

Daily Analysis Runlog For Sequence/QC Batch ID # LB90405

Review By		Review On				
SubDirectory		LB90405		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP58355,WP58356,WP58357,WP58358,WP58359,WP58360,WP58353				
ICV Standard		WP58362				
CCV Standard		WP58361				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58363,WP55355,WP55836				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	09/28/17 14:29		OK
2	5.0PPBCN	5.0PPBCN	CAL2	09/28/17 14:29		OK
3	10PPBCN	10PPBCN	CAL3	09/28/17 14:29		OK
4	50PPBCN	50PPBCN	CAL4	09/28/17 14:29		OK
5	100PPBCN	100PPBCN	CAL5	09/28/17 14:29		OK
6	250PPBCN	250PPBCN	CAL6	09/28/17 14:29		OK
7	500PPBCN	500PPBCN	CAL7	09/28/17 14:29		OK
8	ICV1	ICV1	ICV	09/28/17 15:31		OK
9	ICB1	ICB1	ICB	09/28/17 15:31		OK
10	CCV1	CCV1	CCV	09/28/17 15:31		OK
11	CCB1	CCB1	CCB	09/28/17 15:31		OK
12	PB102691BL	PB102691BL	MB	09/28/17 15:31		OK
13	PB102691BS	PB102691BS	LCS	09/28/17 15:31		OK
14	LOWPB102691	LOWPB102691	SAM	09/28/17 15:38		OK
15	HIGHPB102691	HIGHPB102691	SAM	09/28/17 15:38		OK
16	I5472-01	TP-1-2-3-4-COMP	SAM	09/28/17 15:38		OK
17	I5473-01	TR-04-092717	SAM	09/28/17 15:38		OK
18	I5475-01	WS-20408-COMP	SAM	09/28/17 15:39		OK
19	I5481-01	HR-06-092717	SAM	09/28/17 15:39		OK
20	I5487-01	CL-02-092717-A	SAM	09/28/17 15:39		OK
21	CCV2	CCV2	CCV	09/28/17 15:46		OK

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ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58363,WP55355,WP55836				
22	CCB2	CCB2	CCB	09/28/17 15:46		OK
23	I5488-01	PAMT-COMP-C	SAM	09/28/17 15:46		OK
24	I5488-01DUP	PAMT-COMP-CDUP	DUP	09/28/17 15:46		OK
25	I5488-02	PAMT-COMP-CMS	MS	09/28/17 15:46		OK
26	I5488-03	PAMT-COMP-CMSD	MSD	09/28/17 15:46		OK
27	I5488-04	PAMT-COMP-D	SAM	09/28/17 15:46		OK
28	I5491-01	OR-02-092717	SAM	09/28/17 15:46		OK
29	I5487-04	CL-02-092717-B	SAM	09/28/17 16:15		OK
30	CCV3	CCV3	CCV	09/28/17 16:15		OK
31	CCB3	CCB3	CCB	09/28/17 16:15		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB90405	Date Received:	
Client Sample ID:	HIGHPB102691	SDG No.:	LB90405
Lab Sample ID:	HIGHPB102691	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	0.48		1	0.003		0.005	mg/L		09/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90405	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	TP-1-2-3-4-COMP	SDG No.:	LB90405
Lab Sample ID:	I5472-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0023	U	1	0.036		0.27	mg/Kg	09/28/2017	09/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90405	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	TR-04-092717	SDG No.:	LB90405
Lab Sample ID:	I5473-01	Matrix:	Solid
Level (low/med):	low	% Solid:	95.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0017	U	1	0.033		0.25	mg/Kg	09/28/2017	09/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90405	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	WS-20408-COMP	SDG No.:	LB90405
Lab Sample ID:	I5475-01	Matrix:	Solid
Level (low/med):	low	% Solid:	84.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.032	U	1	0.038		0.28	mg/Kg	09/28/2017	09/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90405	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	HR-06-092717	SDG No.:	LB90405
Lab Sample ID:	I5481-01	Matrix:	Solid
Level (low/med):	low	% Solid:	94.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0062	U	1	0.034		0.26	mg/Kg	09/28/2017	09/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90405	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	CL-02-092717-A	SDG No.:	LB90405
Lab Sample ID:	I5487-01	Matrix:	Solid
Level (low/med):	low	% Solid:	95

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.037	J	1	0.033		0.25	mg/Kg	09/28/2017	09/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90405	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	CL-02-092717-B	SDG No.:	LB90405
Lab Sample ID:	I5487-04	Matrix:	Solid
Level (low/med):	low	% Solid:	92.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.036	J	1	0.034		0.26	mg/Kg	09/28/2017	09/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/26/2017 12:00:00 AM
Project:	LB90405	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	PAMT-COMP-C	SDG No.:	LB90405
Lab Sample ID:	I5488-01	Matrix:	Solid
Level (low/med):	low	% Solid:	55.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.046	U	1	0.058		0.44	mg/Kg	09/28/2017	09/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/26/2017 12:00:00 AM
Project:	LB90405	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	PAMT-COMP-D	SDG No.:	LB90405
Lab Sample ID:	I5488-04	Matrix:	Solid
Level (low/med):	low	% Solid:	53.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.26	J	1	0.059		0.45	mg/Kg	09/28/2017	09/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90405	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	OR-02-092717	SDG No.:	LB90405
Lab Sample ID:	I5491-01	Matrix:	Solid
Level (low/med):	low	% Solid:	98.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.029	U	1	0.031		0.24	mg/Kg	09/28/2017	09/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB90405	Date Received:	
Client Sample ID:	LOWPB102691	SDG No.:	LB90405
Lab Sample ID:	LOWPB102691	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	0.0092		1	0.003		0.005	mg/L		09/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB90405	Date Received:	
Client Sample ID:	LOWPB102691	SDG No.:	LB90405
Lab Sample ID:	LOWPB102691	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: LB90405

SDG No.: LB90405

Contract: _____ Lab Code: CHEM

Case No.: LB90405

SAS No.: LB90405

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		09/28/2017	15:31	LB90405
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		09/28/2017	15:46	LB90405
CCV3	Cyanide	0.26	0.25	104	0	90 - 110		09/28/2017	16:15	LB90405

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00021	+/-0.005	U		0.005		09/28/2017	15:31	LB90405
CCB2	Cyanide	-0.00027	+/-0.005	U		0.005		09/28/2017	15:46	LB90405
CCB3	Cyanide	-0.00019	+/-0.005	U		0.005		09/28/2017	16:15	LB90405



GENCHEM

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90405

SDG No.: LB90405

Contract: Lab Code: CHEM

Case No.: LB90405

SAS No.: LB90405

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: LB90405

SDG No.: LB90405

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
PB102691BL		SOLID		Batch Number:		PB102691		Prep Date:	09/28/2017	
	Cyanide	-0.032	<0.25	U		0.25		09/28/2017	15:31	LB90405



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90405 level: low sdg no.: LB90405
contract: lab code: CHEM case no.: LB90405 sas no.: LB90405
matrix: Solid sample id: I5488-01 client id: PAMT-COMP-CMS
Percent Solids for Sample: 55.6 Spiked ID: I5488-02 Percent Solids for Spike Sample: 55.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.058	U	3.5	48.6	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90405 level: low sdg no.: LB90405
contract: lab code: CHEM case no.: LB90405 sas no.: LB90405
matrix: Solid sample id: I5488-01 client id: PAMT-COMP-CMSD
Percent Solids for Sample: 55.6 Spiked ID: I5488-03 Percent Solids for Spike Sample: 55.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.058	U	3.4	50	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB90405 **Level:** LOW **SDG No.:** LB90405
Contract: **Lab Code:** CHEM **Case No.:** LB90405 **SAS No.:** LB90405
Matrix: Solid **Sample ID:** I5488-01 **Client ID:** PAMT-COMP-CDUP
Percent Solids for Sample: 55.6 **Duplicate ID** I5488-01DUP **Percent Solids for Spike Sample:** 55.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.058	U	-0.015	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB90405 **Level:** LOW **SDG No.:** LB90405
Contract: **Lab Code:** CHEM **Case No.:** LB90405 **SAS No.:** LB90405
Matrix: Solid **Sample ID:** I5488-02 **Client ID:** PAMT-COMP-CMSD
Percent Solids for Sample: 55.6 **Duplicate ID** I5488-03 **Percent Solids for Spike Sample:** 55.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.7		1.7		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90405 SDG No.: LB90405
Contract: Lab Code: CHEM Case No.: LB90405 SAS No.: LB90405

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB102691BS Cyanide	mg/Kg	4.9	4.6		93.9	85 - 115	
