

Daily Analysis Runlog For Sequence/QC Batch ID # LB88275

Review By		Review On				
SubDirectory		LB88275		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP55856,WP55857,WP55858,WP55859,WP55860,WP55861,WP55862,WP55863,WP55864				
ICV Standard		W1541				
CCV Standard		WP55866				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP55865,WP55836,WP55355				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/22/17 09:14		OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/22/17 09:14		OK
3	10PPBCN	10PPBCN	CAL3	06/22/17 09:14		OK
4	50PPBCN	50PPBCN	CAL4	06/22/17 09:14		OK
5	100PPBCN	100PPBCN	CAL5	06/22/17 09:14		OK
6	250PPBCN	250PPBCN	CAL6	06/22/17 09:14		OK
7	500PPBCN	500PPBCN	CAL7	06/22/17 09:14		OK
8	ICV1	ICV1	ICV	06/22/17 10:12		OK
9	ICB1	ICB1	ICB	06/22/17 10:12		OK
10	CCV1	CCV1	CCV	06/22/17 10:12		OK
11	CCB1	CCB1	CCB	06/22/17 10:12		OK
12	PB100029BL	PB100029BL	MB	06/22/17 10:12		OK
13	PB100029BS	PB100029BS	LCS	06/22/17 10:12		OK
14	LOWPB100029	LOWPB100029	SAM	06/22/17 10:12		OK
15	HIGHPB100029	HIGHPB100029	SAM	06/22/17 10:12		OK
16	I3792-01	OR-03-061917	SAM	06/22/17 10:12		OK
17	I3792-01DUP	OR-03-061917DUP	DUP	06/22/17 10:12		OK
18	I3792-01MS	OR-03-061917MS	MS	06/22/17 10:12		OK
19	I3792-01MSD	OR-03-061917MSD	MSD	06/22/17 10:17		OK
20	I3800-01	CRUSHED-STONE-I	SAM	06/22/17 10:17		OK
21	I3802-01	OK-02-062017	SAM	06/22/17 10:17		OK



Instrument ID : KONELAB

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

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SubDirectory		Test : Cyanide				
LB88275						
STD. NAME	STD REF.#					
ICAL Standard	WP55856,WP55857,WP55858,WP55859,WP55860,WP55861,WP55862,WP55863,WP55864					
ICV Standard	W1541					
CCV Standard	WP55866					
ICSA Standard	N/A					
CRI Standard	N/A					
LCS Standard	WP54521					
Chk Standard	WP55865,WP55836,WP55355					
22	CCV2	CCV2	CCV	06/22/17 10:17		OK
23	CCB2	CCB2	CCB	06/22/17 10:17		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB88275	Date Received:	
Client Sample ID:	HIGHPB100029	SDG No.:	LB88275
Lab Sample ID:	HIGHPB100029	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		06/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2017 12:00:00 AM
Project:	LB88275	Date Received:	6/19/2017 12:00:00 AM
Client Sample ID:	OR-03-061917	SDG No.:	LB88275
Lab Sample ID:	I3792-01	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	-0.0043	U	1	0.035		0.26	mg/Kg	06/21/2017	06/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/20/2017 12:00:00 AM
Project:	LB88275	Date Received:	6/20/2017 12:00:00 AM
Client Sample ID:	CRUSHED-STONE-DUST	SDG No.:	LB88275
Lab Sample ID:	I3800-01	Matrix:	Solid
Level (low/med):	low	% Solid:	99.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.023	U	1	0.032		0.24	mg/Kg	06/21/2017	06/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/20/2017 12:00:00 AM
Project:	LB88275	Date Received:	6/20/2017 12:00:00 AM
Client Sample ID:	OK-02-062017	SDG No.:	LB88275
Lab Sample ID:	I3802-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.012	U	1	0.035		0.27	mg/Kg	06/21/2017	06/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB88275	Date Received:	
Client Sample ID:	LOWPB100029	SDG No.:	LB88275
Lab Sample ID:	LOWPB100029	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	0.0097		1	0.003		0.005	mg/L		06/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB88275	Date Received:	
Client Sample ID:	LOWPB100029	SDG No.:	LB88275
Lab Sample ID:	LOWPB100029	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

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	Cyanide	0.095	0.099	96	0	85 - 115		06/22/2017	10:12	LB88275



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB88275

SDG No.: LB88275

Contract: _____ Lab Code: CHEM

Case No.: LB88275

SAS No.: LB88275

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		06/22/2017	10:12	LB88275
CCV2	Cyanide	0.26	0.25	104	0	90 - 110		06/22/2017	10:17	LB88275



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88275

SDG No.: LB88275

Contract:

Lab Code: CHEM

Case No.: LB88275

SAS No.: LB88275

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00038	+/-0.005	U		0.005		06/22/2017	10:12	LB88275



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88275

SDG No.: LB88275

Contract:

Lab Code: CHEM

Case No.: LB88275

SAS No.: LB88275

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00028	+/-0.005	U		0.005		06/22/2017	10:12	LB88275
CCB2	Cyanide	0.00015	+/-0.005	U		0.005		06/22/2017	10:17	LB88275



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88275

SDG No.: LB88275

Contract: Lab Code: CHEM

Case No.: LB88275

SAS No.: LB88275

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: LB88275

SDG No.: LB88275

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
PB100029BL		SOLID		Batch Number:		PB100029		Prep Date:	06/21/2017	
	Cyanide	-0.018	<0.25	U		0.25		06/22/2017	10:12	LB88275



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB88275 level: low sdg no.: LB88275
contract: lab code: CHEM case no.: LB88275 sas no.: LB88275
matrix: Solid sample id: I3792-01 client id: OR-03-061917MS
Percent Solids for Sample: 91.9 Spiked ID: I3792-01MS Percent Solids for Spike Sample: 91.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1		0.035	U	2.1	47.6	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB88275 level: low sdg no.: LB88275
contract: lab code: CHEM case no.: LB88275 sas no.: LB88275
matrix: Solid sample id: I3792-01 client id: OR-03-061917MSD
Percent Solids for Sample: 91.9 Spiked ID: I3792-01MSD Percent Solids for Spike Sample: 91.9

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125		1	0.035	U	2.1	47.6	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB88275 **Level:** LOW **SDG No.:** LB88275
Contract: **Lab Code:** CHEM **Case No.:** LB88275 **SAS No.:** LB88275
Matrix: Solid **Sample ID:** I3792-01 **Client ID:** OR-03-061917DUP
Percent Solids for Sample: 91.9 **Duplicate ID** I3792-01DUP **Percent Solids for Spike Sample:** 91.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.035	U	-0.035	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB88275 **Level:** LOW **SDG No.:** LB88275
Contract: **Lab Code:** CHEM **Case No.:** LB88275 **SAS No.:** LB88275
Matrix: Solid **Sample ID:** I3792-01MS **Client ID:** OR-03-061917MSD
Percent Solids for Sample: 91.9 **Duplicate ID** I3792-01MSD **Percent Solids for Spike Sample:** 91.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1		1		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB88275

SDG No.: LB88275

Contract:

Lab Code: CHEM

Case No.: LB88275

SAS No.: LB88275

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB100029BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	