

Daily Analysis Runlog For Sequence/QC Batch ID # LB95625

Review By		Review On				
SubDirectory		LB95625		Test : Ammonia		
STD. NAME		STD REF.#				
ICAL Standard		WP64818				
ICV Standard		WP64820				
CCV Standard		WP64819				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP64802				
Chk Standard		WP61582,WP64526,WP64528,WP64527				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.1PPM	0.1PPM	CAL1	05/25/18 08:27		OK
2	0.2PPM	0.2PPM	CAL2	05/25/18 08:27		OK
3	0.4PPM	0.4PPM	CAL3	05/25/18 08:27		OK
4	1.0PPM	1.0PPM	CAL4	05/25/18 08:27		OK
5	1.3PPM	1.3PPM	CAL5	05/25/18 08:27		OK
6	2.0PPM	2.0PPM	CAL6	05/25/18 08:27		OK
7	ICV1	ICV1	ICV	05/25/18 09:04		OK
8	ICB1	ICB1	ICB	05/25/18 09:04		OK
9	CCV1	CCV1	CCV	05/25/18 09:04		OK
10	CCB1	CCB1	CCB	05/25/18 09:04		OK
11	PB109663BL	PB109663BL	MB	05/25/18 09:04		OK
12	PB109663BS	PB109663BS	LCS	05/25/18 09:04		OK
13	J3101-01	FK-PS-01-027	SAM	05/25/18 09:05		OK
14	J3101-01DUP	FK-PS-01-027DUP	DUP	05/25/18 09:05		OK
15	J3101-01MS	FK-PS-01-027MS	MS	05/25/18 09:05		OK
16	J3101-01MSD	FK-PS-01-027MSD	MSD	05/25/18 09:05		OK
17	PB109662BL	PB109662BL	MB	05/25/18 09:05		OK
18	PB109662BS	PB109662BS	LCS	05/25/18 09:05		OK
19	J3122-01	EFFLUENT	SAM	05/25/18 09:15	High	Dilution
20	J3122-01DUP	EFFLUENTDUP	DUP	05/25/18 09:15	High	Dilution
21	CCV2	CCV2	CCV	05/25/18 09:44		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB95625

Review By		Review On				
SubDirectory		LB95625		Test : Ammonia		
STD. NAME		STD REF.#				
ICAL Standard		WP64818				
ICV Standard		WP64820				
CCV Standard		WP64819				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP64802				
Chk Standard		WP61582,WP64526,WP64528,WP64527				
22	CCB2	CCB2	CCB	05/25/18 09:44		OK
23	J3122-01MS	EFFLUENTMS	MS	05/25/18 10:03	High	Dilution
24	J3122-01MSD	EFFLUENTMSD	MSD	05/25/18 10:03	High	Dilution
25	J3122-03	INFLUENT	SAM	05/25/18 10:03	High	Dilution
26	J3122-01DL	EFFLUENTDL	SAM	05/25/18 10:25	Report 50x	Confirms
27	J3122-01DUPDL	EFFLUENTDUPDL	DUP	05/25/18 10:25	Report 50x	Confirms
28	J3122-01MSDL	EFFLUENTMSDL	MS	05/25/18 10:25	Report 50x	Confirms
29	J3122-01MSDDL	EFFLUENTMSDDL	MSD	05/25/18 10:25	Report 50x	Confirms
30	J3122-03DL	INFLUENTDL	SAM	05/25/18 10:51	Report 200x	Confirms
31	CCV3	CCV3	CCV	05/25/18 10:51		OK
32	CCB3	CCB3	CCB	05/25/18 10:51		OK



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Report of Analysis

Client:		Date Collected:	5/23/2018 12:00:00 AM
Project:	LB95625	Date Received:	5/23/2018 12:00:00 AM
Client Sample ID:	FK-PS-01-027	SDG No.:	LB95625
Lab Sample ID:	J3101-01	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	20.7		1	1.8		5.3	mg/Kg	05/24/2018	05/25/2018	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	5/23/2018 12:00:00 AM
Project:	LB95625	Date Received:	5/24/2018 12:00:00 AM
Client Sample ID:	EFFLUENT	SDG No.:	LB95625
Lab Sample ID:	J3122-01	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	45.1	OR	1	0.034		0.1	mg/L	05/24/2018	05/25/2018	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	5/23/2018 12:00:00 AM
Project:	LB95625	Date Received:	5/24/2018 12:00:00 AM
Client Sample ID:	EFFLUENTDL	SDG No.:	LB95625
Lab Sample ID:	J3122-01DL	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	80.8	D	50	1.7		5	mg/L	05/24/2018	05/25/2018	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	5/23/2018 12:00:00 AM
Project:	LB95625	Date Received:	5/24/2018 12:00:00 AM
Client Sample ID:	INFLUENT	SDG No.:	LB95625
Lab Sample ID:	J3122-03	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	45.2	OR	1	0.034		0.1	mg/L	05/24/2018	05/25/2018	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	5/23/2018 12:00:00 AM
Project:	LB95625	Date Received:	5/24/2018 12:00:00 AM
Client Sample ID:	INFLUENTDL	SDG No.:	LB95625
Lab Sample ID:	J3122-03DL	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	341	D	200	6.8		20	mg/L	05/24/2018	05/25/2018	SM4500-NH3



Report of Analysis

Client:		Date Collected:	5/23/2018 12:00:00 AM
Project:	LB95625	Date Received:	5/24/2018 12:00:00 AM
Client Sample ID:	INFLUENTDL	SDG No.:	LB95625
Lab Sample ID:	J3122-03DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB95625

SDG No.: LB95625

Contract: _____

Lab Code: CHEM

Case No.: LB95625

SAS No.: LB95625

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Ammonia as N	1	1	100		90 - 110		05/25/2018	09:04	LB95625



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95625

SDG No.: LB95625

Contract: _____ Lab Code: CHEM

Case No.: LB95625

SAS No.: LB95625

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Ammonia as N	0.96	1	96		90 - 110		05/25/2018	09:04	LB95625
CCV2	Ammonia as N	1	1	100		90 - 110		05/25/2018	09:44	LB95625
CCV3	Ammonia as N	0.99	1	99		90 - 110		05/25/2018	10:51	LB95625



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95625 SDG No.: LB95625
Contract: Lab Code: CHEM Case No.: LB95625 SAS No.: LB95625

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Ammonia as N	0.022	+/-0.1	U		0.1		05/25/2018	09:04	LB95625

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Ammonia as N	0.018	+/-0.1	U			0.1	05/25/2018	09:04	LB95625
CCB2	Ammonia as N	0.015	+/-0.1	U			0.1	05/25/2018	09:44	LB95625
CCB3	Ammonia as N	0.018	+/-0.1	U			0.1	05/25/2018	10:51	LB95625



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95625

SDG No.: LB95625

Contract: Lab Code: CHEM

Case No.: LB95625

SAS No.: LB95625

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: LB95625

SDG No.: LB95625

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
PB109662BL	Ammonia as N	WATER		Batch Number:		PB109662		Prep Date:	05/24/2018	
		0.022	<0.1	U		0.1		05/25/2018	09:05	LB95625
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB109663BL	Ammonia as N	SOLID		Batch Number:		PB109663		Prep Date:	05/24/2018	
		1	<4.9	U		4.9		05/25/2018	09:04	LB95625



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95625 level: low sdg no.: LB95625
contract: lab code: CHEM case no.: LB95625 sas no.: LB95625
matrix: Solid sample id: J3101-01 client id: FK-PS-01-027MS
Percent Solids for Sample: 91.3 Spiked ID: J3101-01MS 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	62.4		20.7		53.2	78		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95625 level: low sdg no.: LB95625
contract: lab code: CHEM case no.: LB95625 sas no.: LB95625
matrix: Solid sample id: J3101-01 client id: FK-PS-01-027MSD
Percent Solids for Sample: 91.3 Spiked ID: J3101-01MSD 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	60.8		20.7		52.7	76		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95625 level: low sdg no.: LB95625
contract: lab code: CHEM case no.: LB95625 sas no.: LB95625
matrix: WATER sample id: J3122-01 client id: EFFLUENTMS
Percent Solids for Sample: 0 Spiked ID: J3122-01MS 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	45.2	OR	45.1	OR	1	10	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95625 level: low sdg no.: LB95625
contract: lab code: CHEM case no.: LB95625 sas no.: LB95625
matrix: WATER sample id: J3122-01 client id: EFFLUENTMSD
Percent Solids for Sample: 0 Spiked ID: J3122-01MSD 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	45.2	OR	45.1	OR	1	10	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95625 level: low sdg no.: LB95625
contract: lab code: CHEM case no.: LB95625 sas no.: LB95625
matrix: WATER sample id: J3122-01DL client id: EFFLUENTMSDDL
Percent Solids for Sample: 0 Spiked ID: J3122-01MSDDL 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	87	D	80.8	D	1	620	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95625 level: low sdg no.: LB95625
contract: lab code: CHEM case no.: LB95625 sas no.: LB95625
matrix: WATER sample id: J3122-01DL client id: EFFLUENTMSDL
Percent Solids for Sample: 0 Spiked ID: J3122-01MSDL 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	86.6	D	80.8	D	1	580	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95625 **Level:** LOW **SDG No.:** LB95625
Contract: **Lab Code:** CHEM **Case No.:** LB95625 **SAS No.:** LB95625
Matrix: Solid **Sample ID:** J3101-01 **Client ID:** FK-PS-01-027DUP
Percent Solids for Sample: 91.3 **Duplicate ID** J3101-01DUP **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	20.7		18.9		9		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95625 **Level:** LOW **SDG No.:** LB95625
Contract: **Lab Code:** CHEM **Case No.:** LB95625 **SAS No.:** LB95625
Matrix: Solid **Sample ID:** J3101-01MS **Client ID:** FK-PS-01-027MSD
Percent Solids for Sample: 91.3 **Duplicate ID** J3101-01MSD **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	62.4		60.8		3		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95625 **Level:** LOW **SDG No.:** LB95625
Contract: **Lab Code:** CHEM **Case No.:** LB95625 **SAS No.:** LB95625
Matrix: WATER **Sample ID:** J3122-01 **Client ID:** EFFLUENTDUP
Percent Solids for Sample: 0 **Duplicate ID** J3122-01DUP **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	45.1	OR	45.1	OR	0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95625 **Level:** LOW **SDG No.:** LB95625
Contract: **Lab Code:** CHEM **Case No.:** LB95625 **SAS No.:** LB95625
Matrix: WATER **Sample ID:** J3122-01DL **Client ID:** EFFLUENTDUPDL
Percent Solids for Sample: 0 **Duplicate ID** J3122-01DUPDL **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	80.8	D	82.2	D	2		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95625 **Level:** LOW **SDG No.:** LB95625
Contract: **Lab Code:** CHEM **Case No.:** LB95625 **SAS No.:** LB95625
Matrix: WATER **Sample ID:** J3122-01MS **Client ID:** EFFLUENTMSD
Percent Solids for Sample: 0 **Duplicate ID** J3122-01MSD **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	45.2	OR	45.2	OR	0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95625 **Level:** LOW **SDG No.:** LB95625
Contract: **Lab Code:** CHEM **Case No.:** LB95625 **SAS No.:** LB95625
Matrix: WATER **Sample ID:** J3122-01MSDL **Client ID:** EFFLUENTMSDDL
Percent Solids for Sample: 0 **Duplicate ID** J3122-01MSDDL **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	86.6	D	87	D	0		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95625

SDG No.: LB95625

Contract:

Lab Code: CHEM

Case No.: LB95625

SAS No.: LB95625

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB109662BS Ammonia as N	mg/L	1	1		100	80 - 120	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95625

SDG No.: LB95625

Contract:

Lab Code: CHEM

Case No.: LB95625

SAS No.: LB95625

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB109663BS Ammonia as N	mg/Kg	49.5	49.5		100	80 - 120	