

Daily Analysis Runlog For Sequence/QC Batch ID # LB90042

Review By		Review On				
SubDirectory		LB90042		Test : Ammonia		
STD. NAME		STD REF.#				
ICAL Standard		WP57880				
ICV Standard		WP57881				
CCV Standard		WP57882				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP57858				
Chk Standard		WP57031,WP57459,WP57237,WP57238				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.1PPM	0.1PPM	CAL1	09/13/17 09:29		OK
2	0.2PPM	0.2PPM	CAL2	09/13/17 09:29		OK
3	0.4PPM	0.4PPM	CAL3	09/13/17 09:29		OK
4	1.0PPM	1.0PPM	CAL4	09/13/17 09:29		OK
5	1.3PPM	1.3PPM	CAL5	09/13/17 09:29		OK
6	2.0PPM	2.0PPM	CAL6	09/13/17 09:29		OK
7	ICV1	ICV1	ICV	09/13/17 10:03		OK
8	ICB1	ICB1	ICB	09/13/17 10:03		OK
9	CCV1	CCV1	CCV	09/13/17 10:03		OK
10	CCB1	CCB1	CCB	09/13/17 10:03		OK
11	PB102250BL	PB102250BL	MB	09/13/17 10:03		OK
12	PB102250BS	PB102250BS	LCS	09/13/17 10:03		OK
13	I5169-01	001M-WILLETS-PTB	SAM	09/13/17 10:03	Ammonia high	Dilution
14	I5169-01DUP	001M-WILLETS-PTB	DUP	09/13/17 10:03	Ammonia high	Dilution
15	I5169-01MS	001M-WILLETS-PTB	MS	09/13/17 10:03	Ammonia high	Dilution
16	I5169-01MSD	001M-WILLETS-PTB	MSD	09/13/17 10:03	Ammonia high	Dilution
17	I5169-02	002M-35THAVE(SEP	SAM	09/13/17 10:03	Ammonia high	Dilution
18	CCV2	CCV2	CCV	09/13/17 10:03		OK
19	CCB2	CCB2	CCB	09/13/17 10:07		OK
20	I5169-01DL	001M-WILLETS-PTB	SAM	09/13/17 10:40	5X Dilution for Ammonia	Confirms
21	I5169-01DUPDL	001M-WILLETS-PTB	DUP	09/13/17 10:40	5X Dilution for Ammonia	Confirms

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Review By			Review On			
SubDirectory		LB90042		Test : Ammonia		
STD. NAME		STD REF.#				
ICAL Standard		WP57880				
ICV Standard		WP57881				
CCV Standard		WP57882				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP57858				
Chk Standard		WP57031,WP57459,WP57237,WP57238				
22	I5169-01MSDL	001M-WILLETS-PTB	MS	09/13/17 10:40	5X Dilution for Ammonia	Confirms
23	I5169-01MSDDL	001M-WILLETS-PTB	MSD	09/13/17 10:40	5X Dilution for Ammonia	Confirms
24	I5169-02DL	002M-35THAVE(SEP	SAM	09/13/17 10:40	5X Dilution for Ammonia	Confirms
25	CCV3	CCV3	CCV	09/13/17 10:40		OK
26	CCB3	CCB3	CCB	09/13/17 10:40		OK



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Report of Analysis

Client:		Date Collected:	9/7/2017 12:00:00 AM
Project:	LB90042	Date Received:	9/8/2017 12:00:00 AM
Client Sample ID:	001M-WILLETS-PTBLVD(SEP)	SDG No.:	LB90042
Lab Sample ID:	I5169-01	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	3.8	OR	1	0.034		0.1	mg/L	09/11/2017	09/13/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	9/7/2017 12:00:00 AM
Project:	LB90042	Date Received:	9/8/2017 12:00:00 AM
Client Sample ID:	001M-WILLETS-PTBLVD(SEP)DL	SDG No.:	LB90042
Lab Sample ID:	I5169-01DL	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	09/11/2017	09/13/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	9/7/2017 12:00:00 AM
Project:	LB90042	Date Received:	9/8/2017 12:00:00 AM
Client Sample ID:	002M-35THAVE(SEP)	SDG No.:	LB90042
Lab Sample ID:	I5169-02	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	09/11/2017	09/13/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	9/7/2017 12:00:00 AM
Project:	LB90042	Date Received:	9/8/2017 12:00:00 AM
Client Sample ID:	002M-35THAVE(SEP)DL	SDG No.:	LB90042
Lab Sample ID:	I5169-02DL	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	3.8	D	5	0.17		0.5	mg/L	09/11/2017	09/13/2017	SM4500-NH3



Report of Analysis

Client:		Date Collected:	9/7/2017 12:00:00 AM
Project:	LB90042	Date Received:	9/8/2017 12:00:00 AM
Client Sample ID:	002M-35THAVE(SEP)DL	SDG No.:	LB90042
Lab Sample ID:	I5169-02DL	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

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	Ammonia as N	0.92	1	92	0	90 - 110		09/13/2017	10:03	LB90042



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90042

SDG No.: LB90042

Contract: _____ Lab Code: CHEM

Case No.: LB90042

SAS No.: LB90042

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	0.92	1	92	0	90 - 110		09/13/2017	10:03	LB90042
CCV2	Ammonia as N	0.95	1	95	0	90 - 110		09/13/2017	10:03	LB90042
CCV3	Ammonia as N	1	1	100	0	90 - 110		09/13/2017	10:40	LB90042



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90042

SDG No.: LB90042

Contract:

Lab Code: CHEM

Case No.: LB90042

SAS No.: LB90042

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Ammonia as N	0.015	+/-0.1	U			0.1	09/13/2017	10:03	LB90042



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90042

SDG No.: LB90042

Contract:

Lab Code: CHEM

Case No.: LB90042

SAS No.: LB90042

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Ammonia as N	0.0011	+/-0.1	U			0.1	09/13/2017	10:03	LB90042
CCB2	Ammonia as N	0.02	+/-0.1	U			0.1	09/13/2017	10:07	LB90042
CCB3	Ammonia as N	-0.0018	+/-0.1	U			0.1	09/13/2017	10:40	LB90042



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90042

SDG No.: LB90042

Contract: Lab Code: CHEM

Case No.: LB90042

SAS No.: LB90042

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: LB90042

SDG No.: LB90042

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
PB102250BL	Ammonia as N	WATER -0.0011	<0.1	Batch Number: U		PB102250 0.1		Prep Date: 09/13/2017	09/11/2017 10:03	LB90042



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90042 level: low sdg no.: LB90042
contract: lab code: CHEM case no.: LB90042 sas no.: LB90042
matrix: WATER sample id: I5169-01 client id: 001M-WILLETS-PTBLVD(SEP)MS
Percent Solids for Sample: 0 Spiked ID: I5169-01MS 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	OR	3.8	OR	1	120		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90042 level: low sdg no.: LB90042
contract: lab code: CHEM case no.: LB90042 sas no.: LB90042
matrix: WATER sample id: I5169-01 client id: 001M-WILLETS-PTBLVD(SEP)MSD
Percent Solids for Sample: 0 Spiked ID: I5169-01MSD 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	4.8	OR	3.8	OR	1	100		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90042 level: low sdg no.: LB90042
contract: lab code: CHEM case no.: LB90042 sas no.: LB90042
matrix: WATER sample id: I5169-01DL client id: 001M-WILLETS-PTBLVD(SEP)MSDDL
Percent Solids for Sample: 0 Spiked ID: I5169-01MSDDL 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	4.5	D	3.5	D	1	100		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90042 level: low sdg no.: LB90042
contract: lab code: CHEM case no.: LB90042 sas no.: LB90042
matrix: WATER sample id: I5169-01DL client id: 001M-WILLETS-PTBLVD(SEP)MSDL
Percent Solids for Sample: 0 Spiked ID: I5169-01MSDL 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	4.4	D	3.5	D	1	90		



GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB90042 Level: LOW SDG No.: LB90042
Contract: _____ Lab Code: CHEM Case No.: LB90042 SAS No.: LB90042
Matrix: WATER Sample ID: I5169-01 Client ID: 001M-WILLETS-PTBLVD(SEP)DUP
Percent Solids for Sample: 0 Duplicate ID I5169-01DUP 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	3.8	OR	3.9	OR	3		

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

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB90042 **Level:** LOW **SDG No.:** LB90042
Contract: _____ **Lab Code:** CHEM **Case No.:** LB90042 **SAS No.:** LB90042
Matrix: WATER **Sample ID:** I5169-01DL **Client ID:** 001M-WILLETS-PTBLVD(SEP)DUPDL
Percent Solids for Sample: 0 **Duplicate ID** I5169-01DUPDL **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	3.5	D	3.5	D	0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90042 **Level:** LOW **SDG No.:** LB90042
Contract: _____ **Lab Code:** CHEM **Case No.:** LB90042 **SAS No.:** LB90042
Matrix: WATER **Sample ID:** I5169-01MS **Client ID:** 001M-WILLETS-PTBLVD(SEP)MSD
Percent Solids for Sample: 0 **Duplicate ID** I5169-01MSD **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	OR	4.8	OR	4		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90042 **Level:** LOW **SDG No.:** LB90042
Contract: _____ **Lab Code:** CHEM **Case No.:** LB90042 **SAS No.:** LB90042
Matrix: WATER **Sample ID:** I5169-01MSDL **Client ID:** 001M-WILLETS-PTBLVD(SEP)MSDDL
Percent Solids for Sample: 0 **Duplicate ID** I5169-01MSDDL **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	4.4	D	4.5	D	2		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90042

SDG No.: LB90042

Contract:

Lab Code: CHEM

Case No.: LB90042

SAS No.: LB90042

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB102250BS Ammonia as N	mg/L	1	0.91		91	80 - 120	