

Daily Analysis Runlog For Sequence/QC Batch ID # LB89986

Review By		Review On				
SubDirectory		LB89986		Test : TOC		
STD. NAME		STD REF.#				
ICAL Standard		WP57223,WP57224,WP57225,WP57226,WP57227				
ICV Standard		WP57229				
CCV Standard		WP57228				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP57229				
Chk Standard		WP56303				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	BLANK	BLANK	CAL1	08/14/17 11:43		OK
2	250mg/l	250mg/l	CAL2	08/14/17 11:46		OK
3	500mg/l	500mg/l	CAL3	08/14/17 11:50		OK
4	1000mg/l	1000mg/l	CAL4	08/14/17 11:55		OK
5	2000mg/l	2000mg/l	CAL5	08/14/17 12:01		OK
6	ICV1	ICV1	ICV	08/14/17 12:05		OK
7	ICB1	ICB1	ICB	08/14/17 12:09		OK
8	CCV1	CCV1	CCV	09/11/17 11:30		OK
9	CCB1	CCB1	CCB	09/11/17 11:35		OK
10	LB89986BLS	LB89986BLS	MB	09/11/17 11:42		OK
11	LB89986BSS	LB89986BSS	LCS	09/11/17 11:49		OK
12	I5138-01	EME-UTS-TS001-01	SAM	09/11/17 12:16		OK
13	I5138-01DUP	EME-UTS-TS001-01	DUP	09/11/17 12:37		OK
14	I5138-02	EME-UTS-TS001-01	MS	09/11/17 14:20		OK
15	I5138-03	EME-UTS-TS001-01	MSD	09/11/17 15:47		OK
16	CCV2	CCV2	CCV	09/11/17 15:51		OK
17	CCB2	CCB2	CCB	09/11/17 15:56		OK
18	I5138-04	EME-UTS-TS001-02	SAM	09/11/17 16:11		OK
19	I5138-05	EME-UTS-TS002-01	SAM	09/11/17 16:25		OK
20	I5138-06	EME-UTS-TS003-01	SAM	09/11/17 16:56		OK
21	I5138-07	EME-UTS-TS004-01	SAM	09/11/17 18:05		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB89986

Review By		Review On				
SubDirectory		LB89986		Test : TOC		
STD. NAME		STD REF.#				
ICAL Standard		WP57223,WP57224,WP57225,WP57226,WP57227				
ICV Standard		WP57229				
CCV Standard		WP57228				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP57229				
Chk Standard		WP56303				
22	I5138-08	EME-UTS-TS005-01	SAM	09/11/17 18:26		OK
23	I5138-09	EME-UTS-TS006-01	SAM	09/11/17 18:37		OK
24	I5138-10	EME-UTS-TS007-01	SAM	09/11/17 18:50		OK
25	I5138-11	EME-UTS-TS008-01	SAM	09/11/17 19:03		OK
26	I5138-12	EME-UTS-TS009-01	SAM	09/11/17 19:21		OK
27	I5138-13	EME-UTS-TS010-01	SAM	09/11/17 19:32		OK
28	CCV3	CCV3	CCV	09/11/17 19:42		OK
29	CCB3	CCB3	CCB	09/11/17 19:50		OK
30	CCV4	CCV4	CCV	09/12/17 12:06		OK
31	CCB4	CCB4	CCB	09/12/17 12:11		OK
32	LB89986BLS2	LB89986BLS2	MB	09/12/17 12:18		OK
33	LB89986BSS2	LB89986BSS2	LCS	09/12/17 12:30		OK
34	I5138-14	EME-UTS-TS011-01	SAM	09/12/17 12:48		OK
35	I5138-15	EME-WM-TS001-01	SAM	09/12/17 13:05		OK
36	I5138-16	EME-WM-TS002-01	SAM	09/12/17 13:21		OK
37	I5138-17	EME-WM-TS003-01	SAM	09/12/17 13:37		OK
38	I5138-18	EME-WM-TS004-01	SAM	09/12/17 13:53		OK
39	I5138-19	EME-WM-TS005-01	SAM	09/12/17 14:07		OK
40	I5138-20	EME-WM-TS006-01	SAM	09/12/17 14:19		OK
41	I5138-21	EME-WM-TS007-01	SAM	09/12/17 14:43		OK
42	CCV5	CCV5	CCV	09/12/17 14:54		OK
43	CCB5	CCB5	CCB	09/12/17 14:59		OK



Instrument ID : TOC

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

Daily Analysis Runlog For Sequence/QCBatch ID # LB89986

Review By			Review On			
SubDirectory		LB89986	Test : TOC			
STD. NAME		STD REF.#				
ICAL Standard		WP57223,WP57224,WP57225,WP57226,WP57227				
ICV Standard		WP57229				
CCV Standard		WP57228				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP57229				
Chk Standard		WP56303				
44	I5138-22	EME-WM-TS008-01	SAM	09/12/17 15:20		OK
45	I5138-22DUP	EME-WM-TS008-01D	DUP	09/12/17 15:31		OK
46	CCV6	CCV6	CCV	09/12/17 15:36		OK
47	CCB6	CCB6	CCB	09/12/17 15:40		OK



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

Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89986	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS001-01	SDG No.:	LB89986
Lab Sample ID:	I5138-01	Matrix:	Solid
Level (low/med):	low	% Solid:	79

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	7180	OR	1	11.8		250	mg/Kg		09/11/2017	Lloyd Kahn



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

Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89986	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS001-02	SDG No.:	LB89986
Lab Sample ID:	I5138-04	Matrix:	Solid
Level (low/med):	low	% Solid:	79.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	9150	OR	1	11.8		250	mg/Kg		09/11/2017	Lloyd Kahn



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

Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89986	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS002-01	SDG No.:	LB89986
Lab Sample ID:	I5138-05	Matrix:	Solid
Level (low/med):	low	% Solid:	76.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	8930		1	11.8		250	mg/Kg		09/11/2017	Lloyd Kahn



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

Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89986	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS003-01	SDG No.:	LB89986
Lab Sample ID:	I5138-06	Matrix:	Solid
Level (low/med):	low	% Solid:	73.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	8260	OR	1	11.8		250	mg/Kg		09/11/2017	Lloyd Kahn



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

Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89986	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS004-01	SDG No.:	LB89986
Lab Sample ID:	I5138-07	Matrix:	Solid
Level (low/med):	low	% Solid:	80.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	9160	OR	1	11.8		250	mg/Kg		09/11/2017	Lloyd Kahn



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

Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89986	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS005-01	SDG No.:	LB89986
Lab Sample ID:	I5138-08	Matrix:	Solid
Level (low/med):	low	% Solid:	74.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	7430	OR	1	11.8		250	mg/Kg		09/11/2017	Lloyd Kahn



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

Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89986	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS006-01	SDG No.:	LB89986
Lab Sample ID:	I5138-09	Matrix:	Solid
Level (low/med):	low	% Solid:	73

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	8390	OR	1	11.8		250	mg/Kg		09/11/2017	Lloyd Kahn



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

Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89986	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS007-01	SDG No.:	LB89986
Lab Sample ID:	I5138-10	Matrix:	Solid
Level (low/med):	low	% Solid:	77.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	9040	OR	1	11.8		250	mg/Kg		09/11/2017	Lloyd Kahn



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

Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89986	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS008-01	SDG No.:	LB89986
Lab Sample ID:	I5138-11	Matrix:	Solid
Level (low/med):	low	% Solid:	72.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	7490	OR	1	11.8		250	mg/Kg		09/11/2017	Lloyd Kahn



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

Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89986	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS009-01	SDG No.:	LB89986
Lab Sample ID:	I5138-12	Matrix:	Solid
Level (low/med):	low	% Solid:	76.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	7430		1	11.8		250	mg/Kg		09/11/2017	Lloyd Kahn



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

Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89986	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS010-01	SDG No.:	LB89986
Lab Sample ID:	I5138-13	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.
	TOC	7560	OR	1	11.8		250	mg/Kg		09/11/2017	Lloyd Kahn



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

Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89986	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS011-01	SDG No.:	LB89986
Lab Sample ID:	I5138-14	Matrix:	Solid
Level (low/med):	low	% Solid:	76.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	9500	OR	1	11.8		250	mg/Kg		09/12/2017	Lloyd Kahn



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

Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89986	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS001-01	SDG No.:	LB89986
Lab Sample ID:	I5138-15	Matrix:	Solid
Level (low/med):	low	% Solid:	68.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	16500	OR	1	11.8		250	mg/Kg		09/12/2017	Lloyd Kahn



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

Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89986	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS002-01	SDG No.:	LB89986
Lab Sample ID:	I5138-16	Matrix:	Solid
Level (low/med):	low	% Solid:	65.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	12400	OR	1	11.8		250	mg/Kg		09/12/2017	Lloyd Kahn



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

Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89986	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS003-01	SDG No.:	LB89986
Lab Sample ID:	I5138-17	Matrix:	Solid
Level (low/med):	low	% Solid:	67

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	15100	OR	1	11.8		250	mg/Kg		09/12/2017	Lloyd Kahn



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

Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89986	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS004-01	SDG No.:	LB89986
Lab Sample ID:	I5138-18	Matrix:	Solid
Level (low/med):	low	% Solid:	67.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	14500	OR	1	11.8		250	mg/Kg		09/12/2017	Lloyd Kahn



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

Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89986	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS005-01	SDG No.:	LB89986
Lab Sample ID:	I5138-19	Matrix:	Solid
Level (low/med):	low	% Solid:	72.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	11000	OR	1	11.8		250	mg/Kg		09/12/2017	Lloyd Kahn



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

Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89986	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS006-01	SDG No.:	LB89986
Lab Sample ID:	I5138-20	Matrix:	Solid
Level (low/med):	low	% Solid:	74.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	11100	OR	1	11.8		250	mg/Kg		09/12/2017	Lloyd Kahn



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

Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89986	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS007-01	SDG No.:	LB89986
Lab Sample ID:	I5138-21	Matrix:	Solid
Level (low/med):	low	% Solid:	75.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	13800	OR	1	11.8		250	mg/Kg		09/12/2017	Lloyd Kahn



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

Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89986	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS008-01	SDG No.:	LB89986
Lab Sample ID:	I5138-22	Matrix:	Solid
Level (low/med):	low	% Solid:	69.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	10500	OR	1	11.8		250	mg/Kg		09/12/2017	Lloyd Kahn



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

Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89986	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS008-01	SDG No.:	LB89986
Lab Sample ID:	I5138-22	Matrix:	Solid
Level (low/med):	low	% Solid:	69.2

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



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89986

SDG No.: LB89986

Contract: _____ Lab Code: CHEM

Case No.: LB89986

SAS No.: LB89986

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	TOC	909	1000	90.9	0	90 - 110		09/11/2017	11:30	LB89986
CCV2	TOC	1070	1000	107	0	90 - 110		09/11/2017	15:51	LB89986
CCV3	TOC	924	1000	92.4	0	90 - 110		09/11/2017	19:42	LB89986
CCV4	TOC	917	1000	91.7	0	90 - 110		09/12/2017	12:06	LB89986
CCV5	TOC	932	1000	93.2	0	90 - 110		09/12/2017	14:54	LB89986
CCV6	TOC	967	1000	96.7	0	90 - 110		09/12/2017	15:36	LB89986



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89986 **SDG No.:** LB89986
Contract: **Lab Code:** CHEM **Case No.:** LB89986 **SAS No.:** LB89986

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	TOC	14.9	+/-250	J		250		08/14/2017	12:09	LB89986



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89986

SDG No.: LB89986

Contract:

Lab Code: CHEM

Case No.: LB89986

SAS No.: LB89986

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	TOC	18.4	+/-250	J		250		09/11/2017	11:35	LB89986
CCB2	TOC	6.9	+/-250	U		250		09/11/2017	15:56	LB89986
CCB3	TOC	19.3	+/-250	J		250		09/11/2017	19:50	LB89986
CCB4	TOC	13.8	+/-250	J		250		09/12/2017	12:11	LB89986
CCB5	TOC	18.7	+/-250	J		250		09/12/2017	14:59	LB89986
CCB6	TOC	21.4	+/-250	J		250		09/12/2017	15:40	LB89986



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89986

SDG No.: LB89986

Contract: Lab Code: CHEM

Case No.: LB89986

SAS No.: LB89986

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



GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB89986

SDG No.: LB89986

Instrument: Appolo-9000

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
LB89986BLS		SOLID		Batch Number:				Prep Date:		
	TOC	27.2	<250	J		250		09/11/2017	11:42	LB89986
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
LB89986BLS2		SOLID		Batch Number:				Prep Date:		
	TOC	19.6	<250	J		250		09/12/2017	12:18	LB89986



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB89986 level: low sdg no.: LB89986
contract: lab code: CHEM case no.: LB89986 sas no.: LB89986
matrix: Solid sample id: I5138-01 client id: EME-UTS-TS001-01MS
Percent Solids for Sample: 79 Spiked ID: I5138-02 Percent Solids for Spike Sample: 79

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TOC	mg/Kg	75 - 125	8090	OR	7180	OR	1000	91		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB89986 level: low sdg no.: LB89986
contract: lab code: CHEM case no.: LB89986 sas no.: LB89986
matrix: Solid sample id: I5138-01 client id: EME-UTS-TS001-01MSD
Percent Solids for Sample: 79 Spiked ID: I5138-03 Percent Solids for Spike Sample: 79

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TOC	mg/Kg	75 - 125	8280	OR	7180	OR	1000	110		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB89986 **Level:** LOW **SDG No.:** LB89986
Contract: **Lab Code:** CHEM **Case No.:** LB89986 **SAS No.:** LB89986
Matrix: Solid **Sample ID:** I5138-01 **Client ID:** EME-UTS-TS001-01DUP
Percent Solids for Sample: 79 **Duplicate ID** I5138-01DUP **Percent Solids for Spike Sample:** 79

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TOC	mg/Kg	20	7180	OR	7710	OR	7		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB89986 **Level:** LOW **SDG No.:** LB89986
Contract: **Lab Code:** CHEM **Case No.:** LB89986 **SAS No.:** LB89986
Matrix: Solid **Sample ID:** I5138-02 **Client ID:** EME-UTS-TS001-01MSD
Percent Solids for Sample: 79 **Duplicate ID** I5138-03 **Percent Solids for Spike Sample:** 79

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TOC	mg/Kg	20	8090	OR	8280	OR	2		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB89986 **Level:** LOW **SDG No.:** LB89986
Contract: **Lab Code:** CHEM **Case No.:** LB89986 **SAS No.:** LB89986
Matrix: Solid **Sample ID:** I5138-22 **Client ID:** EME-WM-TS008-01DUP
Percent Solids for Sample: 69.2 **Duplicate ID** I5138-22DUP **Percent Solids for Spike Sample:** 69.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TOC	mg/Kg	20	10500	OR	9990	OR	5		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89986

SDG No.: LB89986

Contract:

Lab Code: CHEM

Case No.: LB89986

SAS No.: LB89986

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB89986BSS TOC	mg/Kg	1000	901		90.1	90 - 110	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89986

SDG No.: LB89986

Contract:

Lab Code: CHEM

Case No.: LB89986

SAS No.: LB89986

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB89986BSS2 TOC	mg/Kg	1000	1000		100	90 - 110	