

Daily Analysis Runlog For Sequence/QC Batch ID # LB92410

Review By		Review On				
SubDirectory		LB92410		Test : Ammonia		
STD. NAME		STD REF.#				
ICAL Standard		WP60614				
ICV Standard		WP60616				
CCV Standard		WP60615				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP60507				
Chk Standard		WP57031,WP60149,WP59925,WP59926				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.1PPM	0.1PPM	CAL1	12/27/17 14:48		OK
2	0.2PPM	0.2PPM	CAL2	12/27/17 14:48		OK
3	0.4PPM	0.4PPM	CAL3	12/27/17 14:48		OK
4	1.0PPM	1.0PPM	CAL4	12/27/17 14:48		OK
5	1.3PPM	1.3PPM	CAL5	12/27/17 14:48		OK
6	2.0PPM	2.0PPM	CAL6	12/27/17 14:48		OK
7	ICV1	ICV1	ICV	12/27/17 15:55		OK
8	ICB1	ICB1	ICB	12/27/17 15:55		OK
9	CCV1	CCV1	CCV	12/27/17 15:55		OK
10	CCB1	CCB1	CCB	12/27/17 15:55		OK
11	PB105372BL	PB105372BL	MB	12/27/17 15:55		OK
12	PB105372BS	PB105372BS	LCS	12/27/17 15:55		OK
13	I7054-01	MW-1	SAM	12/27/17 15:55		OK
14	I7054-01DUP	MW-1DUP	DUP	12/27/17 15:55		OK
15	I7054-01MS	MW-1MS	MS	12/27/17 15:55		OK
16	I7054-01MSD	MW-1MSD	MSD	12/27/17 15:55		OK
17	I7054-02	MW-3	SAM	12/27/17 15:55	Ammonia High	Dilution
18	I7054-03	MW-4	SAM	12/27/17 16:01	Ammonia High	Dilution
19	I7054-04	MW-2	SAM	12/27/17 16:01	Ammonia High	Dilution
20	CCV2	CCV2	CCV	12/27/17 16:01		OK
21	CCB2	CCB2	CCB	12/27/17 16:01		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB92410

Review By		Review On				
SubDirectory		LB92410		Test : Ammonia		
STD. NAME		STD REF.#				
ICAL Standard		WP60614				
ICV Standard		WP60616				
CCV Standard		WP60615				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP60507				
Chk Standard		WP57031,WP60149,WP59925,WP59926				
22	I7054-02DL	MW-3DL	SAM	12/27/17 16:22	10x For Ammonia	Confirms
23	I7054-03DL	MW-4DL	SAM	12/27/17 16:22	5x For Ammonia	Confirms
24	I7054-04DL	MW-2DL	SAM	12/27/17 16:22	5x For Ammonia	Confirms
25	CCV3	CCV3	CCV	12/27/17 16:22		OK
26	CCB3	CCB3	CCB	12/27/17 16:22		OK



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Report of Analysis

Client:		Date Collected:	12/21/2017 12:00:00 AM
Project:	LB92410	Date Received:	12/22/2017 12:00:00 AM
Client Sample ID:	MW-1	SDG No.:	LB92410
Lab Sample ID:	I7054-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.067	J	1	0.034		0.1	mg/L	12/27/2017	12/27/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	12/21/2017 12:00:00 AM
Project:	LB92410	Date Received:	12/22/2017 12:00:00 AM
Client Sample ID:	MW-3	SDG No.:	LB92410
Lab Sample ID:	I7054-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	13.9	OR	1	0.034		0.1	mg/L	12/27/2017	12/27/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	12/21/2017 12:00:00 AM
Project:	LB92410	Date Received:	12/22/2017 12:00:00 AM
Client Sample ID:	MW-3DL	SDG No.:	LB92410
Lab Sample ID:	I7054-02DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	13.2	D	10	0.34		1	mg/L	12/27/2017	12/27/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	12/21/2017 12:00:00 AM
Project:	LB92410	Date Received:	12/22/2017 12:00:00 AM
Client Sample ID:	MW-4	SDG No.:	LB92410
Lab Sample ID:	I7054-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	3.4	OR	1	0.034		0.1	mg/L	12/27/2017	12/27/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	12/21/2017 12:00:00 AM
Project:	LB92410	Date Received:	12/22/2017 12:00:00 AM
Client Sample ID:	MW-4DL	SDG No.:	LB92410
Lab Sample ID:	I7054-03DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	3.2	D	5	0.17		0.5	mg/L	12/27/2017	12/27/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	12/21/2017 12:00:00 AM
Project:	LB92410	Date Received:	12/22/2017 12:00:00 AM
Client Sample ID:	MW-2	SDG No.:	LB92410
Lab Sample ID:	I7054-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	3.5	OR	1	0.034		0.1	mg/L	12/27/2017	12/27/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	12/21/2017 12:00:00 AM
Project:	LB92410	Date Received:	12/22/2017 12:00:00 AM
Client Sample ID:	MW-2DL	SDG No.:	LB92410
Lab Sample ID:	I7054-04DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	3.6	D	5	0.17		0.5	mg/L	12/27/2017	12/27/2017	SM4500-NH3



Report of Analysis

Client:		Date Collected:	12/21/2017 12:00:00 AM
Project:	LB92410	Date Received:	12/22/2017 12:00:00 AM
Client Sample ID:	MW-2DL	SDG No.:	LB92410
Lab Sample ID:	I7054-04DL	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: LB92410

SDG No.: LB92410

Contract: _____

Lab Code: CHEM

Case No.: LB92410

SAS No.: LB92410

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	Ammonia as N	0.97	1	97	0	90 - 110		12/27/2017	15:55	lb92410



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92410

SDG No.: LB92410

Contract: _____ Lab Code: CHEM

Case No.: LB92410

SAS No.: LB92410

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	Ammonia as N	0.97	1	97	0	90 - 110		12/27/2017	15:55	lb92410
CCV2	Ammonia as N	1	1	100	0	90 - 110		12/27/2017	16:01	lb92410
CCV3	Ammonia as N	0.97	1	97	0	90 - 110		12/27/2017	16:22	lb92410



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92410 SDG No.: LB92410
Contract: Lab Code: CHEM Case No.: LB92410 SAS No.: LB92410

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Ammonia as N	0.016	+/-0.1	U		0.1		12/27/2017	15:55	lb92410



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92410

SDG No.: LB92410

Contract:

Lab Code: CHEM

Case No.: LB92410

SAS No.: LB92410

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Ammonia as N	0.015	+/-0.1	U			0.1	12/27/2017	15:55	1b92410
CCB2	Ammonia as N	0.023	+/-0.1	U			0.1	12/27/2017	16:01	1b92410
CCB3	Ammonia as N	0.015	+/-0.1	U			0.1	12/27/2017	16:22	1b92410



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92410

SDG No.: LB92410

Contract: Lab Code: CHEM

Case No.: LB92410

SAS No.: LB92410

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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- 3b -
PREPARATION BLANK SUMMARY

Client: LB92410

SDG No.: LB92410

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
PB105372BL		WATER		Batch Number:		PB105372		Prep Date:	12/27/2017	
	Ammonia as N	0.018	<0.1	U		0.1		12/27/2017	15:55	lb92410



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB92410 level: low sdg no.: LB92410
contract: lab code: CHEM case no.: LB92410 sas no.: LB92410
matrix: WATER sample id: I7054-01 client id: MW-1MS
Percent Solids for Sample: 0 Spiked ID: I7054-01MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Ammonia as N	mg/L	75 - 125	0.97		0.067	J	1	90		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB92410 level: low sdg no.: LB92410
contract: lab code: CHEM case no.: LB92410 sas no.: LB92410
matrix: WATER sample id: I7054-01 client id: MW-1MSD
Percent Solids for Sample: 0 Spiked ID: I7054-01MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Ammonia as N	mg/L	75 - 125	0.93		0.067	J	1	86		

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DUPLICATE SAMPLE SUMMARY

Client: LB92410 **Level:** LOW **SDG No.:** LB92410
Contract: **Lab Code:** CHEM **Case No.:** LB92410 **SAS No.:** LB92410
Matrix: WATER **Sample ID:** I7054-01 **Client ID:** MW-1DUP
Percent Solids for Sample: 0 **Duplicate ID** I7054-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Ammonia as N	mg/L	20	0.067	J	0.069	J	3		

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DUPLICATE SAMPLE SUMMARY

Client: LB92410 **Level:** LOW **SDG No.:** LB92410
Contract: **Lab Code:** CHEM **Case No.:** LB92410 **SAS No.:** LB92410
Matrix: WATER **Sample ID:** I7054-01MS **Client ID:** MW-1MSD
Percent Solids for Sample: 0 **Duplicate ID** I7054-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Ammonia as N	mg/L	20	0.97		0.93		4		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92410

SDG No.: LB92410

Contract:

Lab Code: CHEM

Case No.: LB92410

SAS No.: LB92410

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB105372BS Ammonia as N	mg/L	1	0.99		99	80 - 120	