Veolia ES Technical Solutions L.L.C.

WASTESTREAM INFORMATION PROFILE

Disposal Code

|__| Recertification

|552 | 664|

Veolia ES Location SAUGET IL OFFICE (OFFICE) SAUGET (CITY) IL (ST)

|__| Invoice Address

Veolia ES TSDF requested ____ Technology requested _____ Generator No. 592489 Generator EPA ID No. ILR000172429

1. Generator Name SAM'S WEST, INC. Generator State No. _____

Address #5 ILLINI DRIVE State Wastestream No. _____

City GLEN CARBON State IL Country US ZIP 62034

NAICS(SIC) Code 1522 Source G32 Origin 2 Form W301 System Type _____

2. Waste Name SPILL CLEAN-UP OF DIESEL FUEL Lab or Waste Area _____

3. Process Generating Waste

SPILL OF DIESEL FUEL

4. Shipping Name NON-REGULATED MATERIAL, NON-RCRA, NON-DOT.

Hazard Class NONE UN/NA No. NONE PG ___ RQ amt 0 lb Waste: N PIH: N IH: N DWW: N P: N

RQ Des: 1. _____ 2. _____

DOT Des: 1. _____ 2. _____

5. Waste Codes NONE

Wastewater ____ Non Wastewater X Sub Category _____ Mix: N Sol: N

6. Physical and chemical properties:

pH
a ___ < 2
b ___ 2 - 5
c X 5 - 9
d ___ 9 - 12.5
e ___ > 12.5
___ - ___ exact

Specific Gravity
a ___ < .8
b ___ .8 - 1.0
c ___ 1.0
d ___ 1.0 - 1.2
e X > 1.2
___ - ___ exact

Flash Point(F)
a ___ < 80
b ___ 80 - 100
c ___ 100 - 140
d ___ 140 - 200
e X > 200
f ___ no flash ___ - ___ exact

Solids
0 - 0% suspended
100 - 100% settleable
0 - 0% dissolved
0 - 0 % ash
0 - 0 % water solubility
0 - 0 BTU/lb

Free Liquid 0 - 0 %
VOC 0 - 0 %

Physical State
s X solid
m ___ semi-solid
l ___ liquid
p ___ pumpable semi-solid
f ___ flowable powder
g ___ gas
a ___ aerosol
r ___ pressurized liquid
d ___ debris per 40 CFR 268.45
h ___ sharps
q ___ pumpable liquid

Hazardous Characteristics
a ___ air reactive
w ___ water reactive
c ___ cyanide reactive
f ___ sulfide reactive
e ___ explosive
o ___ oxidizing acid
p ___ peroxide former
r ___ radioactive or NRC regulated
s ___ shock sensitive
t ___ temp sensitive
m ___ polymerization/monomer
n ___ OSHA carcinogen
i ___ infectious
h ___ inhalation hazard
Zone: _

Odor
a none ___
b mild X
c strong ___
describe DIESEL FUEL

Halogens
Br .0 - .0 % Bromine
Cl .0 - .0 % Chlorine
F .0 - .0 % Fluorine
I .0 - .0 % Iodine

Layers: a ___ multilayered: b ___ bi-layered: c X single phase

	Top Layer	Second Layer	Bottom Layer	Color
Viscosity by layer:	___ high(syrup)	___ high(syrup)	___ high(syrup)	BLK
	___ medium(oil)	___ medium(oil)	___ medium(oil)	VAR
	___ low(water)	___ low(water)	___ low(water)	
	X solid	___ solid	___ solid	

WIP NO. 449136

Veolia ES Technical Solutions L.L.C.

WASTESTREAM INFORMATION PROFILE

Used oil y/n ___ HOC < 1000 ppm ___ HOC > 1000 ppm ___

7. Chemical Composition [M=Marine Pollutant, S=Severe Marine Pollutant, O=Ozone Depleting Substance, U=Underlying Hazardous Constituent, B=Benzene NESHAP, T=TRI Chemical, C=OSHA Carcinogen]

Constituents	Ranges		Units
DIESEL FUEL OIL NO. 2-D	5.00	10.00	%
SOIL,ROCK	90.00	95.00	%

Other:

8. Is the wastestream being imported into the USA? Yes __ No X
9. Does the wastestream contain PCBs regulated by 40CFR? Yes __ No X
   PCB Concentration .00 ppm
10. Is the wastestream subject to the Marine Pollutant Regulations? Yes __ No X
11. Is the wastestream from an industry regulated under Benzene NESHAP? Yes __ No X
   If yes:
   Is the wastestream subject to Notification/Control Requirements? Yes __ No X
   Benzene Concentration .00 ppm
   Does it contain >= 10% water? Yes __ No X
   What is the TAB at your facility? .00 Mg/Yr
12. Is the wastestream subject to RCRA subpart CC controls? Yes __ No X
   Volatile Organic Concentration .00 ppmw
   CC Approved Analytical Method? Yes __ No X
   Generator Knowledge? Yes __ No X
13. Is the wastestream from a CERCLA or state mandated cleanup? Yes __ No X

14. Container Information :

Packaging: 20YDRO Type/Size: CM 20 YD ROLLOFF
_____ Type/Size: __

Shipping Frequency: Units 1.00 Per Day _ Per Week _ Per Month _ Per Qtr _ Per Year _ One Time X
UOM OTHER DESCRIPTION: Rolloff

15. Additional Information :

GENERATOR CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize sampling of any waste shipment for purposes of recertification.

Jonathan T. Carroll — Name (Print or Type)
618-526-7213 — Phone
5/14/13 — Date
Signature
Sr. Project Manager — Title

If approved for management, Veolia ES has all the necessary permits and licenses for the waste that has been characterized and identified by this profile.

WIP NO. 449136

TRACKING #: 001 APPROVAL CODE: TWI449136
DATE RECEIVED: 05/10/2013
APPROVAL DATE: 05/10/2013
GENERATOR: SAM'S WEST, INC.
DESCRIPTION: SPILL CLEAN-UP OF DIESEL FUEL

I. **GENERATOR AND FACILITY INFORMATION**

VEOLIA ES TECHNICAL SOLUTIONS
SAUGET, IL

*** This Decision is Approved

II. **DECISION TO DENY APPROVAL FOR MANAGEMENT OF WASTE**

REASON FOR DENYING APPROVAL

III. **DECISION TO APPROVE**

A) APPROVED MANAGEMENT METHODS
- INCINERATION

B) SITE AND CONTRACTING CONDITIONS
- BULK SOLIDS: MATERIAL MUST PASS PAINT FILTER TEST AND
- NOT BE TACKY.
- RQ'S AND WASTE PROFILE NUMBERS MUST APPEAR ON THE
- MANIFEST.
- DOT APPROVED CONTAINERS
- ALL SHIPMENTS MUST BE MADE USING A MANIFEST.

C) ANALYTICAL REQUIREMENTS FOR EACH LOAD
- MANDATORY ANALYSIS PER WAP

D) DECISION EXPIRATION DATE
- 05/10/2015

IV. **FINAL DECISION**

FINAL APPROVAL _____ Name: KELLY MEREDITH Date: 05/13/2013

Sales Sample Analysis Report

Wednesday, May 08, 2013

Tracking Number **1012989**
Profile Number **449136**

Accept
JF
5-10-13

SAMS WEST, INC
5 ILLINI DRIVE
GLEN CARBON IL

Required Test	Test Result	Date	Lab Tech
% Choride	<0.5	5/8/13	SL
BTU/LB	<500	5/8/13	JF
Color	GRAY	5/8/13	m
Flam. Pot. Screen	NEG.	↓	↓
PCB (mg/kg)	<50	5/10/13	SL
PH Screen	6 @ 10%	5/8/13	m
Physical State	SOLID	↓	↓
Radiation(mR/hr)	m 5/8/13 ~~GRAY~~ = BKG	↓	↓

TWI Laboratory Analysis Report

Receiver #: 426286
# of Drums: 1
Date: 5/17/2013
Profile #: 449136
Generator: SAMS WEST,INC.
Descript: SPILL CLEAN-UP OF DIESEL FUEL
Process Code(s): BSL

Run metals as speicified below
Sample Required

ACCEPT / REJECT

Initials CN
Date 5/22/13

Drum Storage Compatability
Profiled DOT Hazard Class 9
P = Pass F = Fail
8A_____ 8B_____ 4/5_____

				Profile	Conform	Date	Initials
Sample Number	357258 000809412VES						
Drum Rep / Comp	0/0						
Free Liquid (%)	0						
Pumpable	Yes (No)				Yes No	5/20/13	IW
Layers/Phases -% Ea.	1 100 %	2 ____ %	3 ____ %				
Color	BROWN						
Turbidity	(N/A) TnsP TnsL Opq	N/A TP TL O	N/A TP TL O				
Viscosity	(N/A) L M H	N/A L M H	N/A L M H	N/A	Y		
Physical State	Liq Solid Sludge Semi-sld	Liq Sol Slg Ss	Liq Sol Slg Ss				
Water Miscibility	Misc Part Floats Sinks Emis	M P F S E	M P F S E				
Add. Description	SOIL + ROCKS						
Water Reactivity	(Y) No RXN ( ) RXN:						
Radiation Screen	(Y) =BKG ( ) >BKG:			=BKG	Y		
Flam. Pot. Screen	(Y) Neg ( ) Pos ( ) BOC			See Flashpoint	Y		
pH Screen	( ) 100% (Y) 10% 7			2-12.5	Y		
Oxidizer Screen	(Y) Neg ( ) Pos						
Paint Filter Test	( ) Pass ( ) Fail ( ) V-Fail (Y) N/A						
Cyanide Screen	(Y) Neg ( ) Pos (Y) N/A IW 5/20/13						
Sulfide Screen	(Y) Neg ( ) Pos ( ) N/A						
Incidental Odor	(Y) No ( ) Yes:						
Specific Gravity	—			0.000 - 0.000			
BTU/Lb	880			0 - 2000			JR
% Chloride	<0.5			0 - 0			
Flash Point - Deg F				N/A			
PCBs By GC - mg/kg	Use Cons. Values			<50ppm			
pH by Meter	( ) 100% ( ) 10%						
Total Arsenic mg/kg	<5.0	7.3 (CN)		0		5/21/13	RWH
Total Beryllium mg/kg	<0.1	0.4 8-28-13		0			
Total Cadmium mg/kg	<1.0	<1.0		0			
(V) Total Chromium mg/kg	13.3	~~18.1~~ 27.9		0			
(V) Total Lead mg/kg	7.1	10.9		0			
Total Mercury mg/kg	<0.04 By DMA	0.2		0			
ASH		98		~~64.15~~			

Use Lab Data

Additional Comments: RUN MACT METALS ON EVERY LOAD
Profile Review for Appendix WAP-C Consitituents by: KMEREDITH
Date: 5/10/2013

See nonroutine for additional analysis RCN.

SAMPLE #	As (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Pb (mg/kg)	Hg (mg/kg)	Comments
061113-L	5.4	<0.1	<1.0	22.1	14.3	0.07	42-7502 ~~42-1159~~ #2
061113-m	9.5	0.6	<1.0	20.0	27.1	<0.04	42-7502 #3
061113-g	<5.0	0.4	<1.0	34.8	28.5	0.10	42-1159 #A
061113-h	<5.0	0.3	<1.0	83.2	59.4	0.20	#B
061113-i	<5.0	0.3	<1.0	111.1	83.5	0.25	#C
061113-j	7.5	0.8	<1.0	21.0	13.9	<0.04	42-7488 #2
061113-k	10.2	0.8	<1.0	24.9	13.1	0.07	#3
061113-d	<5.0	0.2	<1.0	86.1	54.7	<0.04	42-1138 #A
061113-e	<5.0	0.3	<1.0	107.8	59.5	0.04	#B
061113-f	<5.0	0.3	<1.0	137.7	57.0	0.07	#C
061113-c	6.7	0.4	<1.0	18.1	10.9	<0.04	42-6286 C
061113-a	7.1	0.3	<1.0	16.8	8.9	<0.04	A
061113-b ori	7.3	0.3	<1.0	16.2	8.7	0.20	B
061113-b dup	7.2	0.3	<1.0	27.9	7.5	<0.04	
061113-b spk	28.5	20.5	20.0	42.2	27.5	19.96	
mean	7.3	0.3	<1.0	22.1	8.10	0.10	
rpd	1.4	0.0	0.0	OUT 52.9	14.8	OUT 190.0	
% recovery	106.5	101.5	100.5	101.0	97.5	102.4	

Reviewed By: _____ Date: 6-20-13

THIS SAMPLE WAS COLLECTED ACCORDING TO APPLICABLE SW-846 PROCEDURES

This report had been prepared for the exclusive use and benefit of Veolia Environmental Services. No representation concerning sample validity or analytical accuracy of completeness is hereby made to any other person receiving this report.

Profile #: 449136

Generator: SAMS WEST,INC.

Description: SPILL CLEAN-UP OF DIESEL FUEL

Process Code: BSL

Physical Description Worksheet

Receiver #: 426286

Received Date: 5/17/2013

Drum #	Size / Type	O / P	Weight	Color / Description	% Full	% Solid	% Liquid
1	20/20			Brown Dirt, Rocks	80	100	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Technician Signature [illegible] Date 5/20/13

Location _____ Comments _____

Weight _____

MDC Laboratories, Inc.
3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977

NELAP ACCREDITED TNI LABORATORY

Veolia Environmental Services-Sauget II
#7 Mobile Ave
Sauget, IL 62201
Attn: Trey Formby

Dave K.

Date Received: 06/21/13 15:43
Report Date: 07/10/13
Customer #: 205130
PO#: P2013-01

Laboratory Results

Sample No: **3063368-01**
Client ID: **42-7502 Dirt**
Collect Date: **06/21/13 00:00**
Matrix: **Solid**

Parameters	Result	QUAL	MDL	RDL	Analysis Date	Analyst	Method
General Chemistry - STL							
Solids - ash	97 %			0.50	06/26/13 15:30	ACV	SM 2540G 18Ed

Sample No: **3063368-02**
Client ID: **42-1159 Dirt**
Collect Date: **06/21/13 00:00**
Matrix: **Solid**

Parameters	Result	QUAL	MDL	RDL	Analysis Date	Analyst	Method
General Chemistry - STL							
Solids - ash	98 %			0.50	06/26/13 15:30	ACV	SM 2540G 18Ed

Sample No: **3063368-03**
Client ID: **42-1138 Dirt**
Collect Date: **06/21/13 00:00**
Matrix: **Solid**

Parameters	Result	QUAL	MDL	RDL	Analysis Date	Analyst	Method
General Chemistry - STL							
Solids - ash	99 %			0.50	06/26/13 15:30	ACV	SM 2540G 18Ed

Sample No: **3063368-04**
Client ID: **42-6286 Dirt**
Collect Date: **06/21/13 00:00**
Matrix: **Solid**

Parameters	Result	QUAL	MDL	RDL	Analysis Date	Analyst	Method
General Chemistry - STL							
Solids - ash	98 %			0.50	06/26/13 15:30	ACV	SM 2540G 18Ed

Sample No: **3063368-05**
Client ID: **42-7488 Dirt**
Collect Date: **06/21/13 00:00**
Matrix: **Solid**

Parameters	Result	QUAL	MDL	RDL	Analysis Date	Analyst	Method
General Chemistry - STL							

3063368

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NELAP ACCREDITED TNI LABORATORY

Veolia Environmental Services-Sauget II
#7 Mobile Ave
Sauget, IL 62201
Attn: Trey Formby

Date Received: 06/21/13 15:43
Report Date: 07/10/13
Customer #: 205130
PO#: P2013-01

Laboratory Results

Sample No: **3063368-05**
Client ID: **42-7488 Dirt**

Collect Date: **06/21/13 00:00**
Matrix: **Solid**

Parameters	Result	QUAL	MDL	RDL	Analysis Date	Analyst	Method
General Chemistry - STL							
Solids - ash	99 %			0.50	06/26/13 15:30	ACV	SM 2540G 18Ed

Sample No: **3063368-06**
Client ID: **42-5913 Dirt**

Collect Date: **06/21/13 00:00**
Matrix: **Solid**

Parameters	Result	QUAL	MDL	RDL	Analysis Date	Analyst	Method
General Chemistry - STL							
Solids - ash	94 %			0.50	06/26/13 15:30	ACV	SM 2540G 18Ed
Total Metals - STL							
Mercury	0.19 mg/kg wet		0.10	0.10	06/28/13 16:02	KAE	SW 7471A
Arsenic	< 3.0 mg/kg wet		1.3	3.0	06/28/13 16:14	KAE	SW 6010B
Beryllium	< 0.20 mg/kg wet		0.10	0.20	06/28/13 16:14	KAE	SW 6010B
Cadmium	< 0.40 mg/kg wet		0.10	0.40	06/28/13 16:14	KAE	SW 6010B
Chromium	3.7 mg/kg wet		0.10	0.40	06/28/13 16:14	KAE	SW 6010B
Lead	< 2.0 mg/kg wet		0.60	2.0	06/28/13 16:14	KAE	SW 6010B

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NELAP ACCREDITED TNI LABORATORY

Veolia Environmental Services-Sauget II
#7 Mobile Ave
Sauget, IL 62201
Attn: Trey Formby

Date Received: 06/21/13 15:43
Report Date: 07/10/13
Customer #: 205130
PO#: P2013-01

Laboratory Results

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310669 - 04 SW 3050B - SW 6010B								
Blank (B310669-BLK1)			Prepared: 06/27/13 Analyzed: 06/28/13					
Arsenic	< 3.0	mg/kg wet						
Beryllium	< 0.20	mg/kg wet						
Cadmium	< 0.40	mg/kg wet						
Chromium	< 0.40	mg/kg wet						
Lead	< 2.0	mg/kg wet						
LCS (B310669-BS1)			Prepared: 06/27/13 Analyzed: 06/28/13					
Arsenic	20.2	mg/kg wet	19.23		105	80-120		
Beryllium	20.7	mg/kg wet	19.23		107	80-120		
Cadmium	20.0	mg/kg wet	19.23		104	80-120		
Chromium	20.0	mg/kg wet	19.23		104	80-120		
Lead	19.8	mg/kg wet	19.23		103	80-120		
LCS (B310669-BS2)			Prepared: 06/27/13 Analyzed: 06/28/13					
Arsenic	3.00	mg/kg wet				80-120		
Beryllium	< 0.20	mg/kg wet				80-120		
Cadmium	< 0.40	mg/kg wet				80-120		
Chromium	< 0.40	mg/kg wet				80-120		
Lead	0.766	mg/kg wet				80-120		
Matrix Spike (B310669-MS1)	**Source: 3063368-06**		Prepared: 06/27/13 Analyzed: 06/28/13					
Arsenic	17.1	mg/kg wet	20.20	ND	85	75-125		
Beryllium	20.3	mg/kg wet	20.20	0.165	100	75-125		
Cadmium	19.5	mg/kg wet	20.20	ND	97	75-125		
Chromium	24.1	mg/kg wet	20.20	3.72	101	75-125		
Lead	20.6	mg/kg wet	20.20	1.60	94	75-125		
Matrix Spike (B310669-MS2)	**Source: 3063393-01**		Prepared: 06/27/13 Analyzed: 06/28/13					
Arsenic	247	mg/kg dry	211.6	16.6	109	75-125		
Beryllium	228	mg/kg dry	211.6	ND	108	75-125		
Cadmium	218	mg/kg dry	211.6	3.39	101	75-125		
Chromium	252	mg/kg dry	211.6	34.1	103	75-125		
Lead	234	mg/kg dry	211.6	33.8	95	75-125		
Matrix Spike Dup (B310669-MSD1)	**Source: 3063368-06**		Prepared: 06/27/13 Analyzed: 06/28/13					
Arsenic	15.9	mg/kg wet	20.41	ND	78	75-125	7	20
Beryllium	20.6	mg/kg wet	20.41	0.165	100	75-125	1	20
Cadmium	19.7	mg/kg wet	20.41	ND	96	75-125	0.8	20
Chromium	24.5	mg/kg wet	20.41	3.72	102	75-125	1	20
Lead	19.9	mg/kg wet	20.41	1.60	90	75-125	4	20
Matrix Spike Dup (B310669-MSD2)	**Source: 3063393-01**		Prepared: 06/27/13 Analyzed: 06/28/13					
Arsenic	222	mg/kg dry	212.7	16.6	97	75-125	10	20

3063368

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Veolia Environmental Services-Sauget II
#7 Mobile Ave
Sauget, IL 62201
Attn: Trey Formby

Date Received: 06/21/13 15:43
Report Date: 07/10/13
Customer #: 205130
PO#: P2013-01

Laboratory Results

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310669 - 04 SW 3050B - SW 6010B								
Matrix Spike Dup (B310669-MSD2)	**Source: 3063393-01**		Prepared: 06/27/13 Analyzed: 06/28/13					
Beryllium	228	mg/kg dry	212.7	ND	107	75-125	0.07	20
Cadmium	221	mg/kg dry	212.7	3.39	102	75-125	1	20
Chromium	253	mg/kg dry	212.7	34.1	103	75-125	0.4	20
Lead	233	mg/kg dry	212.7	33.8	93	75-125	0.5	20
Batch B310719 - 04-SW 7471A - SW 7471A								
Blank (B310719-BLK1)			Prepared & Analyzed: 06/28/13					
Mercury	< 0.12	mg/kg wet						
LCS (B310719-BS1)			Prepared & Analyzed: 06/28/13					
Mercury	1.05	mg/kg wet	0.9524		110	80-120		
Matrix Spike (B310719-MS1)	**Source: 3063368-06**		Prepared & Analyzed: 06/28/13					
Mercury	1.13	mg/kg wet	0.8696	0.190	108	75-125		
Matrix Spike (B310719-MS2)	**Source: 3063393-01**		Prepared & Analyzed: 06/28/13					
Mercury	5.68	mg/kg dry	3.915	1.81	99	75-125		
Matrix Spike Dup (B310719-MSD1)	**Source: 3063368-06**		Prepared & Analyzed: 06/28/13					
Mercury	1.18	mg/kg wet	0.9091	0.190	109	75-125	4	20
Matrix Spike Dup (B310719-MSD2)	**Source: 3063393-01**		Prepared & Analyzed: 06/28/13					
Mercury	6.28	mg/kg dry	4.189	1.81	107	75-125	10	20

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Veolia Environmental Services-Sauget II
#7 Mobile Ave
Sauget, IL 62201
Attn: Trey Formby

Date Received: 06/21/13 15:43
Report Date: 07/10/13
Customer #: 205130
PO#: P2013-01

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Indiana (C-IL-040); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications; Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
STL PDC Laboratories - St. Louis, MO
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS EPA Lab No. E-10389

Roxann Shull

Certified by: Roxann Shull, Client Services Supervisor

3063368

CHAIN OF CUSTODY RECORD

Company: VEOLIA ENVIRONMENTAL SERVICES Telephone: (618) 271-2804

Address: 7 MOBILE AVE (STREET) SAUGET (CITY) ILLINOIS (STATE) 62201 (ZIP)

Collector: Sample Date / Time:

SAMPLE #	# CONTAINERS x SIZE	SAMPLE DESCRIPTION / SOURCE	ANALYSIS REQUIRED
42-7502	1 x 1QT	Dirt \ TWI	% ASH
42-1159	↓	↓	↓
42-1138			
42-6286			
42-7488			
42-5913	1 x 1PT	↓	↓ & Total As, Be, Cd, Cr, Pb & Hg

Samples Submitted To: Bill P2013-01

CSR is ~~Free~~ For MACT Testing ~~Bill my PO for Results~~

Questions call Trey Formby

Please email David.Klarich@VeoliaES.Com A copy of The Final Report

618-271-2804

CHAIN OF POSSESSION

Relinquished By: (1) (Signature)	Date (2):	Received By: (Signature)	Date: (2)
[illegible]		[illegible]	6/21/13
[illegible]	6/21/13	Heather Carlart	6/21/13

NOTE:
(1) First "Relinquished By" signature shall be that of the sampler.
(2) Apparent gaps or breaks in the inclusive dates in the "Chain of Possession" section are covered by site receiving shipping logs.

Sample # : 356742 Lines: 4-6

Theor Spike= 0.1 mL x 100 ug/ml Hg ÷ 0.504 g = 19.8 ug/g. Spk reagent # 2184-45-7

Mean: <0.04

RPD: 0

% Recovery: 91.4

Sample # : _____ Lines: _____

Theor Spike= _____ mL x _____ ug/ml Hg ÷ _____ g = _____ ug/g. Spk reagent # _____

Mean: _____

RPD: _____

% Recovery: _____

Sample # : _____ Lines: _____

Theor Spike= _____ mL x _____ ug/ml Hg ÷ _____ g = _____ ug/g. Spk reagent # _____

Mean: _____

RPD: _____

% Recovery: _____

VEOLIA ENVIRONMENTAL SERVICES
Trade Waste Incineration

Mercury
By Mercury Analyzer

BOOK NO. 2338

Liquid LCS Limits: 0.178 - 0.270 mg/kg Mean: 0.224

Solid LCS Limits: 17.8 - 27.0 mg/kg Mean: 22.4

Digested LCS Limits: 17.8 - 27.0 mg/kg Mean: 22.4

"L" Liquid Sample "S" Solid Sample "D" Digested Sample

(Run) MF 6/14/13 Date	Sample ID	L/S/D Counts	Inst #	Dil(ml)/Wt(g)	Instrument Test Wt.(g)	Instrument Reading(ng)	Sample Result mg/kg	Notes	Analyst
1 ~~6/13/13~~ 6/14/13	10ng	—	4	—	0.10	9.56	-4.4%	2282-39-6	MF
2 6/14/13	357095	D	3	50/0.508	0.10	6.05	6.0 (5.95)	42-4540	
3	357093		3	50/0.512	0.25	0.059	<0.04	42-4756	
4	356742 orig			50/0.506	0.25	0.0036	<0.04	42-4289	
5	356742 dup			50/0.506	0.25	0.001	<0.04 MF 6/14/13 ~~<0.00~~		
6	356742 Spk			50/0.504	0.025	4.56	18.1		
7	MB 6/14/13 B2	D	4	50/0.500	0.25	0.044	<0.04	—	
8	LCS 6/14/13 B2	D	1	50/0.501	0.025	6.54	26.1	MF 6/14/13 2282-~~39~~ 38-12	
9	061132	D	4	50/0.499 MF 6/14/13	0.25	0.18	0.07	42-7502	
10	061132 M		4	50/0.500	0.25	0.07	<0.04	42-7502	
11	061132 G		4	50/0.499	0.25	0.29	0.1	42-1159	
12	061132 H		4	50/0.512	0.25	0.48	0.2	42-1159	
13	356388	D	4	50/0.509	0.25	0.014	<0.04	42-4578	
14	0.1ng	—	3	—	0.01	0.115	+15%	2282-39-10	
15	10ng	—	3	—	0.10	9.18	-8.2%	2282-39-6	
16	~~061113 E MF 6/14/13~~			LWD 6/14/13					
17	0.1ng	/	4	—	0.01	0.104	+4%	2282-39-10	
18	10ng	/	4	—	0.10	9.07	-9.3%	2282-39-6	
19	6/17/13	CLEAN INST & Boats		All	H/S	< 0.003		—	NF/AM
20	0.1 ng	—	4	—	0.01	0.10	0%	2282-39-10	
21	0.5ng	—		—	0.05	0.50	0%	2282-39-10	
22	5ng	—		—	0.05	4.93	-1.4%	2282-39-6	
23	10ng	—		—	0.10	9.56	-4.4%		
24	10ng ICV	—		—	0.01	10.02	+0.2%		
25	061113-B	Dori		50/0.504	0.250	0.1299	0.2	42-6286 Sample B	

Reviewed By: LC Date: 6/18/13

Sample # : 061113-B Lines: _____

Theor Spike= 0.1 mL x 100 ug/ml Hg ÷ 0.516 g = 19.4 ug/g. Spk reagent # 2184-45-7

(1) Mean: ←

RPD: — Not calculated out highs

% Recovery: 102.3

Sample # : _____ Lines: _____

Theor Spike= _____ mL x _____ ug/ml Hg ÷ _____ g = _____ ug/g. Spk reagent # _____

Mean: _____

RPD: _____

% Recovery: _____

Sample # : _____ Lines: _____

Theor Spike= _____ mL x _____ ug/ml Hg ÷ _____ g = _____ ug/g. Spk reagent # _____

Mean: _____

RPD: _____

% Recovery: _____

061113B >100 RPD

(1) KS 8/30/13. I originally missed the above out of control data when I signed the log. Analyst should have gotten corrective action for poor note writing. Lab manager ~~FFL~~ KS 8/30/13 FHF on 8/30/13, this was a special project for DK, inconsistencies were expected due to the sample matrices so reprep/reanalysis was not performed. The original (0.2) should have been run again to ensure that the instrument reading was not due to contamination. If the same result was obtained (0.2), a note could have been written explaining why reanalysis not performed, & that the 0.2 result is at our detection KS 8/30/13

VEOLIA ENVIRONMENTAL SERVICES
Trade Waste Incineration

Mercury
By Mercury Analyzer

Liquid LCS Limits: 0.178 - 0.270 mg/kg Mean: 0.224

Solid LCS Limits: 17.8 - 27.0 mg/kg Mean: 22.4

Digested LCS Limits: 17.8 - 27.0 mg/kg Mean: 22.4

"L" Liquid Sample "S" Solid Sample "D" Digested Sample

(Run) Date	Sample ID	L/S/D Counts	Inst #	Dil(ml)/Wt(g)	Instrument Test Wt.(g)	Instrument Reading(ng)	Sample Result mg/kg	Notes	Analyst
1 6/17/13	061113-B	D Dup	4	50/0.502	0.250	0.0346	<0.04	Dup 42-6286 ↓ Sample B	FHF
2	061113-B	D Spk	↓	50/0.516	0.025	5.15	19.96	spk	⊥
3	061113 A	D		50/0.503	0.250	0.0379	<0.04	42-6286 Sample C	FHF
4	0.1 ng	—		—	0.01	0.10	0	2282-39-10	↓
5	10 ng	—	↓	—	0.10	9.29	-7.1%	2282-39-6	⊥
6	Clean INST #3 & Boats All Hts					<0.003	—	—	WF/FHF
7	0.1 ng	—	3	—	0.01	0.095	-5%	22-82-39-10	↓
8	0.5 ng	—	↑	—	0.05	0.44/0.51	-12%/+2%	⊥	
9	5 ng	—		—	0.05	4.48/4.72	-10.4%/-5.6%	2282-39-6	
10	10 ng	—		—	0.10	9.25	-7.5%	⊥	
11	10 ng ICV	—		—	0.01	9.44	-5.6%		
12	061113-K	D		50/0.508	0.250	0.1756	0.07	42-7488 Sample 3	
13	061113-D	D		50/0.500	0.250	0.0495	<0.04	42-1138 Sample A	
14	061113-E	D		50/0.514	0.250	0.1156	0.04	↓ ↓ B	
15	061113-F	D		50/0.514	0.250	0.1906	0.07	↓ ↓ C	
16	061113-C	D		50/0.503	0.250	0.0283	<0.04	42-6286 Sample C	
17	061113-I	D		50/0.509	0.250	0.6343	0.25	42-1159 Sample C	
18	061113-J	D		50/0.513	0.250	0.0839	<0.04	42-7488 Sample 2	
19	0.1 ng std	—		—	0.01	0.15	+50%	Out Hg 2282-39-10	
20	10 ng std	—		—	0.10	9.31	-6.9%	2282-39-6	↓
21 ⊥	0.1 ng	—	↓	—	0.01	0.099	-1%	2282-39-10	⊥
22 6/18/13	Run Ins blank	⊥		Boats	all	<0.003	ht	—	KS
23	0.1 ng Std	D	4	—	0.01	0.111	+11	0.01 ug/ml 2282-39-10	KJ
24	0.5 ng Std	↓	!	—	0.05	0.504	+0.8	⊥ ⊥	
25 ⊥	5 ng Std			—	0.05	5.14	+2.8	0.1 ng Hg 2282-39-6	⊥

Reviewed By: Date: 6/18/13

Sample # :_____ Theor Spike(mg/kg):_____ Lines:_____

	As	Be	Cd	Cr	Pb	Hg Screen
Mean						
RPD						
% Recovery						

Sample # :_____ Theor Spike(mg/kg):_____ Lines:_____

	As	Be	Cd	Cr	Pb	Hg Screen
Mean						
RPD						
% Recovery						

Sample # :_____ Theor Spike(mg/kg):_____ Lines:_____

	As	Be	Cd	Cr	Pb	Hg Screen
Mean						
RPD						
% Recovery						

Veolia Environmental Services

ICP #3
Run Log

Book No. 2345

High Standard Limits: +/-10%: 5.0ug/ml As, Cd, Cr, Pb (4.5-5.5) 2.0ug/ml Be, Hg (1.8-2.2)

ICV and CCV Limits: +/-10% 2.5ug/ml As, Cd, Cr, Pb (2.25-2.75) 1.0ug/ml Be, Hg (0.90-1.10)

Low Std (LLCCV) Limits: +/-30% As(0.035-0.065) Be(0.0007-0.0013) Cd(0.007-0.013) Cr(0.0175-0.0325) Pb(0.0175-0.0325) Hg(0.014-0.026)

LCS Limits : As:168 (140-197) Be: 110 (92.6-128) Cd: 103 (86.1-119) Cr: 119 (97.1-140) Pb: 76.9 (62.5-91.3) Hg: 22.4 (17.8-27.0)

For LCS, used Standard Refernce Material "QC" Limits except for Mercury. For Mercury set tighter limits using data 8/28/12-9/7/12 (12 points, 3 StdDev)

Reporting limits(mg/kg)@ 100 dil (mL/g) As 5.0 Be 0.1 Cd 1.0 Cr 2.5 Pb 2.5 Hg 2.0

	Run Date	Sample ID	Sample Wt (g)	Dilution (mL)	As	Be	Cd	Cr	Pb	Hg screen prior to DMA Analysis	Receiver / Profile	Analyst
1	6/13/13 (12)	LLCCV	—		0.046	0.0009	0.010	0.026	0.027	0.020	2282-40-13	RW
2		0.05ug/mL std	—		0.053	0.050	0.051	0.051	0.051	0.050	2282-41-12	
3		0.1ug/mL std	—		0.098	0.098	0.101	0.101	0.097 ~~0.100~~	0.101	2282-41-13	
4		CCV	—		2.45	1.00	2.45	2.48	2.48	1.01	2282-41-8	
5		ICV	—		2.42	0.97	2.51	2.47	2.45	0.99	2282-41-23	
6		CCB	—		-0.0019	-0.0000	0.0003	0.0000	0.0076	-0.0012	—	
7		356874 ✓	0.508	50	<5.0 (3.0)	0.2	<1.0	13.8	3.5	0.1 See DMA	42-4000	
8		356287 ✓	0.507		<5.0	<0.1	<1.0	19.8	<2.5 (1.5)	0.3	42-4102	
9		356301 ✓	0.503		<5.0	<0.1	<1.0	<2.5 (1.9)	<2.5 (2.0)	0.2	42-4300	
10		356291 ✓	0.505		<5.0	<0.1	<1.0	158.8	3.0	1.3	42-4043	
11		356608 ✓	0.500		<5.0	<0.1	<1.0	<2.5	<2.5	ND	42-4042	
12		356802 ✓	0.506		<5.0	<0.1	<1.0	11.7	<2.5 (1.5)	0.4	42-4200	
13	6/11/13 MB 6/11/13 ~~6-7-13~~ Batch 2		0.500		-0.6922	-0.0076	0.0456	-0.0906	0.1063	-0.0419	Batch 2 Dig 6-11-13	
14	6/11/13 LCS 6/11/13 ~~6-7-13~~ Batch 2		0.501		173.7	113.2 ~~101.9~~	101.9	124.5	753	24.1	2184-38-12	
15		061113-L #2	0.499		5.4	0.6	<1.0	22.1	14.3	0.3 See DMA	42-7502 #2	
16		061113-L #3	0.500		9.5	0.6	<1.0	20.0	27.1	0.6	42-7502 #3	
17		061113-G #A	0.499		<5.0 (4.1)	0.4	(0.8) <1.0	34.8	28.5	0.4	42-1159 #A	
18		061113-H #B	0.512		<5.0 (3.6)	0.3	<1.0 (0.6)	83.2 ~~59.4~~	59.4	1.2	42-1159 #B	
19		CCB	—		-0.0031	-0.0000	0.0001	0.0004	-0.0030	-0.0021	—	
20		LLCCV	—		0.043	0.0009	0.010	0.025	0.022	0.020	2282-40-13	
21		CCV	—		2.44	1.00	2.42	2.45	2.45	1.00	2282-41-8	
22		061113-I #C	0.509	50	<5.0 (4.2)	0.3	<1.0 (0.9)	111.1	83.5	0.8 See DMA	42-1159 #C	
23		061113-J #2	0.513		7.5	0.8	<1.0 (0.4)	21.0	13.9	0.08	42-7488 #2	
24		061113-K #3	0.508		10.2	0.8	<1.0 (0.2)	54.9	13.1	0.2	42-7488 #3	
25		061113-D #A	0.500		<5.0 (4.1)	0.2	<1.0 (0.9)	86.1	54.7	0.04	42-1138 #A	

Reviewed By: K Date: 6/20/13

Sample # : 061113-B Theor Spike(mg/kg): 19.9 Lines: 5-7

	As	Be	Cd	Cr	Pb	Hg Screen
Mean	7.3	0.3	<1.0 (0.6)	22.1	8.1	<2.0
RPD	1.4	0	0	52.9	14.8	0
% Recovery	106.5	101.5	100.5	101.0	97.5	101.0

Sample # : _____ Theor Spike(mg/kg): _____ Lines: _____

	As	Be	Cd	Cr	Pb	Hg Screen
Mean						
RPD						
% Recovery						

Sample # : _____ Theor Spike(mg/kg): _____ Lines: _____

	As	Be	Cd	Cr	Pb	Hg Screen
Mean						
RPD						
% Recovery						

This page signed off on by KSmith 6/21/10

8/30/13 KS lines 5-7 Out of control RPD missed on 6/21/10
per FHF (Lab manager) on 8/30/13 this sample was
non-homogenous solids, dirt-like clums
and rocks. the reported results to DK
notifying him that data was out for Cr + Hg
RPD (>40%)

note that the Spike result 42.2 Cr - theor spk 19.9 = 22.2 Cr
and that the mean of the orig, duplicate with
the 52.9% RPD = 22.1 Cr
KS 8/30/13

ICP #3
Run Log

Book No. 2345

High Standard Limits: +/-10%: 5.0ug/ml As, Cd, Cr, Pb (4.5-5.5) 2.0ug/ml Be, Hg (1.8-2.2)

ICV and CCV Limits: +/-10% 2.5ug/ml As, Cd, Cr, Pb (2.25-2.75) 1.0ug/ml Be, Hg (0.90-1.10)

Low Std (LLCCV) Limits: +/-30% As(0.035-0.065) Be(0.0007-0.0013) Cd(0.007-0.013) Cr(0.0175-0.0325) Pb(0.0175-0.0325) Hg(0.014-0.026)

LCS Limits : As:168 (140-197) Be: 110 (92.6-128) Cd: 103 (86.1-119) Cr: 119 (97.1-140) Pb: 76.9 (62.5-91.3) Hg: 22.4 (17.8-27.0)

For LCS, used Standard Refernce Material "QC" Limits except for Mercury. For Mercury set tighter limits using data 8/28/12-9/7/12 (12 points, 3 StdDev)

Reporting limits(mg/kg)@ 100 dil (mL/g) As 5.0 Be 0.1 Cd 1.0 Cr 2.5 Pb 2.5 Hg 2.0

	Run Date	Sample ID	Sample Wt (g)	Dilution (mL)	As	Be	Cd	Cr	Pb	Hg screen prior to DMA Analysis	Receiver / Profile	Analyst
1	6/12/13	061113-E	0.514	50	<5.0 (3.5)	0.3	<1.0 (0.6)	107.8	59.5	NO See DMA	42-1138 #B	RWH
2		061113-F	0.514		<5.0 (4.4)	0.3	<1.0 (0.7)	137.7	57.0	0.08	42-1138 #C	
3		061113-C	0.503		6.7	0.4	<1.0 (0.6)	18.1	10.9	0.2	42-6286 #C	
4		061113-A	0.503		7.1	0.3	<1.0 (0.7)	16.8	8.9	0.08	42-6286 #A	
5		Orig 061113-B	0.511		7.3	0.3	<1.0 (0.6)	16.2	8.7	NO	42-6286 #B	
6		Dup 061113-B	0.502		7.2	0.3	<1.0 (0.6)	27.9	7.5	<2.0 (0.3)		
7		Spk 061113-B	0.516		28.5	20.5	20.0	42.2	27.5	20.1		
8		CCB	—		-0.0017	-0.0001	0.0000	-0.0006	0.0026	0.0013	—	
9		LLCCV	—		0.042	0.0009	0.010	0.025	0.029	0.016	2282-40-13	
10		CCV	—		2.47	1.01	2.42	2.46	2.44	0.99	2282-41-8	
11		356464	0.504	50	<5.0	<0.1	<1.0	<2.5	<2.5	NO See DMA	42-4223	
12		356957	0.506		<5.0 (2.4)	<0.1	<1.0	<2.5	<2.5	NO	42-4427	
13		356346	0.501		<5.0	<0.1	<1.0	5.5	<2.5 (1.9)	0.4	42-4475	
14		356460	0.500		<5.0	<0.1	1.9	See Dilution	<2.5 (1.9)	NO	42-4234	
15		357291	0.507		<5.0	<0.1	<1.0	<2.5	<2.5	NO	42-4407	
16		356260	0.504		<5.0	<0.1	<1.0	See Dilution	<2.5	0.2	42-4287	
17		~~CCDIL~~ 356460	0.500	1000	—	—	—	3,866.0	—	—	42-4234	
18		~~CCDIL~~ 356260	0.504	8000	—	—	—	42,756	—	—	42-4287	
19		CCB	—		-0.0096	-0.0001	0.0004	-0.0001	0.0079	-0.0033	—	
20		LLCCV	—		0.047	0.0009	0.010	0.025	0.024	0.017	2282-40-13	
21		CCV	—		2.44	1.00	2.40	2.45	2.44	0.98	2282-41-8	
22	6/13/13	#6/13/13 Calibrated Instrument 3 w/ 0.0 + High Std							—	—	2282-41-4	RWH
23		LLCCV	—		0.058	0.0010	0.010	0.027	0.029	0.019	2282-40-13	
24		0.05ug/mL Std	—		0.050	0.050	0.052	0.052	0.053	0.052	2282-41-12	
25		0.1ug/mL Std	—		0.101	0.098	0.101	0.102	~~0.10~~ 0.097 6-13-13	0.102	2282-41-13	

Reviewed By: [illegible] Date: 6/21/13