SARASOTA COUNTY
"Dedicated to Quality Service"

Dept. Of Environmental Protection
AUG 31 2012
Southwest District

August 28, 2012

Steve Morgan
Solid Waste Section
Department of Environmental Protection
Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Re: Central County Solid Waste Disposal Complex, WACS No. 51614
Permit Number 130542-002-SO/01
Fire at Electronics Storage Area

Dear Mr. Morgan:

As per Specific Condition C.6.b. in the above referenced permit, I am providing written notification and a report for the fire that occurred at the electronics storage area.

Notification to the Department was made on Monday, July 16, 2012 at 0948 via email to Steve Morgan and Melissa Madden indicating that a fire had occurred at the Central County Solid Waste Disposal Complex in vicinity of the electronics storage area on Sunday morning, July 15, 2012. The Nokomis Fire Department responded to the site and extinguished the fire by utilizing approximately 2,500 gallons of water. After the fire had been extinguished 20 gallons of foam was applied as an additional suppressant for cleanup operations. Runoff from the suppression was contained to the immediate site by placing sandbags in the stormwater control structure located southwest of the electronic storage area and placing adsorbent booms adjacent to the concrete storage pad and asphalt roadway. A copy of the Nokomis Fire Department report has been included with this submittal.

Due to the composition of the materials involved in the fire (electronics), the County hired SWS Environmental Services to clean up the site. This involved placing debris in containers and cleaning the concrete and asphalt roadway. A total of three twenty-yard roll-off containers were utilized. The containers were lined with visqueen, covered with tarps and transported to the county's maintenance facility for temporary storage until disposal arrangements could be made.

In order to determine if any impacts to the soil had occurred, Ardaman & Associates, Inc. delineated the area, collected soil samples and submitted the samples to a certified laboratory for analysis of EPA Methods 6010 and 7471 for the eight RCRA metals and Method 8260 for volatile aromatics and Method 8270 for semi-volatile organics. A copy of Ardaman's report has been included with this submittal with indicates that no additional remedial action is required.

ENVIRONMENTAL SERVICES, Solid Waste Operations • 4000 Knights Trail Road, Nokomis, FL 34275
Tel 941-861-5000 • Fax 941-486-2620

On August 1, 2012, Brian Usher asked the Department for permission to use the Jackson Road Transfer Station (Venice Closed Class I Landfill, WACS No. 51610) to off-load the containers of debris into a receiving semi-trailer for transport to a permitted hazardous waste facility. Permission was granted by Steve Morgan and a copy of the email transmittals has been included with this report. The roll-off containers were emptied and transported off-site on August 20, 2012 by EQ Industrial Services. The total weight of the debris was 35,200 pounds and was shipped under Uniform Hazardous Waste Manifest No. 009099439 to EQ's facility in Tampa, Florida (attached).

The only damage that occurred to the site as a result of the fire was to a fence that serves as a visual screen for the electronics storage area. Repairs to the fence were completed on August 15, 2012.

Due to the fact that the responding fire agency could not confirm the actual cause of the fire and the State Fire Marshall's Office verbally declined to respond to the site I'm not able to provide specific information on how to prevent this type of incident from occurring in the future as I'm not certain as to how it started.

Various photos of site conditions before, during and after clean up operations have been provided with this report.

If you have any questions, please contact me at (941) 861-1589 or lerose@scgov.net.

Sincerely,

Lois E Rose

Lois Rose
Manager, Solid Waste

Attachments

Brian Usher

From: Lois Rose
Sent: Monday, July 16, 2012 9:48 AM
To: 'Morgan, Steve'; 'Madden, Melissa'
Cc: Darrell Garrett; James Szala; Brian Usher; Lawrence Alexander; Gary Bennett
Subject: WACS 51614 - Central County Solid Waste Disposal Complex - Notice of Fire
Attachments: 100_0359.jpg; 100_0335.jpg; 100_0336.jpg; 100_0357.jpg; 100_0358.jpg

Yesterday around 11:30 am I received a call from the Fire Department indicating that they had been dispatched to the landfill for a fire at the electronics storage area. The fire department had extinguished the fire prior to my arrival at the site. The fire may have been caused by a lightning strike as it appears that it had been smoldering for awhile as items surrounding the general area such as the building, pallets, plastic tarps, fence inserts, other pallets of electronics were either slightly damaged or not damage. SWS Environmental Services out of St. Pete was contracted to clean up the resulting debris. Three – 20 yd roll-off containers were used to contain the debris. All roll-off containers were lined, filled and covered then moved to a secure location by our maintenance facility. Soil from the areas where run-off from the fire suppression operation occurred were sampled for RCRA metals, as well as 8260 and 8270. Results are pending. Currently we are working on disposal of the debris utilizing our county contracts.

As soon as I get the results from the sampling and arrangements have been made for disposal of the debris, I will follow up with a formal report to the Department.

Photos of before and after cleanup are attached.

If you need any further information, please give me a call.

Lois Rose

Sarasota County
Solid Waste Manager
Office: (941)861-1589
Cell: (941) 650-0722
Email: lerose@scgov.net

NFIRS -1 Basic

A

FDID *	State *	Incident Date (MM DD YYYY) *	Station	Incident Number *	Exposure *
16011	FL	07 15 2012	41	12-0000997	000

☐ Delete ☐ Change ☐ No Activity

B Location*

☐ Check this box to indicate that the address for this incident is provided on the Wildland Fire Module in Section B "Alternative Location Specification". Use only for wildland fires.

Census Tract [ ] - [ ]

[X] Street address
☐ Intersection
☐ In front of
☐ Rear of
☐ Adjacent to
☐ Directions

Number/Milepost	Prefix	Street or Highway	Street Type	Suffix
4000		Knights Trail	RD	

Apt./Suite/Room	City	State	Zip Code
	Nokomis	FL	34275 -

Cross street or directions, as applicable

C Incident Type *

161 | Outside storage fire
Incident Type

D Aid Given or Received *

1 ☐ Mutual aid received
2 ☐ Automatic aid recv.
3 ☐ Mutual aid given
4 ☐ Automatic aid given
5 ☐ Other aid given
N [X] None

Their FDID | Their State
Their Incident Number

E1 Date & Times

Midnight is 0000

Check boxes if dates are the same as Alarm Date.

	Month	Day	Year	Hr Min Sec
Alarm * (ALARM always required)	07	15	2012	10:32:04
[X] Arrival * (ARRIVAL required, unless canceled or did not arrive)	07	15	2012	10:41:19
☐ Controlled (CONTROLLED Optional, Except for wildland fires)				
[X] Last Unit Cleared (LAST UNIT CLEARED, required except for wildland fires)	07	15	2012	12:29:18

E2 Shift & Alarms

Local Option

Shift or Platoon	Alarms	District
		291

E3 Special Studies

Local Option

Special Study ID# | Special Study Value

F Actions Taken *

10 | Fire control or
Primary Action Taken (1)

Additional Action Taken (2)

Additional Action Taken (3)

G1 Resources *

[X] Check this box and skip this section if an Apparatus or Personnel form is used.

	Apparatus	Personnel
Suppression	0003	0004
EMS		
Other		

☐ Check box if resource counts include aid received resources.

G2 Estimated Dollar Losses & Values

LOSSES: Required for all fires if known. Optional for non fires.

	$			None
Property		000	000	[X]
Contents		000	000	[X]

PRE-INCIDENT VALUE: Optional

	$			
Property		000	000	☐
Contents		000	000	☐

Completed Modules

[X] Fire-2
☐ Structure-3
☐ Civil Fire Cas.-4
☐ Fire Serv. Cas.-5
☐ EMS-6
☐ HazMat-7
☐ Wildland Fire-8
[X] Apparatus-9
[X] Personnel-10
☐ Arson-11

H1 * Casualties [X] None

	Deaths	Injuries
Fire Service		
Civilian		

H2 Detector

Required for Confined Fires.

1 ☐ Detector alerted occupants
2 ☐ Detector did not alert them
U ☐ Unknown

H3 Hazardous Materials Release

N ☐ None
1 ☐ Natural Gas: slow leak, no evacuation or HazMat actions
2 ☐ Propane gas: <21 lb. tank (as in home BBQ grill)
3 ☐ Gasoline: vehicle fuel tank or portable container
4 ☐ Kerosene: fuel burning equipment or portable storage
5 ☐ Diesel fuel/fuel oil: vehicle fuel tank or portable
6 ☐ Household solvents: home/office spill, cleanup only
7 ☐ Motor oil: from engine or portable container
8 ☐ Paint: from paint cans totaling < 55 gallons
0 ☐ Other: Special HazMat actions required or spill > 55gal., Please complete the HazMat form

I Mixed Use Property

NN ☐ Not Mixed
10 ☐ Assembly use
20 ☐ Education use
33 ☐ Medical use
40 ☐ Residential use
51 ☐ Row of stores
53 ☐ Enclosed mall
58 ☐ Bus. & Residential
59 ☐ Office use
60 ☐ Industrial use
63 ☐ Military use
65 ☐ Farm use
00 ☐ Other mixed use

J Property Use * Structures

131 ☐ Church, place of worship
161 ☐ Restaurant or cafeteria
162 ☐ Bar/Tavern or nightclub
213 ☐ Elementary school or kindergarten
215 ☐ High school or junior high
241 ☐ College, adult education
311 ☐ Care facility for the aged
331 ☐ Hospital
341 ☐ Clinic, clinic type infirmary
342 ☐ Doctor/dentist office
361 ☐ Prison or jail, not juvenile
419 ☐ 1-or 2-family dwelling
429 ☐ Multi-family dwelling
439 ☐ Rooming/boarding house
449 ☐ Commercial hotel or motel
459 ☐ Residential, board and care
464 ☐ Dormitory/barracks
519 ☐ Food and beverage sales
539 ☐ Household goods, sales, repairs
579 ☐ Motor vehicle/boat sales/repair
571 ☐ Gas or service station
599 ☐ Business office
615 ☐ Electric generating plant
629 ☐ Laboratory/science lab
700 ☐ Manufacturing plant
819 ☐ Livestock/poultry storage (barn)
882 ☐ Non-residential parking garage
891 ☐ Warehouse

Outside

124 ☐ Playground or park
655 ☐ Crops or orchard
669 ☐ Forest (timberland)
807 [X] Outdoor storage area
919 ☐ Dump or sanitary landfill
931 ☐ Open land or field
936 ☐ Vacant lot
938 ☐ Graded/care for plot of land
946 ☐ Lake, river, stream
951 ☐ Railroad right of way
960 ☐ Other street
961 ☐ Highway/divided highway
962 ☐ Residential street/driveway
981 ☐ Construction site
984 ☐ Industrial plant yard

Lookup and enter a Property Use code only if you have NOT checked a Property Use box:

Property Use 807

Outside material storage

NFIRS-1 Revision 03/11/99

A

PDID *	State *	Incident Date * (MM DD YYYY)	Station	Incident Number *	Exposure *		NFIRS -2 Fire
16011	FL	07 15 2012	41	12-0000997	000	☐ Delete ☐ Change ☐ No Activity	

B Property Details

B1 [ ] [X] Not Residential
Estimated Number of residential living units in building of origin whether or not all units became involved

B2 [ ] [X] Buildings not involved
Number of buildings involved

B3 [ ] [X] None
Acres burned (outside fires) ☐ Less than one acre

C On-Site Materials ☐ None or Products

Complete if there were any significant amounts of commercial, industrial, energy or agricultural products or materials on the Property, whether or not they became involved

Enter up to three codes. Check one or more boxes for each code entered.

712 | Electronic parts,
On-site material (1)
1 [X] Bulk storage or warehousing
2 ☐ Processing or manufacturing
3 ☐ Packaged goods for sale
4 ☐ Repair or service

On-site material (2)
1 ☐ Bulk storage or warehousing
2 ☐ Processing or manufacturing
3 ☐ Packaged goods for sale
4 ☐ Repair or service

On-site material (3)
1 ☐ Bulk storage or warehousing
2 ☐ Processing or manufacturing
3 ☐ Packaged goods for sale
4 ☐ Repair or service

D Ignition

D1 40 | Storage area, Other
Area of fire origin *

D2 UU | Undetermined
Heat source *

D3 58 | Palletized material,
Item first ignited * 1 [X] Check Box if fire spread was confined to object of origin

D4 UU | Undetermined
Type of material first ignited — Required only if item first ignited code is 00 or <70

E1 Cause of Ignition

☐ Check box if this is an exposure report. Skip to section G

1 ☐ Intentional
2 ☐ Unintentional
3 ☐ Failure of equipment or heat source
4 ☐ Act of nature
5 ☐ Cause under investigation
U [X] Cause undetermined after investigation

E2 Factors Contributing To Ignition

[X] None

NN | None
Factor Contributing To Ignition (1)

Factor Contributing To Ignition (2)

E3 Human Factors Contributing To Ignition

Check all applicable boxes

1 ☐ Asleep [X] None
2 ☐ Possibly impaired by alcohol or drugs
3 ☐ Unattended person
4 ☐ Possibly mental disabled
5 ☐ Physically Disabled
6 ☐ Multiple persons involved
7 ☐ Age was a factor

Estimated age of person envolved [ ]

1 ☐ Male 2 ☐ Female

F1 Equipment Involved In Ignition

☐ None If Equipment was not involved, Skip to Section G

NNN | None
Equipment Involved

Brand
Model
Serial #
Year

F2 Equipment Power

Equipment Power Source

F3 Equipment Portability

1 ☐ Portable
2 ☐ Stationary

Portable equipment normally can be moved by one person, is designed to be use in multiple locations, and requires no tools to install.

G Fire Suppression Factors

Enter up to three codes. [X] None

NNN | None
Fire suppression factor (1)

Fire suppression factor (2)

Fire suppression factor (3)

H1 Mobile Property Involved

☐ None

1 ☐ Not involved in ignition, but burned
2 ☐ Involved in ignition, but did not burn
3 ☐ Involved in ignition and burned

H2 Mobile Property Type & Make

Mobile property type

Mobile property make

Mobile property model
Year

License Plate Number
State
VIN Number

Local Use

☐ Pre-Fire Plan Available

Some of the information presented in this report may be based upon reports from other Agencies

☐ Arson report attached
☐ Police report attached
☐ Coroner report attached
☐ Other reports attached

NFIRS-2 Revision 01/19/99

A

FDID *	State *	Incident Date * (MM DD YYYY)	Station	Incident Number *	Exposure *	Delete / Change	NFIRS - 9 Apparatus or Resources
16011	FL	7 15 2012	41	12-0000997	000	☐ Delete ☐ Change	

B

	Apparatus or Resource *	Date and Times (Check if same as alarm date)	Month	Day	Year	Hour Min	Sent	Number of People *	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken
1	ID BN41, Type 92	Dispatch ☒	7	15	2012	10:32	☒	0	☒ Suppression	
		Arrival ☒	7	15	2012	10:41			☐ EMS	
		Clear ☒	7	15	2012	12:29			☐ Other	
2	ID E42, Type 11	Dispatch ☒	7	15	2012	10:32	☒	0	☒ Suppression	
		Arrival ☒	7	15	2012	10:41			☐ EMS	
		Clear ☒	7	15	2012	12:29			☐ Other	
3	ID T41, Type 14	Dispatch ☒	7	15	2012	10:32	☒	0	☒ Suppression	
		Arrival ☒	7	15	2012	10:41			☐ EMS	
		Clear ☒	7	15	2012	12:29			☐ Other	
4	ID , Type	Dispatch ☐ / Arrival ☐ / Clear ☐					☐		☐ Suppression ☐ EMS ☐ Other	
5	ID , Type	Dispatch ☐ / Arrival ☐ / Clear ☐					☐		☐ Suppression ☐ EMS ☐ Other	
6	ID , Type	Dispatch ☐ / Arrival ☐ / Clear ☐					☐		☐ Suppression ☐ EMS ☐ Other	
7	ID , Type	Dispatch ☐ / Arrival ☐ / Clear ☐					☐		☐ Suppression ☐ EMS ☐ Other	
8	ID , Type	Dispatch ☐ / Arrival ☐ / Clear ☐					☐		☐ Suppression ☐ EMS ☐ Other	
9	ID , Type	Dispatch ☐ / Arrival ☐ / Clear ☐					☐		☐ Suppression ☐ EMS ☐ Other	

Type of Apparatus or Resources

Ground Fire Suppression
11 Engine
12 Truck or aerial
13 Quint
14 Tanker & pumper combination
16 Brush truck
17 ARF (Aircraft Rescue and Firefighting)
10 Ground fire suppression, other

Heavy Ground Equipment
21 Dozer or plow
22 Tractor
24 Tanker or tender
20 Heavy equipment, other

Aircraft
41 Aircraft: fixed wing tanker
42 Helitanker
43 Helicopter
40 Aircraft, other

Marine Equipment
51 Fire boat with pump
52 Boat, no pump
50 Marine apparatus, other

Support Equipment
61 Breathing apparatus support
62 Light and air unit
60 Support apparatus, other

Medical & Rescue
71 Rescue unit
72 Urban Search & rescue unit
73 High angle rescue unit
75 BLS unit
76 ALS unit
70 Medical and rescue unit,other

More Apparatus? Use Additional Sheets

Other
91 Mobile command post
92 Chief officer car
93 HazMat unit
94 Type 1 hand crew
95 Type 2 hand crew
99 Privately owned vehicle
00 Other apparatus/resource

NN None
UU Undetermined

NFIRS-9 Revision 11/17/98

A

FDID *	State *	Incident Date * (MM)	(DD)	(YYYY)	Station	Incident Number *	Exposure *	Delete / Change	
16011	FL	7	15	2012	41	12-0000997	000	☐ Delete ☐ Change	NFIRS - 10 Personnel

B Apparatus or Resource * — Use codes listed below

Date and Times — Check if same as alarm date (Month Day Year Hours/mins)

Sent ☒ | Number of People * | Use — Check ONE box for each apparatus to indicate its main use at the incident. | Actions Taken — List up to 4 actions for each apparatus and each personnel.

#	ID	Type		Same	Month	Day	Year	Hours/mins	Sent	Number of People	Use	Actions Taken
1	BN41	92	Dispatch	☒	7	15	2012	10:32	☒	0	☒ Suppression ☐ EMS ☐ Other	
			Arrival	☒	7	15	2012	10:41				
			Clear	☒	7	15	2012	12:29				

Personnel ID	Name	Rank or Grade	Attend ☒	Action Taken	Action Taken	Action Taken	Action Taken
			☐				
			☐				
			☐				
			☐				
			☐				
			☐				

#	ID	Type		Same	Month	Day	Year	Hours/mins	Sent	Number of People	Use	Actions Taken
2	E42	11	Dispatch	☒	7	15	2012	10:32	☒	0	☒ Suppression ☐ EMS ☐ Other	
			Arrival	☒	7	15	2012	10:41				
			Clear	☒	7	15	2012	12:29				

Personnel ID	Name	Rank or Grade	Attend ☒	Action Taken	Action Taken	Action Taken	Action Taken

#	ID	Type		Same	Month	Day	Year	Hours/mins	Sent	Number of People	Use	Actions Taken
3	T41	14	Dispatch	☒	7	15	2012	10:32	☒	0	☒ Suppression ☐ EMS ☐ Other	
			Arrival	☒	7	15	2012	10:41				
			Clear	☒	7	15	2012	12:29				

Personnel ID	Name	Rank or Grade	Attend ☒	Action Taken	Action Taken	Action Taken	Action Taken

FDID	State	Incident Date			Station	Incident Number	Exposure	
16011	FL	7	15	2012	41	12-0000997	000	Responding Units/Personnel

Unit	Notify Time	Enroute Time	Arrival Time	Cleared Time
BN41 2007 Ford F-150	10:32:04	10:32:04	10:41:19	12:29:18

Staff ID\Staff Name	Activity	Rank	Position	Role

Unit	Notify Time	Enroute Time	Arrival Time	Cleared Time
E42 2009 E-One Typhoon	10:32:04	10:32:04	10:41:19	12:29:18

Staff ID\Staff Name	Activity	Rank	Position	Role

Unit	Notify Time	Enroute Time	Arrival Time	Cleared Time
T41 2000 Pierce	10:32:04	10:32:04	10:41:19	12:29:18

Staff ID\Staff Name	Activity	Rank	Position	Role

FDID *	State *	Incident Date * (MM DD YYYY)	Station	Incident Number *	Exposure *	
16011	FL	7 15 2012	41	12-0000997	000	Responding Personnel

Staff ID\Staff Name	Unit	Activity	Position	Rank	PayScl	Hrs	HrsPd	Pts
1477 Walters, Josh		OD On Duty		FF/EMT		24.0	1.95	0.00
5832 Snyder, Glenn		OD On Duty		AC		24.0	1.95	0.00
7593 Collier, Ryan		OD On Duty				24.0	1.95	0.00
9364 Thornton, Sean		OD On Duty		FF		24.0	1.95	0.00

Total Participants: 4

Total Personnel Hours: 96.00

An 'X' next to the unit denotes driver.

K1 Person/Entity Involved
Local Option

Business name (if applicable) | Area Code | Phone Number

☐ Check This Box if same address as incident location. Then skip the three duplicate address lines.

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code

☐ More people involved? Check this box and attach Supplemental Forms (NFIRS-1S) as necessary

K2 Owner ☐ Same as person involved? Then check this box and skip The rest of this section.
Local Option

Business name (if Applicable) | Area Code | Phone Number

☐ Check this box if same address as incident location. Then skip the three duplicate address lines.

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code

L Remarks
Local Option

BN41 and E42 responded to an outside Fire at 4000 Knights Trail Rd at the landfill. Dispatch advised TV's and Electrical items on fire. BN41 spotted large column of smoke while en route and requested T41 for additional water supply. BN41 on scene in command investigating. Command confirmed outside electrical equipment (TV's/Computers) actively on fire, approximately 75 pallets of electronics weighing 1,000 pounds each. One exposure approximately twenty five feet from fire, Hazardous waste storage building. E42 on scene placed on the windward side of the outside fire. E42 pulled a 200 foot preconnect and began attacking the fire from the south side near the impending exposure. Water on the fire at 10:50:37. T41 on scene. T41 designated as water supply. On scene units can handle. Fire under control at 10:55:29. Fire out at 11:08:23. Command requested SSO to question two witnesses near by. Witnesses stated "they were near by and heard loud explosions and seen smoke." NF2 on scene. NF2 requested supervisor from landfill to respond. E42 used class B foam as an additional suppressant during mop up. Lois Rose from Waste Management on scene. NF2 and Rose contacted State Fire Marshal Jack Shire and determined State Fire Marshal response not needed. Total property loss is $0. Total water used on fire was approximately 2,500 gallons and 20 gallons of foam. All hazards contained, all units available returning.

L Authorization

Officer in charge ID	Signature	Position or rank	Assignment	Month	Day	Year
1477	Walters, Josh	LT		07	15	2012

Check Box if same as Officer in charge. ☒

Member making report ID	Signature	Position or rank	Assignment	Month	Day	Year
1477	Walters, Josh	LT		07	15	2012

INVOICE
113946

SWS ENVIRONMENTAL SERVICES

SWS Environmental Services - 160043
P.O. Box 25035
Bradenton, FL 34206
850-234-8428 Phone
850-234-2451 Fax

BILL TO
Sarasota County Solid Waste
4000 Knights Trail Rd.
Sarasota, FL 34275
Attn: Lois Rose

LOCATION
Sarasota County; Fire Clean up
4000 Knight Trail
Nokomis, FL 34275

CUSTOMER NO	PO/CONTRACT NO	TERMS	INVOICE DATE	PAGE
10-SAR004	Post Fire Clean	Net 0	7/19/2012	Page 1 of 1

JOB NUMBER: SP1-207-1393

DATE	REPORT #	DESCRIPTION	AMOUNT
07/15/2012	1	Personnel & Equipment	2,022.88

COMMENTS: Post Fire Clean Up
Assistance
Contact: Lois Rose
Phone # 941-650-0722
"St. Petersburg Division"

Subtotal	2,022.88
Tax	0.00
Retainage	0.00
Invoice Total	2,022.88

Invoiced by: Shelly L Czupryna

NOTE: Paid in Full - Credit Card

FEIN 26-3604581

A finance charge of 1.5% (18% Annually) will be added to invoices over 30 days.

DATE: 7/15/2012
DAY OF THE WEEK: Sunday
CLIENT NAME: Sarasota County

SWS Environmental Services

DAILY REPORT - PERSONNEL CHARGES

Location	Tracking Code	Client P.O.	Contract Date	Report Date	Report Number	Region
4000 Knight Trail, Nokomis, FL 34275	SP1-207-1393	Lois Rose	7/15/2012	7/15/2012	1	St. Petersburg Division

SCOPE OF WORK: ER - Assist Sarasota County with Post Fire Clean Up Operations

DAILY REPORT - PERSONNEL CHARGES

		TIME		HOURS		RATE		AMOUNT			
Name	Labor Classification	Start	End	ST	OT	ST	OT	Straight	Overtime	Total	Per Diem
Cooper, Eric	Supervisor	13:00	20:30	0.00	7.50	50.00	67.50	0.00	506.25	506.25	
Austin, Steve	Equipment Operator	14:00	20:30	0.00	6.50	38.00	52.00	0.00	338.00	338.00	
Gonzalez, Mike	Equipment Operator	13:30	20:30	0.00	7.00	38.00	52.00	0.00	364.00	364.00	
Total Labor Charges			3	Person(s)				-	1,208.25	1,208.25	-

DAILY REPORT - EQUIPMENT CHARGES

Quantity	Description	EQ Num	Unit	Rate	Units	Mi.Rate	Miles	Fuel Recovery	Amount
1	Supervisor - Response Vehicle	VH-003192	Hour	12.00	7.50	0.50	140	18.45	178.45
1	Response Vehicle	VH-003165	Hour	22.00	6.50	0.50	140	30.03	243.03
3	EPA Level C		Man/Day	52.00	1				156.00
6	Liner, Drumpster, Roll-Off		Each	28.00	1				168.00
6	Duct Tape (Non PPE Use)		Roll	6.50	1				39.00
1	Cellular Phone		Day	25.00	1				25.00
2	Florida Turnpike - Tolls		Each	2.50	103%				5.15
Total Equip. Charges									814.63

Sarasota, County
Stephen Austin
#6025
SP1-207-1393

FLORIDA'S TURNPIKE
TOLL RECEIPT

DATE:07/15/12 TIME:1438 TRANS#:4739

PLAZA:SKYNOR LANE:02 COLL ID:9078

CLASS:03 TOLL:$ 2.50 PAID:CASH

YOU WOULD HAVE SAVED TIME AT
THIS TOLL PLAZA BY USING SUNPASS

AVAILABLE AT PUBLIX, CVS, AAA
AND WWW.SUNPASS.COM

Sarasota, County
Stephen Austin
#6025
SP1-207 1393

FLORIDA'S TURNPIKE
TOLL RECEIPT

DATE:07/15/12 TIME:1938 TRANS#:2358

PLAZA:SKYSOU LANE:01 COLL ID:2950

CLASS:03 TOLL:$ 2.50 PAID:CASH

YOU WOULD HAVE SAVED $ 0.50 AT
THIS TOLL PLAZA BY USING SUNPASS

AVAILABLE AT PUBLIX, CVS, AAA
AND WWW.SUNPASS.COM

SWS Environmental Services
Summary of Project Charges
Sarasota County
4000 Knight Trail, Nokomis, FL 34275
ER - Assist Sarasota County with Post Fire Clean Up Operations
SWS TRACKING CODE
SP1-207-1393

Date	Day	Personnel	Per Diem	Equipment	Total
7/15/2012	1	1,208.25	-	814.63	2,022.88
TOTAL:		1,208.25	-	814.63	2,022.88

COPY

SOIL SAMPLING AND ANALYSIS FOR SARASOTA COUNTY, CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX, FIRE INVESTIGATION, 4000 KNIGHTS TRAIL, SARASOTA COUNTY, FLORIDA

Ardaman & Associates, Inc.

OFFICES

FLORIDA
Orlando, 8008 S. Orange Avenue, Orlando, Florida 32809, Phone (407) 855-3860
Bartow, 1525 Centennial Drive, Bartow, Florida 33830, Phone (863) 533-0858
Cocoa, 1300 N. Cocoa Boulevard, Cocoa, Florida 32922, Phone (321) 632-2503
Fort Myers, 9970 Bavaria Road, Fort Myers, Florida 33913, Phone (239) 768-6600
Miami, 2608 W. 84th Street, Hialeah, Florida, 33016, Phone (305) 825-2683
Port St. Lucie, 460 NW Concourse Place, Unit #1, Port St. Lucie, Florida 34986-2248, Phone (772) 878-0072
Sarasota, 78 Sarasota Center Boulevard, Sarasota, Florida 34240, Phone (941) 922-3526
Tallahassee, 3175 West Tharpe Street, Tallahassee, Florida 32303, Phone (850) 576-6131
Tampa, 3925 Coconut Palm Drive, Suite 115, Tampa, Florida 33619, Phone (813) 620-3389
West Palm Beach, 2511 Westgate Avenue, Suite 10, West Palm Beach, Florida 33409, Phone (561) 687-8200
LOUISIANA
Alexandria, 3609 MacLee Drive, Alexandria, Louisiana 71302, Phone (318) 443-2888
Baton Rouge, 316 Highlandia Drive, Baton Rouge, Louisiana 70810, Phone (225) 752-4790
Monroe, 1122 Hayes Street, Monroe, Louisiana 71292, Phone (318) 387-4103
New Orleans, 1305 Distributors Row, Suite 1, Jefferson, Louisiana 70123, Phone (504) 835-2593
Shreveport, 7222 Greenwood Road, Shreveport, Louisiana 71119, Phone (318) 636-3723

Ardaman & Associates, Inc.

Geotechnical, Environmental and
Materials Consultants

August 16, 2012
File No. 12-8266

TO: Sarasota Environmental Services
Solid Waste Operations
4000 Knights Trail
Nokomis, FL 34275

Attention: Lois Rose

SUBJECT: Soil Sampling and Analysis for Sarasota County, Central County Solid Waste Disposal Complex, Fire Investigation, 4000 Knights Trail, Sarasota County, Florida

---

Ladies and Gentlemen:

As requested by Lois Rose of Sarasota County Environmental Services, Solid Waste Operations, Ardaman & Associates, Inc. has conducted limited soil sampling and analysis with regard to the fire which occurred at the Sarasota County Solid Waste Disposal Complex on July 15, 2012. This report will discuss our field sampling activities and present the results of the laboratory analysis.

It is our understanding that a fire occurred at the Central County facility in the vicinity of the electronics recycling area. The fire occurred on a concrete slab, however firefighting activities caused liquids to flow generally to the west of the concrete slab. The concern is that contaminants could have impacted surficial soils in the immediate vicinity of the fire.

On July 16, 2012, representatives of Ardaman & Associates accessed the property for soil sample collection. Six soil samples were collected at locations shown on the attached sketch in Appendix I. Samples were generally collected in areas where runoff had occurred. Samples were collected by advancing a 3 1/2 inch diameter stainless steel hand auger into the soils to the desired depth and then extracting the auger without rotation to facilitate collection of discrete soil samples. Samples were retrieved and immediately placed into laboratory supplied containers, capped, labeled and packed on ice for transport to the laboratory. Analysis was conducted according to EPA Methods 6010 and 7471 for the eight RCRA metals, by Method 8260 for volatile aromatics and by Method 8270 for semi-volatile organics. Copies of the chain-of-custody form and laboratory analysis are included in Appendix I of this report and the detected analytes of concern are summarized in the attached Table 1.

As indicated, arsenic was detected in all six soil samples at concentrations between 2.25 and 9.15 milligrams per kilogram (mg/kg) which exceeds the Soil Cleanup Target Level (SCTL) for a residential scenario of 2.1 mg/kg but do not exceed the commercial/industrial scenario of 12.0 mg/kg. The landfill is designated government use, not residential. Additionally, selenium was detected at 5.64 mg/kg in sample SS-4 which does not exceed the SCTL for direct exposure, but does exceed the SCTL based on the leachability criteria of 5.2 mg/kg. Low levels of selenium were detected in five of the six soil samples collected. Finally, phenol was tentatively identified in only one of the soil samples (SS-2) at a concentration of 826 micrograms per kilogram (ug/kg) which again does not exceed the SCTL for direct exposure, but does exceed the leachability criteria of 50 ug/kg.

In order to determine if the soils are truly leachable, sample SS-2 was reanalyzed in the laboratory following SPLP extraction. The laboratory analysis is included in Appendix II. As indicated, selenium was undetected at 0.0041 milligrams per liter (mg/L).

Because the hold time had expired, SS-2 was resampled and submitted to the lab for analysis for Phenol following SPLP extraction. The laboratory analysis is included in Appendix III. As indicated, Phenol was undetected at 3.4 micrograms per liter (ug/L). It is our opinion that no additional assessment or remediation is necessary.

It has been a pleasure to be of assistance to you with this project. Please contact our office should you have any questions concerning the sampling and analysis exercise or wish to discuss the findings further.

Very truly yours,

ARDAMAN & ASSOCIATES, INC.
Certificate of Authorization No. 5950

Ashby Hoover, P.E.
Project Engineer
Fl. Lic. No. 49942

AH:ly

Attachment

Table 1: SOIL ANALYTICAL DATA SUMMARY - DETECTS ONLY (Revised 08/15/12)

Project Name: Landfill Fire Investigation (CCSWDC)
Project Location: 4000 Knight's Trail, Nokomis, Sarasota County, FL

PARAMETERS	LAB METHOD	UNITS	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SCTLs		
									Direct Exposure		Leachability Based on Groundwater Criteria
			07/16/12	07/16/12	07/16/12	07/16/12	07/16/12	07/16/12	Residential	Commercial/ Industrial	
Arsenic	SW6010B	mg/kg	**2.25**	**3**	**2.94**	**9.15**	**2.97**	**2.44**	2.1	12	***
Barium	SW6010B	mg/kg	**13.8**	**12.8**	**15.6**	**24.1**	**13**	**15.3**	120**	130,000	1,600
Cadmium	SW6010B	mg/kg	**0.172 I**	**0.23 I**	**0.231 I**	**0.552**	**0.283 I**	**0.339 I**	82	1,700	7.5
Chromium	SW6010B	mg/kg	**7.66**	**8.4**	**10.4**	**29.9**	**13**	**15.9**	210	470	38
Lead	SW6010B	mg/kg	**2.35**	**2.23**	**3.04**	**3.72**	**2.41**	**3.13**	400	1,400	***
Selenium	SW6010B	mg/kg	**1.36**	**3.04**	**0.98 I**	**5.64**	**2.54**	0.334 U	440	11,000	5.2
Silver	SW6010B	mg/kg	0.106 U	0.146 U	0.176 U	0.122 U	0.155 U	0.134 U	410	8,200	17
Mercury	SW7471A	mg/kg	**0.0201 V I**	**0.0185 V**	**0.0174 V I**	**0.0173 V**	**0.0176 V**	**0.016 V**	3	17	2.1
Benzoic acid	SW8270D	ug/kg	**356 J3 I**	**326 J3 I**	248 J3U	247 J3U	267 J3U	256 J3U	180,000,000	*	110,000
Phenol	SW8270D	ug/kg	66.8 U	**826 I**	59.8 U	59.4 U	64.3 U	61.6 U	500,000**	220,000,000	50

Notes: SCTLs = Soil Cleanup Target Levels, Chapter 62-777, Florida Administrative Code, F.A.C., Table II
mg/kg = milligrams per kilogram
ug/kg = micrograms per kilogram
* Contaminant is not a health concern for this exposure scenario.
** Direct exposure value based on acute toxicity considerations.
*** Leachability values may be derived using the SPLP Test to calculate site-specific SCTLs or may be determined using TCLP in the event oily wastes are present.
I = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U = Indicates that the compound was analyzed for but not detected above the method detection limit (MDL).
J3 = Estimated value; value not accurate. The reported value did not meet the established quality control criteria for either precision or accuracy but falls within the NELAC range for marginal exceedances.
V = Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value in the sample is less than 10 times the value found in the method blank.
Bold = Analyte detected
Shaded = Analyte concentration exceeds SCTL for Direct Exposure - Commercial/Industrial

APPENDIX I

Location 12-8266 Date 7-16-12

Project / Client Landfill Fire Investigation (CCSWDC)
4000 Knights Trail Rd., Nokomis, Sarasota Co.

Collected (6) grab soil samples at locations suspected to have been impacted by run-off associated with fire suppression activities.

Samples were collected with S.S. auger buckets and placed directly into sample containers. All samples were collected from the top 6" of soil.

Note: Sample SS-6, located in the detension area between the concrete slab and perimeter ditch, was submerged below approx 1' of water at the time of sampling.

Samples to be analyzed for aromatics, RCRA 8 metals and semi-volatiles by 8270.

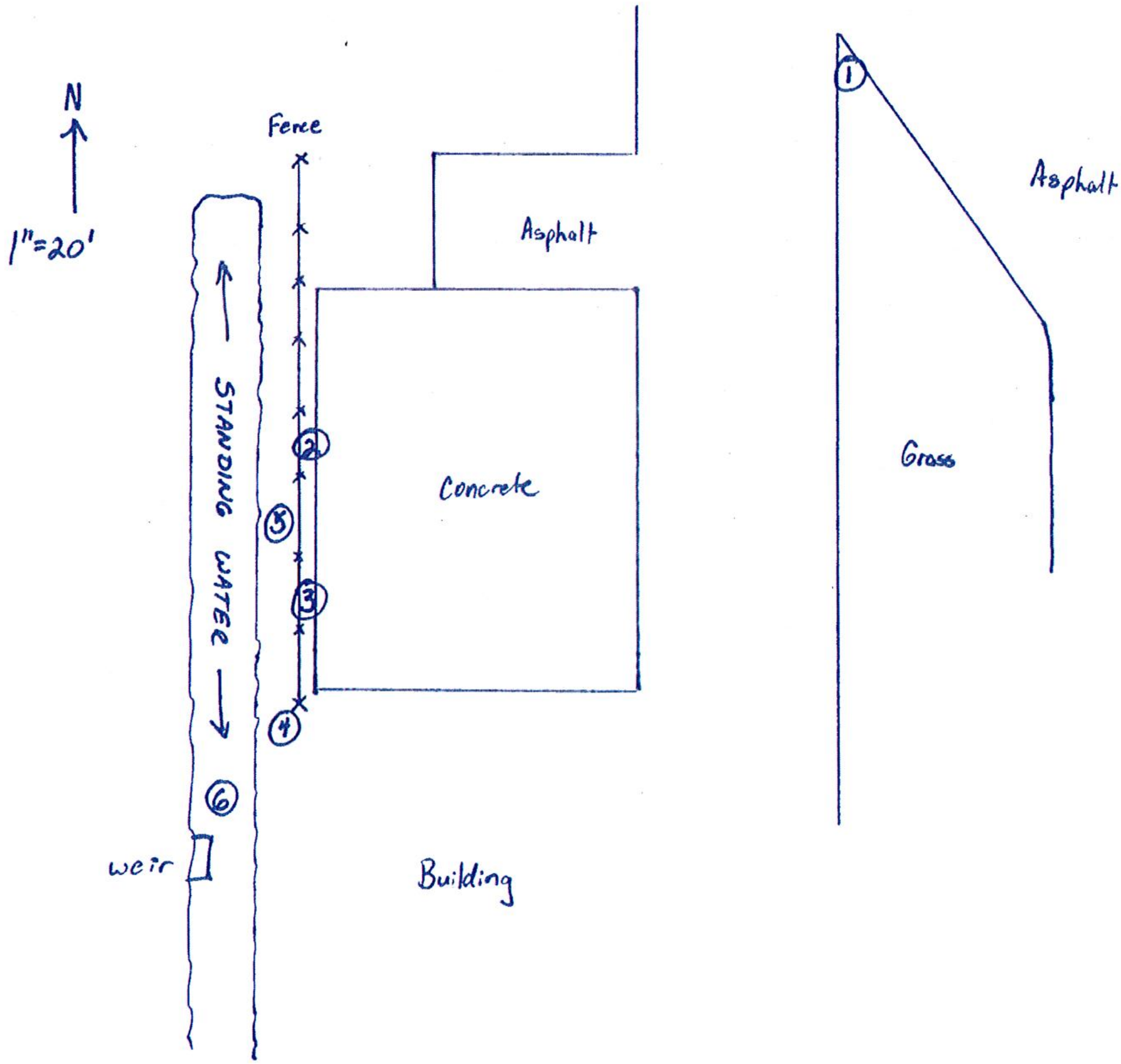
Field work performed by / notes prepared by.
Michael Eggleston (AAI)

Location Date

Project / Client

Ardaman & Associates, Inc.
78 Sarasota Center Blvd. phone: (941) 922-3526
Sarasota, Fl 34240 fax: (941) 922-6743

Project: 12-8266 LANDFILL FIRE
File No.: 12-8266
Date: 7/16/12 Sheet:
By: CH



PEL

A Division of Spectrum Analytical, Inc. featuring Hanibal Technology

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

TAT- Indicate Date Needed: ____

- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Andreyev & Assoc Inc
7B Sarasota Center Blvd
Sarasota FL 34240

Project Mgr.: Chip Hoover

Invoice To: Same

P.O. No.: ____ RQN: ____

Project No.: 12-3266
Site Name: Landfill Fire Investigation
Location: 4000 Knights Trail Nokomis Sarasota Co. State: FL
Sampler(s): Michael Eggleston (AAI)

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9= Ice only 10= ____ 11= ____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= ____ X2= ____ X3= ____

G=Grab C=Composite

List preservative code below: 9 9 9

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	8260 Nom.	8270 Full	RCRA 8 Metals
	SS-1	7.16.12	1420	G	SO			3		X	X	X
	SS-2		1425					3		X	X	X
	SS-3		1432					3		X	X	X
	SS-4		1440					3		X	X	X
	SS-5		1447					3		X	X	X
	SS-6		1453					3		X	X	X

Notes:

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other ____

State specific reporting standards:

☐ E-mail to ____
EDD Format ____

Relinquished by:	Received by:	Date:	Time:
[signature]	[signature]	7/17/12	7:20AM

Condition upon receipt: ☐ Iced ☐ Ambient ☐ °C ____

Date Reported:
23-Jul-12

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Ardaman & Associates
78 Sarasota Center Boulevard
Sarasota, FL 34240

Project # 3506531
Project: Landfill Fire Investigation 12-8266

Attn: Chip Hoover

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
350653101	SS-1	S	16-Jul-12 14:20	17-Jul-12 7:20
350653102	SS-2	S	16-Jul-12 14:25	17-Jul-12 7:20
350653103	SS-3	S	16-Jul-12 14:32	17-Jul-12 7:20
350653104	SS-4	S	16-Jul-12 14:40	17-Jul-12 7:20
350653105	SS-5	S	16-Jul-12 14:47	17-Jul-12 7:20
350653106	SS-6	S	16-Jul-12 14:58	17-Jul-12 7:20

Soil samples are reported on dry weight basis, unless otherwise noted.

Submitted material will be retained for 30 days unless otherwise requested by client or consumed in analysis.

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet unless noted in the case narrative.

Please contact the laboratory at 813-888-9507 with any questions regarding the data contained in the laboratory report.

Florida	E84207
Texas	T104704408-12-4
South Carolina	96011001
North Dakota	R-178
California	07253CA
Louisiana	02025
Kansas	E-10385
Arkansas	11-036-1

NELAP ACCREDITED TNI LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2259 Testing

Respectfully Submitted,

Brian C Spann

Digitally signed by Brian C Spann
DN: cn=Brian C Spann, o=Lab Director, Tampa Division, ou=Spectrum Analytical, email=bspann@pelab.com, c=US
Date: 2012.07.23 17:10:59 -04'00'

Brian Spann
Laboratory Director
Spectrum Analytical, Inc. Florida Division

Spectrum Analytical, Inc. FL Division
featuring Hanibal Technology

DATA QUALIFIER CODES

State of Florida, Department of Environmental Protection and
Department of Health Rehabilitative Services / NELAC

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J Estimated value; value not accurate. This code shall be used in the following instances:

1.Surrogate recovery limits have been exceeded.

2. No known quality control criteria exits for the component.

3.The reported value did not meet the established quality control criteria for either precision or accuracy but falls within the NELAC marginal exceedance range.

3M.The reported value did not meet the established quality control criteria for either precision or accuracy and falls beyond the NELAC range for marginal exceedances.

3R.The RPD for the LCSD exceeds the laboratory established control limits.

4.The sample matrix interfered with the ability to make an accurate determination.

5.The data is questionable because of improper laboratory or field protocols (e.g. composite sample was collected instead of a grab sample).

L Off-scale high. Actual value is known to be greater than the value given. To be used when the concentration of the analyte is above the acceptable limit for quantitation (exceeds the linear range of the highest calibration standard) and the calibration curve is known to exhibit a negative deflection.

Q Sample held beyond acceptable holding time. This code shall be used if the value is derived from a sample that was prepared or analyzed after the approved holding time restrictions for the sample preparation or analysis.

U Indicates that the compound was analyzed for but not detected above the method detection limit (MDL).

V Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value in the sample is less than 10 times the value found in the method blank.

Y The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.

RL - Reporing Limit. The Spectrum Analytical, Inc. lowest Practical Quanititation Limit (PQL), defined by the lowest point in the calibration curve.

CASE NARRATIVE
Inorganic

Spectrum Analytical Inc. Lab Reference No./SDG: 3506531

Client: Ardaman

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHOD

Samples were analyzed according to Spectrum Analytical's Standard Operating Procedures and Method SW6010B

IV. PREPARATION

Soil samples were prepared according to Spectrum Analytical Inc. Laboratory's Standard Operating Procedures and EPA Method 3050B.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met.

2. Method Blanks:

All acceptance criteria were met.

C. Spikes:

1. Laboratory Control Spikes (LCS):

An LCS/LCSD set was analyzed. All percent recovery and relative percent difference (RPD) criteria were met.

2. Post Digestion Spike:

CASE NARRATIVE
Inorganic

Spectrum Analytical Inc. Lab Reference No./SDG: 3506531

Client: Ardaman

All acceptance criteria were met.

3. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):

No spikes requested by client.

D. Duplicate:

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

E. Serial Dilution:

All acceptance criteria were met.

F. ICP Interference Check Samples:

All acceptance criteria were met.

G. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature:
Name: Troy L. Roberts Title: Inorg. Manager

SIGNED: **DATE:** 07/20/2012

CASE NARRATIVE
Inorganic

Spectrum Analytical Inc. Lab Reference No./SDG: 3506531

Client: Ardaman

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHOD

Samples were analyzed according to Spectrum Analytical's Standard Operating Procedures and Method SW7471A

IV. PREPARATION

Soil samples were prepared according to Spectrum Analytical Inc. Laboratory's Standard Operating Procedures and EPA Method 7471A.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met.

2. Method Blanks:

All acceptance criteria were met with the exception of:
Blank 137845MB was analyzed with the soil samples on 07/18/12. The following analyte(s) were detected below RL: Mercury at 0.00708 mg/Kg
Samples coded accordingly.

The hit in the blank is below the RL, therefore, no corrective action was taken.

C. Spikes:

1. Laboratory Control Spikes (LCS):

CASE NARRATIVE
Inorganic

Spectrum Analytical Inc. Lab Reference No./SDG: 3506531

Client: Ardaman

An LCS/LCSD set was analyzed. All percent recovery and relative percent difference (RPD) criteria were met.

2. **Post Digestion Spike:**

All acceptance criteria were met.

3. **Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):**

No spikes requested by client.

D. Duplicate:

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

E. Serial Dilution:

All acceptance criteria were met.

F. ICP Interference Check Samples:

All acceptance criteria were met.

G. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature:
Name: Troy L. Roberts Title: Inorg. Manager

SIGNED: **DATE: 07/20/2012**

CASE NARRATIVE
Volatile Organic

Spectrum Analytical Inc. Lab Reference No./SDG: 3506531

Client: Ardaman

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. **Sample Preparation:** All holding times were met.

B. **Sample Analysis:** All holding times were met.

III. METHODS

Samples were analyzed according to Spectrum Analytical's Standard Operating Procedures and Method SW8260B

IV. PREPARATION

Soil samples were prepared by SW846/5035 for EPA8260B volatiles analysis. All aspects of sample preparation proceeded without exception.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

All acceptance criteria were met.

C. Surrogates:

All acceptance criteria were met.

D. Spikes:

1. Laboratory Control Spikes (LCS)

All acceptance criteria were met .Please note that:

LCS 071912LCS21 was analyzed with the soil samples on 07/19/12. The following analyte(s) were recovered above criteria: 1, 4-Dichlorobenzene at 120 % with criteria of (78-116), Chlorobenzene at 132 % with criteria of (65-130).No further action was taken, since LCSD sample met percent recovery criteria.

CASE NARRATIVE
Volatile Organic

Spectrum Analytical Inc. Lab Reference No./SDG: 3506531

Client: Ardaman

Samples coded accordingly.

2. **Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)**

No spikes requested by client.

E. Internal Standards:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature:
Name: Brian C. Spann Title: Lab Director

SIGNED: **DATE: 07/19/2012**

W:\Narratives\Vols\3506\3506531_8260.doc

CASE NARRATIVE
Semi-Volatile Organic

Spectrum Analytical Inc. Lab Reference No./SDG: 3506531

Client: Ardaman

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

Samples were analyzed according to Spectrum Analytical's Standard Operating Procedures and Method SW8270D.

IV. PREPARATION

Soil samples were prepared by SW846 EPA 3545 for 8270 semi-volatile analysis.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met. The low calibration standard is 500 ug/Kg for the following analytes: 4,6-Dinitro-2-methylphenol, Pentachlorophenol.

B. Blanks:

All acceptance criteria were met.

C. Surrogates:

All acceptance criteria were met.

D. Spikes:

1. Laboratory Control Spikes (LCS)

All acceptance criteria were met with the exception of:

LCS 138007LCS was analyzed with the soil samples extracted on 07/19/12. The following analyte was recovered below criteria: Benzoic acid at 8.4 % with criteria of (10-120). Since this compound was recovered only slightly below criteria and was not detected above the RL in any samples, no further action was taken.

CASE NARRATIVE
Semi-Volatile Organic

Spectrum Analytical Inc. Lab Reference No./SDG: 3506531

Client: Ardaman

Samples coded accordingly.

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

No spikes requested by client.

E. Internal Standards:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature:
Name: Brian C. Spann Title: Lab Director

SIGNED: **DATE: 07/23/2012**

W:\Narratives\SemiVols\3506\3506531_8270.doc

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531
PROJECT ID: Landfill Fire Investigation 12-8266

Lab# : 350653101
Client ID : SS-1
Matrix : S

Collection Information:
Sample Date: 7/16/2012 2:20:00 PM

Parameter	Method	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
Arsenic	6010	**2.25**	07/20/2012 13:11	07/18/2012 9:23	MG/KG	0.332	0.698	1
Barium	6010	**13.8**	07/20/2012 13:11	07/18/2012 9:23	MG/KG	0.106	0.332	1
Cadmium	6010	0.172 I	07/20/2012 13:11	07/18/2012 9:23	MG/KG	0.0332	0.332	1
Chromium	6010	**7.66**	07/20/2012 13:11	07/18/2012 9:23	MG/KG	0.106	0.332	1
Lead	6010	**2.35**	07/20/2012 13:11	07/18/2012 9:23	MG/KG	0.226	0.531	1
Selenium	6010	**1.36**	07/20/2012 13:11	07/18/2012 9:23	MG/KG	0.266	1.33	1
Silver	6010	0.106 U	07/20/2012 13:11	07/18/2012 9:23	MG/KG	0.106	0.332	1
Mercury	7471	0.0201 V I	07/18/2012 15:33	07/18/2012 9:53	MG/KG	0.00433	0.0234	1
1,2-Dichlorobenzene	8260	0.63 U	07/18/2012 12:53		UG/KG	0.63	5.7	1
1,3-Dichlorobenzene	8260	0.51 U	07/18/2012 12:53		UG/KG	0.51	5.7	1
1,4-Dichlorobenzene	8260	0.74 U	07/18/2012 12:53		UG/KG	0.74	5.7	1
Benzene	8260	0.57 U	07/18/2012 12:53		UG/KG	0.57	2.3	1
Chlorobenzene	8260	0.4 U	07/18/2012 12:53		UG/KG	0.4	2.3	1
Ethylbenzene	8260	0.78 U	07/18/2012 12:53		UG/KG	0.78	2.3	1
m,p-Xylene	8260	0.77 U	07/18/2012 12:53		UG/KG	0.77	4.5	1
Methyl tert-butyl ether	8260	0.49 U	07/18/2012 12:53		UG/KG	0.49	2.3	1
o-Xylene	8260	0.4 U	07/18/2012 12:53		UG/KG	0.4	2.3	1
Toluene	8260	0.33 U	07/18/2012 12:53		UG/KG	0.33	2.3	1
1,2-Dichloroethane-d4(SURR)	8260	104	07/18/2012 12:53		%	0.33	(71 - 124)	1
4-Bromofluorobenzene(SURR)	8260	99.4	07/18/2012 12:53		%	0.33	(54 - 126)	1
Dibromofluoromethane(SURR)	8260	103	07/18/2012 12:53		%	0.33	(68 - 119)	1
Toluene-d8(SURR)	8260	102	07/18/2012 12:53		%	0.33	(59 - 127)	1
1,2,4-Trichlorobenzene	8270	59.6 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	59.6	278	1
1,2-Dichlorobenzene	8270	58.6 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	58.6	278	1
1,3-Dichlorobenzene	8270	62.7 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	62.7	278	1
1,4-Dichlorobenzene	8270	64.8 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	64.8	278	1
1-Methylnaphthalene	8270	63.7 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	63.7	278	1
2,2'-Oxybis(1-chloropropane)	8270	226 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	226	278	1
2,4,5-Trichlorophenol	8270	76.1 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	76.1	274	1
2,4,6-Trichlorophenol	8270	69.9 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	69.9	274	1
2,4-Dichlorophenol	8270	77.1 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	77.1	274	1
2,4-Dimethylphenol	8270	58.6 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	58.6	274	1
2,4-Dinitrophenol	8270	226 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	226	1380	1
2,4-Dinitrotoluene	8270	50.4 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	50.4	278	1
2,6-Dinitrotoluene	8270	51.4 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	51.4	278	1
2-Chloronaphthalene	8270	68.6 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	68.6	278	1
2-Chlorophenol	8270	70.9 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	70.9	278	1
2-Methylnaphthalene	8270	59.6 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	59.6	278	1
2-Methylphenol	8270	98.7 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	98.7	274	1
2-Nitroaniline	8270	58.6 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	58.6	278	1
2-Nitrophenol	8270	74 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	74	278	1
3,3'-Dichlorobenzidine	8270	60.6 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	60.6	278	1
3-Nitroaniline	8270	82.2 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	82.2	274	1
4,6-Dinitro-2-methylphenol	8270	273 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	273	278	1
4-Bromophenyl-phenylether	8270	50.4 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	50.4	278	1
4-Chloro-3-methylphenol	8270	57.6 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	57.6	278	1

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531

PROJECT ID: Landfill Fire Investigation 12-8266

Lab# : 350653101

Client ID : SS-1

Matrix : S

Collection Information:

Sample Date: 7/16/2012 2:20:00 PM

Parameter	Method	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
4-Chloroaniline	8270	64.8 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	64.8	278	1
4-Chlorophenyl-phenylether	8270	52.4 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	52.4	278	1
4-Methylphenol	8270	60.6 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	60.6	278	1
4-Nitroaniline	8270	90.5 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	90.5	274	1
4-Nitrophenol	8270	54.5 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	54.5	686	1
Acenaphthene	8270	50.4 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	50.4	278	1
Acenaphthylene	8270	56.5 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	56.5	278	1
Aniline	8270	79.2 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	79.2	278	1
Anthracene	8270	61.7 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	61.7	278	1
Benzidine	8270	617 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	617	689	1
Benzo(a)anthracene	8270	58.6 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	58.6	278	1
Benzo(a)pyrene	8270	44.2 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	44.2	278	1
Benzo(b)fluoranthene	8270	64.8 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	64.8	278	1
Benzo(g,h,i)perylene	8270	41.1 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	41.1	278	1
Benzo(k)fluoranthene	8270	58.6 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	58.6	278	1
Benzoic acid	8270	356 J3 I	07/20/2012 14:31	07/19/2012 10:00	UG/KG	278	686	1
Benzyl alcohol	8270	94.6 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	94.6	686	1
Bis(2-chloroethoxy)methane	8270	58.6 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	58.6	274	1
Bis(2-chloroethyl)ether	8270	68.9 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	68.9	278	1
Bis(2-ethylhexyl)phthalate	8270	85.3 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	85.3	278	1
Butylbenzylphthalate	8270	64.8 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	64.8	278	1
Chrysene	8270	35 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	35	274	1
Dibenzo(a,h)anthracene	8270	42.1 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	42.1	278	1
Dibenzofuran	8270	55.5 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	55.5	278	1
Diethylphthalate	8270	52.4 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	52.4	278	1
Dimethylphthalate	8270	60.6 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	60.6	278	1
Di-n-butylphthalate	8270	45.2 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	45.2	278	1
Di-n-octylphthalate	8270	59.6 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	59.6	278	1
Fluoranthene	8270	49.3 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	49.3	278	1
Fluorene	8270	52.4 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	52.4	278	1
Hexachlorobenzene	8270	54.5 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	54.5	274	1
Hexachlorobutadiene	8270	59.6 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	59.6	278	1
Hexachlorocyclopentadiene	8270	41.1 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	41.1	686	1
Hexachloroethane	8270	51.4 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	51.4	278	1
Indeno(1,2,3-cd)pyrene	8270	53.4 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	53.4	278	1
Isophorone	8270	60.6 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	60.6	278	1
Naphthalene	8270	65.8 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	65.8	278	1
Nitrobenzene	8270	61.7 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	61.7	278	1
N-Nitrosodimethylamine	8270	73 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	73	274	1
N-Nitroso-di-n-propylamine	8270	62.7 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	62.7	278	1
N-Nitrosodiphenylamine	8270	64.8 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	64.8	274	1
Pentachlorophenol	8270	137 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	137	278	1
Phenanthrene	8270	57.6 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	57.6	278	1
Phenol	8270	66.8 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	66.8	1370	1
Pyrene	8270	94.6 U	07/20/2012 14:31	07/19/2012 10:00	UG/KG	94.6	278	1
2,4,6-Tribromophenol(SURR)	8270	78.6	07/20/2012 14:31	07/19/2012 10:00	%	94.6	(19 - 122)	1

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531

PROJECT ID: Landfill Fire Investigation 12-8266

Lab# : 350653101

Client ID : SS-1

Matrix : S

Collection Information:

Sample Date: 7/16/2012 2:20:00 PM

Parameter	Method	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
2-Fluorobiphenyl(SURR)	8270	60.3	07/20/2012 14:31	07/19/2012 10:00	%	94.6	(30 - 115)	1
2-Fluorophenol(SURR)	8270	62.8	07/20/2012 14:31	07/19/2012 10:00	%	94.6	(25 - 121)	1
Nitrobenzene-d5(SURR)	8270	57.6	07/20/2012 14:31	07/19/2012 10:00	%	94.6	(23 - 120)	1
Phenol-d5(SURR)	8270	61.3	07/20/2012 14:31	07/19/2012 10:00	%	94.6	(24 - 113)	1
p-Terphenyl-d14(SURR)	8270	84.4	07/20/2012 14:31	07/19/2012 10:00	%	94.6	(18 - 137)	1

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531

PROJECT ID: Landfill Fire Investigation 12-8266

Lab# : 350653102

Client ID : SS-2

Matrix : S

Collection Information:

Sample Date: 7/16/2012 2:25:00 PM

Parameter	Method	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
Arsenic	6010	**3**	07/20/2012 13:33	07/18/2012 9:23	MG/KG	0.455	0.956	1
Barium	6010	**12.8**	07/20/2012 13:33	07/18/2012 9:23	MG/KG	0.146	0.455	1
Cadmium	6010	0.23 I	07/20/2012 13:33	07/18/2012 9:23	MG/KG	0.0455	0.455	1
Chromium	6010	**8.4**	07/20/2012 13:33	07/18/2012 9:23	MG/KG	0.146	0.455	1
Lead	6010	**2.23**	07/20/2012 13:33	07/18/2012 9:23	MG/KG	0.309	0.728	1
Selenium	6010	**3.04**	07/20/2012 13:33	07/18/2012 9:23	MG/KG	0.364	1.82	1
Silver	6010	0.146 U	07/20/2012 13:33	07/18/2012 9:23	MG/KG	0.146	0.455	1
Mercury	7471	**0.0185 V**	07/18/2012 15:38	07/18/2012 9:53	MG/KG	0.00312	0.0169	1
1,2-Dichlorobenzene	8260	0.5 U	07/18/2012 13:26		UG/KG	0.5	4.4	1
1,3-Dichlorobenzene	8260	0.4 U	07/18/2012 13:26		UG/KG	0.4	4.4	1
1,4-Dichlorobenzene	8260	0.58 U	07/18/2012 13:26		UG/KG	0.58	4.4	1
Benzene	8260	0.44 U	07/18/2012 13:26		UG/KG	0.44	1.8	1
Chlorobenzene	8260	0.31 U	07/18/2012 13:26		UG/KG	0.31	1.8	1
Ethylbenzene	8260	0.61 U	07/18/2012 13:26		UG/KG	0.61	1.8	1
m,p-Xylene	8260	0.6 U	07/18/2012 13:26		UG/KG	0.6	3.6	1
Methyl tert-butyl ether	8260	0.38 U	07/18/2012 13:26		UG/KG	0.38	1.8	1
o-Xylene	8260	0.31 U	07/18/2012 13:26		UG/KG	0.31	1.8	1
Toluene	8260	0.26 U	07/18/2012 13:26		UG/KG	0.26	1.8	1
1,2-Dichloroethane-d4(SURR)	8260	112	07/18/2012 13:26		%	0.26	(71 - 124)	1
4-Bromofluorobenzene(SURR)	8260	94.6	07/18/2012 13:26		%	0.26	(54 - 126)	1
Dibromofluoromethane(SURR)	8260	104	07/18/2012 13:26		%	0.26	(68 - 119)	1
Toluene-d8(SURR)	8260	102	07/18/2012 13:26		%	0.26	(59 - 127)	1
1,2,4-Trichlorobenzene	8270	50.9 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	50.9	237	1
1,2-Dichlorobenzene	8270	50 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	50	237	1
1,3-Dichlorobenzene	8270	53.5 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	53.5	237	1
1,4-Dichlorobenzene	8270	55.3 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	55.3	237	1
1-Methylnaphthalene	8270	54.4 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	54.4	237	1
2,2'-Oxybis(1-chloropropane)	8270	193 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	193	237	1
2,4,5-Trichlorophenol	8270	64.9 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	64.9	234	1
2,4,6-Trichlorophenol	8270	59.7 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	59.7	234	1
2,4-Dichlorophenol	8270	65.8 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	65.8	234	1
2,4-Dimethylphenol	8270	50 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	50	234	1
2,4-Dinitrophenol	8270	193 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	193	1180	1
2,4-Dinitrotoluene	8270	43 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	43	237	1
2,6-Dinitrotoluene	8270	43.9 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	43.9	237	1
2-Chloronaphthalene	8270	58.5 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	58.5	237	1
2-Chlorophenol	8270	60.6 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	60.6	237	1
2-Methylnaphthalene	8270	50.9 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	50.9	237	1
2-Methylphenol	8270	84.2 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	84.2	234	1
2-Nitroaniline	8270	50 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	50	237	1
2-Nitrophenol	8270	63.2 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	63.2	237	1
3,3'-Dichlorobenzidine	8270	51.8 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	51.8	237	1
3-Nitroaniline	8270	70.2 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	70.2	234	1
4,6-Dinitro-2-methylphenol	8270	233 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	233	237	1
4-Bromophenyl-phenylether	8270	43 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	43	237	1
4-Chloro-3-methylphenol	8270	49.1 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	49.1	237	1

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531
PROJECT ID: Landfill Fire Investigation 12-8266

Lab# : 350653102
Client ID : SS-2
Matrix : S

Collection Information:
Sample Date: 7/16/2012 2:25:00 PM

Parameter	Method	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
4-Chloroaniline	8270	55.3 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	55.3	237	1
4-Chlorophenyl-phenylether	8270	44.8 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	44.8	237	1
4-Methylphenol	8270	51.8 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	51.8	237	1
4-Nitroaniline	8270	77.2 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	77.2	234	1
4-Nitrophenol	8270	46.5 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	46.5	585	1
Acenaphthene	8270	43 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	43	237	1
Acenaphthylene	8270	48.3 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	48.3	237	1
Aniline	8270	67.6 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	67.6	237	1
Anthracene	8270	52.6 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	52.6	237	1
Benzidine	8270	526 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	526	588	1
Benzo(a)anthracene	8270	50 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	50	237	1
Benzo(a)pyrene	8270	37.7 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	37.7	237	1
Benzo(b)fluoranthene	8270	55.3 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	55.3	237	1
Benzo(g,h,i)perylene	8270	35.1 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	35.1	237	1
Benzo(k)fluoranthene	8270	50 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	50	237	1
Benzoic acid	8270	326 J3 I	07/20/2012 14:55	07/19/2012 10:00	UG/KG	237	585	1
Benzyl alcohol	8270	80.7 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	80.7	585	1
Bis(2-chloroethoxy)methane	8270	50 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	50	234	1
Bis(2-chloroethyl)ether	8270	58.8 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	58.8	237	1
Bis(2-ethylhexyl)phthalate	8270	72.8 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	72.8	237	1
Butylbenzylphthalate	8270	55.3 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	55.3	237	1
Chrysene	8270	29.8 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	29.8	234	1
Dibenzo(a,h)anthracene	8270	36 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	36	237	1
Dibenzofuran	8270	47.4 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	47.4	237	1
Diethylphthalate	8270	44.8 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	44.8	237	1
Dimethylphthalate	8270	51.8 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	51.8	237	1
Di-n-butylphthalate	8270	38.6 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	38.6	237	1
Di-n-octylphthalate	8270	50.9 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	50.9	237	1
Fluoranthene	8270	42.1 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	42.1	237	1
Fluorene	8270	44.8 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	44.8	237	1
Hexachlorobenzene	8270	46.5 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	46.5	234	1
Hexachlorobutadiene	8270	50.9 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	50.9	237	1
Hexachlorocyclopentadiene	8270	35.1 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	35.1	585	1
Hexachloroethane	8270	43.9 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	43.9	237	1
Indeno(1,2,3-cd)pyrene	8270	45.6 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	45.6	237	1
Isophorone	8270	51.8 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	51.8	237	1
Naphthalene	8270	56.2 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	56.2	237	1
Nitrobenzene	8270	52.6 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	52.6	237	1
N-Nitrosodimethylamine	8270	62.3 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	62.3	234	1
N-Nitroso-di-n-propylamine	8270	53.5 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	53.5	237	1
N-Nitrosodiphenylamine	8270	55.3 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	55.3	234	1
Pentachlorophenol	8270	117 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	117	237	1
Phenanthrene	8270	49.1 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	49.1	237	1
Phenol	8270	826 I	07/20/2012 14:55	07/19/2012 10:00	UG/KG	57	1170	1
Pyrene	8270	80.7 U	07/20/2012 14:55	07/19/2012 10:00	UG/KG	80.7	237	1
2,4,6-Tribromophenol(SURR)	8270	69.2	07/20/2012 14:55	07/19/2012 10:00	%	80.7	(19 - 122)	1

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531
PROJECT ID: Landfill Fire Investigation 12-8266

Lab# : 350653102
Client ID : SS-2
Matrix : S

Collection Information:
Sample Date: 7/16/2012 2:25:00 PM

Parameter	Method	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
2-Fluorobiphenyl(SURR)	8270	56.6	07/20/2012 14:55	07/19/2012 10:00	%	80.7	(30 - 115)	1
2-Fluorophenol(SURR)	8270	61.7	07/20/2012 14:55	07/19/2012 10:00	%	80.7	(25 - 121)	1
Nitrobenzene-d5(SURR)	8270	52.5	07/20/2012 14:55	07/19/2012 10:00	%	80.7	(23 - 120)	1
Phenol-d5(SURR)	8270	58.5	07/20/2012 14:55	07/19/2012 10:00	%	80.7	(24 - 113)	1
p-Terphenyl-d14(SURR)	8270	76.7	07/20/2012 14:55	07/19/2012 10:00	%	80.7	(18 - 137)	1

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531

PROJECT ID: Landfill Fire Investigation 12-8266

Lab# : 350653103

Client ID : SS-3

Matrix : S

Collection Information:

Sample Date: 7/16/2012 2:32:00 PM

Parameter	Method	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
Arsenic	6010	**2.94**	07/20/2012 13:38	07/18/2012 9:23	MG/KG	0.549	1.15	1
Barium	6010	**15.6**	07/20/2012 13:38	07/18/2012 9:23	MG/KG	0.176	0.549	1
Cadmium	6010	0.231 I	07/20/2012 13:38	07/18/2012 9:23	MG/KG	0.0549	0.549	1
Chromium	6010	**10.4**	07/20/2012 13:38	07/18/2012 9:23	MG/KG	0.176	0.549	1
Lead	6010	**3.04**	07/20/2012 13:38	07/18/2012 9:23	MG/KG	0.374	0.879	1
Selenium	6010	0.98 I	07/20/2012 13:38	07/18/2012 9:23	MG/KG	0.44	2.2	1
Silver	6010	0.176 U	07/20/2012 13:38	07/18/2012 9:23	MG/KG	0.176	0.549	1
Mercury	7471	0.0174 V I	07/18/2012 15:40	07/18/2012 9:53	MG/KG	0.00371	0.0201	1
1,2-Dichlorobenzene	8260	0.64 U	07/18/2012 14:02		UG/KG	0.64	5.7	1
1,3-Dichlorobenzene	8260	0.51 U	07/18/2012 14:02		UG/KG	0.51	5.7	1
1,4-Dichlorobenzene	8260	0.74 U	07/18/2012 14:02		UG/KG	0.74	5.7	1
Benzene	8260	0.57 U	07/18/2012 14:02		UG/KG	0.57	2.3	1
Chlorobenzene	8260	0.4 U	07/18/2012 14:02		UG/KG	0.4	2.3	1
Ethylbenzene	8260	0.78 U	07/18/2012 14:02		UG/KG	0.78	2.3	1
m,p-Xylene	8260	0.77 U	07/18/2012 14:02		UG/KG	0.77	4.5	1
Methyl tert-butyl ether	8260	0.49 U	07/18/2012 14:02		UG/KG	0.49	2.3	1
o-Xylene	8260	0.4 U	07/18/2012 14:02		UG/KG	0.4	2.3	1
Toluene	8260	0.33 U	07/18/2012 14:02		UG/KG	0.33	2.3	1
1,2-Dichloroethane-d4(SURR)	8260	104	07/18/2012 14:02		%	0.33	(71 - 124)	1
4-Bromofluorobenzene(SURR)	8260	93	07/18/2012 14:02		%	0.33	(54 - 126)	1
Dibromofluoromethane(SURR)	8260	102	07/18/2012 14:02		%	0.33	(68 - 119)	1
Toluene-d8(SURR)	8260	101	07/18/2012 14:02		%	0.33	(59 - 127)	1
1,2,4-Trichlorobenzene	8270	53.4 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	53.4	248	1
1,2-Dichlorobenzene	8270	52.4 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	52.4	248	1
1,3-Dichlorobenzene	8270	56.1 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	56.1	248	1
1,4-Dichlorobenzene	8270	58 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	58	248	1
1-Methylnaphthalene	8270	57 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	57	248	1
2,2'-Oxybis(1-chloropropane)	8270	202 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	202	248	1
2,4,5-Trichlorophenol	8270	68.1 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	68.1	246	1
2,4,6-Trichlorophenol	8270	62.6 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	62.6	246	1
2,4-Dichlorophenol	8270	69 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	69	246	1
2,4-Dimethylphenol	8270	52.4 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	52.4	246	1
2,4-Dinitrophenol	8270	202 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	202	1230	1
2,4-Dinitrotoluene	8270	45.1 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	45.1	248	1
2,6-Dinitrotoluene	8270	46 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	46	248	1
2-Chloronaphthalene	8270	61.4 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	61.4	248	1
2-Chlorophenol	8270	63.5 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	63.5	248	1
2-Methylnaphthalene	8270	53.4 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	53.4	248	1
2-Methylphenol	8270	88.3 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	88.3	246	1
2-Nitroaniline	8270	52.4 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	52.4	248	1
2-Nitrophenol	8270	66.2 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	66.2	248	1
3,3'-Dichlorobenzidine	8270	54.3 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	54.3	248	1
3-Nitroaniline	8270	73.6 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	73.6	246	1
4,6-Dinitro-2-methylphenol	8270	245 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	245	248	1
4-Bromophenyl-phenylether	8270	45.1 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	45.1	248	1
4-Chloro-3-methylphenol	8270	51.5 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	51.5	248	1

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531

PROJECT ID: Landfill Fire Investigation 12-8266

Lab# : 350653103

Client ID : SS-3

Matrix : S

Collection Information:

Sample Date: 7/16/2012 2:32:00 PM

Parameter	Method	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
4-Chloroaniline	8270	58 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	58	248	1
4-Chlorophenyl-phenylether	8270	46.9 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	46.9	248	1
4-Methylphenol	8270	54.3 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	54.3	248	1
4-Nitroaniline	8270	81 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	81	246	1
4-Nitrophenol	8270	48.8 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	48.8	614	1
Acenaphthene	8270	45.1 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	45.1	248	1
Acenaphthylene	8270	50.6 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	50.6	248	1
Aniline	8270	70.8 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	70.8	248	1
Anthracene	8270	55.2 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	55.2	248	1
Benzidine	8270	552 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	552	616	1
Benzo(a)anthracene	8270	52.4 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	52.4	248	1
Benzo(a)pyrene	8270	39.6 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	39.6	248	1
Benzo(b)fluoranthene	8270	58 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	58	248	1
Benzo(g,h,i)perylene	8270	36.8 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	36.8	248	1
Benzo(k)fluoranthene	8270	52.4 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	52.4	248	1
Benzoic acid	8270	248 J3U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	248	614	1
Benzyl alcohol	8270	84.6 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	84.6	614	1
Bis(2-chloroethoxy)methane	8270	52.4 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	52.4	246	1
Bis(2-chloroethyl)ether	8270	61.6 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	61.6	248	1
Bis(2-ethylhexyl)phthalate	8270	76.4 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	76.4	248	1
Butylbenzylphthalate	8270	58 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	58	248	1
Chrysene	8270	31.3 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	31.3	246	1
Dibenzo(a,h)anthracene	8270	37.7 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	37.7	248	1
Dibenzofuran	8270	49.7 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	49.7	248	1
Diethylphthalate	8270	46.9 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	46.9	248	1
Dimethylphthalate	8270	54.3 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	54.3	248	1
Di-n-butylphthalate	8270	40.5 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	40.5	248	1
Di-n-octylphthalate	8270	53.4 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	53.4	248	1
Fluoranthene	8270	44.2 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	44.2	248	1
Fluorene	8270	46.9 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	46.9	248	1
Hexachlorobenzene	8270	48.8 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	48.8	246	1
Hexachlorobutadiene	8270	53.4 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	53.4	248	1
Hexachlorocyclopentadiene	8270	36.8 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	36.8	614	1
Hexachloroethane	8270	46 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	46	248	1
Indeno(1,2,3-cd)pyrene	8270	47.8 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	47.8	248	1
Isophorone	8270	54.3 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	54.3	248	1
Naphthalene	8270	58.9 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	58.9	248	1
Nitrobenzene	8270	55.2 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	55.2	248	1
N-Nitrosodimethylamine	8270	65.3 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	65.3	246	1
N-Nitroso-di-n-propylamine	8270	56.1 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	56.1	248	1
N-Nitrosodiphenylamine	8270	58 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	58	246	1
Pentachlorophenol	8270	122 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	122	248	1
Phenanthrene	8270	51.5 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	51.5	248	1
Phenol	8270	59.8 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	59.8	1230	1
Pyrene	8270	84.6 U	07/20/2012 15:19	07/19/2012 10:00	UG/KG	84.6	248	1
2,4,6-Tribromophenol(SURR)	8270	69.3	07/20/2012 15:19	07/19/2012 10:00	%	84.6	(19 - 122)	1

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531

PROJECT ID: Landfill Fire Investigation 12-8266

Lab# : 350653103

Client ID : SS-3

Matrix : S

Collection Information:

Sample Date: 7/16/2012 2:32:00 PM

Parameter	Method	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
2-Fluorobiphenyl(SURR)	8270	58.3	07/20/2012 15:19	07/19/2012 10:00	%	84.6	(30 - 115)	1
2-Fluorophenol(SURR)	8270	65.4	07/20/2012 15:19	07/19/2012 10:00	%	84.6	(25 - 121)	1
Nitrobenzene-d5(SURR)	8270	57.4	07/20/2012 15:19	07/19/2012 10:00	%	84.6	(23 - 120)	1
Phenol-d5(SURR)	8270	62.8	07/20/2012 15:19	07/19/2012 10:00	%	84.6	(24 - 113)	1
p-Terphenyl-d14(SURR)	8270	80	07/20/2012 15:19	07/19/2012 10:00	%	84.6	(18 - 137)	1

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531

PROJECT ID: Landfill Fire Investigation 12-8266

Lab# : 350653104

Client ID : SS-4

Matrix : S

Collection Information:

Sample Date: 7/16/2012 2:40:00 PM

Parameter	Method	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
Arsenic	6010	**9.15**	07/20/2012 13:43	07/18/2012 9:23	MG/KG	0.382	0.803	1
Barium	6010	**24.1**	07/20/2012 13:43	07/18/2012 9:23	MG/KG	0.122	0.382	1
Cadmium	6010	**0.552**	07/20/2012 13:43	07/18/2012 9:23	MG/KG	0.0382	0.382	1
Chromium	6010	**29.9**	07/20/2012 13:43	07/18/2012 9:23	MG/KG	0.122	0.382	1
Lead	6010	**3.72**	07/20/2012 13:43	07/18/2012 9:23	MG/KG	0.26	0.612	1
Selenium	6010	**5.64**	07/20/2012 13:43	07/18/2012 9:23	MG/KG	0.306	1.53	1
Silver	6010	0.122 U	07/20/2012 13:43	07/18/2012 9:23	MG/KG	0.122	0.382	1
Mercury	7471	**0.0173 V**	07/18/2012 15:42	07/18/2012 9:53	MG/KG	0.00302	0.0163	1
1,2-Dichlorobenzene	8260	0.49 U	07/18/2012 14:36		UG/KG	0.49	4.4	1
1,3-Dichlorobenzene	8260	0.4 U	07/18/2012 14:36		UG/KG	0.4	4.4	1
1,4-Dichlorobenzene	8260	0.57 U	07/18/2012 14:36		UG/KG	0.57	4.4	1
Benzene	8260	0.44 U	07/18/2012 14:36		UG/KG	0.44	1.8	1
Chlorobenzene	8260	0.31 U	07/18/2012 14:36		UG/KG	0.31	1.8	1
Ethylbenzene	8260	0.61 U	07/18/2012 14:36		UG/KG	0.61	1.8	1
m,p-Xylene	8260	0.6 U	07/18/2012 14:36		UG/KG	0.6	3.5	1
Methyl tert-butyl ether	8260	0.38 U	07/18/2012 14:36		UG/KG	0.38	1.8	1
o-Xylene	8260	0.31 U	07/18/2012 14:36		UG/KG	0.31	1.8	1
Toluene	8260	0.26 U	07/18/2012 14:36		UG/KG	0.26	1.8	1
1,2-Dichloroethane-d4(SURR)	8260	103	07/18/2012 14:36		%	0.26	(71 - 124)	1
4-Bromofluorobenzene(SURR)	8260	96.4	07/18/2012 14:36		%	0.26	(54 - 126)	1
Dibromofluoromethane(SURR)	8260	102	07/18/2012 14:36		%	0.26	(68 - 119)	1
Toluene-d8(SURR)	8260	99.8	07/18/2012 14:36		%	0.26	(59 - 127)	1
1,2,4-Trichlorobenzene	8270	53 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	53	247	1
1,2-Dichlorobenzene	8270	52.1 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	52.1	247	1
1,3-Dichlorobenzene	8270	55.7 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	55.7	247	1
1,4-Dichlorobenzene	8270	57.6 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	57.6	247	1
1-Methylnaphthalene	8270	56.6 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	56.6	247	1
2,2'-Oxybis(1-chloropropane)	8270	201 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	201	247	1
2,4,5-Trichlorophenol	8270	67.6 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	67.6	244	1
2,4,6-Trichlorophenol	8270	62.1 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	62.1	244	1
2,4-Dichlorophenol	8270	68.5 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	68.5	244	1
2,4-Dimethylphenol	8270	52.1 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	52.1	244	1
2,4-Dinitrophenol	8270	201 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	201	1220	1
2,4-Dinitrotoluene	8270	44.8 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	44.8	247	1
2,6-Dinitrotoluene	8270	45.7 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	45.7	247	1
2-Chloronaphthalene	8270	61 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	61	247	1
2-Chlorophenol	8270	63 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	63	247	1
2-Methylnaphthalene	8270	53 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	53	247	1
2-Methylphenol	8270	87.7 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	87.7	244	1
2-Nitroaniline	8270	52.1 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	52.1	247	1
2-Nitrophenol	8270	65.8 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	65.8	247	1
3,3'-Dichlorobenzidine	8270	53.9 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	53.9	247	1
3-Nitroaniline	8270	73.1 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	73.1	244	1
4,6-Dinitro-2-methylphenol	8270	243 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	243	247	1
4-Bromophenyl-phenylether	8270	44.8 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	44.8	247	1
4-Chloro-3-methylphenol	8270	51.2 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	51.2	247	1

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531

PROJECT ID: Landfill Fire Investigation 12-8266

Lab# : 350653104

Client ID : SS-4

Matrix : S

Collection Information:

Sample Date: 7/16/2012 2:40:00 PM

Parameter	Method	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
4-Chloroaniline	8270	57.6 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	57.6	247	1
4-Chlorophenyl-phenylether	8270	46.6 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	46.6	247	1
4-Methylphenol	8270	53.9 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	53.9	247	1
4-Nitroaniline	8270	80.4 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	80.4	244	1
4-Nitrophenol	8270	48.4 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	48.4	610	1
Acenaphthene	8270	44.8 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	44.8	247	1
Acenaphthylene	8270	50.2 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	50.2	247	1
Aniline	8270	70.4 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	70.4	247	1
Anthracene	8270	54.8 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	54.8	247	1
Benzidine	8270	548 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	548	612	1
Benzo(a)anthracene	8270	52.1 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	52.1	247	1
Benzo(a)pyrene	8270	39.3 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	39.3	247	1
Benzo(b)fluoranthene	8270	57.6 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	57.6	247	1
Benzo(g,h,i)perylene	8270	36.6 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	36.6	247	1
Benzo(k)fluoranthene	8270	52.1 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	52.1	247	1
Benzoic acid	8270	247 J3U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	247	610	1
Benzyl alcohol	8270	84.1 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	84.1	610	1
Bis(2-chloroethoxy)methane	8270	52.1 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	52.1	244	1
Bis(2-chloroethyl)ether	8270	61.2 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	61.2	247	1
Bis(2-ethylhexyl)phthalate	8270	75.8 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	75.8	247	1
Butylbenzylphthalate	8270	57.6 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	57.6	247	1
Chrysene	8270	31.1 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	31.1	244	1
Dibenzo(a,h)anthracene	8270	37.5 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	37.5	247	1
Dibenzofuran	8270	49.3 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	49.3	247	1
Diethylphthalate	8270	46.6 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	46.6	247	1
Dimethylphthalate	8270	53.9 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	53.9	247	1
Di-n-butylphthalate	8270	40.2 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	40.2	247	1
Di-n-octylphthalate	8270	53 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	53	247	1
Fluoranthene	8270	43.9 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	43.9	247	1
Fluorene	8270	46.6 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	46.6	247	1
Hexachlorobenzene	8270	48.4 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	48.4	244	1
Hexachlorobutadiene	8270	53 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	53	247	1
Hexachlorocyclopentadiene	8270	36.6 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	36.6	610	1
Hexachloroethane	8270	45.7 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	45.7	247	1
Indeno(1,2,3-cd)pyrene	8270	47.5 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	47.5	247	1
Isophorone	8270	53.9 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	53.9	247	1
Naphthalene	8270	58.5 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	58.5	247	1
Nitrobenzene	8270	54.8 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	54.8	247	1
N-Nitrosodimethylamine	8270	64.9 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	64.9	244	1
N-Nitroso-di-n-propylamine	8270	55.7 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	55.7	247	1
N-Nitrosodiphenylamine	8270	57.6 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	57.6	244	1
Pentachlorophenol	8270	122 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	122	247	1
Phenanthrene	8270	51.2 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	51.2	247	1
Phenol	8270	59.4 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	59.4	1220	1
Pyrene	8270	84.1 U	07/20/2012 15:43	07/19/2012 10:00	UG/KG	84.1	247	1
2,4,6-Tribromophenol(SURR)	8270	61.1	07/20/2012 15:43	07/19/2012 10:00	%	84.1	(19 - 122)	1

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531
PROJECT ID: Landfill Fire Investigation 12-8266

Lab# : 350653104
Client ID : SS-4
Matrix : S

Collection Information:
Sample Date: 7/16/2012 2:40:00 PM

Parameter	Method	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
2-Fluorobiphenyl(SURR)	8270	46.5	07/20/2012 15:43	07/19/2012 10:00	%	84.1	(30 - 115)	1
2-Fluorophenol(SURR)	8270	47.3	07/20/2012 15:43	07/19/2012 10:00	%	84.1	(25 - 121)	1
Nitrobenzene-d5(SURR)	8270	41.7	07/20/2012 15:43	07/19/2012 10:00	%	84.1	(23 - 120)	1
Phenol-d5(SURR)	8270	45.3	07/20/2012 15:43	07/19/2012 10:00	%	84.1	(24 - 113)	1
p-Terphenyl-d14(SURR)	8270	74.6	07/20/2012 15:43	07/19/2012 10:00	%	84.1	(18 - 137)	1

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531

PROJECT ID: Landfill Fire Investigation 12-8266

Lab# : 350653105

Client ID : SS-5

Matrix : S

Collection Information:

Sample Date: 7/16/2012 2:47:00 PM

Parameter	Method	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
Arsenic	6010	**2.97**	07/20/2012 13:49	07/18/2012 9:23	MG/KG	0.485	1.02	1
Barium	6010	**13**	07/20/2012 13:49	07/18/2012 9:23	MG/KG	0.155	0.485	1
Cadmium	6010	0.283 I	07/20/2012 13:49	07/18/2012 9:23	MG/KG	0.0485	0.485	1
Chromium	6010	**13**	07/20/2012 13:49	07/18/2012 9:23	MG/KG	0.155	0.485	1
Lead	6010	**2.41**	07/20/2012 13:49	07/18/2012 9:23	MG/KG	0.33	0.777	1
Selenium	6010	**2.54**	07/20/2012 13:49	07/18/2012 9:23	MG/KG	0.388	1.94	1
Silver	6010	0.155 U	07/20/2012 13:49	07/18/2012 9:23	MG/KG	0.155	0.485	1
Mercury	7471	**0.0176 V**	07/18/2012 15:44	07/18/2012 9:53	MG/KG	0.00269	0.0145	1
1,2-Dichlorobenzene	8260	0.7 U	07/18/2012 16:21		UG/KG	0.7	6.2	1
1,3-Dichlorobenzene	8260	0.56 U	07/18/2012 16:21		UG/KG	0.56	6.2	1
1,4-Dichlorobenzene	8260	0.81 U	07/18/2012 16:21		UG/KG	0.81	6.2	1
Benzene	8260	0.62 U	07/18/2012 16:21		UG/KG	0.62	2.5	1
Chlorobenzene	8260	0.44 U	07/18/2012 16:21		UG/KG	0.44	2.5	1
Ethylbenzene	8260	0.86 U	07/18/2012 16:21		UG/KG	0.86	2.5	1
m,p-Xylene	8260	0.85 U	07/18/2012 16:21		UG/KG	0.85	5	1
Methyl tert-butyl ether	8260	0.54 U	07/18/2012 16:21		UG/KG	0.54	2.5	1
o-Xylene	8260	0.44 U	07/18/2012 16:21		UG/KG	0.44	2.5	1
Toluene	8260	0.36 U	07/18/2012 16:21		UG/KG	0.36	2.5	1
1,2-Dichloroethane-d4(SURR)	8260	103	07/18/2012 16:21		%	0.36	(71 - 124)	1
4-Bromofluorobenzene(SURR)	8260	95.2	07/18/2012 16:21		%	0.36	(54 - 126)	1
Dibromofluoromethane(SURR)	8260	105	07/18/2012 16:21		%	0.36	(68 - 119)	1
Toluene-d8(SURR)	8260	104	07/18/2012 16:21		%	0.36	(59 - 127)	1
1,2,4-Trichlorobenzene	8270	57.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	57.4	267	1
1,2-Dichlorobenzene	8270	56.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	56.4	267	1
1,3-Dichlorobenzene	8270	60.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	60.4	267	1
1,4-Dichlorobenzene	8270	62.3 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	62.3	267	1
1-Methylnaphthalene	8270	61.3 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	61.3	267	1
2,2'-Oxybis(1-chloropropane)	8270	218 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	218	267	1
2,4,5-Trichlorophenol	8270	73.2 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	73.2	264	1
2,4,6-Trichlorophenol	8270	67.3 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	67.3	264	1
2,4-Dichlorophenol	8270	74.2 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	74.2	264	1
2,4-Dimethylphenol	8270	56.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	56.4	264	1
2,4-Dinitrophenol	8270	218 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	218	1320	1
2,4-Dinitrotoluene	8270	48.5 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	48.5	267	1
2,6-Dinitrotoluene	8270	49.5 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	49.5	267	1
2-Chloronaphthalene	8270	66 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	66	267	1
2-Chlorophenol	8270	68.3 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	68.3	267	1
2-Methylnaphthalene	8270	57.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	57.4	267	1
2-Methylphenol	8270	95 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	95	264	1
2-Nitroaniline	8270	56.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	56.4	267	1
2-Nitrophenol	8270	71.2 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	71.2	267	1
3,3'-Dichlorobenzidine	8270	58.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	58.4	267	1
3-Nitroaniline	8270	79.2 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	79.2	264	1
4,6-Dinitro-2-methylphenol	8270	263 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	263	267	1
4-Bromophenyl-phenylether	8270	48.5 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	48.5	267	1
4-Chloro-3-methylphenol	8270	55.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	55.4	267	1

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531

PROJECT ID: Landfill Fire Investigation 12-8266

Lab# : 350653105

Client ID : SS-5

Matrix : S

Collection Information:

Sample Date: 7/16/2012 2:47:00 PM

Parameter	Method	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
4-Chloroaniline	8270	62.3 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	62.3	267	1
4-Chlorophenyl-phenylether	8270	50.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	50.4	267	1
4-Methylphenol	8270	58.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	58.4	267	1
4-Nitroaniline	8270	87.1 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	87.1	264	1
4-Nitrophenol	8270	52.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	52.4	660	1
Acenaphthene	8270	48.5 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	48.5	267	1
Acenaphthylene	8270	54.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	54.4	267	1
Aniline	8270	76.2 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	76.2	267	1
Anthracene	8270	59.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	59.4	267	1
Benzidine	8270	594 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	594	663	1
Benzo(a)anthracene	8270	56.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	56.4	267	1
Benzo(a)pyrene	8270	42.5 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	42.5	267	1
Benzo(b)fluoranthene	8270	62.3 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	62.3	267	1
Benzo(g,h,i)perylene	8270	39.6 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	39.6	267	1
Benzo(k)fluoranthene	8270	56.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	56.4	267	1
Benzoic acid	8270	267 J3U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	267	660	1
Benzyl alcohol	8270	91 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	91	660	1
Bis(2-chloroethoxy)methane	8270	56.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	56.4	264	1
Bis(2-chloroethyl)ether	8270	66.3 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	66.3	267	1
Bis(2-ethylhexyl)phthalate	8270	82.1 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	82.1	267	1
Butylbenzylphthalate	8270	62.3 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	62.3	267	1
Chrysene	8270	33.6 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	33.6	264	1
Dibenzo(a,h)anthracene	8270	40.6 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	40.6	267	1
Dibenzofuran	8270	53.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	53.4	267	1
Diethylphthalate	8270	50.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	50.4	267	1
Dimethylphthalate	8270	58.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	58.4	267	1
Di-n-butylphthalate	8270	43.5 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	43.5	267	1
Di-n-octylphthalate	8270	57.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	57.4	267	1
Fluoranthene	8270	47.5 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	47.5	267	1
Fluorene	8270	50.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	50.4	267	1
Hexachlorobenzene	8270	52.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	52.4	264	1
Hexachlorobutadiene	8270	57.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	57.4	267	1
Hexachlorocyclopentadiene	8270	39.6 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	39.6	660	1
Hexachloroethane	8270	49.5 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	49.5	267	1
Indeno(1,2,3-cd)pyrene	8270	51.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	51.4	267	1
Isophorone	8270	58.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	58.4	267	1
Naphthalene	8270	63.3 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	63.3	267	1
Nitrobenzene	8270	59.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	59.4	267	1
N-Nitrosodimethylamine	8270	70.2 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	70.2	264	1
N-Nitroso-di-n-propylamine	8270	60.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	60.4	267	1
N-Nitrosodiphenylamine	8270	62.3 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	62.3	264	1
Pentachlorophenol	8270	132 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	132	267	1
Phenanthrene	8270	55.4 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	55.4	267	1
Phenol	8270	64.3 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	64.3	1320	1
Pyrene	8270	91 U	07/20/2012 16:07	07/19/2012 10:00	UG/KG	91	267	1
2,4,6-Tribromophenol(SURR)	8270	67.7	07/20/2012 16:07	07/19/2012 10:00	%	91	(19 - 122)	1

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531
PROJECT ID: Landfill Fire Investigation 12-8266

Lab# : 350653105
Client ID : SS-5
Matrix : S

Collection Information:
Sample Date: 7/16/2012 2:47:00 PM

Parameter	Method	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
2-Fluorobiphenyl(SURR)	8270	45.3	07/20/2012 16:07	07/19/2012 10:00	%	91	(30 - 115)	1
2-Fluorophenol(SURR)	8270	54.9	07/20/2012 16:07	07/19/2012 10:00	%	91	(25 - 121)	1
Nitrobenzene-d5(SURR)	8270	46.2	07/20/2012 16:07	07/19/2012 10:00	%	91	(23 - 120)	1
Phenol-d5(SURR)	8270	52.9	07/20/2012 16:07	07/19/2012 10:00	%	91	(24 - 113)	1
p-Terphenyl-d14(SURR)	8270	79.8	07/20/2012 16:07	07/19/2012 10:00	%	91	(18 - 137)	1

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531

PROJECT ID: Landfill Fire Investigation 12-8266

Lab# : 350653106

Client ID : SS-6

Matrix : S

Collection Information:

Sample Date: 7/16/2012 2:58:00 PM

Parameter	Method	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
Arsenic	6010	**2.44**	07/20/2012 13:54	07/18/2012 9:23	MG/KG	0.417	0.876	1
Barium	6010	**15.3**	07/20/2012 13:54	07/18/2012 9:23	MG/KG	0.134	0.417	1
Cadmium	6010	0.339 I	07/20/2012 13:54	07/18/2012 9:23	MG/KG	0.0417	0.417	1
Chromium	6010	**15.9**	07/20/2012 13:54	07/18/2012 9:23	MG/KG	0.134	0.417	1
Lead	6010	**3.13**	07/20/2012 13:54	07/18/2012 9:23	MG/KG	0.284	0.668	1
Selenium	6010	0.334 U	07/20/2012 13:54	07/18/2012 9:23	MG/KG	0.334	1.67	1
Silver	6010	0.134 U	07/20/2012 13:54	07/18/2012 9:23	MG/KG	0.134	0.417	1
Mercury	7471	**0.016 V**	07/18/2012 15:49	07/18/2012 9:53	MG/KG	0.00265	0.0143	1
1,2-Dichlorobenzene	8260	0.74 U	07/19/2012 14:36		UG/KG	0.74	6.6	1
1,3-Dichlorobenzene	8260	0.6 U	07/19/2012 14:36		UG/KG	0.6	6.6	1
1,4-Dichlorobenzene	8260	0.86 J3U	07/19/2012 14:36		UG/KG	0.86	6.6	1
Benzene	8260	0.66 U	07/19/2012 14:36		UG/KG	0.66	2.7	1
Chlorobenzene	8260	0.46 J3U	07/19/2012 14:36		UG/KG	0.46	2.7	1
Ethylbenzene	8260	0.92 U	07/19/2012 14:36		UG/KG	0.92	2.7	1
m,p-Xylene	8260	0.9 U	07/19/2012 14:36		UG/KG	0.9	5.3	1
Methyl tert-butyl ether	8260	0.57 U	07/19/2012 14:36		UG/KG	0.57	2.7	1
o-Xylene	8260	0.46 U	07/19/2012 14:36		UG/KG	0.46	2.7	1
Toluene	8260	0.38 U	07/19/2012 14:36		UG/KG	0.38	2.7	1
1,2-Dichloroethane-d4(SURR)	8260	97.4	07/19/2012 14:36		%	0.38	(71 - 124)	1
4-Bromofluorobenzene(SURR)	8260	82.8	07/19/2012 14:36		%	0.38	(54 - 126)	1
Dibromofluoromethane(SURR)	8260	91.6	07/19/2012 14:36		%	0.38	(68 - 119)	1
Toluene-d8(SURR)	8260	90.4	07/19/2012 14:36		%	0.38	(59 - 127)	1
1,2,4-Trichlorobenzene	8270	55 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	55	256	1
1,2-Dichlorobenzene	8270	54.1 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	54.1	256	1
1,3-Dichlorobenzene	8270	57.8 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	57.8	256	1
1,4-Dichlorobenzene	8270	59.8 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	59.8	256	1
1-Methylnaphthalene	8270	58.8 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	58.8	256	1
2,2'-Oxybis(1-chloropropane)	8270	209 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	209	256	1
2,4,5-Trichlorophenol	8270	70.2 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	70.2	253	1
2,4,6-Trichlorophenol	8270	64.5 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	64.5	253	1
2,4-Dichlorophenol	8270	71.1 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	71.1	253	1
2,4-Dimethylphenol	8270	54.1 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	54.1	253	1
2,4-Dinitrophenol	8270	209 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	209	1270	1
2,4-Dinitrotoluene	8270	46.5 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	46.5	256	1
2,6-Dinitrotoluene	8270	47.4 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	47.4	256	1
2-Chloronaphthalene	8270	63.3 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	63.3	256	1
2-Chlorophenol	8270	65.4 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	65.4	256	1
2-Methylnaphthalene	8270	55 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	55	256	1
2-Methylphenol	8270	91 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	91	253	1
2-Nitroaniline	8270	54.1 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	54.1	256	1
2-Nitrophenol	8270	68.3 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	68.3	256	1
3,3'-Dichlorobenzidine	8270	56 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	56	256	1
3-Nitroaniline	8270	75.9 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	75.9	253	1
4,6-Dinitro-2-methylphenol	8270	252 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	252	256	1
4-Bromophenyl-phenylether	8270	46.5 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	46.5	256	1
4-Chloro-3-methylphenol	8270	53.1 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	53.1	256	1

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531

PROJECT ID: Landfill Fire Investigation 12-8266

Lab# : 350653106

Client ID : SS-6

Matrix : S

Collection Information:

Sample Date: 7/16/2012 2:58:00 PM

Parameter	Method	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
4-Chloroaniline	8270	59.8 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	59.8	256	1
4-Chlorophenyl-phenylether	8270	48.4 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	48.4	256	1
4-Methylphenol	8270	56 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	56	256	1
4-Nitroaniline	8270	83.5 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	83.5	253	1
4-Nitrophenol	8270	50.3 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	50.3	633	1
Acenaphthene	8270	46.5 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	46.5	256	1
Acenaphthylene	8270	52.2 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	52.2	256	1
Aniline	8270	73 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	73	256	1
Anthracene	8270	56.9 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	56.9	256	1
Benzidine	8270	569 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	569	635	1
Benzo(a)anthracene	8270	54.1 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	54.1	256	1
Benzo(a)pyrene	8270	40.8 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	40.8	256	1
Benzo(b)fluoranthene	8270	59.8 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	59.8	256	1
Benzo(g,h,i)perylene	8270	37.9 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	37.9	256	1
Benzo(k)fluoranthene	8270	54.1 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	54.1	256	1
Benzoic acid	8270	256 J3U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	256	633	1
Benzyl alcohol	8270	87.3 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	87.3	633	1
Bis(2-chloroethoxy)methane	8270	54.1 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	54.1	253	1
Bis(2-chloroethyl)ether	8270	63.5 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	63.5	256	1
Bis(2-ethylhexyl)phthalate	8270	78.7 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	78.7	256	1
Butylbenzylphthalate	8270	59.8 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	59.8	256	1
Chrysene	8270	32.2 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	32.2	253	1
Dibenzo(a,h)anthracene	8270	38.9 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	38.9	256	1
Dibenzofuran	8270	51.2 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	51.2	256	1
Diethylphthalate	8270	48.4 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	48.4	256	1
Dimethylphthalate	8270	56 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	56	256	1
Di-n-butylphthalate	8270	41.7 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	41.7	256	1
Di-n-octylphthalate	8270	55 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	55	256	1
Fluoranthene	8270	45.5 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	45.5	256	1
Fluorene	8270	48.4 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	48.4	256	1
Hexachlorobenzene	8270	50.3 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	50.3	253	1
Hexachlorobutadiene	8270	55 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	55	256	1
Hexachlorocyclopentadiene	8270	37.9 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	37.9	633	1
Hexachloroethane	8270	47.4 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	47.4	256	1
Indeno(1,2,3-cd)pyrene	8270	49.3 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	49.3	256	1
Isophorone	8270	56 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	56	256	1
Naphthalene	8270	60.7 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	60.7	256	1
Nitrobenzene	8270	56.9 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	56.9	256	1
N-Nitrosodimethylamine	8270	67.3 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	67.3	253	1
N-Nitroso-di-n-propylamine	8270	57.8 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	57.8	256	1
N-Nitrosodiphenylamine	8270	59.8 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	59.8	253	1
Pentachlorophenol	8270	126 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	126	256	1
Phenanthrene	8270	53.1 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	53.1	256	1
Phenol	8270	61.6 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	61.6	1260	1
Pyrene	8270	87.3 U	07/20/2012 16:31	07/19/2012 10:00	UG/KG	87.3	256	1
2,4,6-Tribromophenol(SURR)	8270	72.6	07/20/2012 16:31	07/19/2012 10:00	%	87.3	(19 - 122)	1

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531

PROJECT ID: Landfill Fire Investigation 12-8266

Lab# : 350653106

Client ID : SS-6

Matrix : S

Collection Information:

Sample Date: 7/16/2012 2:58:00 PM

Parameter	Method	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
2-Fluorobiphenyl(SURR)	8270	53.6	07/20/2012 16:31	07/19/2012 10:00	%	87.3	(30 - 115)	1
2-Fluorophenol(SURR)	8270	66.2	07/20/2012 16:31	07/19/2012 10:00	%	87.3	(25 - 121)	1
Nitrobenzene-d5(SURR)	8270	52.3	07/20/2012 16:31	07/19/2012 10:00	%	87.3	(23 - 120)	1
Phenol-d5(SURR)	8270	63.9	07/20/2012 16:31	07/19/2012 10:00	%	87.3	(24 - 113)	1
p-Terphenyl-d14(SURR)	8270	82.7	07/20/2012 16:31	07/19/2012 10:00	%	87.3	(18 - 137)	1

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531

PROJECT ID: Landfill Fire Investigation 12-8266

QC SUMMARY

METHOD: 6010

Method Blank : 137941MB

Matrix : SQ

Associated Lab Samples : 137941MB 137942LCS 137943LCSD 350653101 350653102 350653103 350653104 350653105 350653106

Parameter	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
Arsenic	U	7/20/2012	7/18/2012	MG/KG	0.5	1.05	1
Barium	U	7/20/2012	7/18/2012	MG/KG	0.16	0.5	1
Cadmium	U	7/20/2012	7/18/2012	MG/KG	0.05	0.5	1
Chromium	U	7/20/2012	7/18/2012	MG/KG	0.16	0.5	1
Lead	U	7/20/2012	7/18/2012	MG/KG	0.34	0.8	1
Selenium	U	7/20/2012	7/18/2012	MG/KG	0.4	2	1
Silver	U	7/20/2012	7/18/2012	MG/KG	0.16	0.5	1

LABORATORY CONTROL SAMPLE: 137942LCS Matrix : SQ

PARAMETER	UNITS	SPIKE CONC	LCS RESULT	SPIKE % REC	% REC LIMITS	RPD	RPD LIMIT
Arsenic	mg/Kg	49.9	50.6	101.4	(80-120)		
Barium	mg/Kg	150	149	99.3	(80-120)		
Cadmium	mg/Kg	49.9	49.9	100	(80-120)		
Chromium	mg/Kg	49.9	49.9	100	(80-120)		
Lead	mg/Kg	49.9	50.8	101.8	(80-120)		
Selenium	mg/Kg	49.9	52.8	105.8	(80-120)		
Silver	mg/Kg	20	18.5	92.5	(80-120)		

LABORATORY CONTROL SAMPLE: 137943LCSD Matrix : SQ

PARAMETER	UNITS	SPIKE CONC	LCS RESULT	SPIKE % REC	% REC LIMITS	RPD	RPD LIMIT
Arsenic	mg/Kg	49.7	49.8	100.2	(80-120)	1.6	20
Barium	mg/Kg	149	148	99.3	(80-120)	0.7	20
Cadmium	mg/Kg	49.7	49.2	99	(80-120)	1.4	20
Chromium	mg/Kg	49.7	49.5	99.6	(80-120)	0.8	20
Lead	mg/Kg	49.7	49.7	100	(80-120)	2.2	20
Selenium	mg/Kg	49.7	52.2	105	(80-120)	1.1	20
Silver	mg/Kg	19.9	18.2	91.5	(80-120)	1.6	20

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531
PROJECT ID: Landfill Fire Investigation 12-8266

METHOD: 7471

Method Blank : 137845MB **Matrix :** SQ

Associated Lab Samples : 137845MB 137846LCS 137847LCSD 350653101 350653102 350653103 350653104 350653105 350653106

Parameter	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
Mercury	0.00708 I	7/18/2012	7/18/2012	MG/KG	0.0037	0.02	1

LABORATORY CONTROL SAMPLE: 137846LCS **Matrix :** SQ

PARAMETER	UNITS	SPIKE CONC	LCS RESULT	SPIKE % REC	% REC LIMITS	RPD	RPD LIMIT
Mercury	mg/Kg	0.3	0.281	93.7	(80-120)		

LABORATORY CONTROL SAMPLE: 137847LCSD **Matrix :** SQ

PARAMETER	UNITS	SPIKE CONC	LCS RESULT	SPIKE % REC	% REC LIMITS	RPD	RPD LIMIT
Mercury	mg/Kg	0.3	0.284	94.7	(80-120)	1.1	20

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531
PROJECT ID: Landfill Fire Investigation 12-8266

METHOD: 8260

Method Blank : 071812BLK22 **Matrix :** SQ

Associated Lab Samples : 071812BLK22 071812LCS21 071812LCS21D 350653101 350653102 350653103 350653104 350653105

Parameter	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
1,2-Dichlorobenzene	U	7/18/2012		UG/KG	0.56	5	1
1,3-Dichlorobenzene	U	7/18/2012		UG/KG	0.45	5	1
1,4-Dichlorobenzene	U	7/18/2012		UG/KG	0.65	5	1
Benzene	U	7/18/2012		UG/KG	0.5	2	1
Chlorobenzene	U	7/18/2012		UG/KG	0.35	2	1
Ethylbenzene	U	7/18/2012		UG/KG	0.69	2	1
m,p-Xylene	U	7/18/2012		UG/KG	0.68	4	1
Methyl tert-butyl ether	U	7/18/2012		UG/KG	0.43	2	1
o-Xylene	U	7/18/2012		UG/KG	0.35	2	1
Toluene	U	7/18/2012		UG/KG	0.29	2	1
1,2-Dichloroethane-d4(SURR) (S	98.6	7/18/2012		%		(71 - 124)	1
4-Bromofluorobenzene(SURR) (	98.8	7/18/2012		%		(54 - 126)	1
Dibromofluoromethane(SURR) (	98.2	7/18/2012		%		(68 - 119)	1
Toluene-d8(SURR) (S)	101	7/18/2012		%		(59 - 127)	1

Method Blank : 071912BLK22 **Matrix :** SQ

Associated Lab Samples : 071912BLK22 071912LCS21 071912LCS21D 350653106

Parameter	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
1,2-Dichlorobenzene	U	7/19/2012		UG/KG	0.56	5	1
1,3-Dichlorobenzene	U	7/19/2012		UG/KG	0.45	5	1
1,4-Dichlorobenzene	J3U	7/19/2012		UG/KG	0.65	5	1
Benzene	U	7/19/2012		UG/KG	0.5	2	1
Chlorobenzene	J3U	7/19/2012		UG/KG	0.35	2	1
Ethylbenzene	U	7/19/2012		UG/KG	0.69	2	1
m,p-Xylene	U	7/19/2012		UG/KG	0.68	4	1
Methyl tert-butyl ether	U	7/19/2012		UG/KG	0.43	2	1
o-Xylene	U	7/19/2012		UG/KG	0.35	2	1
Toluene	U	7/19/2012		UG/KG	0.29	2	1
1,2-Dichloroethane-d4(SURR) (S	97.6	7/19/2012		%		(71 - 124)	1
4-Bromofluorobenzene(SURR) (	102	7/19/2012		%		(54 - 126)	1
Dibromofluoromethane(SURR) (	97.8	7/19/2012		%		(68 - 119)	1
Toluene-d8(SURR) (S)	98	7/19/2012		%		(59 - 127)	1

LABORATORY CONTROL SAMPLE: 071812LCS21 **Matrix :** SQ

PARAMETER	UNITS	SPIKE CONC	LCS RESULT	SPIKE % REC	% REC LIMITS	RPD	RPD LIMIT
1,2-Dichlorobenzene	ug/Kg	20	21.8	109	(77-115)		
1,3-Dichlorobenzene	ug/Kg	20	21.8	109	(75-117)		
1,4-Dichlorobenzene	ug/Kg	20	22.3	112	(78-116)		
Benzene	ug/Kg	20	21.2	106	(75-123)		
Chlorobenzene	ug/Kg	20	21.3	106	(65-130)		

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531
PROJECT ID: Landfill Fire Investigation 12-8266

METHOD: 8260

LABORATORY CONTROL SAMPLE: 071812LCS21 **Matrix :** SQ

PARAMETER	UNITS	SPIKE CONC	LCS RESULT	SPIKE % REC	% REC LIMITS	RPD	RPD LIMIT
Ethylbenzene	ug/Kg	20	21.3	106	(75-120)		
m,p-Xylene	ug/Kg	40	44.5	111	(75-125)		
Methyl tert-butyl ether	ug/Kg	20	20.8	104	(75-114)		
o-Xylene	ug/Kg	20	21.5	108	(75-125)		
Toluene	ug/Kg	20	21.2	106	(70-125)		
1,2-Dichloroethane-d4(SURR) (S	ug/Kg	50	51.9	104	(71-124)		
4-Bromofluorobenzene(SURR) (	ug/Kg	50	53.8	108	(54-126)		
Dibromofluoromethane(SURR) (	ug/Kg	50	50.6	101	(68-119)		
Toluene-d8(SURR) (S)	ug/Kg	50	50.9	102	(59-127)		

LABORATORY CONTROL SAMPLE: 071812LCS21D **Matrix :** SQ

PARAMETER	UNITS	SPIKE CONC	LCS RESULT	SPIKE % REC	% REC LIMITS	RPD	RPD LIMIT
1,2-Dichlorobenzene	ug/Kg	20	22.1	110	(77-115)	1.4	30
1,3-Dichlorobenzene	ug/Kg	20	21.3	106	(75-117)	2.3	30
1,4-Dichlorobenzene	ug/Kg	20	20.9	104	(78-116)	6.5	30
Benzene	ug/Kg	20	20.1	100	(75-123)	5.3	30
Chlorobenzene	ug/Kg	20	21.4	107	(65-130)	0.5	30
Ethylbenzene	ug/Kg	20	22.2	111	(75-120)	4.1	30
m,p-Xylene	ug/Kg	40	44.1	110	(75-125)	0.9	30
Methyl tert-butyl ether	ug/Kg	20	20.7	104	(75-114)	0.5	30
o-Xylene	ug/Kg	20	21.6	108	(75-125)	0.5	30
Toluene	ug/Kg	20	20.9	104	(70-125)	1.4	30
1,2-Dichloroethane-d4(SURR) (S	ug/Kg	50	51.9	104	(71-124)		
4-Bromofluorobenzene(SURR) (	ug/Kg	50	54.7	109	(54-126)		
Dibromofluoromethane(SURR) (	ug/Kg	50	53.8	108	(68-119)		
Toluene-d8(SURR) (S)	ug/Kg	50	52.7	105	(59-127)		

LABORATORY CONTROL SAMPLE: 071912LCS21 **Matrix :** SQ

PARAMETER	UNITS	SPIKE CONC	LCS RESULT	SPIKE % REC	% REC LIMITS	RPD	RPD LIMIT
1,2-Dichlorobenzene	ug/Kg	20	21.7	108	(77-115)		
1,3-Dichlorobenzene	ug/Kg	20	22	110	(75-117)		
1,4-Dichlorobenzene	ug/Kg	20	23.9	120 *	(78-116)		
Benzene	ug/Kg	20	21.1	106	(75-123)		
Chlorobenzene	ug/Kg	20	26.3	132 *	(65-130)		
Ethylbenzene	ug/Kg	20	23.2	116	(75-120)		
m,p-Xylene	ug/Kg	40	45.7	114	(75-125)		
Methyl tert-butyl ether	ug/Kg	20	20.1	100	(75-114)		
o-Xylene	ug/Kg	20	21.8	109	(75-125)		
Toluene	ug/Kg	20	22.1	110	(70-125)		
1,2-Dichloroethane-d4(SURR) (S	ug/Kg	50	52.5	105	(71-124)		
4-Bromofluorobenzene(SURR) (	ug/Kg	50	55.4	111	(54-126)		
Dibromofluoromethane(SURR) (	ug/Kg	50	52.5	105	(68-119)		
Toluene-d8(SURR) (S)	ug/Kg	50	53.9	108	(59-127)		

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531

PROJECT ID: Landfill Fire Investigation 12-8266

METHOD: 8260

LABORATORY CONTROL SAMPLE: 071912LCS21D **Matrix :** SQ

PARAMETER	UNITS	SPIKE CONC	LCS RESULT	SPIKE % REC	% REC LIMITS	RPD	RPD LIMIT
1,2-Dichlorobenzene	ug/Kg	20	21.1	106	(77-115)	2.8	30
1,3-Dichlorobenzene	ug/Kg	20	21.4	107	(75-117)	2.8	30
1,4-Dichlorobenzene	ug/Kg	20	22.8	114	(78-116)	4.7	30
Benzene	ug/Kg	20	21.2	106	(75-123)	0.5	30
Chlorobenzene	ug/Kg	20	24.4	122	(65-130)	7.5	30
Ethylbenzene	ug/Kg	20	21.9	110	(75-120)	5.8	30
m,p-Xylene	ug/Kg	40	44.1	110	(75-125)	3.6	30
Methyl tert-butyl ether	ug/Kg	20	19.6	98	(75-114)	2.5	30
o-Xylene	ug/Kg	20	20.6	103	(75-125)	5.7	30
Toluene	ug/Kg	20	22.2	111	(70-125)	0.5	30
1,2-Dichloroethane-d4(SURR) (S	ug/Kg	50	50	100	(71-124)		
4-Bromofluorobenzene(SURR) (	ug/Kg	50	49.8	99.6	(54-126)		
Dibromofluoromethane(SURR) (	ug/Kg	50	48.2	96.4	(68-119)		
Toluene-d8(SURR) (S)	ug/Kg	50	50.4	101	(59-127)		

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531

PROJECT ID: Landfill Fire Investigation 12-8266

METHOD: 8270

Method Blank : 138005MB

Matrix : SQ

Associated Lab Samples : 138005MB 138007LCS 350653101 350653102 350653103 350653104 350653105 350653106

Parameter	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
1,2,4-Trichlorobenzene	U	7/20/2012	7/19/2012	UG/KG	57.5	268	1
1,2-Dichlorobenzene	U	7/20/2012	7/19/2012	UG/KG	56.5	268	1
1,3-Dichlorobenzene	U	7/20/2012	7/19/2012	UG/KG	60.5	268	1
1,4-Dichlorobenzene	U	7/20/2012	7/19/2012	UG/KG	62.5	268	1
1-Methylnaphthalene	U	7/20/2012	7/19/2012	UG/KG	61.5	268	1
2,2'-Oxybis(1-chloropropane)	U	7/20/2012	7/19/2012	UG/KG	218	268	1
2,4,5-Trichlorophenol	U	7/20/2012	7/19/2012	UG/KG	73.4	265	1
2,4,6-Trichlorophenol	U	7/20/2012	7/19/2012	UG/KG	67.4	265	1
2,4-Dichlorophenol	U	7/20/2012	7/19/2012	UG/KG	74.4	265	1
2,4-Dimethylphenol	U	7/20/2012	7/19/2012	UG/KG	56.5	265	1
2,4-Dinitrophenol	U	7/20/2012	7/19/2012	UG/KG	218	1330	1
2,4-Dinitrotoluene	U	7/20/2012	7/19/2012	UG/KG	48.6	268	1
2,6-Dinitrotoluene	U	7/20/2012	7/19/2012	UG/KG	49.6	268	1
2-Chloronaphthalene	U	7/20/2012	7/19/2012	UG/KG	66.1	268	1
2-Chlorophenol	U	7/20/2012	7/19/2012	UG/KG	68.4	268	1
2-Methylnaphthalene	U	7/20/2012	7/19/2012	UG/KG	57.5	268	1
2-Methylphenol	U	7/20/2012	7/19/2012	UG/KG	95.2	265	1
2-Nitroaniline	U	7/20/2012	7/19/2012	UG/KG	56.5	268	1
2-Nitrophenol	U	7/20/2012	7/19/2012	UG/KG	71.4	268	1
3,3'-Dichlorobenzidine	U	7/20/2012	7/19/2012	UG/KG	58.5	268	1
3-Nitroaniline	U	7/20/2012	7/19/2012	UG/KG	79.3	265	1
4,6-Dinitro-2-methylphenol	U	7/20/2012	7/19/2012	UG/KG	264	268	1
4-Bromophenyl-phenylether	U	7/20/2012	7/19/2012	UG/KG	48.6	268	1
4-Chloro-3-methylphenol	U	7/20/2012	7/19/2012	UG/KG	55.5	268	1
4-Chloroaniline	U	7/20/2012	7/19/2012	UG/KG	62.5	268	1
4-Chlorophenyl-phenylether	U	7/20/2012	7/19/2012	UG/KG	50.6	268	1
4-Methylphenol	U	7/20/2012	7/19/2012	UG/KG	58.5	268	1
4-Nitroaniline	U	7/20/2012	7/19/2012	UG/KG	87.3	265	1
4-Nitrophenol	U	7/20/2012	7/19/2012	UG/KG	52.6	661	1
Acenaphthene	U	7/20/2012	7/19/2012	UG/KG	48.6	268	1
Acenaphthylene	U	7/20/2012	7/19/2012	UG/KG	54.5	268	1
Aniline	U	7/20/2012	7/19/2012	UG/KG	76.4	268	1
Anthracene	U	7/20/2012	7/19/2012	UG/KG	59.5	268	1
Benzidine	U	7/20/2012	7/19/2012	UG/KG	595	664	1
Benzo(a)anthracene	U	7/20/2012	7/19/2012	UG/KG	56.5	268	1
Benzo(a)pyrene	U	7/20/2012	7/19/2012	UG/KG	42.6	268	1
Benzo(b)fluoranthene	U	7/20/2012	7/19/2012	UG/KG	62.5	268	1
Benzo(g,h,i)perylene	U	7/20/2012	7/19/2012	UG/KG	39.7	268	1
Benzo(k)fluoranthene	U	7/20/2012	7/19/2012	UG/KG	56.5	268	1
Benzoic acid	J3U	7/20/2012	7/19/2012	UG/KG	268	661	1
Benzyl alcohol	U	7/20/2012	7/19/2012	UG/KG	91.2	661	1
Bis(2-chloroethoxy)methane	U	7/20/2012	7/19/2012	UG/KG	56.5	265	1
Bis(2-chloroethyl)ether	U	7/20/2012	7/19/2012	UG/KG	66.4	268	1
Bis(2-ethylhexyl)phthalate	U	7/20/2012	7/19/2012	UG/KG	82.3	268	1
Butylbenzylphthalate	U	7/20/2012	7/19/2012	UG/KG	62.5	268	1

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531
PROJECT ID: Landfill Fire Investigation 12-8266
METHOD: 8270

Method Blank : 138005MB   **Matrix :** SQ

Associated Lab Samples : 138005MB 138007LCS 350653101 350653102 350653103 350653104 350653105 350653106

Parameter	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
Chrysene	U	7/20/2012	7/19/2012	UG/KG	33.7	265	1
Dibenzo(a,h)anthracene	U	7/20/2012	7/19/2012	UG/KG	40.6	268	1
Dibenzofuran	U	7/20/2012	7/19/2012	UG/KG	53.5	268	1
Diethylphthalate	U	7/20/2012	7/19/2012	UG/KG	50.6	268	1
Dimethylphthalate	U	7/20/2012	7/19/2012	UG/KG	58.5	268	1
Di-n-butylphthalate	U	7/20/2012	7/19/2012	UG/KG	43.6	268	1
Di-n-octylphthalate	U	7/20/2012	7/19/2012	UG/KG	57.5	268	1
Fluoranthene	U	7/20/2012	7/19/2012	UG/KG	47.6	268	1
Fluorene	U	7/20/2012	7/19/2012	UG/KG	50.6	268	1
Hexachlorobenzene	U	7/20/2012	7/19/2012	UG/KG	52.6	265	1
Hexachlorobutadiene	U	7/20/2012	7/19/2012	UG/KG	57.5	268	1
Hexachlorocyclopentadiene	U	7/20/2012	7/19/2012	UG/KG	39.7	661	1
Hexachloroethane	U	7/20/2012	7/19/2012	UG/KG	49.6	268	1
Indeno(1,2,3-cd)pyrene	U	7/20/2012	7/19/2012	UG/KG	51.6	268	1
Isophorone	U	7/20/2012	7/19/2012	UG/KG	58.5	268	1
Naphthalene	U	7/20/2012	7/19/2012	UG/KG	63.5	268	1
Nitrobenzene	U	7/20/2012	7/19/2012	UG/KG	59.5	268	1
N-Nitrosodimethylamine	U	7/20/2012	7/19/2012	UG/KG	70.4	265	1
N-Nitroso-di-n-propylamine	U	7/20/2012	7/19/2012	UG/KG	60.5	268	1
N-Nitrosodiphenylamine	U	7/20/2012	7/19/2012	UG/KG	62.5	265	1
Pentachlorophenol	U	7/20/2012	7/19/2012	UG/KG	132	268	1
Phenanthrene	U	7/20/2012	7/19/2012	UG/KG	55.5	268	1
Phenol	U	7/20/2012	7/19/2012	UG/KG	64.4	1320	1
Pyrene	U	7/20/2012	7/19/2012	UG/KG	91.2	268	1
2,4,6-Tribromophenol(SURR) (S)	82.5	7/20/2012	7/19/2012	%		(19 - 122)	1
2-Fluorobiphenyl(SURR) (S)	70.4	7/20/2012	7/19/2012	%		(30 - 115)	1
2-Fluorophenol(SURR) (S)	70.6	7/20/2012	7/19/2012	%		(25 - 121)	1
Nitrobenzene-d5(SURR) (S)	63	7/20/2012	7/19/2012	%		(23 - 120)	1
Phenol-d5(SURR) (S)	68.3	7/20/2012	7/19/2012	%		(24 - 113)	1
p-Terphenyl-d14(SURR) (S)	98	7/20/2012	7/19/2012	%		(18 - 137)	1

LABORATORY CONTROL SAMPLE: 138007LCS   **Matrix :** SQ

PARAMETER	UNITS	SPIKE CONC	LCS RESULT	SPIKE % REC	% REC LIMITS	RPD	RPD LIMIT
1,2,4-Trichlorobenzene	ug/Kg	1970	1360	69	(61-110)		
1,2-Dichlorobenzene	ug/Kg	1970	1380	70.1	(53-110)		
1,3-Dichlorobenzene	ug/Kg	1970	1320	67	(52-120)		
1,4-Dichlorobenzene	ug/Kg	1970	1340	68	(52-110)		
1-Methylnaphthalene	ug/Kg	1970	1530	77.7	(54-119)		
2,2'-Oxybis(1-chloropropane)	ug/Kg	1970	1300	66	(42-139)		
2,4,5-Trichlorophenol	ug/Kg	1970	1450	73.6	(69-110)		
2,4,6-Trichlorophenol	ug/Kg	1970	1440	73.1	(49-120)		
2,4-Dichlorophenol	ug/Kg	1970	1340	68	(50-120)		

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531
PROJECT ID: Landfill Fire Investigation 12-8266

METHOD: 8270

LABORATORY CONTROL SAMPLE: 138007LCS **Matrix :** SQ

PARAMETER	UNITS	SPIKE CONC	LCS RESULT	SPIKE % REC	% REC LIMITS	RPD	RPD LIMIT
2,4-Dimethylphenol	ug/Kg	1970	1620	82.2	(43-125)		
2,4-Dinitrophenol	ug/Kg	3930	1830	46.6	(15-150)		
2,4-Dinitrotoluene	ug/Kg	1970	1400	71.1	(64-113)		
2,6-Dinitrotoluene	ug/Kg	1970	1500	76.1	(63-120)		
2-Chloronaphthalene	ug/Kg	1970	1420	72.1	(67-120)		
2-Chlorophenol	ug/Kg	1970	1470	74.6	(42-113)		
2-Methylnaphthalene	ug/Kg	1970	1380	70.1	(63-118)		
2-Methylphenol	ug/Kg	1970	1460	74.1	(55-112)		
2-Nitroaniline	ug/Kg	1970	1510	76.6	(52-133)		
2-Nitrophenol	ug/Kg	1970	1480	75.1	(50-110)		
3,3'-Dichlorobenzidine	ug/Kg	3930	2810	71.5	(20-110)		
3-Nitroaniline	ug/Kg	1970	1630	82.7	(62-119)		
4,6-Dinitro-2-methylphenol	ug/Kg	1970	1180	59.9	(31-120)		
4-Bromophenyl-phenylether	ug/Kg	1970	1540	78.2	(72-111)		
4-Chloro-3-methylphenol	ug/Kg	1970	1400	71.1	(48-114)		
4-Chloroaniline	ug/Kg	1970	1490	75.6	(15-110)		
4-Chlorophenyl-phenylether	ug/Kg	1970	1400	71.1	(69-120)		
4-Methylphenol	ug/Kg	1970	1380	70.1	(48-127)		
4-Nitroaniline	ug/Kg	1970	1520	77.2	(61-123)		
4-Nitrophenol	ug/Kg	1970	1380	70.1	(10-162)		
Acenaphthene	ug/Kg	1970	1480	75.1	(61-112)		
Acenaphthylene	ug/Kg	1970	1560	79.2	(57-123)		
Aniline	ug/Kg	1970	1500	76.1	(50-130)		
Anthracene	ug/Kg	1970	1510	76.6	(65-118)		
Benzidine	ug/Kg	3930	848	21.6	(10-123)		
Benzo(a)anthracene	ug/Kg	1970	1620	82.2	(66-120)		
Benzo(a)pyrene	ug/Kg	1970	1520	77.2	(66-111)		
Benzo(b)fluoranthene	ug/Kg	1970	1530	77.7	(61-114)		
Benzo(g,h,i)perylene	ug/Kg	1970	1490	75.6	(55-122)		
Benzo(k)fluoranthene	ug/Kg	1970	1450	73.6	(61-121)		
Benzoic acid	ug/Kg	6880	578	8.4	* (10-120)		
Benzyl alcohol	ug/Kg	1970	1450	73.6	(60-110)		
Bis(2-chloroethoxy)methane	ug/Kg	1970	1510	76.6	(67-117)		
Bis(2-chloroethyl)ether	ug/Kg	1970	1580	80.2	(58-124)		
Bis(2-ethylhexyl)phthalate	ug/Kg	1970	1590	80.7	(68-126)		
Butylbenzylphthalate	ug/Kg	1970	1770	89.8	(69-127)		
Chrysene	ug/Kg	1970	1610	81.7	(64-113)		
Dibenzo(a,h)anthracene	ug/Kg	1970	1350	68.5	(53-120)		
Dibenzofuran	ug/Kg	1970	1450	73.6	(64-120)		
Diethylphthalate	ug/Kg	1970	1490	75.6	(63-126)		
Dimethylphthalate	ug/Kg	1970	1560	79.2	(72-116)		
Di-n-butylphthalate	ug/Kg	1970	1480	75.1	(72-122)		
Di-n-octylphthalate	ug/Kg	1970	1590	80.7	(69-131)		
Fluoranthene	ug/Kg	1970	1520	77.2	(66-119)		
Fluorene	ug/Kg	1970	1430	72.6	(57-118)		
Hexachlorobenzene	ug/Kg	1970	1460	74.1	(66-110)		
Hexachlorobutadiene	ug/Kg	1970	1410	71.6	(64-114)		
Hexachlorocyclopentadiene	ug/Kg	1970	1060	53.8	(33-113)		

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506531
PROJECT ID: Landfill Fire Investigation 12-8266

METHOD: 8270

LABORATORY CONTROL SAMPLE: 138007LCS **Matrix :** SQ

PARAMETER	UNITS	SPIKE CONC	LCS RESULT	SPIKE % REC	% REC LIMITS	RPD	RPD LIMIT
Hexachloroethane	ug/Kg	1970	1260	64	(51-120)		
Indeno(1,2,3-cd)pyrene	ug/Kg	1970	1530	77.7	(52-120)		
Isophorone	ug/Kg	1970	1640	83.2	(75-135)		
Naphthalene	ug/Kg	1970	1420	72.1	(54-123)		
Nitrobenzene	ug/Kg	1970	1280	65	(56-114)		
N-Nitrosodimethylamine	ug/Kg	1970	1380	70.1	(36-134)		
N-Nitroso-di-n-propylamine	ug/Kg	1970	1410	71.6	(58-121)		
N-Nitrosodiphenylamine	ug/Kg	1970	1590	80.7	(72-122)		
Pentachlorophenol	ug/Kg	1970	1270	64.5	(25-138)		
Phenanthrene	ug/Kg	1970	1520	77.2	(61-118)		
Phenol	ug/Kg	1970	1400	71.1	(39-127)		
Pyrene	ug/Kg	1970	1610	81.7	(62-117)		
2,4,6-Tribromophenol(SURR) (S)	ug/Kg	4920	4050	82.3	(19-122)		
2-Fluorobiphenyl(SURR) (S)	ug/Kg	2460	1880	76.4	(30-115)		
2-Fluorophenol(SURR) (S)	ug/Kg	4920	3700	75.2	(25-121)		
Nitrobenzene-d5(SURR) (S)	ug/Kg	2460	1670	67.9	(23-120)		
Phenol-d5(SURR) (S)	ug/Kg	4920	3630	73.8	(24-113)		
p-Terphenyl-d14(SURR) (S)	ug/Kg	2460	2110	85.8	(18-137)		

PEL

A DIVISION OF SPECTRUM ANALYTICAL, INC. featuring HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

350653 MK

Page 1 of 1

Special Handling:

TAT- Indicate Date Needed: ____________

- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Ardaman & Assoc. Inc.
78 Sarasota Center Blvd
Sarasota, FL 34240

Project Mgr.: Chip Hoover

Invoice To: Same

P.O. No.: ____________ RQN: ____________

Project No.: 12-8266

Site Name: Landfill Fire Investigation

Location: 4000 Knights Trail, Nokomis, Sarasota Co.   State: FL

Sampler(s): Michael Eggleston (AAI)

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Ice only 10=________ 11=________

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=________ X2=________ X3=________

G=Grab C=Composite

List preservative code below: 9 | 9 | 9

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	8260 Arom.	8270 Full	RCRA 8 Metals
-01	SS-1	7.16.12	1420	G	SO			3		X	X	X
-02	SS-2		1425					3		X	X	X
-03	SS-3		1432					3		X	X	X
-04	SS-4		1440					3		X	X	X
-05	SS-5		1447					3		X	X	X
-06	SS-6		1458					3		X	X	X

Notes:

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other ________

State specific reporting standards: ____________

☐ E-mail to ____________

EDD Format ____________

Relinquished by:	Received by:	Date:	Time:
Michael Eggleston (signature)	(signature)	7/17/12	7:20AM

Condition upon receipt: ☐ Iced ☐ Ambient ☐ °C 4.6

8405 Benjamin Road, Suite A • Tampa, Florida 33634 • 813-888-9507 • FAX 813-889-7128 • www.pelab.com

Sample Receipt Confirmation Sheet

Client Information

SDG:	3506531	**Level:**	1
Client:	Ardaman	**Date Rec'd:**	7/17/2012 7:20:00 AM
Profile:	1110	**Due Date:**	7/20/2012
Project:	Generic	**Profile Name:**	Generic

Sample Verification

Samples/Cooler Secure?	Yes	**COC Present?**	Yes
Temperature of Samples:	4.6	**All Samples on COC accounted For?**	Yes
Number of Coolers Received:	1	**All Samples Rec'd Intact?**	Yes
Temp Gun ID:	111533994	**Sample Vol. Sufficient For Analysis**	Yes
pH Verified?	No	**Samples Rec'd W/I Hold Time?**	Yes
pH WNL?	No	**Are All Samples to be Analyzed?**	Yes
Samples Received By:	Courier	**Correct Sample Containers?**	Yes
Tracking Number:		**COC Comments written on COC?**	Yes
Profile Picked By:	MG	**Samplers Initials on COC?**	Yes
Soil Origin (Domestic/Foreign):	Domestic	**Sample Date/Time Indicated?**	Yes
Site Location/Project on COC?	Yes	**TAT Requested:**	STD
Client Project # on COC?	Yes	**Client Requests Verbal Results?**	No
Project Mgr. Indicated on COC?	Yes	**Client Requests Faxed Results?**	No
COC relinquished/Dated by Client?	Yes	**Specific Subcontract Indicated?**	No
COC Received/Dated by SA?	Yes	**Written on Outside Lab Board?**	No
Written on Internal COC?	Yes	**Radioactivity Check?**	No
Lab to Conduct ALL Analyses?	Yes		

Comments

Specific tests noted on COC.

LABEL REVIEW [signature] 7/17/12

PEER REVIEW CF 7/18/2012

End Of Report

230712 1703

APPENDIX II

Date Reported:
10-Aug-12

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

Ardaman & Associates
78 Sarasota Center Boulevard
Sarasota, FL 34240

Project # 3506693
Project: Landfill Fire Investigation 12-8266

Attn: Chip Hoover

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
350669301	SS-4	S	16-Jul-12 14:40	17-Jul-12 7:20

Soil samples are reported on dry weight basis, unless otherwise noted.

Submitted material will be retained for 30 days unless otherwise requested by client or consumed in analysis.

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet unless noted in the case narrative.

Please contact the laboratory at 813-888-9507 with any questions regarding the data contained in the laboratory report.

Florida	E84207
Texas	T104704408-12-4
South Carolina	96011001
North Dakota	R-178
California	07253CA
Louisiana	02025
Kansas	E-10385
Arkansas	11-036-1

NELAP ACCREDITED TNI LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2259 Testing

Respectfully Submitted,

Brian C Spann

Digitally signed by Brian C Spann DN: cn=Brian C Spann, o=Lab Director, Tampa Division, ou=Spectrum Analytical, email=bspann@pelab.com, c=US Date: 2012.08.10 17:59:32 -04'00'

Brian Spann
Laboratory Director
Spectrum Analytical, Inc. Florida Division

Spectrum Analytical, Inc. FL Division
featuring Hanibal Technology

DATA QUALIFIER CODES

State of Florida, Department of Environmental Protection and
Department of Health Rehabilitative Services / NELAC

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J Estimated value; value not accurate. This code shall be used in the following instances:

1.Surrogate recovery limits have been exceeded.

2. No known quality control criteria exits for the component.

3.The reported value did not meet the established quality control criteria for either precision or accuracy but falls within the NELAC marginal exceedance range.

3M.The reported value did not meet the established quality control criteria for either precision or accuracy and falls beyond the NELAC range for marginal exceedances.

3R.The RPD for the LCSD exceeds the laboratory established control limits.

4.The sample matrix interfered with the ability to make an accurate determination.

5.The data is questionable because of improper laboratory or field protocols (e.g. composite sample was collected instead of a grab sample).

L Off-scale high. Actual value is known to be greater than the value given. To be used when the concentration of the analyte is above the acceptable limit for quantitation (exceeds the linear range of the highest calibration standard) and the calibration curve is known to exhibit a negative deflection.

Q Sample held beyond acceptable holding time. This code shall be used if the value is derived from a sample that was prepared or analyzed after the approved holding time restrictions for the sample preparation or analysis.

U Indicates that the compound was analyzed for but not detected above the method detection limit (MDL).

V Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value in the sample is less than 10 times the value found in the method blank.

Y The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.

RL - Reporing Limit. The Spectrum Analytical, Inc. lowest Practical Quanititation Limit (PQL), defined by the lowest point in the calibration curve.

CASE NARRATIVE
Inorganic

Spectrum Analytical Inc. Lab Reference No./SDG: 3506693

Client: Ardaman

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation:

All holding times were met.

B. Sample Analysis:

All holding times were met.

III. METHOD

Samples were analyzed according to Spectrum Analytical's Standard Operating Procedures and Method SW6010B

IV. PREPARATION

Samples were prepared according to the Spectrum Analytical Inc and EPA Methods 1312 and 3010A.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met.

2. Method Blanks:

All acceptance criteria were met.

C. Spikes:

1. Laboratory Control Spikes (LCS):

CASE NARRATIVE
Inorganic

Spectrum Analytical Inc. Lab Reference No./SDG: 3506693

Client: Ardaman

An LCS/LCSD set was analyzed. All percent recovery and relative percent difference (RPD) criteria were met.

2. **Post Digestion Spike:**

All acceptance criteria were met.

3. **Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):**

No spikes requested by client.

D. Duplicate:

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

E. Serial Dilution:

All acceptance criteria were met.

F. ICP Interference Check Samples:

All acceptance criteria were met.

G. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature: ____________
Name: Troy L. Roberts Title: Inorg. Manager

SIGNED: **DATE:** __08/10/2012__

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506693
PROJECT ID: Landfill Fire Investigation 12-8266

Lab# : 350669301
Client ID : SS-4
Matrix : S

Collection Information:
Sample Date: 7/16/2012 2:40:00 PM

Parameter	Method	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
Selenium	6010 SPLP	0.0041 U	08/10/2012 13:10	08/09/2012 9:50	MG/L	0.0041	0.02	1

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506693
PROJECT ID: Landfill Fire Investigation 12-8266

QC SUMMARY

METHOD: 6010 SPLP

Method Blank : 140430MB **Matrix :** WQ

Associated Lab Samples : 140430MB 140432LCS 140433LCSD 350669301

Parameter	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
Selenium	U	8/10/2012	8/9/2012	MG/L	0.0041	0.02	1

LABORATORY CONTROL SAMPLE: 140432LCS **Matrix :** WQ

PARAMETER	UNITS	SPIKE CONC	LCS RESULT	SPIKE % REC	% REC LIMITS	RPD	RPD LIMIT
Selenium	mg/L	0.5	0.459	91.8	(80-120)		

LABORATORY CONTROL SAMPLE: 140433LCSD **Matrix :** WQ

PARAMETER	UNITS	SPIKE CONC	LCS RESULT	SPIKE % REC	% REC LIMITS	RPD	RPD LIMIT
Selenium	mg/L	0.5	0.478	95.6	(80-120)	4.1	20

PEL

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CHAIN OF CUSTODY RECORD

3506693 MK ~~3506535~~ MK 8/6/12

Page 1 of 1

Special Handling:

TAT- Indicate Date Needed: ______

- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Andersen & Assoc. Inc.
7B Sarasota Center Blvd
Sarasota, FL 34240

Project Mgr.: Chip Hoover

Invoice To: Same

P.O. No.: ______ RQN: ______

Project No.: 12-8266

Site Name: Landfill Fire Investigation

Location: 4000 Knights Trail Nokomis, Sarasota Co. State: FL

Sampler(s): Michael Eggleston (AAI)

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Ice only 10=______ 11=______

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=______ X2=______ X3=______

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	8260 Arom.	8270 Full	RCRA 8 Metals				
										9	9	9				
	~~SS-1~~	~~7-10-12~~	~~1420~~	G	SO			3		X	X	X	8/6/12 MK			
	~~SS-2~~		~~1425~~					3		X	X	X	8/6/12 MK			
	~~SS-3~~		~~1432~~					3		X	X	X	8/6/12 MK			
	SS-4		1440					3		X	X	X				
	~~SS-5~~		~~1447~~					3		X	X	X	8/6/12 MK			
	~~SS-6~~		1458					3		X	X	X	8/6/12 MK			

QA/QC Reporting Level

- ☐ Level I ☐ Level II
- ☐ Level III ☐ Level IV
- ☐ Other ______

State specific reporting standards:

☐ E-mail to ______

EDD Format______

Relinquished by	Received by	Date	Time
Michael Eggleston	[signature]	7/17/12	7:20AM

Condition upon receipt: ______

8405 Benjamin Road, Suite A • Tampa, Florida 33634 • 813-888-9507 • FAX 813-889-7128 • www.pelab.com

Sample Receipt Confirmation Sheet

Client Information

SDG:	3506693	**Level:**	1
Client:	Ardaman	**Date Rec'd:**	7/17/2012 7:20:00 AM
Profile:	1110	**Due Date:**	8/9/2012
Project:	Generic	**Profile Name:**	Generic

Sample Verification

Samples/Cooler Secure?	Yes	**COC Present?**	Yes
Temperature of Samples:	4.6	**All Samples on COC accounted For?**	Yes
Number of Coolers Received:	1	**All Samples Rec'd Intact?**	Yes
Temp Gun ID:	101722663	**Sample Vol. Sufficient For Analysis**	Yes
pH Verified?	No	**Samples Rec'd W/I Hold Time?**	Yes
pH WNL?	No	**Are All Samples to be Analyzed?**	Yes
Samples Received By:	Courier	**Correct Sample Containers?**	Yes
Tracking Number:		**COC Comments written on COC?**	Yes
Profile Picked By:	MG	**Samplers Initials on COC?**	Yes
Soil Origin (Domestic/Foreign):	Domestic	**Sample Date/Time Indicated?**	Yes
Site Location/Project on COC?	Yes	**TAT Requested:**	STD
Client Project # on COC?	Yes	**Client Requests Verbal Results?**	No
Project Mgr. Indicated on COC?	Yes	**Client Requests Faxed Results?**	No
COC relinquished/Dated by Client?	Yes	**Specific Subcontract Indicated?**	No
COC Received/Dated by SA?	Yes	**Written on Outside Lab Board?**	No
Written on Internal COC?	Yes	**Radioactivity Check?**	No
Lab to Conduct ALL Analyses?	Yes		

Comments

Specific tests noted on COC.

LABEL REVIEW A.F

PEER REVIEW CF 8/7/2012

End Of Report

APPENDIX III

Date Reported:
15-Aug-12

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

- [x] Final Report
- [ ] Re-Issued Report
- [ ] Revised Report

Laboratory Report

Ardaman & Associates
78 Sarasota Center Boulevard
Sarasota, FL 34240

Project # 3506724
Project: Landfill Fire Investigation 12-8266

Attn: Chip Hoover

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
350672401	SS-2b	S	08-Aug-12 8:10	09-Aug-12 8:25

Soil samples are reported on dry weight basis, unless otherwise noted.

Submitted material will be retained for 30 days unless otherwise requested by client or consumed in analysis.

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet unless noted in the case narrative.

Please contact the laboratory at 813-888-9507 with any questions regarding the data contained in the laboratory report.

Florida	E84207
Texas	T104704408-12-4
South Carolina	96011001
North Dakota	R-178
California	07253CA
Louisiana	02025
Kansas	E-10385
Arkansas	11-036-1

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2259 Testing

Respectfully Submitted,

Brian C Spann

Digitally signed by Brian C Spann
DN: cn=Brian C Spann, o=Lab Director, Tampa Division, ou=Spectrum Analytical, email=bspann@pelab.com, c=US
Date: 2012.08.15 10:05:49 -04'00'

Brian Spann
Laboratory Director
Spectrum Analytical, Inc. Florida Division

Spectrum Analytical, Inc. FL Division
featuring Hanibal Technology

DATA QUALIFIER CODES

State of Florida, Department of Environmental Protection and
Department of Health Rehabilitative Services / NELAC

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J Estimated value; value not accurate. This code shall be used in the following instances:

1.Surrogate recovery limits have been exceeded.

2. No known quality control criteria exits for the component.

3.The reported value did not meet the established quality control criteria for either precision or accuracy but falls within the NELAC marginal exceedance range.

3M.The reported value did not meet the established quality control criteria for either precision or accuracy and falls beyond the NELAC range for marginal exceedances.

3R.The RPD for the LCSD exceeds the laboratory established control limits.

4.The sample matrix interfered with the ability to make an accurate determination.

5.The data is questionable because of improper laboratory or field protocols (e.g. composite sample was collected instead of a grab sample).

L Off-scale high. Actual value is known to be greater than the value given. To be used when the concentration of the analyte is above the acceptable limit for quantitation (exceeds the linear range of the highest calibration standard) and the calibration curve is known to exhibit a negative deflection.

Q Sample held beyond acceptable holding time. This code shall be used if the value is derived from a sample that was prepared or analyzed after the approved holding time restrictions for the sample preparation or analysis.

U Indicates that the compound was analyzed for but not detected above the method detection limit (MDL).

V Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value in the sample is less than 10 times the value found in the method blank.

Y The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.

RL - Reporing Limit. The Spectrum Analytical, Inc. lowest Practical Quanititation Limit (PQL), defined by the lowest point in the calibration curve.

CASE NARRATIVE
Semi-Volatile Organic

Spectrum Analytical Inc. Lab Reference No./SDG: 3506724

Client: Ardaman

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation:

All holding times were met.

B. Sample Analysis:

All holding times were met.

III. METHODS

Samples were analyzed according to Spectrum Analytical's Standard Operating Procedures and Method SW8270D

IV. PREPARATION

The SPLP samples were prepared by EPA 1312/SW846 for semi-volatiles analysis.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

All acceptance criteria were met.

C. Surrogates:

All acceptance criteria were met.

D. Spikes:

1. Laboratory Control Spikes (LCS)

All acceptance criteria were met.

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

No spikes requested by client.

CASE NARRATIVE
Semi-Volatile Organic

Spectrum Analytical Inc. Lab Reference No./SDG: 3506724

Client: Ardaman

E. Internal Standards:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Raymond Ortiz

SIGNED: **DATE: 08/14/2012**

W:\Narratives\SemiVols\3506\3506724_8270_SLP.doc

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506724
PROJECT ID: Landfill Fire Investigation 12-8266

Lab# : 350672401
Client ID : SS-2b
Matrix : S

Collection Information:
Sample Date: 8/8/2012 8:10:00 AM

Parameter	Method	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
Phenol	8270 SPLP	3.4 U	08/13/2012 21:05	08/13/2012 10:00	UG/L	3.4	8	1
2,4,6-Tribromophenol(SURR)	8270 SPLP	86	08/13/2012 21:05	08/13/2012 10:00	%	3.4	(10 - 122)	1
2-Fluorobiphenyl(SURR)	8270 SPLP	69.7	08/13/2012 21:05	08/13/2012 10:00	%	3.4	(43 - 116)	1
2-Fluorophenol(SURR)	8270 SPLP	67	08/13/2012 21:05	08/13/2012 10:00	%	3.4	(21 - 120)	1
Nitrobenzene-d5(SURR)	8270 SPLP	70.3	08/13/2012 21:05	08/13/2012 10:00	%	3.4	(35 - 114)	1
Phenol-d5(SURR)	8270 SPLP	50.5	08/13/2012 21:05	08/13/2012 10:00	%	3.4	(10 - 94)	1
p-Terphenyl-d14(SURR)	8270 SPLP	71.2	08/13/2012 21:05	08/13/2012 10:00	%	3.4	(33 - 141)	1

- CERTIFICATE OF ANALYSIS -

FLDOH #E84207

To: Chip Hoover
Ardaman & Associates

WORK ORDER: 3506724
PROJECT ID: Landfill Fire Investigation 12-8266

QC SUMMARY

METHOD: 8270 SPLP

Method Blank : 140922MB **Matrix :** SQ

Associated Lab Samples : 140922MB 140923LCS 350672401

Parameter	Results	Analysis Date	Prep Date	Units	MDL	RL	Dilution Factor
Phenol	U	8/13/2012	8/13/2012	UG/L	3.4	8	1
2,4,6-Tribromophenol(SURR) (S)	93	8/13/2012	8/13/2012	%		(10 - 122)	1
2-Fluorobiphenyl(SURR) (S)	81.6	8/13/2012	8/13/2012	%		(43 - 116)	1
2-Fluorophenol(SURR) (S)	68.5	8/13/2012	8/13/2012	%		(21 - 120)	1
Nitrobenzene-d5(SURR) (S)	78.6	8/13/2012	8/13/2012	%		(35 - 114)	1
Phenol-d5(SURR) (S)	51.5	8/13/2012	8/13/2012	%		(10 - 94)	1
p-Terphenyl-d14(SURR) (S)	78.7	8/13/2012	8/13/2012	%		(33 - 141)	1

LABORATORY CONTROL SAMPLE: 140923LCS **Matrix :** SQ

PARAMETER	UNITS	SPIKE CONC	LCS RESULT	SPIKE % REC	% REC LIMITS	RPD	RPD LIMIT
Phenol	ug/L	80	25.3	31.6	(30-120)		
2,4,6-Tribromophenol(SURR) (S)	ug/L	200	113	56.5	(10-122)		
2-Fluorobiphenyl(SURR) (S)	ug/L	100	46.7	46.7	(43-116)		
2-Fluorophenol(SURR) (S)	ug/L	200	81.2	40.6	(21-120)		
Nitrobenzene-d5(SURR) (S)	ug/L	100	45.6	45.6	(35-114)		
Phenol-d5(SURR) (S)	ug/L	200	60.2	30.1	(10-94)		
p-Terphenyl-d14(SURR) (S)	ug/L	100	51.9	51.9	(33-141)		

PEL

A Division of SPECTRUM ANALYTICAL, INC. featuring HANIBAL TECHNOLOGY

3506724 CF

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

TAT- Indicate Date Needed: ____________

- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Ardaman & Assoc.
78 Sarasota Center Blvd.
Sarasota, FL 34240

Project Mgr.: CHIP HOOVER

Invoice To: Same

P.O. No.: ________ RQN: ________

Project No.: 12-8266
Site Name: Landfill Fire Investigation
Location: Venice State: FL
Sampler(s): M. Ochs

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= ICED 10=________ 11=________

List preservative code below: 9

Notes:

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=________ X2=________ X3=________

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	SPLP Phenol by 8270
-01	SS-2b	~~8-8-10~~ 12 CF 8/9/2012	0810	G	SO			1		1

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other ________

State specific reporting standards:

☐ E-mail to ________
EDD Format ________

Relinquished by:	Received by:	Date:	Time:
Mark Ochs	Mark Bousaad	8/9/12	8:25AM

Condition upon receipt: ☑ Iced ☐ Ambient ☑ °C 3.3

8405 Benjamin Road, Suite A • Tampa, Florida 33634 • 813-888-9507 • FAX 813-889-7128 • www.pelab.com

Sample Receipt Confirmation Sheet

Client Information

SDG:	3506724	**Level:**	1
Client:	Ardaman	**Date Rec'd:**	8/9/2012 8:25:00 AM
Profile:	1110	**Due Date:**	8/14/2012
Project:	Generic	**Profile Name:**	Generic

Sample Verification

Samples/Cooler Secure?	Yes	**COC Present?**	Yes
Temperature of Samples:	3.3	**All Samples on COC accounted For?**	Yes
Number of Coolers Received:	1	**All Samples Rec'd Intact?**	Yes
Temp Gun ID:	101722663	**Sample Vol. Sufficient For Analysis**	Yes
pH Verified?	No	**Samples Rec'd W/I Hold Time?**	Yes
pH WNL?	No	**Are All Samples to be Analyzed?**	Yes
Samples Received By:	Courier	**Correct Sample Containers?**	Yes
Tracking Number:		**COC Comments written on COC?**	Yes
Profile Picked By:	MG	**Samplers Initials on COC?**	Yes
Soil Origin (Domestic/Foreign):		**Sample Date/Time Indicated?**	Yes
Site Location/Project on COC?	Yes	**TAT Requested:**	STD
Client Project # on COC?	Yes	**Client Requests Verbal Results?**	No
Project Mgr. Indicated on COC?	Yes	**Client Requests Faxed Results?**	No
COC relinquished/Dated by Client?	Yes	**Specific Subcontract Indicated?**	No
COC Received/Dated by SA?	Yes	**Written on Outside Lab Board?**	No
Written on Internal COC?	Yes	**Radioactivity Check?**	No
Lab to Conduct ALL Analyses?	Yes		

Comments

Specific tests noted on COC.

LABEL REVIEW 8/9/12

PEER REVIEW

End Of Report

150812 938

Brian Usher

From: Morgan, Steve [Steve.Morgan@dep.state.fl.us]
Sent: Wednesday, August 01, 2012 2:21 PM
To: Brian Usher
Cc: Lois Rose; Gary Bennett
Subject: RE: WACS #51612 Jackson Road Transfer Station
0

Brian:

The Department has no objection to the temporary use of the Jackson Road Transfer Station as described in the e-mail below.

Please feel free to e-mail or call me if you have any further questions.

Steven G. Morgan, Solid Waste Section
Florida Department of Environmental Protection
Southwest District Office
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926

phone - (813) 632-7600 x385
fax - (813) 632-7664
e-mail - steve.morgan@dep.state.fl.us

Please take a few minutes to share your comments on the service you received from the department by clicking on this link DEP Customer Survey.

From: Brian Usher [mailto:busher@scgov.net]
Sent: Wednesday, August 01, 2012 1:02 PM
To: Morgan, Steve
Cc: Lois Rose; Gary Bennett
Subject: WACS #51612 Jackson Road Transfer Station
0

Thanks Steve for speaking with me on the phone today.

Sarasota County notified FLDEP by e-mail on July 16, 2012 of a fire at the electronics storage area of the convenience center located on WACS 51614 - Central County Solid Waste Disposal Complex.

During the removal and cleanup process conducted by SWS Environmental Services, the affected materials were placed into three lined and then covered roll-off containers owned by a third party and left on-site for Sarasota County to coordinate material disposal. Our current contracted electronics vendor was not willing to accept these materials in their current state for recycling so we will be routing these materials through EQ Florida for disposal as a Hazardous Waste Solid. EQ Florida is currently a permitted hazardous waste transporter with a permitted TSD facility in Tampa, Florida that is under contract to process our HHW and CESQG waste through our hazardous waste collection programs. Our dilemma, however is that the third party is not permitted as a hazardous waste transporter to transport this material as a hazardous waste solid to EQ Florida, and there is a contractual and liability issue with EQ Florida accepting, transporting, and transferring materials on our behalf from third party roll-off containers at their TSD facility in Tampa.

Therefore, Sarasota County is asking the Department for permission to utilize our current Jackson Road Transfer station at WACS #51612, for the transfer of this material from the third party roll-off to an EQ Florida Open-Top Semi Trailer. Utilizing this site provides for the most sensible, economical, and safest method for the one-time transfer of these materials with the smallest risk for cross contamination of additional soil, equipment, and personnel.

This would be a one-time occurrence lasting one calendar day. Visqueen would be placed on the drop floor, chute, and side netting as a precaution for any escaping dust or materials.

Please advise if the Department approves this request or if you have any questions.

Thanks you for your consideration -

Brian Usher, CHMM
Operations Manager
Sarasota County Solid Waste
4000 Knights Trail Road, Nokomis, FL 34275
Phone: (941) 650-8078
Fax: (941) 486-2620

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
FLR 000 131 425	1	(800) 839-3975	009099439 JJK

GENERATOR

5. Generator's Name and Mailing Address SARASOTA COUNTY HHW (NOKOM
8750 BEE RIDGE ROAD
SARASOTA, FL 34241
Generator's Phone: (941) 861-1530

Generator's Site Address (if different than mailing address)
4000 KNIGHTS TRAIL ROAD
NOKOMIS, FL 34275

6. Transporter 1 Company Name: EQ INDUSTRIAL SERVICES — U.S. EPA ID Number: MI0 000 263 871

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address EQ FLORIDA, INC.
2002 NORTH ORIENT ROAD
TAMPA, FL 33619
Facility's Phone: (813) 623-5302
U.S. EPA ID Number: FLD 981 932 494

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3077, Hazardous waste, solid, n.o.s. (Lead, Silver), 9, PGIII, ERG #171	001	DT	18 ST / 35,200	T	D006 D007 D008 D011
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. OTTA 022 / Melted Electronics

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Kim J Stokes — Signature: [signature] — Month 8 Day 20 Year 12

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: James Chapman — Signature: James Chap[...] — Month 8 Day 20 Year 12
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name — Signature — Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

EQ FLORIDA, INC.

LAND DISPOSAL RESTRICTION (LDR) NOTIFICATION

GENERATOR:	Sarasota County HHW (Nokomis)	US EPA ID#	FLR000131425	MANIFEST DOC #:	009099439JJK

1 manifest page # and line item	2 EPA Hazardous waste code	3a WW	3b NWW	4 subcategory (if applicable)	5 F001-F005 Constituents (if applicable)	6 UHC: Underlying Hazardous Constituents (if applicable)	7 LDR Certification (one per line)
1/1	D006		X	N/A	N/A	NONE	2
	D007		X	N/A	N/A	NONE	2
	D008		X	N/A	N/A	NONE	2
	D011		X	N/A	N/A	NONE	2

THIS LIST OF WASTE CONTINUES?:	Yes		No	X

Waste on the following line item (s) is subject to "California List" restrictions of 40 CFR 268.32 for the following characteristic(s):		
California List Characteristics		
Liquid hazardous wastes >=50 ppm PCBs		
Hazardous wastes with HOCs>=1000 ppm (40 CFR 268, appendix III)		
Liquid hazardous wastes with nickel concentrations > 134 mg/L		
Liquid hazardous wastes with thallium concentrations > 130 mg/L		

LDR Certifications (Please list only one for each of the above line entries)
1. This waste complies with the treatment standards specified in 40 CFR 268, Subpart D, and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d).
2. This waste does not meet the treatment standards specified in 40 CFR 268, Subpart D, or exceeds the applicable treatment standards set forth in CFR 268.32 or RCRA section 3004(d). Waste must be treated to the appropriate standards.
3. This waste has been treated in accordance with 40 CFR 268.40 to remove the hazardous characteristic. The above listed underlying hazardous constituents are likely present in the waste, and must be treated to the applicable standards set forth in 40 CFR 268.40 prior to land disposal.
4. This waste is lab pack waste for incineration, and qualifies for alternative treatment as described in 40 CFR 268.42(C). Codes not eligible for alternate treatment are as follows: D009,F019,K003,K004,K005,K006,K062,K071,K100,K106,P010,P011,P012,P076,P078,U134, and U151.
5. This waste qualifies for exemption from land disposal restriction (please attach explanation which includes the date exemption was granted.)
6. This waste is not restricted under 40 CFR 268.

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

SIGNATURE [signature] DATE 8/20/2012

PRINT NAME Orlando L Stokes TITLE ENV. SPEC. III

DAILY JOB REPORT

EQ FLORIDA, INC.
7202 East Eighth Avenue
Tampa, Florida 33619
Phone: (813) 623-5302 1-800-624-5302 Fax: (813) 628-0842

DAY Mon DATE 8/20/12

JOB INFORMATION

COMPANY NAME Sarasota County HHW			PHONE 941 861 1530
LOCATION 4000 Knights Trail Rd			CONTACT Olin
Nokomis Fl	WO NUMBER 12115000		JOB NUMBER —

TYPE OF EQUIPMENT AND NUMBER		SITE TIME IN	SITE TIME OUT	LESS MEAL	WORK HOURS	MOB HOURS
50043/625		10 am pm	3:30 am pm	1	4	3
50035/631		am pm	am pm			
		am pm	am pm			
		am pm	am pm			

EMPLOYEE NAME	JOB TITLE	SITE TIME IN	SITE TIME OUT	LESS MEAL	WORK HOURS	MOB HOURS
[illegible]		am pm	am pm			
[illegible]		am pm	am pm			
		am pm	am pm			
		am pm	am pm			
		am pm	am pm			
		am pm	am pm			
		am pm	am pm			
		am pm	am pm			

SUPPLIES USED:

QTY	ITEM	QTY	ITEM	QTY	ITEM	QTY	ITEM
1	Liner						

Manifest Number 009099439 Manifest Quantities 17 TN

Comments

EQFL Signature [signature]

TO BE COMPLETED BY CUSTOMER: Was job completed satisfactorily? ____*Yes* ____*No*

Customer Comments/Suggestions

Customer Signature [signature]

ORIGINAL - Customer Service CANARY - Project Manager PINK - Customer

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

Brian Usher

From: Oland Stokes
Sent: Monday, August 20, 2012 5:05 PM
To: Brian Usher
Subject: Melted Electronics

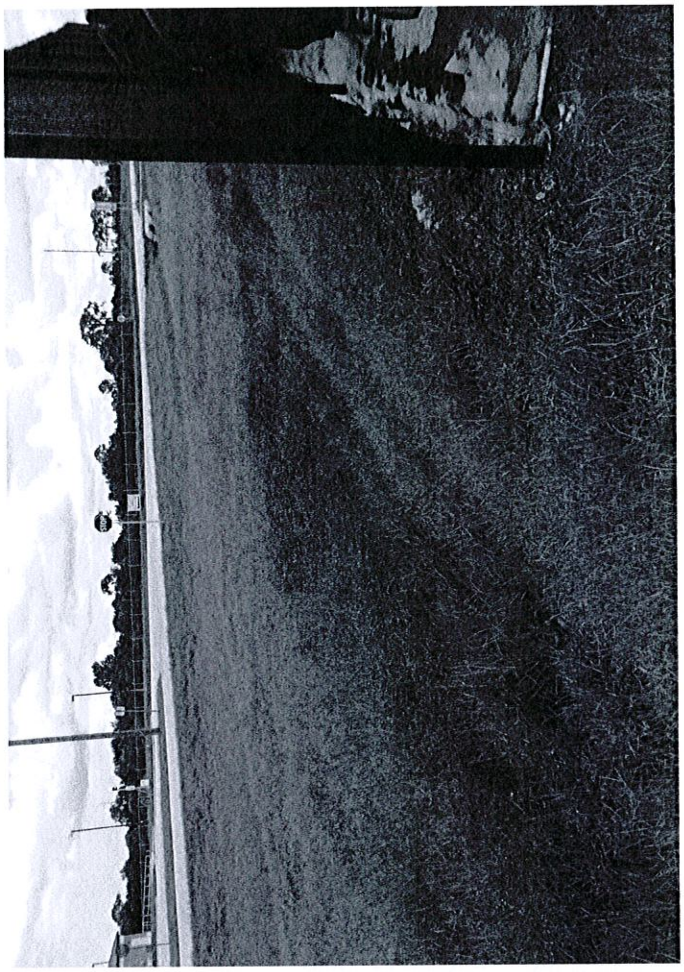
Gross Weight - 66000 lbs
Tare - 30800 lbs
Net - 35200 lbs

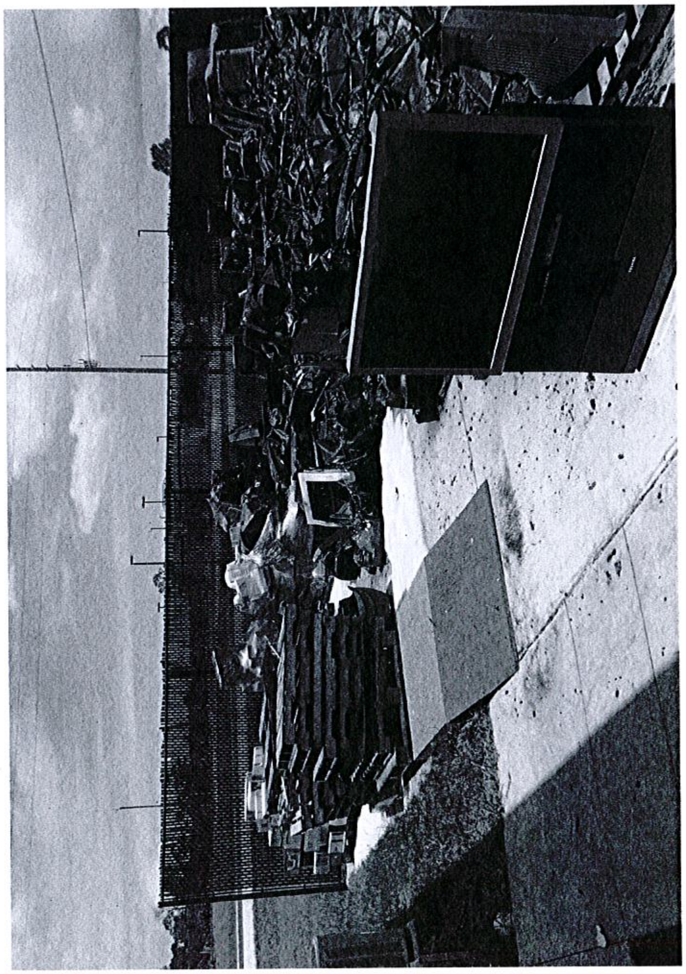
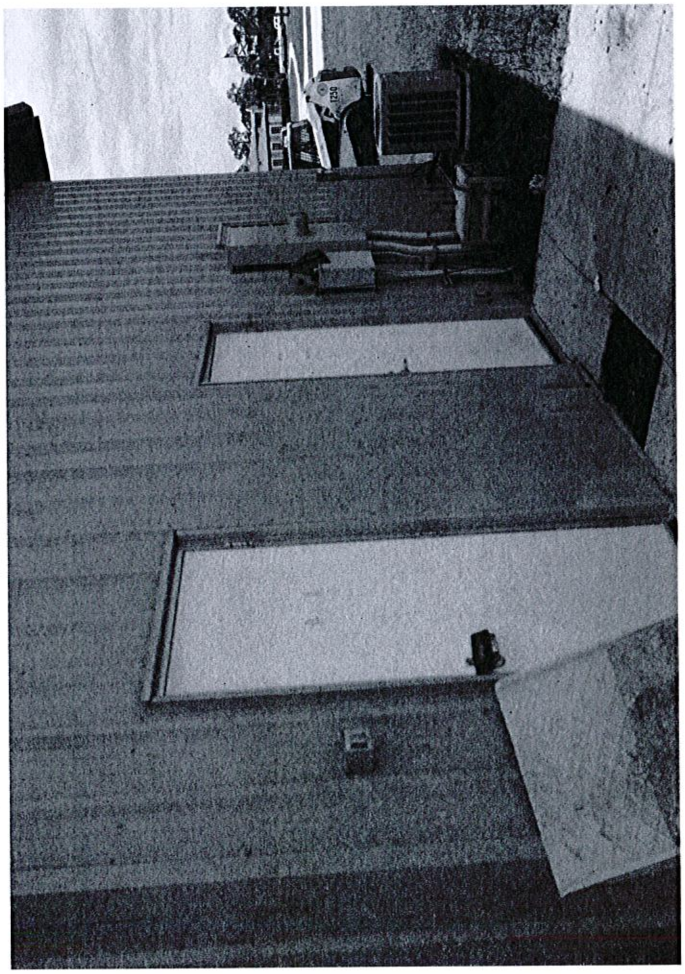
Sheduled MDWTP - Belleville, Michigan Wednesday evening



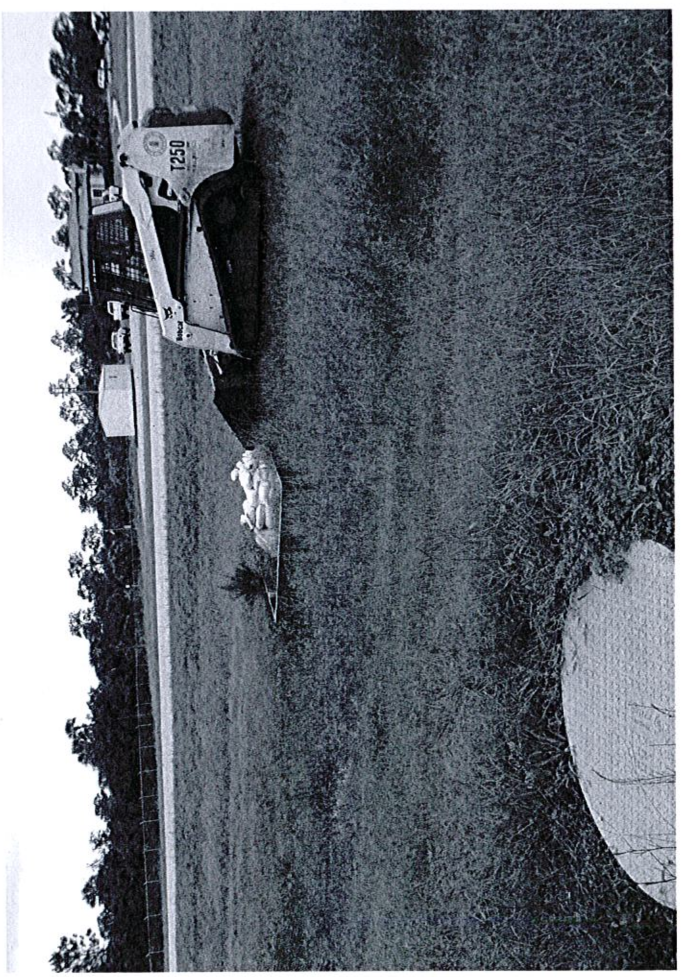







Bobcat


T250


Bobcat