

Report of Analysis

Client:		Date Collected:	1/19/2018 12:00:00 AM
Project:	LB92793	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	RT-3992	SDG No.:	LB92793
Lab Sample ID:	J1210-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00066	U	1	0.025		0.05	mg/Kg	01/22/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/19/2018 12:00:00 AM
Project:	LB92793	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	RT-4248	SDG No.:	LB92793
Lab Sample ID:	J1210-06	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0007	U	1	0.025		0.05	mg/Kg	01/22/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/19/2018 12:00:00 AM
Project:	LB92793	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	R-4220	SDG No.:	LB92793
Lab Sample ID:	J1210-09	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00049	U	1	0.025		0.05	mg/Kg	01/22/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/19/2018 12:00:00 AM
Project:	LB92793	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	RT-2898	SDG No.:	LB92793
Lab Sample ID:	J1210-12	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00011	U	1	0.025		0.05	mg/Kg	01/22/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/19/2018 12:00:00 AM
Project:	LB92793	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	OILY-STONES	SDG No.:	LB92793
Lab Sample ID:	J1212-04	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0014	U	1	0.025		0.05	mg/Kg	01/22/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/19/2018 12:00:00 AM
Project:	LB92793	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	MANHOLE	SDG No.:	LB92793
Lab Sample ID:	J1213-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0001	U	1	0.0025		0.005	mg/L	01/22/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/18/2018 12:00:00 AM
Project:	LB92793	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	WC-PH3-MGP-01	SDG No.:	LB92793
Lab Sample ID:	J1214-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00098	U	1	0.025		0.049	mg/Kg	01/22/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/18/2018 12:00:00 AM
Project:	LB92793	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	WC-PH3-MGP-02	SDG No.:	LB92793
Lab Sample ID:	J1214-04	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00027	U	1	0.025		0.05	mg/Kg	01/22/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/19/2018 12:00:00 AM
Project:	LB92793	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	OILY-GRAVEL	SDG No.:	LB92793
Lab Sample ID:	J1218-02	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00016	U	1	0.025		0.05	mg/Kg	01/22/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/19/2018 12:00:00 AM
Project:	LB92793	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	EXCAVATION	SDG No.:	LB92793
Lab Sample ID:	J1230-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0001	U	1	0.0025		0.005	mg/L	01/22/2018	01/23/2018	9012B

Report of Analysis

Client:		Date Collected:	1/18/2018 12:00:00 AM
Project:	LB92793	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	SB-01-COMP	SDG No.:	LB92793
Lab Sample ID:	J1238-09	Matrix:	Solid
Level (low/med):	low	% Solid:	85.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0019	U	1	0.025		0.05	mg/Kg	01/22/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/19/2018 12:00:00 AM
Project:	LB92793	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	SB-02-COMP	SDG No.:	LB92793
Lab Sample ID:	J1238-11	Matrix:	Solid
Level (low/med):	low	% Solid:	88.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0019	U	1	0.025		0.05	mg/Kg	01/22/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/19/2018 12:00:00 AM
Project:	LB92793	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	SB-03-COMP	SDG No.:	LB92793
Lab Sample ID:	J1238-13	Matrix:	Solid
Level (low/med):	low	% Solid:	85.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00025	U	1	0.025		0.05	mg/Kg	01/22/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/19/2018 12:00:00 AM
Project:	LB92793	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	SB-04-COMP	SDG No.:	LB92793
Lab Sample ID:	J1238-15	Matrix:	Solid
Level (low/med):	low	% Solid:	73.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0011	U	1	0.025		0.05	mg/Kg	01/22/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/19/2018 12:00:00 AM
Project:	LB92793	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	SB-05-COMP	SDG No.:	LB92793
Lab Sample ID:	J1238-17	Matrix:	Solid
Level (low/med):	low	% Solid:	83.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0012	U	1	0.025		0.05	mg/Kg	01/22/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/19/2018 12:00:00 AM
Project:	LB92793	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	SB-06-COMP	SDG No.:	LB92793
Lab Sample ID:	J1238-19	Matrix:	Solid
Level (low/med):	low	% Solid:	91.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0003	U	1	0.025		0.05	mg/Kg	01/22/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/19/2018 12:00:00 AM
Project:	LB92793	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	SB-06-COMP-DUP	SDG No.:	LB92793
Lab Sample ID:	J1238-21	Matrix:	Solid
Level (low/med):	low	% Solid:	84.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0012	U	1	0.025		0.05	mg/Kg	01/22/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/19/2018 12:00:00 AM
Project:	LB92793	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	SB-07-COMP	SDG No.:	LB92793
Lab Sample ID:	J1238-23	Matrix:	Solid
Level (low/med):	low	% Solid:	87.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0013	U	1	0.025		0.05	mg/Kg	01/22/2018	01/23/2018	9012B



Report of Analysis

Client:		Date Collected:	1/19/2018 12:00:00 AM
Project:	LB92793	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	SB-07-COMP	SDG No.:	LB92793
Lab Sample ID:	J1238-23	Matrix:	Solid
Level (low/med):	low	% Solid:	87.6

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: LB92793

SDG No.: LB92793

Contract: _____ Lab Code: CHEM

Case No.: LB92793

SAS No.: LB92793

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	Reactive Cyanide	0.096	0.099	97		85 - 115		01/23/2018	11:29	LB92793



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92793

SDG No.: LB92793

Contract: _____ Lab Code: CHEM

Case No.: LB92793

SAS No.: LB92793

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	Reactive Cyanide	0.25	0.25	100		90 - 110		01/23/2018	11:29	LB92793
CCV2	Reactive Cyanide	0.25	0.25	100		90 - 110		01/23/2018	11:37	LB92793
CCV3	Reactive Cyanide	0.25	0.25	100		90 - 110		01/23/2018	11:44	LB92793
CCV4	Reactive Cyanide	0.27	0.25	108		90 - 110		01/23/2018	12:10	LB92793



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92793

SDG No.: LB92793

Contract:

Lab Code: CHEM

Case No.: LB92793

SAS No.: LB92793

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.0002	+/-0.005	U		0.005		01/23/2018	11:29	LB92793



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92793

SDG No.: LB92793

Contract:

Lab Code: CHEM

Case No.: LB92793

SAS No.: LB92793

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.00014	+/-0.005	U		0.005		01/23/2018	11:29	LB92793
CCB2	Reactive Cyanide	-0.00014	+/-0.005	U		0.005		01/23/2018	11:37	LB92793
CCB3	Reactive Cyanide	-0	+/-0.005	U		0.005		01/23/2018	11:44	LB92793
CCB4	Reactive Cyanide	0.00013	+/-0.005	U		0.005		01/23/2018	12:10	LB92793



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92793

SDG No.: LB92793

Contract: Lab Code: CHEM

Case No.: LB92793

SAS No.: LB92793

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: LB92793

SDG No.: LB92793

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB105846BL	Reactive Cyanide	SOLID		Batch Number:		PB105846		Prep Date:	01/22/2018	
		-0.0026	<0.05	U		0.05		01/23/2018	11:29	LB92793
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB105848BL	Reactive Cyanide	WATER		Batch Number:		PB105848		Prep Date:	01/22/2018	
		-0.00038	<0.005	U		0.005		01/23/2018	12:10	LB92793

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB92793 Level: LOW SDG No.: LB92793
Contract: _____ Lab Code: CHEM Case No.: LB92793 SAS No.: LB92793
Matrix: Solid Sample ID: J1210-03 Client ID: RT-3992DUP
Percent Solids for Sample: 100 Duplicate ID J1210-03DUP Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	-0.0014	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB92793 **Level:** LOW **SDG No.:** LB92793
Contract: **Lab Code:** CHEM **Case No.:** LB92793 **SAS No.:** LB92793
Matrix: WATER **Sample ID:** J1213-04 **Client ID:** MANHOLEDUP
Percent Solids for Sample: 0 **Duplicate ID** J1213-04DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/L	20	0.0025	U	0.00015	U			

Daily Analysis Runlog For Sequence/QC Batch ID # LB92793

Review By		Review On				
SubDirectory		LB92793		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP61179,WP61180,WP61181,WP61182,WP61183,WP61184,WP61185				
ICV Standard		WP61187				
CCV Standard		WP61186				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP61188,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	01/23/18 10:06		OK
2	5.0PPBCN	5.0PPBCN	CAL2	01/23/18 10:06		OK
3	10PPBCN	10PPBCN	CAL3	01/23/18 10:06		OK
4	50PPBCN	50PPBCN	CAL4	01/23/18 10:06		OK
5	100PPBCN	100PPBCN	CAL5	01/23/18 10:06		OK
6	250PPBCN	250PPBCN	CAL6	01/23/18 10:06		OK
7	500PPBCN	500PPBCN	CAL7	01/23/18 10:06		OK
8	ICV1	ICV1	ICV	01/23/18 11:29		OK
9	ICB1	ICB1	ICB	01/23/18 11:29		OK
10	CCV1	CCV1	CCV	01/23/18 11:29		OK
11	CCB1	CCB1	CCB	01/23/18 11:29		OK
12	PB105846BL	PB105846BL	MB	01/23/18 11:29		OK
13	J1210-03	RT-3992	SAM	01/23/18 11:29		OK
14	J1210-03DUP	RT-3992DUP	DUP	01/23/18 11:29		OK
15	J1210-06	RT-4248	SAM	01/23/18 11:29		OK
16	J1210-09	R-4220	SAM	01/23/18 11:29		OK
17	J1212-04	OILY-STONES	SAM	01/23/18 11:29		OK
18	J1214-03	WC-PH3-MGP-01	SAM	01/23/18 11:37		OK
19	J1214-04	WC-PH3-MGP-02	SAM	01/23/18 11:37		OK
20	J1218-02	OILY-GRAVEL	SAM	01/23/18 11:37		OK
21	CCV2	CCV2	CCV	01/23/18 11:37		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB92793

Review By		Review On				
SubDirectory		LB92793		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP61179,WP61180,WP61181,WP61182,WP61183,WP61184,WP61185				
ICV Standard		WP61187				
CCV Standard		WP61186				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP61188,WP59958,WP60878				
22	CCB2	CCB2	CCB	01/23/18 11:37		OK
23	J1238-09	SB-01-COMP	SAM	01/23/18 11:37		OK
24	J1238-11	SB-02-COMP	SAM	01/23/18 11:37		OK
25	J1238-13	SB-03-COMP	SAM	01/23/18 11:37		OK
26	J1238-15	SB-04-COMP	SAM	01/23/18 11:37		OK
27	J1238-19	SB-06-COMP	SAM	01/23/18 11:37		OK
28	J1238-21	SB-06-COMP-DUP	SAM	01/23/18 11:37		OK
29	J1238-17	SB-05-COMP	SAM	01/23/18 11:44		OK
30	J1238-23	SB-07-COMP	SAM	01/23/18 11:44		OK
31	CCV3	CCV3	CCV	01/23/18 11:44		OK
32	CCB3	CCB3	CCB	01/23/18 11:44		OK
33	J1213-04	MANHOLE	SAM	01/23/18 11:44		OK
34	J1213-04DUP	MANHOLEDUP	DUP	01/23/18 11:44		OK
35	J1230-04	EXCAVATION	SAM	01/23/18 11:44		OK
36	J1210-12	RT-2898	SAM	01/23/18 12:10		OK
37	PB105848BL	PB105848BL	MB	01/23/18 12:10		OK
38	CCV4	CCV4	CCV	01/23/18 12:10		OK
39	CCB4	CCB4	CCB	01/23/18 12:10		OK