

Daily Analysis Runlog For Sequence/QC Batch ID # LB88403

Review By		Review On				
SubDirectory		LB88403		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP55999,WP56000,WP56001,WP56002,WP56003,WP56004,WP56005,WP56006				
ICV Standard		W1541				
CCV Standard		WP56008				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP56007,WP55836,WP55355				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/28/17 11:55		OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/28/17 11:55		OK
3	10PPBCN	10PPBCN	CAL3	06/28/17 11:55		OK
4	50PPBCN	50PPBCN	CAL4	06/28/17 11:56		OK
5	100PPBCN	100PPBCN	CAL5	06/28/17 11:56		OK
6	250PPBCN	250PPBCN	CAL6	06/28/17 11:56		OK
7	500PPBCN	500PPBCN	CAL7	06/28/17 11:56		OK
8	ICV1	ICV1	ICV	06/28/17 12:39		OK
9	ICB1	ICB1	ICB	06/28/17 12:39		OK
10	CCV1	CCV1	CCV	06/28/17 12:39		OK
11	CCB1	CCB1	CCB	06/28/17 12:39		OK
12	PB100213BL	PB100213BL	MB	06/28/17 12:39		OK
13	PB100213BS	PB100213BS	LCS	06/28/17 12:39		OK
14	LOWPB100213	LOWPB100213	SAM	06/28/17 12:39		OK
15	HIGHPB100213	HIGHPB100213	SAM	06/28/17 12:39		OK
16	I3920-01	OB-1	SAM	06/28/17 12:39		OK
17	I3920-01DUP	OB-1DUP	DUP	06/28/17 12:39		OK
18	I3920-01MS	OB-1MS	MS	06/28/17 12:39		OK
19	I3920-01MSD	OB-1MSD	MSD	06/28/17 12:47		OK
20	I3920-02	OB-2	SAM	06/28/17 12:47		OK
21	I3920-03	OB-3	SAM	06/28/17 12:47		OK

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Review By		Review On				
SubDirectory		LB88403		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP55999,WP56000,WP56001,WP56002,WP56003,WP56004,WP56005,WP56006				
ICV Standard		W1541				
CCV Standard		WP56008				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP56007,WP55836,WP55355				
22	CCV2	CCV2	CCV	06/28/17 12:47		OK
23	CCB2	CCB2	CCB	06/28/17 12:47		OK
24	I3920-04	OB-4	SAM	06/28/17 12:47		OK
25	I3927-01	SB24-SUPPL	SAM	06/28/17 12:47		OK
26	I3927-02	SB27-SUPPL	SAM	06/28/17 12:47		OK
27	I3928-04	E2-CONCRETE-BAT	SAM	06/28/17 12:47		OK
28	CCV3	CCV3	CCV	06/28/17 12:47		OK
29	CCB3	CCB3	CCB	06/28/17 12:47		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB88403	Date Received:	
Client Sample ID:	HIGHPB100213	SDG No.:	LB88403
Lab Sample ID:	HIGHPB100213	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.48		1	0.003		0.005	mg/L		06/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/23/2017 12:00:00 AM
Project:	LB88403	Date Received:	6/24/2017 12:00:00 AM
Client Sample ID:	OB-1	SDG No.:	LB88403
Lab Sample ID:	I3920-01	Matrix:	Solid
Level (low/med):	low	% Solid:	85.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.15	J	1	0.037		0.28	mg/Kg	06/27/2017	06/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/23/2017 12:00:00 AM
Project:	LB88403	Date Received:	6/24/2017 12:00:00 AM
Client Sample ID:	OB-2	SDG No.:	LB88403
Lab Sample ID:	I3920-02	Matrix:	Solid
Level (low/med):	low	% Solid:	85.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.056	U	1	0.037		0.28	mg/Kg	06/27/2017	06/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/23/2017 12:00:00 AM
Project:	LB88403	Date Received:	6/24/2017 12:00:00 AM
Client Sample ID:	OB-3	SDG No.:	LB88403
Lab Sample ID:	I3920-03	Matrix:	Solid
Level (low/med):	low	% Solid:	83

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.013	U	1	0.038		0.29	mg/Kg	06/27/2017	06/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/23/2017 12:00:00 AM
Project:	LB88403	Date Received:	6/24/2017 12:00:00 AM
Client Sample ID:	OB-4	SDG No.:	LB88403
Lab Sample ID:	I3920-04	Matrix:	Solid
Level (low/med):	low	% Solid:	81.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0096	U	1	0.039		0.29	mg/Kg	06/27/2017	06/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/23/2017 12:00:00 AM
Project:	LB88403	Date Received:	6/23/2017 12:00:00 AM
Client Sample ID:	SB24-SUPPL	SDG No.:	LB88403
Lab Sample ID:	I3927-01	Matrix:	Solid
Level (low/med):	low	% Solid:	91.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.026	U	1	0.034		0.26	mg/Kg	06/27/2017	06/28/2017	9012B

Report of Analysis

Client:		Date Collected:	6/23/2017 12:00:00 AM
Project:	LB88403	Date Received:	6/23/2017 12:00:00 AM
Client Sample ID:	SB27-SUPPL	SDG No.:	LB88403
Lab Sample ID:	I3927-02	Matrix:	Solid
Level (low/med):	low	% Solid:	93.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.021	U	1	0.034		0.26	mg/Kg	06/27/2017	06/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/26/2017 12:00:00 AM
Project:	LB88403	Date Received:	6/26/2017 12:00:00 AM
Client Sample ID:	E2-CONCRETE-BATCH-14	SDG No.:	LB88403
Lab Sample ID:	I3928-04	Matrix:	Solid
Level (low/med):	low	% Solid:	94.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.037	U	1	0.034		0.25	mg/Kg	06/27/2017	06/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB88403	Date Received:	
Client Sample ID:	LOWPB100213	SDG No.:	LB88403
Lab Sample ID:	LOWPB100213	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0089		1	0.003		0.005	mg/L		06/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB88403	Date Received:	
Client Sample ID:	LOWPB100213	SDG No.:	LB88403
Lab Sample ID:	LOWPB100213	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

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB88403

SDG No.: LB88403

Contract: _____ Lab Code: CHEM

Case No.: LB88403

SAS No.: LB88403

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	Cyanide	0.24	0.25	96	0	90 - 110		06/28/2017	12:39	LB88403
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		06/28/2017	12:47	LB88403
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		06/28/2017	12:47	LB88403



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88403

SDG No.: LB88403

Contract: _____

Lab Code: CHEM

Case No.: LB88403

SAS No.: LB88403

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.0001	+/-0.005	U		0.005		06/28/2017	12:39	LB88403



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88403

SDG No.: LB88403

Contract:

Lab Code: CHEM

Case No.: LB88403

SAS No.: LB88403

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.0001	+/-0.005	U		0.005		06/28/2017	12:39	LB88403
CCB2	Cyanide	0.00034	+/-0.005	U		0.005		06/28/2017	12:47	LB88403
CCB3	Cyanide	0.00098	+/-0.005	U		0.005		06/28/2017	12:47	LB88403



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88403

SDG No.: LB88403

Contract: Lab Code: CHEM

Case No.: LB88403

SAS No.: LB88403

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: LB88403

SDG No.: LB88403

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
PB100213BL	Cyanide	SOLID 0.043	<0.25	Batch Number: J		PB100213 0.25		Prep Date: 06/28/2017	06/27/2017 12:39	LB88403



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB88403 level: low sdg no.: LB88403
contract: lab code: CHEM case no.: LB88403 sas no.: LB88403
matrix: Solid sample id: I3920-01 client id: OB-1MS
Percent Solids for Sample: 85.5 Spiked ID: I3920-01MS Percent Solids for Spike Sample: 85.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.15	J	2.3	67	*	

GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>LB88403</u>	level: <u>low</u>	sdg no.: <u>LB88403</u>
contract: _____	lab code: <u>CHEM</u>	case no.: <u>LB88403</u> sas no.: <u>LB88403</u>
matrix: <u>Solid</u>	sample id: <u>I3920-01</u>	client id: <u>OB-1MSD</u>
Percent Solids for Sample: 85.5	Spiked ID: I3920-01MSD	Percent Solids for Spike Sample: 85.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.5		0.15	J	2.2	61	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB88403 **Level:** LOW **SDG No.:** LB88403
Contract: **Lab Code:** CHEM **Case No.:** LB88403 **SAS No.:** LB88403
Matrix: Solid **Sample ID:** I3920-01 **Client ID:** OB-1DUP
Percent Solids for Sample: 85.5 **Duplicate ID** I3920-01DUP **Percent Solids for Spike Sample:** 85.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.15	J	0.12	J	22	*	

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Client: LB88403 **Level:** LOW **SDG No.:** LB88403
Contract: **Lab Code:** CHEM **Case No.:** LB88403 **SAS No.:** LB88403
Matrix: Solid **Sample ID:** I3920-01MS **Client ID:** OB-1MSD
Percent Solids for Sample: 85.5 **Duplicate ID** I3920-01MSD **Percent Solids for Spike Sample:** 85.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.7		1.5		12		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB88403

SDG No.: LB88403

Contract:

Lab Code: CHEM

Case No.: LB88403

SAS No.: LB88403

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB100213BS Cyanide	mg/Kg	4.9	4.7		95.9	85 - 115	