

Daily Analysis Runlog For Sequence/QC Batch ID # LB88619

Review By		Review On				
SubDirectory		LB88619		Test : Ammonia		
STD. NAME		STD REF.#				
ICAL Standard		WP56268				
ICV Standard		WP56270				
CCV Standard		WP56269				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP56267				
Chk Standard		WP55755,WP55837,WP55838,WP54309				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.1PPM	0.1PPM	CAL1	07/10/17 09:24		OK
2	0.2PPM	0.2PPM	CAL2	07/10/17 09:24		OK
3	0.4PPM	0.4PPM	CAL3	07/10/17 09:24		OK
4	1.0PPM	1.0PPM	CAL4	07/10/17 09:24		OK
5	1.3PPM	1.3PPM	CAL5	07/10/17 09:24		OK
6	2.0PPM	2.0PPM	CAL6	07/10/17 09:24		OK
7	ICV1	ICV1	ICV	07/10/17 10:09		OK
8	ICB1	ICB1	ICB	07/10/17 10:09		OK
9	CCV1	CCV1	CCV	07/10/17 10:09		OK
10	CCB1	CCB1	CCB	07/10/17 10:09		OK
11	PB100509BL	PB100509BL	MB	07/10/17 10:09		OK
12	PB100509BS	PB100509BS	LCS	07/10/17 10:09		OK
13	I4058-04	4-AMMONIA	SAM	07/10/17 10:09		Dilution
14	I4058-04MS	4-AMMONIAMS	MS	07/10/17 10:09		Dilution
15	I4058-04MSD	4-AMMONIAMSD	MSD	07/10/17 10:09		Dilution
16	I4077-01	001M-WILLETS-PTB	SAM	07/10/17 10:09		Dilution
17	I4077-02	002M-35THAVE(JUL	SAM	07/10/17 10:09		Dilution
18	PB100510BL	PB100510BL	MB	07/10/17 10:10		OK
19	PB100510BS	PB100510BS	LCS	07/10/17 10:20		OK
20	I4092-01	FK-PS-01-010	SAM	07/10/17 10:20		OK
21	CCV2	CCV2	CCV	07/10/17 10:20		OK

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

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SubDirectory		LB88619		Test : Ammonia		
STD. NAME		STD REF.#				
ICAL Standard		WP56268				
ICV Standard		WP56270				
CCV Standard		WP56269				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP56267				
Chk Standard		WP55755,WP55837,WP55838,WP54309				
22	CCB2	CCB2	CCB	07/10/17 10:20		OK
23	I4092-01DUP	FK-PS-01-010DUP	DUP	07/10/17 10:20		OK
24	I4092-01MS	FK-PS-01-010MS	MS	07/10/17 10:20		OK
25	I4092-01MSD	FK-PS-01-010MSD	MSD	07/10/17 10:20		OK
26	I4095-01	FK-PS-01-011	SAM	07/10/17 10:20		OK
27	I4058-04DUP	4-AMMONIADUP	DUP	07/10/17 10:20		Dilution
28	CCV3	CCV3	CCV	07/10/17 10:20		OK
29	CCB3	CCB3	CCB	07/10/17 10:20		OK
30	I4058-04DL	4-AMMONIADL	SAM	07/10/17 10:52		Confirms
31	I4058-04DUPDL	4-AMMONIADUPDL	DUP	07/10/17 10:52		Confirms
32	I4058-04MSDL	4-AMMONIAMSDL	MS	07/10/17 10:52		Confirms
33	I4058-04MSDDL	4-AMMONIAMSDDL	MSD	07/10/17 10:52		Confirms
34	I4077-01DL	001M-WILLETS-PTB	SAM	07/10/17 10:52		Confirms
35	I4077-02DL	002M-35THAVE(JUL	SAM	07/10/17 10:52		Confirms
36	CCV4	CCV4	CCV	07/10/17 10:52		OK
37	CCB4	CCB4	CCB	07/10/17 10:52		OK



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Report of Analysis

Client:		Date Collected:	7/5/2017 12:00:00 AM
Project:	LB88619	Date Received:	7/5/2017 12:00:00 AM
Client Sample ID:	4-AMMONIA	SDG No.:	LB88619
Lab Sample ID:	I4058-04	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	43.2	OR	1	0.034		0.1	mg/L	07/08/2017	07/10/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	7/5/2017 12:00:00 AM
Project:	LB88619	Date Received:	7/5/2017 12:00:00 AM
Client Sample ID:	4-AMMONIADL	SDG No.:	LB88619
Lab Sample ID:	I4058-04DL	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	65	D	50	1.7		5	mg/L	07/08/2017	07/10/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	7/5/2017 12:00:00 AM
Project:	LB88619	Date Received:	7/6/2017 12:00:00 AM
Client Sample ID:	001M-WILLETS-PTBLVD(JULY)	SDG No.:	LB88619
Lab Sample ID:	I4077-01	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	3.5	OR	1	0.034		0.1	mg/L	07/08/2017	07/10/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	7/5/2017 12:00:00 AM
Project:	LB88619	Date Received:	7/6/2017 12:00:00 AM
Client Sample ID:	001M-WILLETS-PTBLVD(JULY)DL	SDG No.:	LB88619
Lab Sample ID:	I4077-01DL	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	3.5	D	5	0.17		0.5	mg/L	07/08/2017	07/10/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	7/5/2017 12:00:00 AM
Project:	LB88619	Date Received:	7/6/2017 12:00:00 AM
Client Sample ID:	002M-35THAVE(JULY)	SDG No.:	LB88619
Lab Sample ID:	I4077-02	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	3.4	OR	1	0.034		0.1	mg/L	07/08/2017	07/10/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	7/5/2017 12:00:00 AM
Project:	LB88619	Date Received:	7/6/2017 12:00:00 AM
Client Sample ID:	002M-35THAVE(JULY)DL	SDG No.:	LB88619
Lab Sample ID:	I4077-02DL	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	3.6	D	5	0.17		0.5	mg/L	07/08/2017	07/10/2017	SM4500-NH3

Report of Analysis

Client:		Date Collected:	7/6/2017 12:00:00 AM
Project:	LB88619	Date Received:	7/6/2017 12:00:00 AM
Client Sample ID:	FK-PS-01-010	SDG No.:	LB88619
Lab Sample ID:	I4092-01	Matrix:	Solid
Level (low/med):	low	% Solid:	89

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	8.4		1	1.9		5.5	mg/Kg	07/08/2017	07/10/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	7/6/2017 12:00:00 AM
Project:	LB88619	Date Received:	7/6/2017 12:00:00 AM
Client Sample ID:	FK-PS-01-011	SDG No.:	LB88619
Lab Sample ID:	I4095-01	Matrix:	Solid
Level (low/med):	low	% Solid:	90.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	14.4		1	1.8		5.3	mg/Kg	07/08/2017	07/10/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	7/6/2017 12:00:00 AM
Project:	LB88619	Date Received:	7/6/2017 12:00:00 AM
Client Sample ID:	FK-PS-01-011	SDG No.:	LB88619
Lab Sample ID:	I4095-01	Matrix:	Solid
Level (low/med):	low	% Solid:	90.6

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:** LB88619**SDG No.:** LB88619**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB88619**SAS No.:** LB88619**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		07/10/2017	10:09	LB88619
CCV2	Ammonia as N	0.97	1	97	0	90 - 110		07/10/2017	10:20	LB88619
CCV3	Ammonia as N	1.1	1	110	0	90 - 110		07/10/2017	10:20	LB88619
CCV4	Ammonia as N	0.98	1	98	0	90 - 110		07/10/2017	10:52	LB88619



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88619

SDG No.: LB88619

Contract:

Lab Code: CHEM

Case No.: LB88619

SAS No.: LB88619

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Ammonia as N	0.01	+/-0.1	U		0.1		07/10/2017	10:09	LB88619



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88619

SDG No.: LB88619

Contract:

Lab Code: CHEM

Case No.: LB88619

SAS No.: LB88619

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Ammonia as N	0.014	+/-0.1	U			0.1	07/10/2017	10:09	LB88619
CCB2	Ammonia as N	0.0099	+/-0.1	U			0.1	07/10/2017	10:20	LB88619
CCB3	Ammonia as N	0.042	+/-0.1	J			0.1	07/10/2017	10:20	LB88619
CCB4	Ammonia as N	0.01	+/-0.1	U			0.1	07/10/2017	10:52	LB88619



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB88619

SDG No.:

LB88619

Contract:

Lab Code:

CHEM

Case No.:

LB88619

SAS No.:

LB88619

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: LB88619

SDG No.: LB88619

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
PB100509BL	Ammonia as N	WATER		Batch Number:		PB100509		Prep Date:	07/08/2017	
		0.017	<0.1	U		0.1		07/10/2017	10:09	LB88619
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB100510BL	Ammonia as N	SOLID		Batch Number:		PB100510		Prep Date:	07/08/2017	
		0.73	<4.9	U		4.9		07/10/2017	10:10	LB88619



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB88619 level: low sdg no.: LB88619
contract: lab code: CHEM case no.: LB88619 sas no.: LB88619
matrix: WATER sample id: I4058-04 client id: 4-AMMONIAMS
Percent Solids for Sample: 0 Spiked ID: I4058-04MS 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	43.2	OR	43.2	OR	1	0	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB88619 level: low sdg no.: LB88619
contract: lab code: CHEM case no.: LB88619 sas no.: LB88619
matrix: WATER sample id: I4058-04 client id: 4-AMMONIAMSD
Percent Solids for Sample: 0 Spiked ID: I4058-04MSD 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	43.2	OR	43.2	OR	1	0	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB88619 level: low sdg no.: LB88619
contract: lab code: CHEM case no.: LB88619 sas no.: LB88619
matrix: WATER sample id: I4058-04DL client id: 4-AMMONIAMSDDL
Percent Solids for Sample: 0 Spiked ID: I4058-04MSDDL 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	59	D	65	D	1	-600	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB88619 level: low sdg no.: LB88619
contract: lab code: CHEM case no.: LB88619 sas no.: LB88619
matrix: WATER sample id: I4058-04DL client id: 4-AMMONIAMSDL
Percent Solids for Sample: 0 Spiked ID: I4058-04MSDL 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	58.9	D	65	D	1	-610	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB88619 level: low sdg no.: LB88619
contract: lab code: CHEM case no.: LB88619 sas no.: LB88619
matrix: Solid sample id: I4092-01 client id: FK-PS-01-010MS
Percent Solids for Sample: 89 Spiked ID: I4092-01MS Percent Solids for Spike Sample: 89

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Ammonia as N	mg/Kg	75 - 125	59.7		8.4		55.1	93		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB88619 level: low sdg no.: LB88619
contract: lab code: CHEM case no.: LB88619 sas no.: LB88619
matrix: Solid sample id: I4092-01 client id: FK-PS-01-010MSD
Percent Solids for Sample: 89 Spiked ID: I4092-01MSD Percent Solids for Spike Sample: 89

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Ammonia as N	mg/Kg	75 - 125	59.3		8.4		54.5	93		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB88619 **Level:** LOW **SDG No.:** LB88619
Contract: **Lab Code:** CHEM **Case No.:** LB88619 **SAS No.:** LB88619
Matrix: WATER **Sample ID:** I4058-04 **Client ID:** 4-AMMONIADUP
Percent Solids for Sample: 0 **Duplicate ID** I4058-04DUP **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	43.2	OR	43.2	OR	0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB88619 **Level:** LOW **SDG No.:** LB88619
Contract: **Lab Code:** CHEM **Case No.:** LB88619 **SAS No.:** LB88619
Matrix: WATER **Sample ID:** I4058-04DL **Client ID:** 4-AMMONIADUPDL
Percent Solids for Sample: 0 **Duplicate ID** I4058-04DUPDL **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	65	D	64.3	D	1		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB88619 **Level:** LOW **SDG No.:** LB88619
Contract: **Lab Code:** CHEM **Case No.:** LB88619 **SAS No.:** LB88619
Matrix: WATER **Sample ID:** I4058-04MS **Client ID:** 4-AMMONIAMSD
Percent Solids for Sample: 0 **Duplicate ID** I4058-04MSD **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	43.2	OR	43.2	OR	0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB88619 **Level:** LOW **SDG No.:** LB88619
Contract: _____ **Lab Code:** CHEM **Case No.:** LB88619 **SAS No.:** LB88619
Matrix: WATER **Sample ID:** I4058-04MSDL **Client ID:** 4-AMMONIAMSDDL
Percent Solids for Sample: 0 **Duplicate ID** I4058-04MSDDL **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	58.9	D	59	D	0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB88619 **Level:** LOW **SDG No.:** LB88619
Contract: **Lab Code:** CHEM **Case No.:** LB88619 **SAS No.:** LB88619
Matrix: Solid **Sample ID:** I4092-01 **Client ID:** FK-PS-01-010DUP
Percent Solids for Sample: 89 **Duplicate ID** I4092-01DUP **Percent Solids for Spike Sample:** 89

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Ammonia as N	mg/Kg	20	8.4		8.5		1		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB88619 **Level:** LOW **SDG No.:** LB88619
Contract: **Lab Code:** CHEM **Case No.:** LB88619 **SAS No.:** LB88619
Matrix: Solid **Sample ID:** I4092-01MS **Client ID:** FK-PS-01-010MSD
Percent Solids for Sample: 89 **Duplicate ID** I4092-01MSD **Percent Solids for Spike Sample:** 89

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Ammonia as N	mg/Kg	20	59.7		59.3		1		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB88619

SDG No.: LB88619

Contract:

Lab Code: CHEM

Case No.: LB88619

SAS No.: LB88619

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB100509BS Ammonia as N	mg/L	1	0.97		97	80 - 120	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB88619 SDG No.: LB88619
Contract: Lab Code: CHEM Case No.: LB88619 SAS No.: LB88619

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB100510BS Ammonia as N	mg/Kg	48.5	45.6		94	80 - 120	