



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	2/16/2017 12:00:00 AM
Project:	LB85946	Date Received:	2/17/2017 12:00:00 AM
Client Sample ID:	WINTER-2017	SDG No.:	LB85946
Lab Sample ID:	I1828-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	-0.00087	U	1	0.001		0.005	mg/L	02/20/2017	02/21/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	2/16/2017 12:00:00 AM
Project:	LB85946	Date Received:	2/16/2017 12:00:00 AM
Client Sample ID:	MANHOLE	SDG No.:	LB85946
Lab Sample ID:	I1880-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.011		1	0.001		0.005	mg/L	02/20/2017	02/21/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	
Project:	LB85946	Date Received:	
Client Sample ID:	MIDPB97056	SDG No.:	LB85946
Lab Sample ID:	MIDPB97056	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.24		1	0.001		0.005	mg/L		02/21/2017	SM4500-CN C,]



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Report of Analysis

Client:		Date Collected:	
Project:	LB85946	Date Received:	
Client Sample ID:	MIDPB97056	SDG No.:	LB85946
Lab Sample ID:	MIDPB97056	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



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB85946

SDG No.: LB85946

Contract: _____ **Lab Code:** CHEM

Case No.: LB85946

SAS No.: LB85946

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	0.095	0.1	95	0	85 - 115		02/21/2017	11:52	LB85946



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB85946

SDG No.: LB85946

Contract: _____ Lab Code: CHEM

Case No.: LB85946

SAS No.: LB85946

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		02/21/2017	11:52	LB85946
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		02/21/2017	11:56	LB85946
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		02/21/2017	13:05	LB85946



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85946

SDG No.: LB85946

Contract:

Lab Code: CHEM

Case No.: LB85946

SAS No.: LB85946

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00057	+/-0.005	U		0.005		02/21/2017	11:52	LB85946



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85946

SDG No.: LB85946

Contract:

Lab Code: CHEM

Case No.: LB85946

SAS No.: LB85946

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00049	+/-0.005	U		0.005		02/21/2017	11:52	LB85946
CCB2	Cyanide	-0.00027	+/-0.005	U		0.005		02/21/2017	11:56	LB85946
CCB3	Cyanide	0.0000223	+/-0.005	U		0.005		02/21/2017	13:05	LB85946



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85946

SDG No.: LB85946

Contract:

Lab Code: CHEM

Case No.: LB85946

SAS No.: LB85946

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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Metals
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PREPARATION BLANK SUMMARY

Client: LB85946

SDG No.: LB85946

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
PB97056BL	Cyanide	-0.00084	<0.005	U						
WATER				Batch Number:		PB97056		Prep Date:	02/20/2017	
						0.005		02/21/2017	11:52	LB85946



metals
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MATRIX SPIKE SUMMARY

client: LB85946 level: low sdg no.: LB85946
contract: lab code: CHEM case no.: LB85946 sas no.: LB85946
matrix: WATER sample id: I1828-01 client id: WINTER-2017MS
Percent Solids for Sample: 0 Spiked ID: I1828-01MS 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	0.02		0.001	U	0.04	50	*	



metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: LB85946 level: low sdg no.: LB85946
contract: lab code: CHEM case no.: LB85946 sas no.: LB85946
matrix: WATER sample id: I1828-01 client id: WINTER-2017MSD
Percent Solids for Sample: 0 Spiked ID: I1828-01MSD 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	0.02		0.001	U	0.04	50	*	

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB85946 **Level:** LOW **SDG No.:** LB85946
Contract: **Lab Code:** CHEM **Case No.:** LB85946 **SAS No.:** LB85946
Matrix: WATER **Sample ID:** I1828-01 **Client ID:** WINTER-2017DUP
Percent Solids for Sample: 0 **Duplicate ID** I1828-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.001	U	-0.0009	U			

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB85946 **Level:** LOW **SDG No.:** LB85946
Contract: **Lab Code:** CHEM **Case No.:** LB85946 **SAS No.:** LB85946
Matrix: WATER **Sample ID:** I1828-01MS **Client ID:** WINTER-2017MSD
Percent Solids for Sample: 0 **Duplicate ID** I1828-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.02		0.02		0		



Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB85946

SDG No.: LB85946

Contract:

Lab Code: CHEM

Case No.: LB85946

SAS No.: LB85946

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB97056BS Cyanide	mg/L	0.1	0.097		97	85 - 115	

Daily Analysis Runlog For Sequence/QC Batch ID # LB85946

Review By		Review On				
SubDirectory LB85946		Test : Cyanide				
STD. NAME		STD REF.#				
ICAL Standard		WP53059,WP53060,WP53061,WP53062,WP53063,WP53064,WP53065,WP53066				
ICV Standard		W1540				
CCV Standard		WP53067				
ICSA Standard						
CRI Standard						
LCS Standard		WP51099				
Chk Standard		WP53058,WP51626,WP51276				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	02/21/17 10:06		OK
2	5.0PPBCN	5.0PPBCN	CAL2	02/21/17 10:06		OK
3	10PPBCN	10PPBCN	CAL3	02/21/17 10:06		OK
4	50PPBCN	50PPBCN	CAL4	02/21/17 10:06		OK
5	100PPBCN	100PPBCN	CAL5	02/21/17 10:06		OK
6	250PPBCN	250PPBCN	CAL6	02/21/17 10:06		OK
7	500PPBCN	500PPBCN	CAL7	02/21/17 10:06		OK
8	ICV1	ICV1	ICV	02/21/17 11:52		OK
9	ICB1	ICB1	ICB	02/21/17 11:52		OK
10	CCV1	CCV1	CCV	02/21/17 11:52		OK
11	CCB1	CCB1	CCB	02/21/17 11:52		OK
12	PB97056BL	PB97056BL	MB	02/21/17 11:52		OK
13	PB97056BS	PB97056BS	LCS	02/21/17 11:52		OK
14	MIDPB97056	MIDPB97056	SAM	02/21/17 11:52		OK
15	I1828-01	WINTER-2017	SAM	02/21/17 11:52		OK
16	I1828-01DUP	WINTER-2017DUP	DUP	02/21/17 11:52		OK
17	I1828-01MS	WINTER-2017MS	MS	02/21/17 11:52		OK
18	I1828-01MSD	WINTER-2017MSD	MSD	02/21/17 11:52		OK
19	I1880-01	MANHOLE	SAM	02/21/17 11:56		OK
20	CCV2	CCV2	CCV	02/21/17 11:56		OK
21	CCB2	CCB2	CCB	02/21/17 11:56		OK

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Daily Analysis Runlog For Sequence/QC Batch ID # LB85946

Review By		Review On				
SubDirectory		LB85946		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP53059,WP53060,WP53061,WP53062,WP53063,WP53064,WP53065,WP53066				
ICV Standard						
CCV Standard						
ICSA Standard						
CRI Standard						
LCS Standard		WP51099				
Chk Standard		WP53058,WP51626,WP51276				
22	I1828-01A	WINTER-2017A	PS	02/21/17 13:05		OK
23	CCV3	CCV3	CCV	02/21/17 13:05		OK
24	CCB3	CCB3	CCB	02/21/17 13:05		OK