

Daily Analysis Runlog For Sequence/QC Batch ID # LB89389

Review By		Review On				
SubDirectory		LB89389		Test : Ammonia		
STD. NAME		STD REF.#				
ICAL Standard		WP57129				
ICV Standard		WP57134				
CCV Standard		WP57130				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57031,WP56632,WP57137,WP56634				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.1PPM	0.1PPM	CAL1	08/10/17 10:15		OK
2	0.2PPM	0.2PPM	CAL2	08/10/17 10:15		OK
3	0.4PPM	0.4PPM	CAL3	08/10/17 10:15		OK
4	1.0PPM	1.0PPM	CAL4	08/10/17 10:15		OK
5	1.3PPM	1.3PPM	CAL5	08/10/17 10:15		OK
6	2.0PPM	2.0PPM	CAL6	08/10/17 10:15		OK
7	ICV1	ICV1	ICV	08/10/17 10:51		OK
8	ICB1	ICB1	ICB	08/10/17 10:51		OK
9	CCV1	CCV1	CCV	08/10/17 10:51		OK
10	CCB1	CCB1	CCB	08/10/17 10:51		OK
11	PB101396BL	PB101396BL	MB	08/10/17 10:51		OK
12	PB101396BS	PB101396BS	LCS	08/10/17 10:51		OK
13	I4684-01	001M-WILLETS-PTB	SAM	08/10/17 11:02		Dilution
14	I4684-01DUP	001M-WILLETS-PTB	DUP	08/10/17 11:02		Dilution
15	I4684-01MS	001M-WILLETS-PTB	MS	08/10/17 11:02		Dilution
16	I4684-01MSD	001M-WILLETS-PTB	MSD	08/10/17 11:02		Dilution
17	I4684-02	002M-35THAVE(AUC	SAM	08/10/17 11:02		Dilution
18	DOC-1	DOC-1	LCS	08/10/17 11:02		OK
19	DOC-2	DOC-2	LCS	08/10/17 11:02		OK
20	DOC-3	DOC-3	LCS	08/10/17 11:02		OK
21	CCV2	CCV2	CCV	08/10/17 11:02		OK

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

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SubDirectory		LB89389		Test : Ammonia		
STD. NAME		STD REF.#				
ICAL Standard		WP57129				
ICV Standard		WP57134				
CCV Standard		WP57130				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57031,WP56632,WP57137,WP56634				
22	CCB2	CCB2	CCB	08/10/17 11:02		OK
23	DOC-4	DOC-4	LCS	08/10/17 11:10		OK
24	CCV3	CCV3	CCV	08/10/17 11:10		OK
25	CCB3	CCB3	CCB	08/10/17 11:10		OK
26	I4684-01DL	001M-WILLETS-PTB	SAM	08/10/17 11:34		Confirms
27	I4684-01DUPDL	001M-WILLETS-PTB	DUP	08/10/17 11:34		Confirms
28	I4684-01MSDL	001M-WILLETS-PTB	MS	08/10/17 11:34		Confirms
29	I4684-01MSDDL	001M-WILLETS-PTB	MSD	08/10/17 11:34		Confirms
30	I4684-02DL	002M-35THAVE(AUC	SAM	08/10/17 12:03		Confirms
31	CCV4	CCV4	CCV	08/10/17 12:03		OK
32	CCB4	CCB4	CCB	08/10/17 12:03		OK



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

Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89389	Date Received:	8/9/2017 12:00:00 AM
Client Sample ID:	001M-WILLETS-PTBLVD(AUG)	SDG No.:	LB89389
Lab Sample ID:	I4684-01	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	OR	1	0.034		0.1	mg/L	08/09/2017	08/10/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89389	Date Received:	8/9/2017 12:00:00 AM
Client Sample ID:	001M-WILLETS-PTBLVD(AUG)DL	SDG No.:	LB89389
Lab Sample ID:	I4684-01DL	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	4.3	D	5	0.17		0.5	mg/L	08/09/2017	08/10/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89389	Date Received:	8/9/2017 12:00:00 AM
Client Sample ID:	002M-35THAVE(AUG)	SDG No.:	LB89389
Lab Sample ID:	I4684-02	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	OR	1	0.034		0.1	mg/L	08/09/2017	08/10/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89389	Date Received:	8/9/2017 12:00:00 AM
Client Sample ID:	002M-35THAVE(AUG)DL	SDG No.:	LB89389
Lab Sample ID:	I4684-02DL	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	4.2	D	5	0.17		0.5	mg/L	08/09/2017	08/10/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89389	Date Received:	8/9/2017 12:00:00 AM
Client Sample ID:	002M-35THAVE(AUG)DL	SDG No.:	LB89389
Lab Sample ID:	I4684-02DL	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: LB89389

SDG No.: LB89389

Contract: _____ Lab Code: CHEM

Case No.: LB89389

SAS No.: LB89389

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	0.96	1	96	0	90 - 110		08/10/2017	10:51	LB89389



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89389

SDG No.: LB89389

Contract: _____ Lab Code: CHEM

Case No.: LB89389

SAS No.: LB89389

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		08/10/2017	10:51	LB89389
CCV2	Ammonia as N	0.97	1	97	0	90 - 110		08/10/2017	11:02	LB89389
CCV3	Ammonia as N	1	1	100	0	90 - 110		08/10/2017	11:10	LB89389
CCV4	Ammonia as N	1	1	100	0	90 - 110		08/10/2017	12:03	LB89389



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89389

SDG No.: LB89389

Contract:

Lab Code: CHEM

Case No.: LB89389

SAS No.: LB89389

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Ammonia as N	0.044	+/-0.1	J		0.1		08/10/2017	10:51	LB89389



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89389

SDG No.: LB89389

Contract:

Lab Code: CHEM

Case No.: LB89389

SAS No.: LB89389

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Ammonia as N	0.052	+/-0.1	J			0.1	08/10/2017	10:51	LB89389
CCB2	Ammonia as N	0.045	+/-0.1	J			0.1	08/10/2017	11:02	LB89389
CCB3	Ammonia as N	0.08	+/-0.1	J			0.1	08/10/2017	11:10	LB89389
CCB4	Ammonia as N	0.034	+/-0.1	J			0.1	08/10/2017	12:03	LB89389



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89389

SDG No.: LB89389

Contract: Lab Code: CHEM

Case No.: LB89389

SAS No.: LB89389

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: LB89389

SDG No.: LB89389

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
PB101396BL	Ammonia as N	WATER 0.051	<0.1	Batch Number: J		PB101396 0.1		Prep Date: 08/10/2017	08/09/2017 10:51	LB89389



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB89389 level: low sdg no.: LB89389
contract: lab code: CHEM case no.: LB89389 sas no.: LB89389
matrix: WATER sample id: I4684-01 client id: 001M-WILLETS-PTBLVD(AUG)MS
Percent Solids for Sample: 0 Spiked ID: I4684-01MS 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	4.9	OR	4	OR	1	90		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB89389 level: low sdg no.: LB89389
contract: lab code: CHEM case no.: LB89389 sas no.: LB89389
matrix: WATER sample id: I4684-01 client id: 001M-WILLETS-PTBLVD(AUG)MSD
Percent Solids for Sample: 0 Spiked ID: I4684-01MSD 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	4.9	OR	4	OR	1	90		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB89389 level: low sdg no.: LB89389
contract: lab code: CHEM case no.: LB89389 sas no.: LB89389
matrix: WATER sample id: I4684-01DL client id: 001M-WILLETS-PTBLVD(AUG)MSDDL
Percent Solids for Sample: 0 Spiked ID: I4684-01MSDDL 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	5.3	D	4.3	D	1	100		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB89389 level: low sdg no.: LB89389
contract: lab code: CHEM case no.: LB89389 sas no.: LB89389
matrix: WATER sample id: I4684-01DL client id: 001M-WILLETS-PTBLVD(AUG)MSDL
Percent Solids for Sample: 0 Spiked ID: I4684-01MSDL 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	5.4	D	4.3	D	1	110		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB89389 **Level:** LOW **SDG No.:** LB89389
Contract: **Lab Code:** CHEM **Case No.:** LB89389 **SAS No.:** LB89389
Matrix: WATER **Sample ID:** I4684-01 **Client ID:** 001M-WILLETS-PTBLVD(AUG)DUP
Percent Solids for Sample: 0 **Duplicate ID** I4684-01DUP **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	OR	4	OR	0		



GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB89389 Level: LOW SDG No.: LB89389
Contract: _____ Lab Code: CHEM Case No.: LB89389 SAS No.: LB89389
Matrix: WATER Sample ID: I4684-01DL Client ID: 001M-WILLETS-PTBLVD(AUG)DUPDL
Percent Solids for Sample: 0 Duplicate ID I4684-01DUPDL 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	4.3	D	4.4	D	2		

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

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB89389 **Level:** LOW **SDG No.:** LB89389
Contract: **Lab Code:** CHEM **Case No.:** LB89389 **SAS No.:** LB89389
Matrix: WATER **Sample ID:** I4684-01MS **Client ID:** 001M-WILLETS-PTBLVD(AUG)MSD
Percent Solids for Sample: 0 **Duplicate ID** I4684-01MSD **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	4.9	OR	4.9	OR	0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB89389 **Level:** LOW **SDG No.:** LB89389
Contract: **Lab Code:** CHEM **Case No.:** LB89389 **SAS No.:** LB89389
Matrix: WATER **Sample ID:** I4684-01MSDL **Client ID:** 001M-WILLETS-PTBLVD(AUG)MSDDL
Percent Solids for Sample: 0 **Duplicate ID** I4684-01MSDDL **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	5.4	D	5.3	D	2		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89389

SDG No.: LB89389

Contract:

Lab Code: CHEM

Case No.: LB89389

SAS No.: LB89389

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



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89389

SDG No.: LB89389

Contract:

Lab Code: CHEM

Case No.: LB89389

SAS No.: LB89389

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
DOC-2 Ammonia as N	mg/L	1	0.97		97	80 - 120	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89389

SDG No.: LB89389

Contract:

Lab Code: CHEM

Case No.: LB89389

SAS No.: LB89389

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
DOC-3 Ammonia as N	mg/L	1	0.98		98	80 - 120	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89389

SDG No.: LB89389

Contract:

Lab Code: CHEM

Case No.: LB89389

SAS No.: LB89389

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
DOC-4 Ammonia as N	mg/L	1	1		100	80 - 120	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89389

SDG No.: LB89389

Contract:

Lab Code: CHEM

Case No.: LB89389

SAS No.: LB89389

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB101396BS Ammonia as N	mg/L	1	0.97		97	80 - 120	