

Daily Analysis Runlog For Sequence/QC Batch ID # LB90520

Review By		Review On				
SubDirectory		LB90520		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP58478,WP58479,WP58480,WP58481,WP58482,WP58483,WP58476				
ICV Standard		WP58485				
CCV Standard		WP58484				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58486,WP55355,WP55836				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	10/03/17 09:59		OK
2	5.0PPBCN	5.0PPBCN	CAL2	10/03/17 09:59		OK
3	10PPBCN	10PPBCN	CAL3	10/03/17 09:59		OK
4	50PPBCN	50PPBCN	CAL4	10/03/17 09:59		OK
5	100PPBCN	100PPBCN	CAL5	10/03/17 09:59		OK
6	250PPBCN	250PPBCN	CAL6	10/03/17 09:59		OK
7	500PPBCN	500PPBCN	CAL7	10/03/17 09:59		OK
8	ICV1	ICV1	ICV	10/03/17 11:24		OK
9	ICB1	ICB1	ICB	10/03/17 11:24		OK
10	CCV1	CCV1	CCV	10/03/17 11:24		OK
11	CCB1	CCB1	CCB	10/03/17 11:24		OK
12	PB102819BL	PB102819BL	MB	10/03/17 11:24		OK
13	PB102819BS	PB102819BS	LCS	10/03/17 11:24		OK
14	MIDPB102819	MIDPB102819	SAM	10/03/17 11:24		OK
15	I5571-01	PAMT-COMP-C	SAM	10/03/17 11:24		OK
16	I5571-01DUP	PAMT-COMP-CDUP	DUP	10/03/17 11:24		OK
17	I5571-02	PAMT-COMP-CMS	MS	10/03/17 11:24		OK
18	I5571-03	PAMT-COMP-CMSD	MSD	10/03/17 11:24		OK
19	I5571-04	PAMT-COMP-D	SAM	10/03/17 11:31		OK
20	I5571-05	PAMT-COMP-C-D	SAM	10/03/17 11:31		OK
21	CCV2	CCV2	CCV	10/03/17 11:31		OK

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ICV Standard		WP58485				
CCV Standard		WP58484				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58486,WP55355,WP55836				
22	CCB2	CCB2	CCB	10/03/17 11:31		OK
23	I5571-08	PAMT-COMP-D	SAM	10/03/17 11:57		OK
24	CCV3	CCV3	CCV	10/03/17 11:57		OK
25	CCB3	CCB3	CCB	10/03/17 11:57		OK
26	CCV4	CCV4	CCV	10/03/17 12:19		OK
27	CCB4	CCB4	CCB	10/03/17 12:19		OK
28	I5571-06	PAMT-COMP-C-DMS	MS	10/03/17 12:48		OK
29	I5571-07	PAMT-COMP-C-DMS	MSD	10/03/17 12:48		OK
30	CCV5	CCV5	CCV	10/03/17 13:27		OK
31	CCB5	CCB5	CCB	10/03/17 13:28		OK



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Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90520	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	PAMT-COMP-C	SDG No.:	LB90520
Lab Sample ID:	I5571-01	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	0.0049	J	1	0.001		0.005	mg/L	10/02/2017	10/03/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90520	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	PAMT-COMP-D	SDG No.:	LB90520
Lab Sample ID:	I5571-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.024		1	0.001		0.005	mg/L	10/02/2017	10/03/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90520	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	PAMT-COMP-C-D	SDG No.:	LB90520
Lab Sample ID:	I5571-05	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.0034	J	1	0.001		0.005	mg/L	10/02/2017	10/03/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90520	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	PAMT-COMP-D	SDG No.:	LB90520
Lab Sample ID:	I5571-08	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	0.0023	J	1	0.001		0.005	mg/L	10/02/2017	10/03/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	
Project:	LB90520	Date Received:	
Client Sample ID:	MIDPB102819	SDG No.:	LB90520
Lab Sample ID:	MIDPB102819	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	0.25		1	0.001		0.005	mg/L		10/03/2017	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	
Project:	LB90520	Date Received:	
Client Sample ID:	MIDPB102819	SDG No.:	LB90520
Lab Sample ID:	MIDPB102819	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: LB90520

SDG No.: LB90520

Contract: _____

Lab Code: CHEM

Case No.: LB90520

SAS No.: LB90520

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	0.097	0.099	98	0	85 - 115		10/03/2017	11:24	LB90520

GENCHEM**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Client: LB90520 **SDG No.:** LB90520
Contract: _____ **Lab Code:** CHEM **Case No.:** LB90520 **SAS No.:** LB90520
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		10/03/2017	11:24	LB90520
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		10/03/2017	11:31	LB90520
CCV3	Cyanide	0.26	0.25	104	0	90 - 110		10/03/2017	11:57	LB90520
CCV4	Cyanide	0.26	0.25	104	0	90 - 110		10/03/2017	12:19	LB90520
CCV5	Cyanide	0.25	0.25	100	0	90 - 110		10/03/2017	13:27	LB90520



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90520

SDG No.: LB90520

Contract:

Lab Code: CHEM

Case No.: LB90520

SAS No.: LB90520

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00085	+/-0.005	U		0.005		10/03/2017	11:24	LB90520

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00036	+/-0.005	U		0.005		10/03/2017	11:24	LB90520
CCB2	Cyanide	0.00031	+/-0.005	U		0.005		10/03/2017	11:31	LB90520
CCB3	Cyanide	0.0004	+/-0.005	U		0.005		10/03/2017	11:57	LB90520
CCB4	Cyanide	0.00052	+/-0.005	U		0.005		10/03/2017	12:19	LB90520
CCB5	Cyanide	0.00064	+/-0.005	U		0.005		10/03/2017	13:28	LB90520



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90520

SDG No.: LB90520

Contract: Lab Code: CHEM

Case No.: LB90520

SAS No.: LB90520

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: LB90520

SDG No.: LB90520

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
PB102819BL	Cyanide	WATER 0.00039	<0.005	Batch Number: U		PB102819 0.005		Prep Date: 10/03/2017	10/02/2017 11:24	LB90520



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90520 level: low sdg no.: LB90520
contract: lab code: CHEM case no.: LB90520 sas no.: LB90520
matrix: WATER sample id: I5571-01 client id: PAMT-COMP-CMS
Percent Solids for Sample: 0 Spiked ID: I5571-02 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	0.036		0.0049	J	0.04	78		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90520 level: low sdg no.: LB90520
contract: lab code: CHEM case no.: LB90520 sas no.: LB90520
matrix: WATER sample id: I5571-01 client id: PAMT-COMP-CMSD
Percent Solids for Sample: 0 Spiked ID: I5571-03 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	0.036		0.0049	J	0.04	78		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90520 level: low sdg no.: LB90520
contract: lab code: CHEM case no.: LB90520 sas no.: LB90520
matrix: WATER sample id: I5571-05 client id: PAMT-COMP-C-DMS
Percent Solids for Sample: 0 Spiked ID: I5571-06 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	0.042		0.0034	J	0.04	97		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90520 level: low sdg no.: LB90520
contract: lab code: CHEM case no.: LB90520 sas no.: LB90520
matrix: WATER sample id: I5571-05 client id: PAMT-COMP-C-DMSD
Percent Solids for Sample: 0 Spiked ID: I5571-07 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	0.042		0.0034	J	0.04	97		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90520 **Level:** LOW **SDG No.:** LB90520
Contract: **Lab Code:** CHEM **Case No.:** LB90520 **SAS No.:** LB90520
Matrix: WATER **Sample ID:** I5571-01 **Client ID:** PAMT-COMP-CDUP
Percent Solids for Sample: 0 **Duplicate ID** I5571-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.0049	J	0.0049	J	0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90520 **Level:** LOW **SDG No.:** LB90520
Contract: **Lab Code:** CHEM **Case No.:** LB90520 **SAS No.:** LB90520
Matrix: WATER **Sample ID:** I5571-02 **Client ID:** PAMT-COMP-CMSD
Percent Solids for Sample: 0 **Duplicate ID** I5571-03 **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.036		0.036		0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90520 **Level:** LOW **SDG No.:** LB90520
Contract: **Lab Code:** CHEM **Case No.:** LB90520 **SAS No.:** LB90520
Matrix: WATER **Sample ID:** I5571-06 **Client ID:** PAMT-COMP-C-DMSD
Percent Solids for Sample: 0 **Duplicate ID** I5571-07 **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.042		0.042		0		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90520

SDG No.: LB90520

Contract:

Lab Code: CHEM

Case No.: LB90520

SAS No.: LB90520

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB102819BS Cyanide	mg/L	0.1	0.097		97	85 - 115	