

Daily Analysis Runlog For Sequence/QC Batch ID # LB85680

Review By

SubDirectory

Review On

Test : Cyanide

LB85680

STD. NAME		STD REF.#				
ICAL Standard		WP52695,WP52694,WP52693,WP52692,WP52691,WP52690				
ICV Standard		WP52696				
CCV Standard		WP52697				
ICSA Standard						
CRI Standard						
LCS Standard						
Chk Standard		WP52720,WP51626,WP50159,WP51615				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	02/03/17 13:11		OK
2	S5.0	S5.0	CAL2	02/03/17 13:11		OK
3	S10.0	S10.0	CAL3	02/03/17 13:11		OK
4	S100.0	S100.0	CAL4	02/03/17 13:11		OK
5	S250.0	S250.0	CAL5	02/03/17 13:11		OK
6	S500.0	S500.0	CAL6	02/03/17 13:11		OK
7	ICV	ICV	ICV	02/03/17 13:42		OK
8	ICB	ICB	ICB	02/03/17 13:42		OK
9	CCV001	CCV001	CCV	02/03/17 13:42		OK
10	CCB001	CCB001	CCB	02/03/17 13:42		OK
11	PB96684BL	PBW005	MB	02/03/17 13:42		OK
12	I1533-01	ME60X6	SAM	02/03/17 13:42		OK
13	I1533-02	ME60X9	SAM	02/03/17 13:42		OK
14	I1533-03	ME60Y1	SAM	02/03/17 13:49		OK
15	I1533-04	ME60Z2	SAM	02/03/17 13:49		OK
16	I1533-05	ME6124	SAM	02/03/17 13:49		OK
17	I1533-06	ME6128	SAM	02/03/17 13:49		OK
18	I1533-07	ME6128D	DUP	02/03/17 13:49		OK
19	I1533-09	ME6137	SAM	02/03/17 13:49		OK
20	CCV002	CCV002	CCV	02/03/17 13:49		OK
21	CCB002	CCB002	CCB	02/03/17 13:49		OK



Instrument ID: CN

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

Daily Analysis Runlog For Sequence/QC Batch ID # LB85680

Review By		Review On				
SubDirectory		Test : Cyanide				
LB85680						
STD. NAME		STD REF.#				
ICAL Standard		WP52695,WP52694,WP52693,WP52692,WP52691,WP52690				
ICV Standard		WP52696				
CCV Standard		WP52697				
ICSA Standard						
CRI Standard						
LCS Standard						
Chk Standard		WP52720,WP51626,WP50159,WP51615				
22	I1533-08	ME6128S	MS	02/03/17 14:41		OK
23	CCV003	CCV003	CCV	02/03/17 14:41		OK
24	CCB003	CCB003	CCB	02/03/17 14:41		OK



Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB85680

SDG No.: LB85680

Contract: _____ Lab Code: CHEM

Case No.: LB85680

SAS No.: LB85680

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV	Cyanide	95.5	99	96	0	85 - 115	CN	02/03/2017	13:42	LB85680



Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB85680

SDG No.: LB85680

Contract: _____ Lab Code: CHEM

Case No.: LB85680

SAS No.: LB85680

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV001	Cyanide	240	250	96	0	85 - 115	CN	02/03/2017	13:42	LB85680
CCV002	Cyanide	246	250	98	0	85 - 115	CN	02/03/2017	13:49	LB85680
CCV003	Cyanide	270	250	108	0	85 - 115	CN	02/03/2017	14:41	LB85680



Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85680 **SDG No.:** LB85680
Contract: **Lab Code:** CHEM **Case No.:** LB85680 **SAS No.:** LB85680

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB	Cyanide	0.33	+/-10.0	U	5.0	10.0	CN	02/03/2017	13:42	LB85680



Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85680

SDG No.: LB85680

Contract:

Lab Code: CHEM

Case No.: LB85680

SAS No.: LB85680

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB001	Cyanide	0.59	+/-10.0	U	5.0	10.0	CN	02/03/2017	13:42	LB85680
CCB002	Cyanide	0.27	+/-10.0	U	5.0	10.0	CN	02/03/2017	13:49	LB85680
CCB003	Cyanide	0.78	+/-10.0	U	5.0	10.0	CN	02/03/2017	14:41	LB85680



Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85680

SDG No.: LB85680

Contract: Lab Code: CHEM

Case No.: LB85680

SAS No.: LB85680

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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Report of Analysis

Client:		Date Collected:	1/24/2017 12:00:00 AM
Project:	LB85680	Date Received:	1/27/2017 12:00:00 AM
Client Sample ID:	ME60X6	SDG No.:	LB85680
Lab Sample ID:	I1533-01	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	0.32	U	1	1.5	5	10	ug/L	02/03/2017	02/03/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/24/2017 12:00:00 AM
Project:	LB85680	Date Received:	1/27/2017 12:00:00 AM
Client Sample ID:	ME60X9	SDG No.:	LB85680
Lab Sample ID:	I1533-02	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	U	1	1.5	5	10	ug/L	02/03/2017	02/03/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/24/2017 12:00:00 AM
Project:	LB85680	Date Received:	1/27/2017 12:00:00 AM
Client Sample ID:	ME60Y1	SDG No.:	LB85680
Lab Sample ID:	I1533-03	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	U	1	1.5	5	10	ug/L	02/03/2017	02/03/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/25/2017 12:00:00 AM
Project:	LB85680	Date Received:	1/27/2017 12:00:00 AM
Client Sample ID:	ME60Z2	SDG No.:	LB85680
Lab Sample ID:	I1533-04	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	U	1	1.5	5	10	ug/L	02/03/2017	02/03/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/30/2017 12:00:00 AM
Project:	LB85680	Date Received:	2/1/2017 12:00:00 AM
Client Sample ID:	ME6124	SDG No.:	LB85680
Lab Sample ID:	I1533-05	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	U	1	1.5	5	10	ug/L	02/03/2017	02/03/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/31/2017 12:00:00 AM
Project:	LB85680	Date Received:	2/1/2017 12:00:00 AM
Client Sample ID:	ME6128	SDG No.:	LB85680
Lab Sample ID:	I1533-06	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	U	1	1.5	5	10	ug/L	02/03/2017	02/03/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/31/2017 12:00:00 AM
Project:	LB85680	Date Received:	2/1/2017 12:00:00 AM
Client Sample ID:	ME6137	SDG No.:	LB85680
Lab Sample ID:	I1533-09	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	U	1	1.5	5	10	ug/L	02/03/2017	02/03/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/31/2017 12:00:00 AM
Project:	LB85680	Date Received:	2/1/2017 12:00:00 AM
Client Sample ID:	ME6137	SDG No.:	LB85680
Lab Sample ID:	I1533-09	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



SDG No.: LB85680

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB96684BL		WATER		Batch Number:		PB96684		Prep Date:	02/03/2017	
	Cyanide	0.041	<10	U	5.0	10	CN	02/03/2017	13:42	LB85680



metals
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MATRIX SPIKE SUMMARY

client: LB85680 level: low sdg no.: LB85680
contract: lab code: CHEM case no.: LB85680 sas no.: LB85680
matrix: WATER sample id: I1533-06 client id: ME6128S
Percent Solids for Sample: 0 Spiked ID: I1533-08 Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	ug/L	75 - 125	96.4		10.0	U	100	96		CN



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DUPLICATE SAMPLE SUMMARY

Client: LB85680 Level: LOW SDG No.: LB85680
Contract: Lab Code: CHEM Case No.: LB85680 SAS No.: LB85680
Matrix: WATER Sample ID: I1533-06 Client ID: ME6128D
Percent Solids for Sample: 0 Duplicate ID I1533-07 Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	ug/L	20	10.0	U		0	U		CN

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

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SAMPLE PREPARATION SUMMARY

Client: <u>LB85680</u>	SDG No.: <u>LB85680</u>	
Contract: _____	Lab Code: <u>CHEM</u>	Method: _____
	Case No.: <u>LB85680</u>	SAS No.: <u>LB85680</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB96684							
PB96684BL	PBW005	MB	WATER	02/03/2017	50.0	50.0	
I1533-01	ME60X6	SAM	WATER	02/03/2017	50.0	50.0	
I1533-02	ME60X9	SAM	WATER	02/03/2017	50.0	50.0	
I1533-03	ME60Y1	SAM	WATER	02/03/2017	50.0	50.0	
I1533-04	ME60Z2	SAM	WATER	02/03/2017	50.0	50.0	
I1533-05	ME6124	SAM	WATER	02/03/2017	50.0	50.0	
I1533-06	ME6128	SAM	WATER	02/03/2017	50.0	50.0	
I1533-07	ME6128D	DUP	WATER	02/03/2017	50.0	50.0	
I1533-09	ME6137	SAM	WATER	02/03/2017	50.0	50.0	
I1533-08	ME6128S	MS	WATER	02/03/2017	50.0	50.0	