

Daily Analysis Runlog For Sequence/QC Batch ID # LB95757

Review By		Review On				
SubDirectory		LB95757		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64957,WP64958,WP64959,WP64960,WP64961,WP64962,WP64963				
ICV Standard		W1542				
CCV Standard		W[64964				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP64966,WP64695,WP64696				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/01/18 07:38		OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/01/18 07:38		OK
3	10PPBCN	10PPBCN	CAL3	06/01/18 07:38		OK
4	50PPBCN	50PPBCN	CAL4	06/01/18 07:38		OK
5	100PPBCN	100PPBCN	CAL5	06/01/18 07:38		OK
6	250PPBCN	250PPBCN	CAL6	06/01/18 07:38		OK
7	500PPBCN	500PPBCN	CAL7	06/01/18 07:38		OK
8	ICV1	ICV1	ICV	06/01/18 09:20		OK
9	ICB1	ICB1	ICB	06/01/18 09:20		OK
10	CCV1	CCV1	CCV	06/01/18 09:20		OK
11	CCB1	CCB1	CCB	06/01/18 09:20		OK
12	PB109831BL	PB109831BL	MB	06/01/18 09:20		OK
13	PB109831BS	PB109831BS	LCS	06/01/18 09:20		OK
14	LOWPB109831	LOWPB109831	SAM	06/01/18 09:20		OK
15	HIGHPB109831	HIGHPB109831	SAM	06/01/18 09:20		OK
16	J2669-11	SU-03-053018	SAM	06/01/18 09:20		OK
17	J2669-11DUP	SU-03-053018DUP	DUP	06/01/18 09:20		OK
18	J2669-11MS	SU-03-053018MS	MS	06/01/18 09:20		OK
19	J2669-11MSD	SU-03-053018MSD	MSD	06/01/18 09:28		OK
20	J2678-05	OK-01-053018	SAM	06/01/18 09:28		OK
21	J3202-01	SP	SAM	06/01/18 09:28		OK

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ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP64966,WP64695,WP64696				
22	CCV2	CCV2	CCV	06/01/18 09:28		OK
23	CCB2	CCB2	CCB	06/01/18 09:28		OK
24	J3203-01	TP-2-WC-1	SAM	06/01/18 09:28		OK
25	J3203-04	TP-4-WC-1	SAM	06/01/18 09:28		OK
26	J3217-01	SP-01	SAM	06/01/18 09:28		OK
27	J3217-05	DRUM-1	SAM	06/01/18 09:28		OK
28	J3217-08	SP-MANHOLE-TREN	SAM	06/01/18 09:28		OK
29	J3217-12	SP-MANHOLE-TREN	SAM	06/01/18 09:28		OK
30	PB109832BL	PB109832BL	MB	06/01/18 09:35		OK
31	PB109832BS	PB109832BS	LCS	06/01/18 09:35		OK
32	J3218-01	OUTSIDE-WELL-SP	SAM	06/01/18 09:35		OK
33	J3218-01DUP	OUTSIDE-WELL-SP	DUP	06/01/18 09:35		OK
34	CCV3	CCV3	CCV	06/01/18 09:35		OK
35	CCB3	CCB3	CCB	06/01/18 09:35		OK
36	J3218-01MS	OUTSIDE-WELL-SP	MS	06/01/18 09:35		OK
37	J3218-01MSD	OUTSIDE-WELL-SP	MSD	06/01/18 09:35		OK
38	J3218-05	INSIDE-WELL-SP	SAM	06/01/18 09:35		OK
39	J3219-03	TP-3	SAM	06/01/18 09:35		OK
40	PB109790BL	PB109790BL	MB	06/01/18 09:35		OK
41	PB109790BS	PB109790BS	LCS	06/01/18 09:43		OK
42	J3188-01	ES-CONCRETE	SAM	06/01/18 09:43		OK
43	J3188-01DUP	ES-CONCRETEDUP	DUP	06/01/18 09:43		OK

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STD. NAME		STD REF.#				
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ICV Standard		W1542				
CCV Standard		W[64964				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP64966,WP64695,WP64696				
44	J3188-01MS	ES-CONCRETEMS	MS	06/01/18 09:43		OK
45	J3188-01MSD	ES-CONCRETEMSD	MSD	06/01/18 09:43		OK
46	CCV4	CCV4	CCV	06/01/18 10:08		OK
47	CCB4	CCB4	CCB	06/01/18 10:08		OK
48	J3191-02	BRICKWALL-DRUM	SAM	06/01/18 10:08		OK
49	J3197-03	TP-2-S	SAM	06/01/18 10:08		OK
50	J3197-07	TP-2-D	SAM	06/01/18 10:08		OK
51	CCV5	CCV5	CCV	06/01/18 10:08		OK
52	CCB5	CCB5	CCB	06/01/18 10:08		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB95757	Date Received:	
Client Sample ID:	HIGHPB109831	SDG No.:	LB95757
Lab Sample ID:	HIGHPB109831	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		06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/30/2018 12:00:00 AM
Project:	LB95757	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	SU-03-053018	SDG No.:	LB95757
Lab Sample ID:	J2669-11	Matrix:	Solid
Level (low/med):	low	% Solid:	87.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.036	J	1	0.036		0.27	mg/Kg	05/31/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/30/2018 12:00:00 AM
Project:	LB95757	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	OK-01-053018	SDG No.:	LB95757
Lab Sample ID:	J2678-05	Matrix:	Solid
Level (low/med):	low	% Solid:	86.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.05	J	1	0.037		0.28	mg/Kg	05/31/2018	06/01/2018	9012B

Report of Analysis

Client:		Date Collected:	5/29/2018 12:00:00 AM
Project:	LB95757	Date Received:	5/29/2018 12:00:00 AM
Client Sample ID:	ES-CONCRETE	SDG No.:	LB95757
Lab Sample ID:	J3188-01	Matrix:	Solid
Level (low/med):	low	% Solid:	95.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.079	J	1	0.033		0.25	mg/Kg	05/30/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/29/2018 12:00:00 AM
Project:	LB95757	Date Received:	5/29/2018 12:00:00 AM
Client Sample ID:	BRICKWALL-DRUM	SDG No.:	LB95757
Lab Sample ID:	J3191-02	Matrix:	Solid
Level (low/med):	low	% Solid:	83.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.036	U	1	0.038		0.29	mg/Kg	05/30/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/29/2018 12:00:00 AM
Project:	LB95757	Date Received:	5/29/2018 12:00:00 AM
Client Sample ID:	TP-2-S	SDG No.:	LB95757
Lab Sample ID:	J3197-03	Matrix:	Solid
Level (low/med):	low	% Solid:	85.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.067	J	1	0.037		0.28	mg/Kg	05/30/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/29/2018 12:00:00 AM
Project:	LB95757	Date Received:	5/29/2018 12:00:00 AM
Client Sample ID:	TP-2-D	SDG No.:	LB95757
Lab Sample ID:	J3197-07	Matrix:	Solid
Level (low/med):	low	% Solid:	80.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.04	J	1	0.039		0.29	mg/Kg	05/30/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/30/2018 12:00:00 AM
Project:	LB95757	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	SP	SDG No.:	LB95757
Lab Sample ID:	J3202-01	Matrix:	Solid
Level (low/med):	low	% Solid:	94

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.024	U	1	0.033		0.25	mg/Kg	05/31/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/29/2018 12:00:00 AM
Project:	LB95757	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	TP-2-WC-1	SDG No.:	LB95757
Lab Sample ID:	J3203-01	Matrix:	Solid
Level (low/med):	low	% Solid:	89.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0036	U	1	0.035		0.26	mg/Kg	05/31/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/29/2018 12:00:00 AM
Project:	LB95757	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	TP-4-WC-1	SDG No.:	LB95757
Lab Sample ID:	J3203-04	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	0.0056	U	1	0.035		0.27	mg/Kg	05/31/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/30/2018 12:00:00 AM
Project:	LB95757	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	SP-01	SDG No.:	LB95757
Lab Sample ID:	J3217-01	Matrix:	Solid
Level (low/med):	low	% Solid:	89.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.026	U	1	0.036		0.27	mg/Kg	05/31/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/30/2018 12:00:00 AM
Project:	LB95757	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	DRUM-1	SDG No.:	LB95757
Lab Sample ID:	J3217-05	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0064	U	1	0.032		0.25	mg/Kg	05/31/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/30/2018 12:00:00 AM
Project:	LB95757	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	SP-MANHOLE-TRENCH-1	SDG No.:	LB95757
Lab Sample ID:	J3217-08	Matrix:	Solid
Level (low/med):	low	% Solid:	91.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0006	U	1	0.036		0.27	mg/Kg	05/31/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/30/2018 12:00:00 AM
Project:	LB95757	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	SP-MANHOLE-TRENCH-2	SDG No.:	LB95757
Lab Sample ID:	J3217-12	Matrix:	Solid
Level (low/med):	low	% Solid:	91.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.027	U	1	0.034		0.26	mg/Kg	05/31/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/30/2018 12:00:00 AM
Project:	LB95757	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	OUTSIDE-WELL-SP	SDG No.:	LB95757
Lab Sample ID:	J3218-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0039	U	1	0.036		0.27	mg/Kg	05/31/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/30/2018 12:00:00 AM
Project:	LB95757	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	INSIDE-WELL-SP	SDG No.:	LB95757
Lab Sample ID:	J3218-05	Matrix:	Solid
Level (low/med):	low	% Solid:	89.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.036	J	1	0.035		0.27	mg/Kg	05/31/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/30/2018 12:00:00 AM
Project:	LB95757	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	TP-3	SDG No.:	LB95757
Lab Sample ID:	J3219-03	Matrix:	Solid
Level (low/med):	low	% Solid:	83.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.22	J	1	0.037		0.28	mg/Kg	05/31/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB95757	Date Received:	
Client Sample ID:	LOWPB109831	SDG No.:	LB95757
Lab Sample ID:	LOWPB109831	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	0.0098		1	0.003		0.005	mg/L		06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB95757	Date Received:	
Client Sample ID:	LOWPB109831	SDG No.:	LB95757
Lab Sample ID:	LOWPB109831	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: LB95757

SDG No.: LB95757

Contract: _____

Lab Code: CHEM

Case No.: LB95757

SAS No.: LB95757

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	Cyanide	0.095	0.099	96		85 - 115		06/01/2018	09:20	lb95757

GENCHEM**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB95757**SDG No.:** LB95757**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB95757**SAS No.:** LB95757**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	Cyanide	0.24	0.25	96		90 - 110		06/01/2018	09:20	lb95757
CCV2	Cyanide	0.25	0.25	100		90 - 110		06/01/2018	09:28	lb95757
CCV3	Cyanide	0.25	0.25	100		90 - 110		06/01/2018	09:35	lb95757
CCV4	Cyanide	0.25	0.25	100		90 - 110		06/01/2018	10:08	lb95757
CCV5	Cyanide	0.26	0.25	104		90 - 110		06/01/2018	10:08	lb95757



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95757 **SDG No.:** LB95757
Contract: **Lab Code:** CHEM **Case No.:** LB95757 **SAS No.:** LB95757

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00016	+/-0.005	U		0.005		06/01/2018	09:20	lb95757



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95757

SDG No.: LB95757

Contract:

Lab Code: CHEM

Case No.: LB95757

SAS No.: LB95757

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0	+/-0.005	U		0.005		06/01/2018	09:20	lb95757
CCB2	Cyanide	-0	+/-0.005	U		0.005		06/01/2018	09:28	lb95757
CCB3	Cyanide	0.00012	+/-0.005	U		0.005		06/01/2018	09:35	lb95757
CCB4	Cyanide	-0.00063	+/-0.005	U		0.005		06/01/2018	10:08	lb95757
CCB5	Cyanide	0.00028	+/-0.005	U		0.005		06/01/2018	10:08	lb95757



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95757

SDG No.: LB95757

Contract: Lab Code: CHEM

Case No.: LB95757

SAS No.: LB95757

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: LB95757

SDG No.: LB95757

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
PB109790BL	Cyanide	SOLID		Batch Number:		PB109790		Prep Date:	05/30/2018	
		0.02	<0.25	U		0.25		06/01/2018	09:35	lb95757
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB109831BL	Cyanide	SOLID		Batch Number:		PB109831		Prep Date:	05/31/2018	
		-0.0038	<0.25	U		0.25		06/01/2018	09:20	lb95757
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB109832BL	Cyanide	SOLID		Batch Number:		PB109832		Prep Date:	05/31/2018	
		0.011	<0.25	U		0.25		06/01/2018	09:35	lb95757



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95757 level: low sdg no.: LB95757
contract: lab code: CHEM case no.: LB95757 sas no.: LB95757
matrix: Solid sample id: J2669-11 client id: SU-03-053018MS
Percent Solids for Sample: 87.8 Spiked ID: J2669-11MS Percent Solids for Spike Sample: 87.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.036	J	2.2	94		

GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95757 level: low sdg no.: LB95757
contract: lab code: CHEM case no.: LB95757 sas no.: LB95757
matrix: Solid sample id: J2669-11 client id: SU-03-053018MSD
Percent Solids for Sample: 87.8 Spiked ID: J2669-11MSD Percent Solids for Spike Sample: 87.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.036	J	2.2	94		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95757 level: low sdg no.: LB95757
contract: lab code: CHEM case no.: LB95757 sas no.: LB95757
matrix: Solid sample id: J3188-01 client id: ES-CONCRETEMS
Percent Solids for Sample: 95.4 Spiked ID: J3188-01MS Percent Solids for Spike Sample: 95.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.079	J	2	91		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95757 level: low sdg no.: LB95757
contract: lab code: CHEM case no.: LB95757 sas no.: LB95757
matrix: Solid sample id: J3188-01 client id: ES-CONCRETEMSD
Percent Solids for Sample: 95.4 Spiked ID: J3188-01MSD Percent Solids for Spike Sample: 95.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.079	J	2	86		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95757 level: low sdg no.: LB95757
contract: lab code: CHEM case no.: LB95757 sas no.: LB95757
matrix: Solid sample id: J3218-01 client id: OUTSIDE-WELL-SPMS
Percent Solids for Sample: 88.7 Spiked ID: J3218-01MS Percent Solids for Spike Sample: 88.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.036	U	2.2	81.8		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95757 level: low sdg no.: LB95757
contract: lab code: CHEM case no.: LB95757 sas no.: LB95757
matrix: Solid sample id: J3218-01 client id: OUTSIDE-WELL-SPMSD
Percent Solids for Sample: 88.7 Spiked ID: J3218-01MSD Percent Solids for Spike Sample: 88.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.036	U	2.2	77.3		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95757 **Level:** LOW **SDG No.:** LB95757
Contract: **Lab Code:** CHEM **Case No.:** LB95757 **SAS No.:** LB95757
Matrix: Solid **Sample ID:** J2669-11 **Client ID:** SU-03-053018DUP
Percent Solids for Sample: 87.8 **Duplicate ID** J2669-11DUP **Percent Solids for Spike Sample:** 87.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.036	J	-0.016	U	200.0	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95757 **Level:** LOW **SDG No.:** LB95757
Contract: **Lab Code:** CHEM **Case No.:** LB95757 **SAS No.:** LB95757
Matrix: Solid **Sample ID:** J2669-11MS **Client ID:** SU-03-053018MSD
Percent Solids for Sample: 87.8 **Duplicate ID** J2669-11MSD **Percent Solids for Spike Sample:** 87.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.1		2.1		0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95757 **Level:** LOW **SDG No.:** LB95757
Contract: **Lab Code:** CHEM **Case No.:** LB95757 **SAS No.:** LB95757
Matrix: Solid **Sample ID:** J3188-01 **Client ID:** ES-CONCRETEDUP
Percent Solids for Sample: 95.4 **Duplicate ID** J3188-01DUP **Percent Solids for Spike Sample:** 95.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.079	J	0.088	J	11		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95757 **Level:** LOW **SDG No.:** LB95757
Contract: **Lab Code:** CHEM **Case No.:** LB95757 **SAS No.:** LB95757
Matrix: Solid **Sample ID:** J3188-01MS **Client ID:** ES-CONCRETEMSD
Percent Solids for Sample: 95.4 **Duplicate ID** J3188-01MSD **Percent Solids for Spike Sample:** 95.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.9		1.8		5		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95757 **Level:** LOW **SDG No.:** LB95757
Contract: **Lab Code:** CHEM **Case No.:** LB95757 **SAS No.:** LB95757
Matrix: Solid **Sample ID:** J3218-01 **Client ID:** OUTSIDE-WELL-SPDUP
Percent Solids for Sample: 88.7 **Duplicate ID** J3218-01DUP **Percent Solids for Spike Sample:** 88.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.036	U	0.063	J	200.0		



GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95757 Level: LOW SDG No.: LB95757
Contract: _____ Lab Code: CHEM Case No.: LB95757 SAS No.: LB95757
Matrix: Solid Sample ID: J3218-01MS Client ID: OUTSIDE-WELL-SPMSD
Percent Solids for Sample: 88.7 Duplicate ID J3218-01MSD Percent Solids for Spike Sample: 88.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.8		1.7		6		

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



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95757

SDG No.: LB95757

Contract:

Lab Code: CHEM

Case No.: LB95757

SAS No.: LB95757

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB109790BS Cyanide	mg/Kg	5	4.8		96	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95757

SDG No.: LB95757

Contract:

Lab Code: CHEM

Case No.: LB95757

SAS No.: LB95757

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB109831BS Cyanide	mg/Kg	5	4.7		94	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95757

SDG No.: LB95757

Contract: _____

Lab Code: CHEM

Case No.: LB95757 **SAS No.:** LB95757

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB109832BS							
Cyanide	mg/Kg	5	4.8		96	85 - 115	