







**GENCHEM**

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### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB88485

SDG No.: LB88485

**Contract:**

Lab Code: CHEM

**Case No.:** LB88485

**SAS No.:** LB88485

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Ammonia as N	-0.013	+/-0.1	U		0.1		06/30/2017	20:04	LB88485



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### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB88485

SDG No.: LB88485

**Contract:**

Lab Code: CHEM

**Case No.:** LB88485

**SAS No.:** LB88485

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	06/30/2017	20:04	LB88485
CCB2	Ammonia as N	0.0025	+/-0.1	U			0.1	06/30/2017	20:14	LB88485
CCB3	Ammonia as N	-0.0094	+/-0.1	U			0.1	06/30/2017	20:15	LB88485
CCB4	Ammonia as N	-0.0019	+/-0.1	U			0.1	06/30/2017	20:41	LB88485



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88485

SDG No.: LB88485

Contract: Lab Code: CHEM

Case No.: LB88485

SAS No.: LB88485

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

Client:		Date Collected:	6/22/2017 12:00:00 AM
Project:	LB88485	Date Received:	6/23/2017 12:00:00 AM
Client Sample ID:	MW-1	SDG No.:	LB88485
Lab Sample ID:	I3900-01	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	0.11		1	0.034		0.1	mg/L	06/29/2017	06/30/2017	SM4500-NH3



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## Report of Analysis

Client:		Date Collected:	6/22/2017 12:00:00 AM
Project:	LB88485	Date Received:	6/23/2017 12:00:00 AM
Client Sample ID:	MW-3	SDG No.:	LB88485
Lab Sample ID:	I3900-02	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	2.6	OR	1	0.034		0.1	mg/L	06/29/2017	06/30/2017	SM4500-NH3



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## Report of Analysis

Client:		Date Collected:	6/22/2017 12:00:00 AM
Project:	LB88485	Date Received:	6/23/2017 12:00:00 AM
Client Sample ID:	MW-3DL	SDG No.:	LB88485
Lab Sample ID:	I3900-02DL	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	2.6	D	2	0.068		0.2	mg/L	06/29/2017	06/30/2017	SM4500-NH3





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## Report of Analysis

Client:		Date Collected:	6/22/2017 12:00:00 AM
Project:	LB88485	Date Received:	6/23/2017 12:00:00 AM
Client Sample ID:	MW-4	SDG No.:	LB88485
Lab Sample ID:	I3900-03	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	2.4	OR	1	0.034		0.1	mg/L	06/29/2017	06/30/2017	SM4500-NH3



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## Report of Analysis

Client:		Date Collected:	6/22/2017 12:00:00 AM
Project:	LB88485	Date Received:	6/23/2017 12:00:00 AM
Client Sample ID:	MW-4DL	SDG No.:	LB88485
Lab Sample ID:	I3900-03DL	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	2.5	D	2	0.068		0.2	mg/L	06/29/2017	06/30/2017	SM4500-NH3



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## Report of Analysis

Client:		Date Collected:	6/22/2017 12:00:00 AM
Project:	LB88485	Date Received:	6/23/2017 12:00:00 AM
Client Sample ID:	MW-2	SDG No.:	LB88485
Lab Sample ID:	I3900-04	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	12	OR	1	0.034		0.1	mg/L	06/29/2017	06/30/2017	SM4500-NH3



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## Report of Analysis

Client:		Date Collected:	6/22/2017 12:00:00 AM
Project:	LB88485	Date Received:	6/23/2017 12:00:00 AM
Client Sample ID:	MW-2DL	SDG No.:	LB88485
Lab Sample ID:	I3900-04DL	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	11.8	D	10	0.34		1	mg/L	06/29/2017	06/30/2017	SM4500-NH3



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## Report of Analysis

Client:		Date Collected:	6/28/2017 12:00:00 AM
Project:	LB88485	Date Received:	6/28/2017 12:00:00 AM
Client Sample ID:	FK-PS-01-009	SDG No.:	LB88485
Lab Sample ID:	I3968-01	Matrix:	Solid
Level (low/med):	low	% Solid:	90.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	17.5		1	1.8		5.4	mg/Kg	06/29/2017	06/30/2017	SM4500-NH3



## Report of Analysis

Client:		Date Collected:	6/28/2017 12:00:00 AM
Project:	LB88485	Date Received:	6/28/2017 12:00:00 AM
Client Sample ID:	FK-PS-01-009	SDG No.:	LB88485
Lab Sample ID:	I3968-01	Matrix:	Solid
Level (low/med):	low	% Solid:	90.7

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



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**PREPARATION BLANK SUMMARY**

**Client:** LB88485

**SDG No.:** LB88485

**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
PB100309BL	Ammonia as N	WATER		Batch Number:		PB100309		Prep Date:	06/29/2017	
		-0.014	<0.1	U		0.1		06/30/2017	20:04	LB88485
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB100310BL	Ammonia as N	SOLID		Batch Number:		PB100310		Prep Date:	06/29/2017	
		-0.73	<4.9	U		4.9		06/30/2017	20:04	LB88485



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MATRIX SPIKE SUMMARY

client: LB88485 level: low sdg no.: LB88485  
contract: lab code: CHEM case no.: LB88485 sas no.: LB88485  
matrix: WATER sample id: I3900-01 client id: MW-1MS  
Percent Solids for Sample: 0 Spiked ID: I3900-01MS 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	1.1		0.11		1	99		





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MATRIX SPIKE DUPLICATE SUMMARY

client: LB88485 level: low sdg no.: LB88485  
contract: lab code: CHEM case no.: LB88485 sas no.: LB88485  
matrix: WATER sample id: I3900-01 client id: MW-1MSD  
Percent Solids for Sample: 0 Spiked ID: I3900-01MSD 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	1.1		0.11		1	99		



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MATRIX SPIKE SUMMARY

client: LB88485 level: low sdg no.: LB88485  
contract: lab code: CHEM case no.: LB88485 sas no.: LB88485  
matrix: Solid sample id: I3968-01 client id: FK-PS-01-009MS  
Percent Solids for Sample: 90.7 Spiked ID: I3968-01MS Percent Solids for Spike Sample: 90.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Ammonia as N	mg/Kg	75 - 125	59		17.5		54	77		



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MATRIX SPIKE DUPLICATE SUMMARY

client: LB88485 level: low sdg no.: LB88485  
contract: lab code: CHEM case no.: LB88485 sas no.: LB88485  
matrix: Solid sample id: I3968-01 client id: FK-PS-01-009MSD  
Percent Solids for Sample: 90.7 Spiked ID: I3968-01MSD Percent Solids for Spike Sample: 90.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Ammonia as N	mg/Kg	75 - 125	58.1		17.5		53.5	76		

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DUPLICATE SAMPLE SUMMARY

Client: LB88485 Level: LOW SDG No.: LB88485  
Contract: Lab Code: CHEM Case No.: LB88485 SAS No.: LB88485  
Matrix: WATER Sample ID: I3900-01 Client ID: MW-1DUP  
Percent Solids for Sample: 0 Duplicate ID I3900-01DUP 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	0.11		0.11		0		

“A control limit of  $\pm 20\%$  RPD for each matrix applies for sample values greater than 10 times Detection Limit”

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## DUPLICATE SAMPLE SUMMARY

**Client:** LB88485      **Level:** LOW      **SDG No.:** LB88485  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB88485      **SAS No.:** LB88485  
**Matrix:** WATER      **Sample ID:** I3900-01MS      **Client ID:** MW-1MSD  
**Percent Solids for Sample:** 0      **Duplicate ID** I3900-01MSD      **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	1.1		1.1		0		

# GENCHEM

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## DUPLICATE SAMPLE SUMMARY

**Client:** LB88485      **Level:** LOW      **SDG No.:** LB88485  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB88485      **SAS No.:** LB88485  
**Matrix:** Solid      **Sample ID:** I3968-01      **Client ID:** FK-PS-01-009DUP  
**Percent Solids for Sample:** 90.7      **Duplicate ID** I3968-01DUP      **Percent Solids for Spike Sample:** 90.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Ammonia as N	mg/Kg	20	17.5		16.9		3		

# GENCHEM

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## DUPLICATE SAMPLE SUMMARY

**Client:** LB88485      **Level:** LOW      **SDG No.:** LB88485  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB88485      **SAS No.:** LB88485  
**Matrix:** Solid      **Sample ID:** I3968-01MS      **Client ID:** FK-PS-01-009MSD  
**Percent Solids for Sample:** 90.7      **Duplicate ID** I3968-01MSD      **Percent Solids for Spike Sample:** 90.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Ammonia as N	mg/Kg	20	59		58.1		2		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB88485

SDG No.: LB88485

Contract:

Lab Code: CHEM

Case No.: LB88485

SAS No.: LB88485

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB100309BS Ammonia as N	mg/L	1	0.96		96	80 - 120	





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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB88485

SDG No.: LB88485

Contract:

Lab Code: CHEM

Case No.: LB88485

SAS No.: LB88485

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB100310BS Ammonia as N	mg/Kg	48.5	44.3		91.3	80 - 120	