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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86287 **SDG No.:** LB86287

Contract: **Lab Code:** CHEM **Case No.:** LB86287 **SAS No.:** LB86287

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	0.94	1	94	0	90 - 110		03/10/2017	10:02	LB86287

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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86287 **SDG No.:** LB86287

Contract: **Lab Code:** CHEM **Case No.:** LB86287 **SAS No.:** LB86287

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		03/10/2017	10:02	LB86287
CCV2	Ammonia as N	0.94	1	94	0	90 - 110		03/10/2017	10:28	LB86287

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86287 **SDG No.:** LB86287

Contract: **Lab Code:** CHEM **Case No.:** LB86287 **SAS No.:** LB86287

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Ammonia as N	0.017	+/-0.1	U		0.1		03/10/2017	10:02	LB86287

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86287 **SDG No.:** LB86287

Contract: **Lab Code:** CHEM **Case No.:** LB86287 **SAS No.:** LB86287

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Ammonia as N	0.012	+/-0.1	U		0.1		03/10/2017	10:02	LB86287
CCB2	Ammonia as N	0.022	+/-0.1	U		0.1		03/10/2017	10:28	LB86287

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86287 **SDG No.:** LB86287

Contract: **Lab Code:** CHEM **Case No.:** LB86287 **SAS No.:** LB86287

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number

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Report of Analysis

Client:		Date Collected:	3/7/2017 12:00:00 AM
Project:	LB86287	Date Received:	3/7/2017 12:00:00 AM
Client Sample ID:	EME-BLEND8-1	SDG No.:	LB86287
Lab Sample ID:	I2154-01	Matrix:	Solid
Level (low/med):	low	% Solid:	78.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	19.0		1	2.1		6.2	mg/Kg	03/09/2017	03/10/2017	SM4500-NH3

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Report of Analysis

Client:		Date Collected:	3/7/2017 12:00:00 AM
Project:	LB86287	Date Received:	3/7/2017 12:00:00 AM
Client Sample ID:	EME-BLEND8-01	SDG No.:	LB86287
Lab Sample ID:	I2155-01	Matrix:	Solid
Level (low/med):	low	% Solid:	79.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	26.5		1	2		5.9	mg/Kg	03/09/2017	03/10/2017	SM4500-NH3

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Report of Analysis

Client:		Date Collected:	3/7/2017 12:00:00 AM
Project:	LB86287	Date Received:	3/7/2017 12:00:00 AM
Client Sample ID:	EME-BLEND008-1	SDG No.:	LB86287
Lab Sample ID:	I2156-01	Matrix:	Solid
Level (low/med):	low	% Solid:	81.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	23.3		1	2		5.9	mg/Kg	03/09/2017	03/10/2017	SM4500-NH3

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Report of Analysis

Client:		Date Collected:	3/7/2017 12:00:00 AM
Project:	LB86287	Date Received:	3/7/2017 12:00:00 AM
Client Sample ID:	EME-BLEND008-01	SDG No.:	LB86287
Lab Sample ID:	I2157-01	Matrix:	Solid
Level (low/med):	low	% Solid:	81.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	26.2		1	2		5.8	mg/Kg	03/09/2017	03/10/2017	SM4500-NH3

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Report of Analysis

Client:		Date Collected:	3/7/2017 12:00:00 AM
Project:	LB86287	Date Received:	3/7/2017 12:00:00 AM
Client Sample ID:	EME-BLEND008-01	SDG No.:	LB86287
Lab Sample ID:	I2157-01	Matrix:	Solid
Level (low/med):	low	% Solid:	81.8

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

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

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- 3b -
PREPARATION BLANK SUMMARY

Client: LB86287 **SDG No.:** LB86287

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
PB97475BL		**SOLID**		**Batch Number:**		**PB97475**		**Prep Date:**	**03/09/2017**	
	Ammonia as N	0.98	<5	U		5		03/10/2017	10:28	LB86287

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MATRIX SPIKE SUMMARY

client: LB86287 **level:** low **sdg no.:** LB86287

contract: **lab code:** CHEM **case no.:** LB86287 **sas no.:** LB86287

matrix: Solid **sample id:** I2154-01 **client id:** EME-BLEND8-1MS

Percent Solids for Sample: 78.3 **Spiked ID:** I2154-01MS **Percent Solids for Spike Sample:** 78.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Ammonia as N	mg/Kg	75 - 125	81.0		19.0		60.8	102		

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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB86287 **level:** low **sdg no.:** LB86287

contract: **lab code:** CHEM **case no.:** LB86287 **sas no.:** LB86287

matrix: Solid **sample id:** I2154-01 **client id:** EME-BLEND8-1MSD

Percent Solids for Sample: 78.3 **Spiked ID:** I2154-01MSD **Percent Solids for Spike Sample:** 78.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Ammonia as N	mg/Kg	75 - 125	82.5		19.0		61.4	103		

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DUPLICATE SAMPLE SUMMARY

Client: LB86287 **Level:** LOW **SDG No.:** LB86287

Contract: **Lab Code:** CHEM **Case No.:** LB86287 **SAS No.:** LB86287

Matrix: Solid **Sample ID:** I2154-01 **Client ID:** EME-BLEND8-1DUP

Percent Solids for Sample: 78.3 **Duplicate ID** I2154-01DUP **Percent Solids for Spike Sample:** 78.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Ammonia as N	mg/Kg	20	19.0		18.9		1		

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: LB86287 **Level:** LOW **SDG No.:** LB86287

Contract: **Lab Code:** CHEM **Case No.:** LB86287 **SAS No.:** LB86287

Matrix: Solid **Sample ID:** I2154-01MS **Client ID:** EME-BLEND8-1MSD

Percent Solids for Sample: 78.3 **Duplicate ID** I2154-01MSD **Percent Solids for Spike Sample:** 78.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Ammonia as N	mg/Kg	20	81.0		82.5		2		

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86287 **SDG No.:** LB86287

Contract: **Lab Code:** CHEM **Case No.:** LB86287 **SAS No.:** LB86287

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB97475BS							
Ammonia as N	mg/Kg	50	47.6		95.2	80 - 120	