

Daily Analysis Runlog For Sequence/QC Batch ID # LB88527

Review By

Review On

SubDirectory

LB88527

Test :

Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP56129,WP56130,WP56131,WP56132,WP56133,WP56134,WP56135,WP56136
ICV Standard	W1541
CCV Standard	WP56138
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP54521
Chk Standard	WP56137,WP55836,WP55355

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	07/05/17 09:19		OK
2	5.0PPBCN	5.0PPBCN	CAL2	07/05/17 09:19		OK
3	10PPBCN	10PPBCN	CAL3	07/05/17 09:19		OK
4	50PPBCN	50PPBCN	CAL4	07/05/17 09:19		OK
5	100PPBCN	100PPBCN	CAL5	07/05/17 09:19		OK
6	250PPBCN	250PPBCN	CAL6	07/05/17 09:19		OK
7	500PPBCN	500PPBCN	CAL7	07/05/17 09:19		OK
8	ICV1	ICV1	ICV	07/05/17 13:30		OK
9	ICB1	ICB1	ICB	07/05/17 13:30		OK
10	CCV1	CCV1	CCV	07/05/17 13:30		OK
11	CCB1	CCB1	CCB	07/05/17 13:30		OK
12	PB100378BL	PB100378BL	MB	07/05/17 13:30		OK
13	PB100378BS	PB100378BS	LCS	07/05/17 13:30		OK
14	HIGHPB100378	HIGHPB100378	SAM	07/05/17 13:30		OK
15	I4000-01	A1273-FT	SAM	07/05/17 13:30		OK
16	I4000-01DUP	A1273-FTDUP	DUP	07/05/17 13:30		OK
17	I4000-01MS	A1273-FTMS	MS	07/05/17 13:30		OK
18	I4000-01MSD	A1273-FTMSD	MSD	07/05/17 13:37		OK
19	I4006-01	CIY-WC-L-1	SAM	07/05/17 13:37		OK
20	I4019-01	MH-6	SAM	07/05/17 13:37		OK
21	CCV2	CCV2	CCV	07/05/17 13:37		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB88527

Review By		Review On				
SubDirectory		LB88527		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP56129,WP56130,WP56131,WP56132,WP56133,WP56134,WP56135,WP56136				
ICV Standard		W1541				
CCV Standard		WP56138				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP56137,WP55836,WP55355				
22	CCB2	CCB2	CCB	07/05/17 13:37		OK
23	I4020-01	HDD-WATER	SAM	07/05/17 13:37		OK
24	I4020-04	HDD-SHEEN	SAM	07/05/17 13:37		OK
25	PB100420BL	PB100420BL	MB	07/05/17 13:37		OK
26	PB100420BS	PB100420BS	LCS	07/05/17 13:37		OK
27	HIGHPB100420	HIGHPB100420	SAM	07/05/17 13:37		OK
28	I4036-02	CIY-SB-01-0-50	SAM	07/05/17 13:45		OK
29	I4036-02DUP	CIY-SB-01-0-50DUP	DUP	07/05/17 13:45		OK
30	I4036-03	CIY-SB-01-0-50MS	MS	07/05/17 13:45		OK
31	I4036-04	CIY-SB-01-0-50MSD	MSD	07/05/17 13:45		OK
32	CCV3	CCV3	CCV	07/05/17 13:45		OK
33	CCB3	CCB3	CCB	07/05/17 13:45		OK
34	I4036-05	CIY-SB-101-0-50	SAM	07/05/17 13:45		OK
35	I4049-01	RO-72-12000	SAM	07/05/17 13:45		OK
36	I4049-04	DRUM-1-070317	SAM	07/05/17 13:45		OK
37	I4052-01	HR-03-070317-A	SAM	07/05/17 13:45		OK
38	I4052-04	HR-03-070317-B	SAM	07/05/17 13:45		OK
39	I4053-01	CL-02-070317-A	SAM	07/05/17 13:52		OK
40	I4053-04	CL-02-070317-B	SAM	07/05/17 13:52		OK
41	I4053-07	CL-02-070317-C	SAM	07/05/17 13:52		OK
42	I4053-10	CL-02-070317-D	SAM	07/05/17 13:52		OK
43	I4053-13	CL-02-070317-E	SAM	07/05/17 13:52		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB88527

Review By		Review On				
SubDirectory		LB88527		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP56129,WP56130,WP56131,WP56132,WP56133,WP56134,WP56135,WP56136				
ICV Standard		W1541				
CCV Standard		WP56138				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP56137,WP55836,WP55355				
44	CCV4	CCV4	CCV	07/05/17 13:53		OK
45	CCB4	CCB4	CCB	07/05/17 13:53		OK
46	I4004-06	CIY-FB062917	SAM	07/05/17 13:53		OK
47	I4052-07	HR-03-070317-C	SAM	07/05/17 13:53		OK
48	LOWPB100378	LOWPB100378	SAM	07/05/17 14:26		OK
49	LOWPB100420	LOWPB100420	SAM	07/05/17 14:26		OK
50	CCV5	CCV5	CCV	07/05/17 14:26		OK
51	CCB5	CCB5	CCB	07/05/17 14:26		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB88527	Date Received:	
Client Sample ID:	HIGHPB100378	SDG No.:	LB88527
Lab Sample ID:	HIGHPB100378	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	0.49		1	0.003		0.005	mg/L		07/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB88527	Date Received:	
Client Sample ID:	HIGHPB100420	SDG No.:	LB88527
Lab Sample ID:	HIGHPB100420	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	0.49		1	0.003		0.005	mg/L		07/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/29/2017 12:00:00 AM
Project:	LB88527	Date Received:	6/29/2017 12:00:00 AM
Client Sample ID:	A1273-FT	SDG No.:	LB88527
Lab Sample ID:	I4000-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0044	J	1	0.003		0.005	mg/L	07/01/2017	07/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/29/2017 12:00:00 AM
Project:	LB88527	Date Received:	6/29/2017 12:00:00 AM
Client Sample ID:	CIY-FB062917	SDG No.:	LB88527
Lab Sample ID:	I4004-06	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0025	U	1	0.003		0.005	mg/L	07/01/2017	07/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/29/2017 12:00:00 AM
Project:	LB88527	Date Received:	6/29/2017 12:00:00 AM
Client Sample ID:	CIY-WC-L-1	SDG No.:	LB88527
Lab Sample ID:	I4006-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0016	U	1	0.003		0.005	mg/L	07/01/2017	07/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/29/2017 12:00:00 AM
Project:	LB88527	Date Received:	6/30/2017 12:00:00 AM
Client Sample ID:	MH-6	SDG No.:	LB88527
Lab Sample ID:	I4019-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0081		1	0.003		0.005	mg/L	07/01/2017	07/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/30/2017 12:00:00 AM
Project:	LB88527	Date Received:	6/30/2017 12:00:00 AM
Client Sample ID:	HDD-WATER	SDG No.:	LB88527
Lab Sample ID:	I4020-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.002	U	1	0.003		0.005	mg/L	07/01/2017	07/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/30/2017 12:00:00 AM
Project:	LB88527	Date Received:	6/30/2017 12:00:00 AM
Client Sample ID:	HDD-SHEEN	SDG No.:	LB88527
Lab Sample ID:	I4020-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.002	U	1	0.003		0.005	mg/L	07/01/2017	07/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/30/2017 12:00:00 AM
Project:	LB88527	Date Received:	6/30/2017 12:00:00 AM
Client Sample ID:	CIY-SB-01-0-50	SDG No.:	LB88527
Lab Sample ID:	I4036-02	Matrix:	Solid
Level (low/med):	low	% Solid:	82

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.14	J	1	0.039		0.3	mg/Kg	07/05/2017	07/05/2017	9012B

Report of Analysis

Client:		Date Collected:	6/30/2017 12:00:00 AM
Project:	LB88527	Date Received:	6/30/2017 12:00:00 AM
Client Sample ID:	CIY-SB-101-0-50	SDG No.:	LB88527
Lab Sample ID:	I4036-05	Matrix:	Solid
Level (low/med):	low	% Solid:	64.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.3	J	1	0.049		0.37	mg/Kg	07/05/2017	07/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/3/2017 12:00:00 AM
Project:	LB88527	Date Received:	7/3/2017 12:00:00 AM
Client Sample ID:	RO-72-12000	SDG No.:	LB88527
Lab Sample ID:	I4049-01	Matrix:	Solid
Level (low/med):	low	% Solid:	86.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.037		0.28	mg/Kg	07/05/2017	07/05/2017	9012B

Report of Analysis

Client:		Date Collected:	7/3/2017 12:00:00 AM
Project:	LB88527	Date Received:	7/3/2017 12:00:00 AM
Client Sample ID:	DRUM-1-070317	SDG No.:	LB88527
Lab Sample ID:	I4049-04	Matrix:	Solid
Level (low/med):	low	% Solid:	96.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.11	J	1	0.033		0.25	mg/Kg	07/05/2017	07/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/3/2017 12:00:00 AM
Project:	LB88527	Date Received:	7/3/2017 12:00:00 AM
Client Sample ID:	HR-03-070317-A	SDG No.:	LB88527
Lab Sample ID:	I4052-01	Matrix:	Solid
Level (low/med):	low	% Solid:	97.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.1	J	1	0.033		0.25	mg/Kg	07/05/2017	07/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/3/2017 12:00:00 AM
Project:	LB88527	Date Received:	7/3/2017 12:00:00 AM
Client Sample ID:	HR-03-070317-B	SDG No.:	LB88527
Lab Sample ID:	I4052-04	Matrix:	Solid
Level (low/med):	low	% Solid:	95.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.034		0.25	mg/Kg	07/05/2017	07/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/3/2017 12:00:00 AM
Project:	LB88527	Date Received:	7/3/2017 12:00:00 AM
Client Sample ID:	HR-03-070317-C	SDG No.:	LB88527
Lab Sample ID:	I4052-07	Matrix:	Solid
Level (low/med):	low	% Solid:	96.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.1	J	1	0.033		0.25	mg/Kg	07/05/2017	07/05/2017	9012B

Report of Analysis

Client:		Date Collected:	7/3/2017 12:00:00 AM
Project:	LB88527	Date Received:	7/3/2017 12:00:00 AM
Client Sample ID:	CL-02-070317-A	SDG No.:	LB88527
Lab Sample ID:	I4053-01	Matrix:	Solid
Level (low/med):	low	% Solid:	84.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.16	J	1	0.037		0.28	mg/Kg	07/05/2017	07/05/2017	9012B

Report of Analysis

Client:		Date Collected:	7/3/2017 12:00:00 AM
Project:	LB88527	Date Received:	7/3/2017 12:00:00 AM
Client Sample ID:	CL-02-070317-B	SDG No.:	LB88527
Lab Sample ID:	I4053-04	Matrix:	Solid
Level (low/med):	low	% Solid:	89.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.15	J	1	0.036		0.28	mg/Kg	07/05/2017	07/05/2017	9012B

Report of Analysis

Client:		Date Collected:	7/3/2017 12:00:00 AM
Project:	LB88527	Date Received:	7/3/2017 12:00:00 AM
Client Sample ID:	CL-02-070317-C	SDG No.:	LB88527
Lab Sample ID:	I4053-07	Matrix:	Solid
Level (low/med):	low	% Solid:	90.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.14	J	1	0.035		0.27	mg/Kg	07/05/2017	07/05/2017	9012B

Report of Analysis

Client:		Date Collected:	7/3/2017 12:00:00 AM
Project:	LB88527	Date Received:	7/3/2017 12:00:00 AM
Client Sample ID:	CL-02-070317-D	SDG No.:	LB88527
Lab Sample ID:	I4053-10	Matrix:	Solid
Level (low/med):	low	% Solid:	91.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.15	J	1	0.035		0.26	mg/Kg	07/05/2017	07/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/3/2017 12:00:00 AM
Project:	LB88527	Date Received:	7/3/2017 12:00:00 AM
Client Sample ID:	CL-02-070317-E	SDG No.:	LB88527
Lab Sample ID:	I4053-13	Matrix:	Solid
Level (low/med):	low	% Solid:	87.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.16	J	1	0.037		0.28	mg/Kg	07/05/2017	07/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB88527	Date Received:	
Client Sample ID:	LOWPB100378	SDG No.:	LB88527
Lab Sample ID:	LOWPB100378	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	0.01		1	0.003		0.005	mg/L		07/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB88527	Date Received:	
Client Sample ID:	LOWPB100420	SDG No.:	LB88527
Lab Sample ID:	LOWPB100420	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	0.011		1	0.003		0.005	mg/L		07/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB88527	Date Received:	
Client Sample ID:	LOWPB100420	SDG No.:	LB88527
Lab Sample ID:	LOWPB100420	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: LB88527 **SDG No.:** LB88527
Contract: **Lab Code:** CHEM **Case No.:** LB88527 **SAS No.:** LB88527
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	Cyanide	0.091	0.099	91.9	0	85 - 115		07/05/2017	13:30	LB88527

GENCHEM**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB88527**SDG No.:** LB88527**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB88527**SAS No.:** LB88527**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		07/05/2017	13:30	LB88527
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		07/05/2017	13:37	LB88527
CCV3	Cyanide	0.24	0.25	96	0	90 - 110		07/05/2017	13:45	LB88527
CCV4	Cyanide	0.24	0.25	96	0	90 - 110		07/05/2017	13:53	LB88527
CCV5	Cyanide	0.25	0.25	100	0	90 - 110		07/05/2017	14:26	LB88527



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88527 **SDG No.:** LB88527
Contract: **Lab Code:** CHEM **Case No.:** LB88527 **SAS No.:** LB88527

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.002	+/-0.005	U		0.005		07/05/2017	13:30	LB88527



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88527

SDG No.: LB88527

Contract:

Lab Code: CHEM

Case No.: LB88527

SAS No.: LB88527

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.0021	+/-0.005	U		0.005		07/05/2017	13:30	LB88527
CCB2	Cyanide	0.0021	+/-0.005	U		0.005		07/05/2017	13:37	LB88527
CCB3	Cyanide	0.0022	+/-0.005	U		0.005		07/05/2017	13:45	LB88527
CCB4	Cyanide	0.0027	+/-0.005	U		0.005		07/05/2017	13:53	LB88527
CCB5	Cyanide	0.0024	+/-0.005	U		0.005		07/05/2017	14:26	LB88527



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88527

SDG No.: LB88527

Contract: Lab Code: CHEM

Case No.: LB88527

SAS No.: LB88527

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: LB88527

SDG No.: LB88527

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB100378BL	Cyanide	WATER		Batch Number:		PB100378		Prep Date:	07/01/2017	
		0.0018	<0.005	U		0.005		07/05/2017	13:30	LB88527
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB100420BL	Cyanide	SOLID		Batch Number:		PB100420		Prep Date:	07/05/2017	
		0.089	<0.24	J		0.24		07/05/2017	13:37	LB88527



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB88527 level: low sdg no.: LB88527
contract: lab code: CHEM case no.: LB88527 sas no.: LB88527
matrix: WATER sample id: I4000-01 client id: A1273-FTMS
Percent Solids for Sample: 0 Spiked ID: I4000-01MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.039		0.0044	J	0.04	87		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB88527 level: low sdg no.: LB88527
contract: lab code: CHEM case no.: LB88527 sas no.: LB88527
matrix: WATER sample id: I4000-01 client id: A1273-FTMSD
Percent Solids for Sample: 0 Spiked ID: I4000-01MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.037		0.0044	J	0.04	82		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB88527 level: low sdg no.: LB88527
contract: lab code: CHEM case no.: LB88527 sas no.: LB88527
matrix: Solid sample id: I4036-02 client id: CIY-SB-01-0-50MS
Percent Solids for Sample: 82 Spiked ID: I4036-03 Percent Solids for Spike Sample: 82

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.2		0.14	J	2.3	90		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB88527 level: low sdg no.: LB88527
contract: lab code: CHEM case no.: LB88527 sas no.: LB88527
matrix: Solid sample id: I4036-02 client id: CIY-SB-01-0-50MSD
Percent Solids for Sample: 82 Spiked ID: I4036-04 Percent Solids for Spike Sample: 82

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.14	J	2.3	85		



GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB88527 **Level:** LOW **SDG No.:** LB88527
Contract: **Lab Code:** CHEM **Case No.:** LB88527 **SAS No.:** LB88527
Matrix: WATER **Sample ID:** I4000-01 **Client ID:** A1273-FTDUP
Percent Solids for Sample: 0 **Duplicate ID** I4000-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.0044	J	0.0041	J	7		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB88527 **Level:** LOW **SDG No.:** LB88527
Contract: **Lab Code:** CHEM **Case No.:** LB88527 **SAS No.:** LB88527
Matrix: WATER **Sample ID:** I4000-01MS **Client ID:** A1273-FTMSD
Percent Solids for Sample: 0 **Duplicate ID** I4000-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.039		0.037		5		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB88527 **Level:** LOW **SDG No.:** LB88527
Contract: **Lab Code:** CHEM **Case No.:** LB88527 **SAS No.:** LB88527
Matrix: Solid **Sample ID:** I4036-02 **Client ID:** CIY-SB-01-0-50DUP
Percent Solids for Sample: 82 **Duplicate ID** I4036-02DUP **Percent Solids for Spike Sample:** 82

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.14	J	0.15	J	7		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB88527 **Level:** LOW **SDG No.:** LB88527
Contract: **Lab Code:** CHEM **Case No.:** LB88527 **SAS No.:** LB88527
Matrix: Solid **Sample ID:** I4036-03 **Client ID:** CIY-SB-01-0-50MSD
Percent Solids for Sample: 82 **Duplicate ID** I4036-04 **Percent Solids for Spike Sample:** 82

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.2		2.1		5		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB88527

SDG No.: LB88527

Contract:

Lab Code: CHEM

Case No.: LB88527

SAS No.: LB88527

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB100378BS Cyanide	mg/L	0.1	0.095		95	85 - 115	

