

Daily Analysis Runlog For Sequence/QC Batch ID # LB88201

Review By		Review On				
SubDirectory		LB88201		Test : Ammonia		
STD. NAME		STD REF.#				
ICAL Standard		WP55752				
ICV Standard		WP55754				
CCV Standard		WP55753				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP55717				
Chk Standard		WP54309,WP55755,WP55095,WP55096				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.1PPM	0.1PPM	CAL1	06/19/17 13:04		OK
2	0.2PPM	0.2PPM	CAL2	06/19/17 13:04		OK
3	0.4PPM	0.4PPM	CAL3	06/19/17 13:04		OK
4	1.0PPM	1.0PPM	CAL4	06/19/17 13:04		OK
5	1.3PPM	1.3PPM	CAL5	06/19/17 13:04		OK
6	2.0PPM	2.0PPM	CAL6	06/19/17 13:04		OK
7	ICV1	ICV1	ICV	06/19/17 13:40		OK
8	ICB1	ICB1	ICB	06/19/17 13:40		OK
9	CCV1	CCV1	CCV	06/19/17 13:40		OK
10	CCB1	CCB1	CCB	06/19/17 13:40		OK
11	PB99868BL	PB99868BL	MB	06/19/17 13:40		OK
12	PB99868BS	PB99868BS	LCS	06/19/17 13:40		OK
13	I3698-01	FK-PS-01-007	SAM	06/19/17 13:40		OK
14	I3698-01DUP	FK-PS-01-007DUP	DUP	06/19/17 13:40		OK
15	I3698-01MS	FK-PS-01-007MS	MS	06/19/17 13:40		OK
16	I3698-01MSD	FK-PS-01-007MSD	MSD	06/19/17 13:40		OK
17	PB99869BL	PB99869BL	MB	06/19/17 13:40		OK
18	PB99869BS	PB99869BS	LCS	06/19/17 13:40		OK
19	I3733-01	001M-WILLETS-PTB	SAM	06/19/17 13:50	High	Dilution
20	I3733-01DUP	001M-WILLETS-PTB	DUP	06/19/17 13:50		OK
21	CCV2	CCV2	CCV	06/19/17 13:50		OK

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SubDirectory		LB88201		Test : Ammonia		
STD. NAME		STD REF.#				
ICAL Standard		WP55752				
ICV Standard		WP55754				
CCV Standard		WP55753				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP55717				
Chk Standard		WP54309,WP55755,WP55095,WP55096				
22	CCB2	CCB2	CCB	06/19/17 13:50		OK
23	I3733-01MS	001M-WILLETS-PTB	MS	06/19/17 13:50		OK
24	I3733-01MSD	001M-WILLETS-PTB	MSD	06/19/17 13:50		OK
25	I3733-02	002M-35THAVE(JUN	SAM	06/19/17 13:50	High	Dilution
26	CCV3	CCV3	CCV	06/19/17 13:50		OK
27	CCB3	CCB3	CCB	06/19/17 13:50		OK
28	I3733-01DL	001M-WILLETS-PTB	SAM	06/19/17 14:27	Report 5X	Confirms
29	I3733-02DL	002M-35THAVE(JUN	SAM	06/19/17 14:27	Report 5X	Confirms
30	CCV4	CCV4	CCV	06/19/17 14:27		OK
31	CCB4	CCB4	CCB	06/19/17 14:27		OK



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Report of Analysis

Client:		Date Collected:	6/14/2017 12:00:00 AM
Project:	LB88201	Date Received:	6/15/2017 12:00:00 AM
Client Sample ID:	FK-PS-01-007	SDG No.:	LB88201
Lab Sample ID:	I3698-01	Matrix:	Solid
Level (low/med):	low	% Solid:	91.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	9.3		1	1.8		5.3	mg/Kg	06/16/2017	06/19/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	6/14/2017 12:00:00 AM
Project:	LB88201	Date Received:	6/14/2017 12:00:00 AM
Client Sample ID:	001M-WILLETS-PTBLVD(JUN)	SDG No.:	LB88201
Lab Sample ID:	I3733-01	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	4.3	OR	1	0.034		0.1	mg/L	06/16/2017	06/19/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	6/14/2017 12:00:00 AM
Project:	LB88201	Date Received:	6/14/2017 12:00:00 AM
Client Sample ID:	001M-WILLETS-PTBLVD(JUN)DL	SDG No.:	LB88201
Lab Sample ID:	I3733-01DL	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	4.5	D	5	0.17		0.5	mg/L	06/16/2017	06/19/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	6/14/2017 12:00:00 AM
Project:	LB88201	Date Received:	6/14/2017 12:00:00 AM
Client Sample ID:	002M-35THAVE(JUN)	SDG No.:	LB88201
Lab Sample ID:	I3733-02	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	4.3	OR	1	0.034		0.1	mg/L	06/16/2017	06/19/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	6/14/2017 12:00:00 AM
Project:	LB88201	Date Received:	6/14/2017 12:00:00 AM
Client Sample ID:	002M-35THAVE(JUN)DL	SDG No.:	LB88201
Lab Sample ID:	I3733-02DL	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	4.4	D	5	0.17		0.5	mg/L	06/16/2017	06/19/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	6/14/2017 12:00:00 AM
Project:	LB88201	Date Received:	6/14/2017 12:00:00 AM
Client Sample ID:	002M-35THAVE(JUN)DL	SDG No.:	LB88201
Lab Sample ID:	I3733-02DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB88201

SDG No.: LB88201

Contract: _____ Lab Code: CHEM

Case No.: LB88201

SAS No.: LB88201

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	0.95	1	95	0	90 - 110		06/19/2017	13:40	LB88201
CCV2	Ammonia as N	0.96	1	96	0	90 - 110		06/19/2017	13:50	LB88201
CCV3	Ammonia as N	0.98	1	98	0	90 - 110		06/19/2017	13:50	LB88201
CCV4	Ammonia as N	1	1	100	0	90 - 110		06/19/2017	14:27	LB88201



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88201

SDG No.: LB88201

Contract:

Lab Code: CHEM

Case No.: LB88201

SAS No.: LB88201

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Ammonia as N	0.0033	+/-0.1	U			0.1	06/19/2017	13:40	LB88201

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Ammonia as N	0.0007	+/-0.1	U			0.1	06/19/2017	13:40	LB88201
CCB2	Ammonia as N	0.0099	+/-0.1	U			0.1	06/19/2017	13:50	LB88201
CCB3	Ammonia as N	0.0077	+/-0.1	U			0.1	06/19/2017	13:50	LB88201
CCB4	Ammonia as N	0.006	+/-0.1	U			0.1	06/19/2017	14:27	LB88201



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB88201

SDG No.:

LB88201

Contract:

Lab Code:

CHEM

Case No.:

LB88201

SAS No.:

LB88201

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: LB88201

SDG No.: LB88201

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
PB99868BL	Ammonia as N	SOLID		Batch Number:		PB99868		Prep Date:	06/16/2017	
		-0.039	<4.9	U		4.9		06/19/2017	13:40	LB88201
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB99869BL	Ammonia as N	WATER		Batch Number:		PB99869		Prep Date:	06/16/2017	
		0.0016	<0.1	U		0.1		06/19/2017	13:40	LB88201



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB88201 level: low sdg no.: LB88201
contract: lab code: CHEM case no.: LB88201 sas no.: LB88201
matrix: Solid sample id: I3698-01 client id: FK-PS-01-007MS
Percent Solids for Sample: 91.3 Spiked ID: I3698-01MS Percent Solids for Spike Sample: 91.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Ammonia as N	mg/Kg	75 - 125	55.2		9.3		53.7	85		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB88201 level: low sdg no.: LB88201
contract: lab code: CHEM case no.: LB88201 sas no.: LB88201
matrix: Solid sample id: I3698-01 client id: FK-PS-01-007MSD
Percent Solids for Sample: 91.3 Spiked ID: I3698-01MSD Percent Solids for Spike Sample: 91.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Ammonia as N	mg/Kg	75 - 125	55.8		9.3		53.7	87		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB88201 level: low sdg no.: LB88201
contract: lab code: CHEM case no.: LB88201 sas no.: LB88201
matrix: WATER sample id: I3733-01 client id: 001M-WILLETS-PTBLVD(JUN)MS
Percent Solids for Sample: 0 Spiked ID: I3733-01MS 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	5.2	OR	4.3	OR	1	90		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB88201 level: low sdg no.: LB88201
contract: lab code: CHEM case no.: LB88201 sas no.: LB88201
matrix: WATER sample id: I3733-01 client id: 001M-WILLETS-PTBLVD(JUN)MSD
Percent Solids for Sample: 0 Spiked ID: I3733-01MSD 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	5.3	OR	4.3	OR	1	100		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB88201 **Level:** LOW **SDG No.:** LB88201
Contract: **Lab Code:** CHEM **Case No.:** LB88201 **SAS No.:** LB88201
Matrix: Solid **Sample ID:** I3698-01 **Client ID:** FK-PS-01-007DUP
Percent Solids for Sample: 91.3 **Duplicate ID** I3698-01DUP **Percent Solids for Spike Sample:** 91.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Ammonia as N	mg/Kg	20	9.3		8.9		4		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB88201 **Level:** LOW **SDG No.:** LB88201
Contract: **Lab Code:** CHEM **Case No.:** LB88201 **SAS No.:** LB88201
Matrix: Solid **Sample ID:** I3698-01MS **Client ID:** FK-PS-01-007MSD
Percent Solids for Sample: 91.3 **Duplicate ID** I3698-01MSD **Percent Solids for Spike Sample:** 91.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Ammonia as N	mg/Kg	20	55.2		55.8		1		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB88201 **Level:** LOW **SDG No.:** LB88201
Contract: **Lab Code:** CHEM **Case No.:** LB88201 **SAS No.:** LB88201
Matrix: WATER **Sample ID:** I3733-01 **Client ID:** 001M-WILLETS-PTBLVD(JUN)DUP
Percent Solids for Sample: 0 **Duplicate ID** I3733-01DUP **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	4.3	OR	4.3	OR	0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB88201 **Level:** LOW **SDG No.:** LB88201
Contract: **Lab Code:** CHEM **Case No.:** LB88201 **SAS No.:** LB88201
Matrix: WATER **Sample ID:** I3733-01MS **Client ID:** 001M-WILLETS-PTBLVD(JUN)MSD
Percent Solids for Sample: 0 **Duplicate ID** I3733-01MSD **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	5.2	OR	5.3	OR	2		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB88201

SDG No.: LB88201

Contract:

Lab Code: CHEM

Case No.: LB88201

SAS No.: LB88201

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB99868BS Ammonia as N	mg/Kg	48.5	45.9		94.6	80 - 120	



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB88201

SDG No.: LB88201

Contract:

Lab Code: CHEM

Case No.: LB88201

SAS No.: LB88201

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB99869BS Ammonia as N	mg/L	1	0.94		94	80 - 120	