CHEMTECH

Instrument ID : KONELAB

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

Daily Analysis Runlog For Sequence/QCBatch ID # LB90492

Review By

Review On

SubDirectory LB90492

Test : Ammonia

STD. NAME	STD REF.#
ICAL Standard	wp58450
ICV Standard	wp58452
CCV Standard	wp58451
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP57031,WP58272,WP58041,WP58040

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.1PPM	0.1PPM	CAL1	10/02/17 10:06		OK
2	0.2PPM	0.2PPM	CAL2	10/02/17 10:06		OK
3	0.4PPM	0.4PPM	CAL3	10/02/17 10:06		OK
4	1.0PPM	1.0PPM	CAL4	10/02/17 10:06		OK
5	1.3PPM	1.3PPM	CAL5	10/02/17 10:06		OK
6	2.0PPM	2.0PPM	CAL6	10/02/17 10:06		OK
7	ICV1	ICV1	ICV	10/02/17 10:52		OK
8	ICB1	ICB1	ICB	10/02/17 10:52		OK
9	CCV1	CCV1	CCV	10/02/17 10:52		OK
10	CCB1	CCB1	CCB	10/02/17 10:52		OK
11	PB102790BL	PB102790BL	MB	10/02/17 10:52		OK
12	PB102790BS	PB102790BS	LCS	10/02/17 10:52		OK
13	I5442-01	20170660-A-C-1	SAM	10/02/17 10:52	High	Dilution
14	I5442-01DUP	20170660-A-C-1DUP	DUP	10/02/17 11:03	High	Dilution
15	I5442-02	20170661-A-C-2	SAM	10/02/17 11:03		OK
16	I5442-03	20170662-A-C-3	SAM	10/02/17 11:03		OK
17	I5442-04	20170663-A-C-4	SAM	10/02/17 11:03		OK
18	I5442-05	20170664-A-C-5	SAM	10/02/17 11:03		OK
19	CCV2	CCV2	CCV	10/02/17 11:03		OK
20	CCB2	CCB2	CCB	10/02/17 11:03		OK
21	I5442-06	20170665-A-C-6	SAM	10/02/17 11:03	High	Dilution

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Review By Review On

SubDirectory LB90492 Test : Ammonia

STD. NAME	STD REF.#
ICAL Standard	wp58450
ICV Standard	wp58452
CCV Standard	wp58451
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP57031,WP58272,WP58041,WP58040

22	I5442-07	20170666-A-C-7	SAM	10/02/17 11:03		OK
23	I5442-08	20170667-A-C-8	SAM	10/02/17 11:03	High	Dilution
24	I5442-09	20170668-A-C-9	SAM	10/02/17 11:10	High	Dilution
25	I5442-10	20170669-A-C-10	SAM	10/02/17 11:10	High	Dilution
26	I5442-11	20170670-A-C-11	SAM	10/02/17 11:10	High	Dilution
27	I5442-12	20170671-A-C-12	SAM	10/02/17 11:10	High	Dilution
28	I5442-01MS	20170660-A-C-1MS	MS	10/02/17 11:53	High	Dilution
29	I5442-01MSD	20170660-A-C-1MSD	MSD	10/02/17 11:53	High	Dilution
30	CCV3	CCV3	CCV	10/02/17 11:53		OK
31	CCB3	CCB3	CCB	10/02/17 11:53		OK
32	I5442-01DL	20170660-A-C-1DL	SAM	10/02/17 11:53	5X Report	Confirms
33	I5442-01DUPDL	20170660-A-C-1DUP	DUP	10/02/17 11:53	5X Report	Confirms
34	I5442-01MSDL	20170660-A-C-1MSD	MS	10/02/17 11:53	5X Report	Confirms
35	I5442-01MSDDL	20170660-A-C-1MSD	MSD	10/02/17 11:53	5X Report	Confirms
36	I5442-06DL	20170665-A-C-6DL	SAM	10/02/17 12:45	10X Report	Confirms
37	I5442-08DL	20170667-A-C-8DL	SAM	10/02/17 12:45	10X Report	Confirms
38	I5442-09DL	20170668-A-C-9DL	SAM	10/02/17 12:45	10X Report	Confirms
39	I5442-10DL	20170669-A-C-10DL	SAM	10/02/17 12:45	10X Report	Confirms
40	I5442-11DL	20170670-A-C-11DL	SAM	10/02/17 12:45	10X Report	Confirms
41	I5442-12DL	20170671-A-C-12DL	SAM	10/02/17 12:45	10X Report	Confirms
42	CCV4	CCV4	CCV	10/02/17 12:45		OK
43	CCB4	CCB4	CCB	10/02/17 12:45		OK

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Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90492	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	20170660-A-C-1	SDG No.:	LB90492
Lab Sample ID:	I5442-01	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	2.7	OR	1	0.034		0.1	mg/L		10/02/2017	SM4500-NH3

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Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90492	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	20170660-A-C-1DL	SDG No.:	LB90492
Lab Sample ID:	I5442-01DL	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	7.4	D	5	0.17		0.5	mg/L		10/02/2017	SM4500-NH3

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Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90492	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	20170661-A-C-2	SDG No.:	LB90492
Lab Sample ID:	I5442-02	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	0.15		1	0.034		0.1	mg/L		10/02/2017	SM4500-NH3

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Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90492	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	20170662-A-C-3	SDG No.:	LB90492
Lab Sample ID:	I5442-03	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	0.33		1	0.034		0.1	mg/L		10/02/2017	SM4500-NH3

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Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90492	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	20170663-A-C-4	SDG No.:	LB90492
Lab Sample ID:	I5442-04	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	0.51		1	0.034		0.1	mg/L		10/02/2017	SM4500-NH3

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Report of Analysis

Client:		Date Collected:	9/25/2017 12:00:00 AM
Project:	LB90492	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	20170664-A-C-5	SDG No.:	LB90492
Lab Sample ID:	I5442-05	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.49		1	0.034		0.1	mg/L		10/02/2017	SM4500-NH3

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Report of Analysis

Client:		Date Collected:	9/25/2017 12:00:00 AM
Project:	LB90492	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	20170665-A-C-6	SDG No.:	LB90492
Lab Sample ID:	I5442-06	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	5.7	OR	1	0.034		0.1	mg/L		10/02/2017	SM4500-NH3

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Report of Analysis

Client:		Date Collected:	9/25/2017 12:00:00 AM
Project:	LB90492	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	20170665-A-C-6DL	SDG No.:	LB90492
Lab Sample ID:	I5442-06DL	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	11	D	10	0.34		1	mg/L		10/02/2017	SM4500-NH3

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Report of Analysis

Client:		Date Collected:	9/25/2017 12:00:00 AM
Project:	LB90492	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	20170666-A-C-7	SDG No.:	LB90492
Lab Sample ID:	I5442-07	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	1.9		1	0.034		0.1	mg/L		10/02/2017	SM4500-NH3

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Report of Analysis

Client:		Date Collected:	9/25/2017 12:00:00 AM
Project:	LB90492	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	20170667-A-C-8	SDG No.:	LB90492
Lab Sample ID:	I5442-08	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	4.9	OR	1	0.034		0.1	mg/L		10/02/2017	SM4500-NH3

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Report of Analysis

Client:		Date Collected:	9/25/2017 12:00:00 AM
Project:	LB90492	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	20170667-A-C-8DL	SDG No.:	LB90492
Lab Sample ID:	I5442-08DL	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	11.6	D	10	0.34		1	mg/L		10/02/2017	SM4500-NH3

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Report of Analysis

Client:		Date Collected:	9/25/2017 12:00:00 AM
Project:	LB90492	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	20170668-A-C-9	SDG No.:	LB90492
Lab Sample ID:	I5442-09	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	3.7	OR	1	0.034		0.1	mg/L		10/02/2017	SM4500-NH3

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Report of Analysis

Client:		Date Collected:	9/25/2017 12:00:00 AM
Project:	LB90492	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	20170668-A-C-9DL	SDG No.:	LB90492
Lab Sample ID:	I5442-09DL	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	10.8	D	10	0.34		1	mg/L		10/02/2017	SM4500-NH3

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Report of Analysis

Client:		Date Collected:	9/25/2017 12:00:00 AM
Project:	LB90492	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	20170669-A-C-10	SDG No.:	LB90492
Lab Sample ID:	I5442-10	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	2.8	OR	1	0.034		0.1	mg/L		10/02/2017	SM4500-NH3

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Report of Analysis

Client:		Date Collected:	9/25/2017 12:00:00 AM
Project:	LB90492	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	20170669-A-C-10DL	SDG No.:	LB90492
Lab Sample ID:	I5442-10DL	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	5.8	D	10	0.34		1	mg/L		10/02/2017	SM4500-NH3

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Report of Analysis

Client:		Date Collected:	9/25/2017 12:00:00 AM
Project:	LB90492	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	20170670-A-C-11	SDG No.:	LB90492
Lab Sample ID:	I5442-11	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	5	OR	1	0.034		0.1	mg/L		10/02/2017	SM4500-NH3

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Report of Analysis

Client:		Date Collected:	9/25/2017 12:00:00 AM
Project:	LB90492	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	20170670-A-C-11DL	SDG No.:	LB90492
Lab Sample ID:	I5442-11DL	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	11.6	D	10	0.34		1	mg/L		10/02/2017	SM4500-NH3

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

Report of Analysis

Client:		Date Collected:	9/25/2017 12:00:00 AM
Project:	LB90492	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	20170671-A-C-12	SDG No.:	LB90492
Lab Sample ID:	I5442-12	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	8.4	OR	1	0.034		0.1	mg/L		10/02/2017	SM4500-NH3

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

Report of Analysis

Client:		Date Collected:	9/25/2017 12:00:00 AM
Project:	LB90492	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	20170671-A-C-12DL	SDG No.:	LB90492
Lab Sample ID:	I5442-12DL	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	14.8	D	10	0.34		1	mg/L		10/02/2017	SM4500-NH3

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

Report of Analysis

Client:		Date Collected:	9/25/2017 12:00:00 AM
Project:	LB90492	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	20170671-A-C-12DL	SDG No.:	LB90492
Lab Sample ID:	I5442-12DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.

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

CHEMTECH

GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90492 **SDG No.:** LB90492

Contract: **Lab Code:** CHEM **Case No.:** LB90492 **SAS No.:** LB90492

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	0.92	1	92	0	90 - 110		10/02/2017	10:52	LB90492

CHEMTECH

GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90492 **SDG No.:** LB90492

Contract: **Lab Code:** CHEM **Case No.:** LB90492 **SAS No.:** LB90492

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	0.96	1	96	0	90 - 110		10/02/2017	10:52	LB90492
CCV2	Ammonia as N	0.97	1	97	0	90 - 110		10/02/2017	11:03	LB90492
CCV3	Ammonia as N	0.93	1	93	0	90 - 110		10/02/2017	11:53	LB90492
CCV4	Ammonia as N	0.95	1	95	0	90 - 110		10/02/2017	12:45	LB90492

CHEMTECH

GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90492 **SDG No.:** LB90492

Contract: **Lab Code:** CHEM **Case No.:** LB90492 **SAS No.:** LB90492

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Ammonia as N	-0.017	+/-0.1	U		0.1		10/02/2017	10:52	LB90492

CHEMTECH

GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90492 **SDG No.:** LB90492

Contract: **Lab Code:** CHEM **Case No.:** LB90492 **SAS No.:** LB90492

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Ammonia as N	-0.013	+/-0.1	U		0.1		10/02/2017	10:52	LB90492
CCB2	Ammonia as N	-0.0094	+/-0.1	U		0.1		10/02/2017	11:03	LB90492
CCB3	Ammonia as N	-0.017	+/-0.1	U		0.1		10/02/2017	11:53	LB90492
CCB4	Ammonia as N	-0.014	+/-0.1	U		0.1		10/02/2017	12:45	LB90492

CHEMTECH

GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90492 **SDG No.:** LB90492

Contract: **Lab Code:** CHEM **Case No.:** LB90492 **SAS No.:** LB90492

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

CHEMTECH

GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB90492 **SDG No.:** LB90492

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
PB102790BL		**WATER**		**Batch Number:**				**Prep Date:**		
	Ammonia as N	-0.019	<0.1	U		0.1		10/02/2017	10:52	LB90492

CHEMTECH

GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90492 **level:** low **sdg no.:** LB90492

contract: **lab code:** CHEM **case no.:** LB90492 **sas no.:** LB90492

matrix: WATER **sample id:** I5442-01 **client id:** 20170660-A-C-1MS

Percent Solids for Sample: 0 **Spiked ID:** I5442-01MS **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	3.2	OR	2.7	OR	1	50	*	

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GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90492 **level:** low **sdg no.:** LB90492

contract: **lab code:** CHEM **case no.:** LB90492 **sas no.:** LB90492

matrix: WATER **sample id:** I5442-01 **client id:** 20170660-A-C-1MSD

Percent Solids for Sample: 0 **Spiked ID:** I5442-01MSD **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	3.2	OR	2.7	OR	1	50	*	

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GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90492 **level:** low **sdg no.:** LB90492

contract: **lab code:** CHEM **case no.:** LB90492 **sas no.:** LB90492

matrix: WATER **sample id:** I5442-01DL **client id:** 20170660-A-C-1MSDDL

Percent Solids for Sample: 0 **Spiked ID:** I5442-01MSDDL **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	6.9	D	7.4	D	1	-50	*	

CHEMTECH

GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90492 **level:** low **sdg no.:** LB90492

contract: **lab code:** CHEM **case no.:** LB90492 **sas no.:** LB90492

matrix: WATER **sample id:** I5442-01DL **client id:** 20170660-A-C-1MSDL

Percent Solids for Sample: 0 **Spiked ID:** I5442-01MSDL **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	6.8	D	7.4	D	1	-60	*	

CHEMTECH

GENCHEM

DUPLICATE SAMPLE SUMMARY

Client: LB90492 **Level:** LOW **SDG No.:** LB90492

Contract: **Lab Code:** CHEM **Case No.:** LB90492 **SAS No.:** LB90492

Matrix: WATER **Sample ID:** I5442-01 **Client ID:** 20170660-A-C-1DUP

Percent Solids for Sample: 0 **Duplicate ID** I5442-01DUP **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	2.7	OR	2.8	OR	4		

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

CHEMTECH

GENCHEM

DUPLICATE SAMPLE SUMMARY

Client: LB90492 **Level:** LOW **SDG No.:** LB90492

Contract: **Lab Code:** CHEM **Case No.:** LB90492 **SAS No.:** LB90492

Matrix: WATER **Sample ID:** I5442-01DL **Client ID:** 20170660-A-C-1DUPDL

Percent Solids for Sample: 0 **Duplicate ID** I5442-01DUPDL **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	7.4	D	7.2	D	3		

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

CHEMTECH

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB90492 **Level:** LOW **SDG No.:** LB90492

Contract: **Lab Code:** CHEM **Case No.:** LB90492 **SAS No.:** LB90492

Matrix: WATER **Sample ID:** I5442-01MS **Client ID:** 20170660-A-C-1MSD

Percent Solids for Sample: 0 **Duplicate ID** I5442-01MSD **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	3.2	OR	3.2	OR	0		

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

CHEMTECH

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90492 **Level:** LOW **SDG No.:** LB90492

Contract: **Lab Code:** CHEM **Case No.:** LB90492 **SAS No.:** LB90492

Matrix: WATER **Sample ID:** I5442-01MSDL **Client ID:** 20170660-A-C-1MSDDL

Percent Solids for Sample: 0 **Duplicate ID** I5442-01MSDDL **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	6.8	D	6.9	D	1		

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

CHEMTECH

GENCHEM

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90492 **SDG No.:** LB90492

Contract: **Lab Code:** CHEM **Case No.:** LB90492 **SAS No.:** LB90492

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB102790BS							
Ammonia as N	mg/L	1	0.96		96	80 - 120	