SW-1	SAM	11/03/17 13:22		OK
16	I6160-02	RLF-SW-3	SAM	11/03/17 13:40		OK
17	I6160-03	RLF-SW-4	SAM	11/03/17 13:57		OK
18	I6160-04	RLF-SW-5	SAM	11/03/17 14:15		OK
19	I6160-05	RLF-SW-6	SAM	11/03/17 14:33		OK
20	I6160-06	RLF-FD-02	SAM	11/03/17 14:50		OK
21	I6143-01	RLF-GW-7S	SAM	11/03/17 15:09	High	Dilution

Daily Analysis Runlog For Sequence/QC Batch ID # LB91331

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STD. NAME		STD REF.#				
ICAL Standard		WP58465,WP58466,WP58467,WP58468,WP58469,WP58470,WP58471,WP58473				
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CCV Standard		WP58472				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58474				
Chk Standard		WP57902				
22	CCV2	CCV2	CCV	11/03/17 15:23		OK
23	CCB2	CCB2	CCB	11/03/17 15:49		OK
24	I6143-02	RLF-GW-9S	SAM	11/03/17 16:06		OK
25	I6143-06	RLF-FD-01	SAM	11/03/17 16:25	High	Dilution
26	I6143-02DUP	RLF-GW-9SDUP	DUP	11/03/17 16:43		OK
27	I6143-02MS	RLF-GW-9SMS	MS	11/03/17 17:02		OK
28	I6143-02MSD	RLF-GW-9SMSD	MSD	11/03/17 17:20		OK
29	I6143-01DL	RLF-GW-7SDL	SAM	11/03/17 17:38	2X Dilution	Confirms
30	I6143-06DL	RLF-FD-01DL	SAM	11/03/17 17:57	2X Dilution	Confirms
31	CCV3	CCV3	CCV	11/03/17 18:11		OK
32	CCB3	CCB3	CCB	11/03/17 18:23		OK



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Report of Analysis

Client:		Date Collected:	10/24/2017 12:00:00 AM
Project:	LB91331	Date Received:	10/24/2017 12:00:00 AM
Client Sample ID:	STORM-DRAIN	SDG No.:	LB91331
Lab Sample ID:	I6115-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	17.8		1	0.08		0.5	mg/L		11/03/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	10/24/2017 12:00:00 AM
Project:	LB91331	Date Received:	10/25/2017 12:00:00 AM
Client Sample ID:	RLF-GW-7S	SDG No.:	LB91331
Lab Sample ID:	I6143-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	24.6	OR	1	0.08		0.5	mg/L		11/03/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	10/24/2017 12:00:00 AM
Project:	LB91331	Date Received:	10/25/2017 12:00:00 AM
Client Sample ID:	RLF-GW-7SDL	SDG No.:	LB91331
Lab Sample ID:	I6143-01DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	25.5	D	2	0.16		1	mg/L		11/03/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	10/24/2017 12:00:00 AM
Project:	LB91331	Date Received:	10/25/2017 12:00:00 AM
Client Sample ID:	RLF-GW-9S	SDG No.:	LB91331
Lab Sample ID:	I6143-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	9.1		1	0.08		0.5	mg/L		11/03/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	10/24/2017 12:00:00 AM
Project:	LB91331	Date Received:	10/25/2017 12:00:00 AM
Client Sample ID:	RLF-FD-01	SDG No.:	LB91331
Lab Sample ID:	I6143-06	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	25.5	OR	1	0.08		0.5	mg/L		11/03/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	10/24/2017 12:00:00 AM
Project:	LB91331	Date Received:	10/25/2017 12:00:00 AM
Client Sample ID:	RLF-FD-01DL	SDG No.:	LB91331
Lab Sample ID:	I6143-06DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	24.6	D	2	0.16		1	mg/L		11/03/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91331	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	RLF-SW-1	SDG No.:	LB91331
Lab Sample ID:	I6160-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	5.1		1	0.08		0.5	mg/L		11/03/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91331	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	RLF-SW-3	SDG No.:	LB91331
Lab Sample ID:	I6160-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	4.2		1	0.08		0.5	mg/L		11/03/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91331	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	RLF-SW-4	SDG No.:	LB91331
Lab Sample ID:	I6160-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	8.1		1	0.08		0.5	mg/L		11/03/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91331	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	RLF-SW-5	SDG No.:	LB91331
Lab Sample ID:	I6160-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	8.8		1	0.08		0.5	mg/L		11/03/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91331	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	RLF-SW-6	SDG No.:	LB91331
Lab Sample ID:	I6160-05	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	4.6		1	0.08		0.5	mg/L		11/03/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91331	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	RLF-FD-02	SDG No.:	LB91331
Lab Sample ID:	I6160-06	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	4.5		1	0.08		0.5	mg/L		11/03/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91331	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	RLF-FD-02	SDG No.:	LB91331
Lab Sample ID:	I6160-06	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



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB91331

SDG No.: LB91331

Contract: _____ Lab Code: CHEM

Case No.: LB91331 SAS No.: LB91331

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	TOC	10.9	10	109	0	90 - 110		10/03/2017	13:50	LB91331



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB91331

SDG No.: LB91331

Contract: _____ Lab Code: CHEM

Case No.: LB91331

SAS No.: LB91331

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	TOC	10.7	10	107	0	90 - 110		11/03/2017	11:56	LB91331
CCV2	TOC	10.4	10	104	0	90 - 110		11/03/2017	15:23	LB91331
CCV3	TOC	10.6	10	106	0	90 - 110		11/03/2017	18:11	LB91331



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91331

SDG No.: LB91331

Contract:

Lab Code: CHEM

Case No.: LB91331

SAS No.: LB91331

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	TOC	0.21	+/-0.5	J			0.5	10/03/2017	14:16	LB91331



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91331

SDG No.: LB91331

Contract:

Lab Code: CHEM

Case No.: LB91331

SAS No.: LB91331

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	TOC	0.27	+/-0.5	J			0.5	11/03/2017	12:09	LB91331
CCB2	TOC	0.38	+/-0.5	J			0.5	11/03/2017	15:49	LB91331
CCB3	TOC	0.34	+/-0.5	J			0.5	11/03/2017	18:23	LB91331



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91331

SDG No.: LB91331

Contract: Lab Code: CHEM

Case No.: LB91331

SAS No.: LB91331

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: LB91331

SDG No.: LB91331

Instrument: Appolo-9000

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB91331BLW	TOC	WATER 0.15	<0.5	Batch Number: J		0.5		Prep Date: 11/03/2017	12:28	LB91331



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91331 level: low sdg no.: LB91331
contract: lab code: CHEM case no.: LB91331 sas no.: LB91331
matrix: WATER sample id: I6143-02 client id: RLF-GW-9SMS
Percent Solids for Sample: 0 Spiked ID: I6143-02MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TOC	mg/L	75 - 125	17.8		9.1		10	87		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91331 level: low sdg no.: LB91331
contract: lab code: CHEM case no.: LB91331 sas no.: LB91331
matrix: WATER sample id: I6143-02 client id: RLF-GW-9SMSD
Percent Solids for Sample: 0 Spiked ID: I6143-02MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TOC	mg/L	75 - 125	17.4		9.1		10	83		



GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91331 Level: LOW SDG No.: LB91331
Contract: _____ Lab Code: CHEM Case No.: LB91331 SAS No.: LB91331
Matrix: WATER Sample ID: I6143-02 Client ID: RLF-GW-9SDUP
Percent Solids for Sample: 0 Duplicate ID I6143-02DUP Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TOC	mg/L	20	9.1		9.5		4		

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”



GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91331 **Level:** LOW **SDG No.:** LB91331
Contract: **Lab Code:** CHEM **Case No.:** LB91331 **SAS No.:** LB91331
Matrix: WATER **Sample ID:** I6143-02MS **Client ID:** RLF-GW-9SMSD
Percent Solids for Sample: 0 **Duplicate ID** I6143-02MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TOC	mg/L	20	17.8		17.4		2		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91331

SDG No.: LB91331

Contract:

Lab Code: CHEM

Case No.: LB91331

SAS No.: LB91331

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB91331BSW TOC	mg/L	10	10.5		105	90 - 110	