

Daily Analysis Runlog For Sequence/QC Batch ID # LB95291

Review By		apatel		Review On		5/11/2018 1:33:15 PM	
SubDirectory		LB95291		Test :		Ammonia	
STD. NAME		STD REF.#					
ICAL Standard		WP64415					
ICV Standard		WP64417					
CCV Standard		WP64416					
ICSA Standard		N/A					
CRI Standard		N/A					
LCS Standard		WP64283					
Chk Standard		WP61582,WP63749,WP63750,WP63751					
Sr#	SampleID	ClientID	QcType	Date	Comment	Status	
1	0.1PPM	0.1PPM	CAL1	05/11/18 10:34		OK	
2	0.2PPM	0.2PPM	CAL2	05/11/18 10:34		OK	
3	0.4PPM	0.4PPM	CAL3	05/11/18 10:34		OK	
4	1.0PPM	1.0PPM	CAL4	05/11/18 10:34		OK	
5	1.3PPM	1.3PPM	CAL5	05/11/18 10:34		OK	
6	2.0PPM	2.0PPM	CAL6	05/11/18 10:34		OK	
7	ICV1	ICV1	ICV	05/11/18 11:02		OK	
8	ICB1	ICB1	ICB	05/11/18 11:02		OK	
9	CCV1	CCV1	CCV	05/11/18 11:02		OK	
10	CCB1	CCB1	CCB	05/11/18 11:02		OK	
11	PB109152BL	PB109152BL	MB	05/11/18 11:02		OK	
12	PB109152BS	PB109152BS	LCS	05/11/18 11:02		OK	
13	J2823-01	GREENSAND-SUPP	SAM	05/11/18 11:02	high	Dilution	
14	J2823-01DUP	GREENSAND-SUPP	DUP	05/11/18 11:02	high	Dilution	
15	J2823-01MS	GREENSAND-SUPP	MS	05/11/18 11:02	high	Dilution	
16	J2823-01MSD	GREENSAND-SUPP	MSD	05/11/18 11:02	high	Dilution	
17	J2823-02	GREENSAND-SUPP	SAM	05/11/18 11:02	high	Dilution	
18	J2825-01	FK-PS-01-025	SAM	05/11/18 11:02		OK	
19	J2828-01	FK-PS-01.025	SAM	05/11/18 11:08		OK	
20	CCV2	CCV2	CCV	05/11/18 11:08		OK	
21	CCB2	CCB2	CCB	05/11/18 11:08		OK	

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SubDirectory		LB95291		Test : Ammonia			
STD. NAME		STD REF.#					
ICAL Standard		WP64415					
ICV Standard		WP64417					
CCV Standard		WP64416					
ICSA Standard		N/A					
CRI Standard		N/A					
LCS Standard		WP64283					
Chk Standard		WP61582,WP63749,WP63750,WP63751					
22	J2823-01DL	GREENSAND-SUPP	SAM	05/11/18 11:41	report 2x	Confirms	
23	J2823-01DUPDL	GREENSAND-SUPP	DUP	05/11/18 11:41	report 2x	Confirms	
24	J2823-01MSDL	GREENSAND-SUPP	MS	05/11/18 11:41	report 2x	Confirms	
25	J2823-01MSDDL	GREENSAND-SUPP	MSD	05/11/18 11:41	report 2x	Confirms	
26	J2823-02DL	GREENSAND-SUPP	SAM	05/11/18 11:41	report 2x	Confirms	
27	CCV3	CCV3	CCV	05/11/18 11:41		OK	
28	CCB3	CCB3	CCB	05/11/18 11:41		OK	



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Report of Analysis

Client:		Date Collected:	5/8/2018 12:00:00 AM
Project:	LB95291	Date Received:	5/8/2018 12:00:00 AM
Client Sample ID:	GREENSAND-SUPPLY-A	SDG No.:	LB95291
Lab Sample ID:	J2823-01	Matrix:	Solid
Level (low/med):	low	% Solid:	71.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	193	OR	1	2.3		6.7	mg/Kg	05/10/2018	05/11/2018	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	5/8/2018 12:00:00 AM
Project:	LB95291	Date Received:	5/8/2018 12:00:00 AM
Client Sample ID:	GREENSAND-SUPPLY-ADL	SDG No.:	LB95291
Lab Sample ID:	J2823-01DL	Matrix:	Solid
Level (low/med):	low	% Solid:	71.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	187	D	2	4.6		13.4	mg/Kg	05/10/2018	05/11/2018	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	5/8/2018 12:00:00 AM
Project:	LB95291	Date Received:	5/8/2018 12:00:00 AM
Client Sample ID:	GREENSAND-SUPPLY-B	SDG No.:	LB95291
Lab Sample ID:	J2823-02	Matrix:	Solid
Level (low/med):	low	% Solid:	60.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	275	OR	1	2.7		7.9	mg/Kg	05/10/2018	05/11/2018	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	5/8/2018 12:00:00 AM
Project:	LB95291	Date Received:	5/8/2018 12:00:00 AM
Client Sample ID:	GREENSAND-SUPPLY-BDL	SDG No.:	LB95291
Lab Sample ID:	J2823-02DL	Matrix:	Solid
Level (low/med):	low	% Solid:	60.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	271	D	2	5.4		15.8	mg/Kg	05/10/2018	05/11/2018	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	5/9/2018 12:00:00 AM
Project:	LB95291	Date Received:	5/9/2018 12:00:00 AM
Client Sample ID:	FK-PS-01-025	SDG No.:	LB95291
Lab Sample ID:	J2825-01	Matrix:	Solid
Level (low/med):	low	% Solid:	92.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	12.5		1	1.8		5.2	mg/Kg	05/10/2018	05/11/2018	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	5/9/2018 12:00:00 AM
Project:	LB95291	Date Received:	5/9/2018 12:00:00 AM
Client Sample ID:	FK-PS-01.025	SDG No.:	LB95291
Lab Sample ID:	J2828-01	Matrix:	Solid
Level (low/med):	low	% Solid:	86.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	14.5		1	1.9		5.5	mg/Kg	05/10/2018	05/11/2018	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	5/9/2018 12:00:00 AM
Project:	LB95291	Date Received:	5/9/2018 12:00:00 AM
Client Sample ID:	FK-PS-01.025	SDG No.:	LB95291
Lab Sample ID:	J2828-01	Matrix:	Solid
Level (low/med):	low	% Solid:	86.1

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: LB95291

SDG No.: LB95291

Contract: _____

Lab Code: CHEM

Case No.: LB95291

SAS No.: LB95291

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	0.98	1	98		90 - 110		05/11/2018	11:02	lb95291



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95291

SDG No.: LB95291

Contract: _____ Lab Code: CHEM

Case No.: LB95291

SAS No.: LB95291

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	0.94	1	94		90 - 110		05/11/2018	11:02	lb95291
CCV2	Ammonia as N	0.97	1	97		90 - 110		05/11/2018	11:08	lb95291
CCV3	Ammonia as N	0.94	1	94		90 - 110		05/11/2018	11:41	lb95291



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95291 **SDG No.:** LB95291
Contract: **Lab Code:** CHEM **Case No.:** LB95291 **SAS No.:** LB95291

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Ammonia as N	0.012	+/-0.1	U		0.1		05/11/2018	11:02	lb95291



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95291

SDG No.: LB95291

Contract:

Lab Code: CHEM

Case No.: LB95291

SAS No.: LB95291

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Ammonia as N	0.0073	+/-0.1	U			0.1	05/11/2018	11:02	lb95291
CCB2	Ammonia as N	0.019	+/-0.1	U			0.1	05/11/2018	11:08	lb95291
CCB3	Ammonia as N	0.017	+/-0.1	U			0.1	05/11/2018	11:41	lb95291



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95291

SDG No.: LB95291

Contract: Lab Code: CHEM

Case No.: LB95291

SAS No.: LB95291

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: LB95291

SDG No.: LB95291

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
PB109152BL		SOLID		Batch Number:		PB109152		Prep Date:	05/10/2018	
	Ammonia as N	0.47	<4.9	U		4.9		05/11/2018	11:02	lb95291



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95291 level: low sdg no.: LB95291
contract: lab code: CHEM case no.: LB95291 sas no.: LB95291
matrix: Solid sample id: J2823-01 client id: GREENSAND-SUPPLY-AMS
Percent Solids for Sample: 71.6 Spiked ID: J2823-01MS Percent Solids for Spike Sample: 71.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Ammonia as N	mg/Kg	75 - 125	264	OR	193	OR	67.1	106		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95291 level: low sdg no.: LB95291
contract: lab code: CHEM case no.: LB95291 sas no.: LB95291
matrix: Solid sample id: J2823-01 client id: GREENSAND-SUPPLY-AMSD
Percent Solids for Sample: 71.6 Spiked ID: J2823-01MSD Percent Solids for Spike Sample: 71.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Ammonia as N	mg/Kg	75 - 125	268	OR	193	OR	67.8	111		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95291 level: low sdg no.: LB95291
contract: lab code: CHEM case no.: LB95291 sas no.: LB95291
matrix: Solid sample id: J2823-01DL client id: GREENSAND-SUPPLY-AMSDDL
Percent Solids for Sample: 71.6 Spiked ID: J2823-01MSDDL Percent Solids for Spike Sample: 71.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Ammonia as N	mg/Kg	75 - 125	270	D	187	D	67.8	122		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95291 level: low sdg no.: LB95291
contract: lab code: CHEM case no.: LB95291 sas no.: LB95291
matrix: Solid sample id: J2823-01DL client id: GREENSAND-SUPPLY-AMSDL
Percent Solids for Sample: 71.6 Spiked ID: J2823-01MSDL Percent Solids for Spike Sample: 71.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Ammonia as N	mg/Kg	75 - 125	268	D	187	D	67.1	121		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95291 **Level:** LOW **SDG No.:** LB95291
Contract: **Lab Code:** CHEM **Case No.:** LB95291 **SAS No.:** LB95291
Matrix: Solid **Sample ID:** J2823-01 **Client ID:** GREENSAND-SUPPLY-ADUP
Percent Solids for Sample: 71.6 **Duplicate ID** J2823-01DUP **Percent Solids for Spike Sample:** 71.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Ammonia as N	mg/Kg	20	193	OR	192	OR	1		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95291 **Level:** LOW **SDG No.:** LB95291
Contract: **Lab Code:** CHEM **Case No.:** LB95291 **SAS No.:** LB95291
Matrix: Solid **Sample ID:** J2823-01DL **Client ID:** GREENSAND-SUPPLY-ADUPDL
Percent Solids for Sample: 71.6 **Duplicate ID** J2823-01DUPDL **Percent Solids for Spike Sample:** 71.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Ammonia as N	mg/Kg	20	187	D	194	D	4		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95291 **Level:** LOW **SDG No.:** LB95291
Contract: **Lab Code:** CHEM **Case No.:** LB95291 **SAS No.:** LB95291
Matrix: Solid **Sample ID:** J2823-01MS **Client ID:** GREENSAND-SUPPLY-AMSD
Percent Solids for Sample: 71.6 **Duplicate ID** J2823-01MSD **Percent Solids for Spike Sample:** 71.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Ammonia as N	mg/Kg	20	264	OR	268	OR	2		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95291 **Level:** LOW **SDG No.:** LB95291
Contract: **Lab Code:** CHEM **Case No.:** LB95291 **SAS No.:** LB95291
Matrix: Solid **Sample ID:** J2823-01MSDL **Client ID:** GREENSAND-SUPPLY-AMSDDL
Percent Solids for Sample: 71.6 **Duplicate ID** J2823-01MSDDL **Percent Solids for Spike Sample:** 71.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Ammonia as N	mg/Kg	20	268	D	270	D	1		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95291

SDG No.: LB95291

Contract:

Lab Code: CHEM

Case No.: LB95291

SAS No.: LB95291

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB109152BS Ammonia as N	mg/Kg	49.5	49.3		99.6	80 - 120	