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October 15, 2012

Mr. Michael Beslow
Federal On-Scene Coordinator
U.S. Environmental Protection Agency
Region 5 Emergency Response Branch
77 West Jackson Boulevard
Chicago, IL 60604

**Subject: Roland Dump Fire Site
Gary, Lake County, Indiana
Technical Direction Document No.: S05-0001-1208-028
Document Control No.: 1974-2A-BBDC
Work Order No.: 20405.012.001.1974.00**

Dear Mr. Beslow:

Under Technical Direction Document No. (TDD) S05-0001-1208-028, the United States Environmental Protection Agency (U.S. EPA) tasked the Weston Solutions, Inc. (WESTON[®]), Superfund Technical Assessment and Response Team (START) to conduct a site assessment at the Roland Dump Fire Site in Gary, Lake County, Indiana (the Site). On April 24, 2012, the Gary Fire Department (GFD) responded to a large brush fire at the Site of unknown origin. The GFD extinguished the flames, but the fire continued to smolder underground, with visible smoke and occasional small fire flare-ups. The Site recently had been compacted for the installation of railroad tracks. On August 31, 2012, the U.S. EPA requested site assessment support from WESTON START. The objectives of the site assessment were to document current site conditions; conduct air monitoring; collect air and soil samples; obtain photographic documentation; and evaluate the potential for imminent and substantial threats to the public health or welfare of the United States or the environment posed by Site conditions.

The scope of the TDD included the following:

- Generate a health and safety plan and a field sampling plan for on-site activities
- Collect air and soil samples
- Procure a commercial laboratory to analyze the samples
- Submit all samples collected to the laboratory for analysis
- Generate a final letter report

This letter report discusses the Site description, site assessment and sampling activities, sample analytical results, and threats to human health and the environment, and provides a summary and conclusions based on the site assessment results.



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SITE DESCRIPTION

The Roland Dump Fire Site is located at the former Roland Dump (with approximate coordinates of 41° 37' 41.6784"North latitude and 87° 24' 59.166"West longitude) near 6001 Industrial Highway in Gary, Lake County, Indiana. The Site is located in a commercial, industrial, and forested area. The Site is bounded by the Norfolk Southern Railway to the north, forested area to the east and west, and a railroad construction area to the south. **Figure A-1 in Attachment A** shows the Site location. A BP jet fuel pipeline is located next to the Norfolk Southern Railway north of the Site, and a CSX Railway is located further to the north. The Gary/Chicago International Airport is located approximately 0.6 mile southeast of the Site, and railroad construction activities currently are being conducted approximately 0.25 mile east-southeast of the Site. The Grand Calumet River is runs approximately 0.85 miles south and Lake Michigan is located approximately 0.5 miles northwest of the Site. Residences are located within a mile northwest and south of the Site.

The Site consists of an approximately 300- by 60-foot forested area with visible smoke underlain by smoldering waste material from historical dumping activities. Underground waste is visible in smoldering areas at the Site, and unmarked, rusted, and damaged 55-gallon steel drums and abandoned tires are visible above ground throughout the Site. Due to a lack of perimeter fencing, there is currently unrestricted access to the Site.

The Site is located within 14.3 acres of land formerly used as the Roland Dump, a construction and industrial waste landfill. Roland Dump operated from approximately 1978 through late 2009 under the ownership of Mr. Clifford Roland. In 2009, the unlined disposal property was graded and abandoned. The Gary/Chicago International Airport Authority purchased the former Roland Dump property in 2011 and remains the current owner. Phase I and Phase II environmental site assessments conducted at the Roland Dump property from 2006 through 2011 by various entities indicated the presence of contaminants in soil and groundwater.

SITE ASSESSMENT AND SAMPLING ACTIVITIES

On September 4, 2012, U.S. EPA On-Scene Coordinator (OSC) Mike Beslow, the GFD, and WESTON START conducted initial reconnaissance and sample coordination activities at the Site. Air and surface soil sampling locations were identified within the exclusion zone to characterize the area and outside of the exclusion zone to determine air quality in the surrounding area as a result of the smoldering waste. During the initial site reconnaissance outside of the exclusion zone, WESTON START conducted air monitoring in the breathing zone using a MultiRAE five-gas meter (MultiRAE) and MicroR gamma radiation detector. No readings were above background levels.



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On September 6, 2012, U.S. EPA, the GFD, and WESTON START personnel returned to the Site to conduct further site reconnaissance and sampling activities. **Attachment B** provides a photographic log documenting Site conditions and sampling activities. U.S. EPA tasked WESTON START to collect six SUMMA canister air samples at or near the Site and four surface soil samples with a field duplicate from the Site. **Figure A-2** in **Attachment A** shows the sampling locations. **Table C-1** in **Attachment C** provides a sample summary. Of the six air samples, one 8-hour sample was collected near the ongoing construction activities east of the Site, one 8-hour sample was collected upwind of the exclusion zone south of the Site, and four grab samples were collected in the visibly smoking areas within the exclusion zone. Two surface soil samples were collocated at the same locations as the air grab samples in visibly smoking areas within the exclusion zone, and the other two surface soil samples were collected next to unmarked, rusted, and damaged 55-gallon drums within the exclusion zone. The air sampling locations were screened using a MultiRAE plus, AreaRAE, and Personal DataRAM (PDR). **Table C-2** in **Attachment C** presents the air monitoring results.

The U.S. EPA and WESTON START conducted the air sampling and monitoring activities in the exclusion zone in Level B personal protective equipment (PPE). WESTON START conducted the surface soil sampling activities in Level B PPE.

The six air samples and four soil samples with the field duplicate were submitted to STAT Analysis Corporation of Chicago, Illinois, for laboratory analysis. Air samples were analyzed for volatile organic compounds (VOC) with tentatively identified compounds (TIC), and the soil samples were analyzed for semivolatile organic compounds (SVOC), metals, and corrosivity (pH).

SAMPLE ANALYTICAL RESULTS

Six air samples and four surface soil samples with a field duplicate were collected from the Site to determine if the Site poses imminent and substantial threats to human health, human welfare, or the environment. **Attachment D** provides the laboratory analytical and data validation reports for the samples. Air sample analytical results for VOCs with TICs were compared to both acute exposure criteria and chronic exposure criteria. Acute exposure criteria included the following:

- Agency for Toxic Substances and Disease Registry (ATSDR) Acute Minimal Risk Levels (MRL)
- ATSDR Intermediate MRLs
- ATSDR Environmental Media Evaluation Guide (EMEG) criteria



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Chronic exposure criteria included the following:

- U.S. EPA Reference Concentrations (RfC)
- 10 times the ATSDR Cancer Risk Evaluation Guide (CREG) criteria
- ATSDR Chronic MRLs
- ATSDR Intermediate MRLs
- ATSDR EMEG criteria
- U.S. EPA Regional Screening Levels (RSL)
- National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limits (REL)

Soil sample analytical results for SVOCs and metals were compared to U.S. EPA Removal Action Level (RAL) carcinogenic and non-carcinogenic criteria.

Table C-3 in **Attachment C** summarizes the air sampling VOC analytical results, **Table C-4** summarizes the air sampling TIC analytical results, and **Table C-5** summarizes the soil sampling analytical results. The results are summarized below.

- **Acute Exposure for VOCs in Air Samples:** Benzene was the only VOC detected above acute exposure screening criteria in the air samples. Other VOCs were detected in the samples at levels below the screening criteria. Benzene was detected in all four air samples collected from within the exclusion zone at concentrations ranging from 340 to 1,900 parts per billion by volume (ppbv). VOCs in air samples collected outside of the exclusion zone did not exceed the acute exposure screening criteria.
- **Chronic Exposure for VOCs in Air Samples:** VOCs detected above chronic exposure screening criteria in the air samples collected within the exclusion zone included 1,2,4-trimethylbenzene; 1,2-dichloroethane; 1,3-butadiene; benzene; carbon tetrachloride; chlorobenzene; chloroform; chloromethane; ethylbenzene; m,p-xylene; methylbenzene; naphthalene; o-xylene; propylene; styrene; trichloroethylene; and vinyl chloride. Sample GAF-OA5-090612 contained the most contaminants at concentrations above the chronic exposure screening criteria. Other VOCs were detected in the samples at levels below the screening criteria. VOCs in air samples collected outside of the exclusion zone did not exceed the chronic exposure screening criteria. VOCs detected above the chronic exposure screening criteria are discussed below.



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- 1,2,4-Trimethylbenzene was detected in all four air samples collected within the exclusion zone at concentrations ranging from 5.7 to 29 ppbv.
- 1,2-Dichloroethane was detected in air sample GAF-OA5-090612 at a concentration of 1.6 ppbv.
- 1,3-Butadiene was detected in all four air samples collected within the exclusion zone at concentrations ranging from 4.1 to 76 ppbv.
- Benzene was detected in all four air samples collected within the exclusion zone at concentrations ranging from 340 to 1,900 ppbv.
- Carbon tetrachloride was detected in air sample GAF-OA5-090612 at a concentration of 0.42 ppbv.
- Chlorobenzene was detected in all four air samples collected within the exclusion zone at concentrations ranging from 21 to 200 ppbv.
- Chloroform was detected in air samples GAF-OA3-090612, GAF-OA5-090612, and GAF-OA6-090612 at concentrations of 0.74, 1.5, and 0.65 ppbv, respectively.
- Chloromethane was detected in air sample GAF-OA5-090612 at a concentration of 52 ppbv.
- Ethylbenzene was detected in all four air samples collected within the exclusion zone at concentrations ranging from 71 to 720 ppbv.
- M,p-xylene was detected in air sample GAF-OA5-090612 at a concentration of 110 ppbv.
- Methylbenzene was detected in air samples GAF-OA4-090612, GAF-OA5-090612, and GAF-OA6-090612 at concentrations of 150, 940, and 320 ppbv, respectively.
- Naphthalene was detected in all four air samples collected within the exclusion zone at concentrations ranging from 12.6 to 132.1 ppbv.
- O-xylene was detected in air sample GAF-OA5-090612 at a concentration of 58 ppbv.
- Propylene was detected in air sample GAF-OA5-090612 at a concentration of 3,700 ppbv.
- Styrene was detected in air samples GAF-OA5-090612 and GAF-OA6-090612 at concentrations of 1,400 and 270 ppbv, respectively.
- Trichloroethylene was detected in air samples GAF-OA3-090612 and GAF-OA5-090612 at concentrations of 1.1 and 1.3 ppbv, respectively.
- Vinyl chloride was detected in all four air samples collected within the exclusion zone at concentrations ranging from 0.79 to 6.3 ppbv.



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- **Air Sample TICs:** TICs were detected in all six air samples.
- **Surface Soil SVOCs:** SVOCs were detected in the surface soil samples, but no SVOCs were detected above carcinogenic or non-carcinogenic screening criteria.
- **Surface Soil Metals:** Arsenic and vanadium were detected in surface soil samples above the screening criteria as discussed in detail below. Several other metals were detected in the four soil samples, but concentrations were below the screening criteria.
 - Arsenic was detected in soil sample GAF-S3-090612 at a concentration of 960 milligrams per kilogram (mg/kg), which exceeds both the carcinogenic and non-carcinogenic screening criteria.
 - Vanadium was detected in soil samples GAF-S2-090612 and GAF-S4-090612 at concentrations of 550 and 540 mg/kg, respectively, which exceed the non-carcinogenic screening criterion.
- **Surface Soil Corrosivity:** Results for pH in the surface soil samples ranged from 7.9 to 9.2 standard units and do not meet the definition of hazardous waste for the characteristic of corrosivity according to Title 40 of the *Code of Federal Regulations* (CFR), 261.22.

THREATS TO HUMAN HEALTH AND THE ENVIRONMENT

Factors to be considered in determining the appropriateness of a potential removal action at a Site are delineated in the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) at 40 CFR 300.415(b)(2). A summary of the factors applicable to the Site is presented below.

- **Actual or potential exposure of nearby human populations, animals, or the food chain to hazardous substances or pollutants or contaminants**

During the site assessment, WESTON START observed smoldering underground waste and 55-gallon drums throughout the Site. Air sampling results indicated the presence of contaminants, including benzene, at concentrations exceeding acute and chronic exposure criteria in the exclusion zone at the Site. Soil sampling results indicated the presence of metals in shallow soils at concentrations exceeding carcinogenic and non-carcinogenic criteria.

The Site is located in a commercial, industrial, and forested area; therefore, humans and wildlife are in close proximity to the Site. The Site is not fenced, allowing unrestricted access by trespassers and wildlife. The continued burning waste and drums with unknown contents, and resulting emissions, pose a potential inhalation threat to trespassers and wildlife traversing the Site. Depending on wind direction and the level of smoldering activity, the Site could post an inhalation threat to nearby construction,



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railroad and/or pipeline workers. Wildlife foraging at the Site could potentially be exposed to contaminants in shallow soil.

- **Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release**

The 55-gallon drums observed throughout the Site were unlabeled, rusted, damaged, and contained potentially hazardous waste. Further deterioration could allow hazardous substances to be released into the environment, and the drums' proximity to the burning waste at the Site could result in the ignition of the drum contents.

- **High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface that may migrate**

During the site assessment, a high concentration of arsenic was detected in the soil sample collected from location S3 and high concentrations of vanadium were detected in the soil samples collected from locations S2 and S4. Contaminants in surface soil could migrate to groundwater as the dump is unlined, and by overland flow as a result of precipitation.

- **Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released**

Contaminants in surface soil could migrate as a result of precipitation and overland flow. Conversely, dry and windy conditions could increase smoke and air contaminant dispersion.

- **Threat of fire or explosion**

The threat of fire and explosion at the Site is high based on the continuous presence of smoldering waste throughout the Site.

SUMMARY AND CONCLUSIONS

During the site assessment, WESTON START collected six air samples and four surface soil samples to determine if the Site poses imminent and substantial threats to human health, human welfare, or the environment from the presence of potentially hazardous waste. The two air samples collected outside of the exclusion zone indicated the presence of VOCs, but VOC concentrations did not exceed the applicable acute or chronic exposure screening criteria. The four air samples collected within the exclusion zone indicated the presence of many VOCs at detectable concentrations. Several VOCs detected in the four exclusion zone air samples exceeded the chronic exposure screening criteria, and benzene exceeded the acute exposure screening criteria in each exclusion zone air sample. In addition, TICs were detected in all six air samples.



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Several SVOCs were detected in surface soil samples, but no SVOCs were detected above the carcinogenic or non-carcinogenic screening criteria. The metal arsenic was detected in one surface soil sample above both carcinogenic and non-carcinogenic criteria, and vanadium was detected above the non-carcinogenic criterion in two surface soil samples. Several other metals were detected in the soil samples, but were detected at levels below the screening criteria.

The following uncontrolled hazards were identified at the Site during the site assessment that:

- Continuously smoldering and burning waste
- Contaminants at levels exceeding applicable screening criteria in air and soil samples collected from the Site
- Unknown waste contents in unlabeled, rusted and damaged drums
- Unrestricted Site access

Several factors to be considered for the appropriateness of a removal action are applicable to the Site and include the following:

- Actual or potential exposure of nearby human populations, animals, or the food chain to hazardous substances or pollutants or contaminants
- Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release
- High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface that may migrate
- Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released
- Threat of fire or explosion



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This letter report serves as the final deliverable for this TDD. WESTON START anticipates no further activities under this TDD. If you have any questions or comments about the report or need additional copies, please contact me at (847) 918-4069.

Very truly yours,
WESTON SOLUTIONS, INC.

A handwritten signature in blue ink, appearing to read "HMGorrill", is written over the typed name.

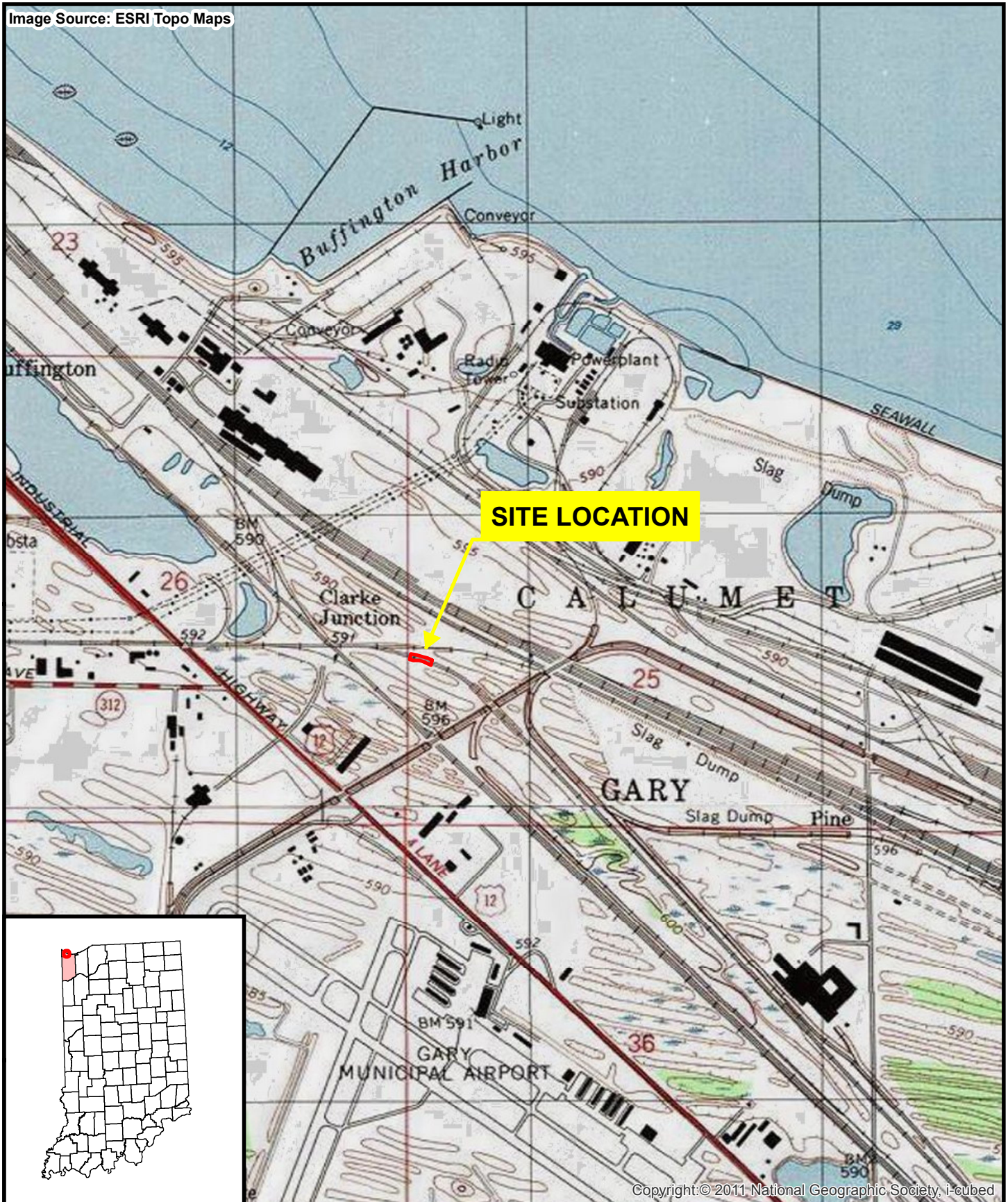
Heidi M. Gorrill
WESTON START Project Manager

Attachments:

- A – Figures
- B – Photographic Documentation
- C – Tables
- D – Laboratory Analytical and Data Validation Reports

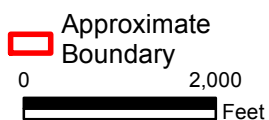
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ATTACHMENT A
FIGURES



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Legend



Prepared for:
U.S. EPA REGION V

Contract No.: EP-S5-06-04
TDD: S05-0001-1208-028
DCN: 1974-2A-BBDC



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Figure A-1
Site Location Map
Roland Dump Fire Site
Gary, Lake County, Indiana

Imagery Source: ESRI Bing Maps



Image courtesy of the IndianaMap © 2012 Microsoft Corporation © 2010 NAVTEQ © AND

Legend

- Summa Canister 8-hour
- Summa Canister Air Grab
- Soil

0 150 Feet



Prepared For:
U.S. EPA REGION V
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Figure A-2
Sampling Locations
Roland Dump Fire Site
Gary, Lake County, Indiana

ATTACHMENT B
PHOTOGRAPHIC DOCUMENTATION



Site: Roland Dump Fire Site

Photo Number: 1

Direction: North

Subject: View of the Site with CSX and Norfolk Southern railways in the distance

Date: September 4, 2012

Photographer: Jeff Bryniarski



Site: Roland Dump Fire Site

Photo Number: 2

Direction: Northwest

Subject: Visible smoke at several distinct areas at the Site and Norfolk Southern Railway to the north

Date: September 4, 2012

Photographer: Jeff Bryniarski



Site: Roland Dump Fire Site

Photo Number: 3

Direction: Southeast

Date: September 6, 2012

Photographer: Shauna Ross

Subject: SUMMA sample OA1 near construction activities along Norfolk Southern Railway



Site: Roland Dump Fire Site

Photo Number: 4

Direction: Northeast

Date: September 6, 2012

Photographer: Shauna Ross

Subject: SUMMA sample OA2 located downwind of the Site with PDR and AreaRAE screening



Site: Roland Dump Fire Site

Photo Number: 5

Direction: Southeast

Subject: View of construction activities from the Site

Date: September 6, 2012

Photographer: Shauna Ross



Site: Roland Dump Fire Site

Photo Number: 6

Direction: Northwest

Subject: Visible smoke and discarded tires at the Site

Date: September 6, 2012

Photographer: Shauna Ross



Site: Roland Dump Fire Site

Photo Number: 7

Direction: South

Subject: START and U.S. EPA conducting air monitoring and air sampling at location OA3

Date: September 6, 2012

Photographer: Shauna Ross



Site: Roland Dump Fire Site

Photo Number: 8

Direction: Southwest

Subject: START and U.S. EPA conducting air monitoring and air sampling at location OA4

Date: September 6, 2012

Photographer: Shauna Ross



Site: Roland Dump Fire Site

Photo Number: 9

Direction: South

Subject: U.S. EPA conducting air monitoring at location OA5

Date: September 6, 2012

Photographer: Shauna Ross



Site: Roland Dump Fire Site

Photo Number: 10

Direction: West

Subject: START conducting air monitoring and air sampling at location OA6, with a visible small flare-up

Date: September 6, 2012

Photographer: Shauna Ross



Site: Roland Dump Fire Site

Photo Number: 11

Direction: South

Subject: START conducting soil sampling at location S2

Date: September 6, 2012

Photographer: Michael Beslow



Site: Roland Dump Fire Site

Photo Number: 12

Direction: South

Subject: START identifying smoldering tire waste at soil sampling location S2

Date: September 6, 2012

Photographer: Michael Beslow



Site: Roland Dump Fire Site

Photo Number: 13

Direction: South

Subject: Drums located at soil sample location S1

Date: September 6, 2012

Photographer: Shauna Ross



Site: Roland Dump Fire Site

Photo Number: 14

Direction: South

Subject: Drums located at soil sample location S3 with adjacent visible smoke

Date: September 6, 2012

Photographer: Shauna Ross

**ATTACHMENT C
TABLES**

Table C-1
Sample Summary
Roland Dump Fire Site
Gary, Lake County, Indiana

Field Sample Identification No.	Sampling Date	Sampling Time	Sample Type	Sampling Location	Sample Description	Sample Analyses
Air Samples						
GAF-OA1-090612	9/6/2012	1055	8-hour, Field Sample	Near the ongoing construction activities to the east of the Site	No visible smoke or smoke odor noted	VOCs with TIC
GAF-OA2-090612	9/6/2012	1105	8-hour, Field Sample	Upwind of the exclusion zone to the south of the Site	No visible smoke & strong smoke odor noted	
GAF-OA3-090612	9/6/2012	1218	Grab, Field Sample	On the far east end of the exclusion zone	Directly in smoke near visibly smoldering waste material	
GAF-OA4-090612	9/6/2012	1223	Grab, Field Sample	On the east side of the exclusion zone	Directly in smoke near visibly smoldering waste material	
GAF-OA5-090612	9/6/2012	1238	Grab, Field Sample	On the west side of the exclusion zone	Directly in smoke near visibly smoldering waste material	
GAF-OA6-090612	9/6/2012	1242	Grab, Field Sample	On the far west end of the exclusion zone	Directly in smoke near visibly smoldering waste material	
Surface Soil Samples						
GAF-S1-090612	9/6/2012	1322	Grab, Field Sample	Adjacent to several 55-gallon steel drums, between air sample locations OA3 & OA4	Non-smoldering soil with no visible staining	SVOCs & metals
GAF-S2-090612 GAF-S2-090612-DP	9/6/2012	1325	Grab, Field Sample & Field Duplicate	Collocated with air sample OA4	Smoldering surface soil with tire material noted within the waste	
GAF-S3-090612	9/6/2012	1332	Grab, Field Sample	Adjacent to several 55-gallon steel drums, between air sample locations OA5 & OA6	Non-smoldering surface soil with no visible staining	
GAF-S4-090612	9/6/2012	1336	Grab, Field Sample	Collocated with air sample OA6	Smoldering surface soil	

Notes:

SVOC = Semivolatile organic compound

TIC = Tentatively identified compound

VOC = Volatile organic compound

Table C-2
Air Monitoring Results
Roland Dump Fire Site
Gary, Lake County, Indiana

Screening Location	Screening Date	Particulate Screening Result (mg/m ³)	MultiRAE VOC Screening Result (ppm)	AreaRAE VOC Screening Result (ppm)
OA1	9/6/2012	ND	ND	ND
OA2	9/6/2012	ND	ND	ND
OA3	9/6/2012	ND	ND	ND
OA4	9/6/2012	ND	ND	ND
OA5	9/6/2012	0.844	ND	0.4
OA6	9/6/2012	7.500	2.0	ND
Multiple ¹	9/6/2012	0.036	ND	ND

Notes:

¹Air monitoring conducted during Site Walk prior to sampling

mg/m³ = Milligram per cubic meter

ND = Non-detect

ppm = Part per million

VOC = Volatile organic compound

Table C-3
Air Sampling VOC Analytical Results
Roland Dump Fire Site
Gary, Lake County, Indiana

											Field Sample ID	GAF-OA1-090612	GAF-OA2-090612	GAF-OA3-090612	GAF-OA4-090612	GAF-OA5-090612	GAF-OA6-090612
											Sample Date	9/6/2012	9/6/2012	9/6/2012	9/6/2012	9/6/2012	9/6/2012
Chemical Name	Acute Exposure Criteria			Chronic Exposure Criteria							Sample Matrix	Air	Air	Air	Air	Air	Air
	ATSDR-Acute MRL	ATSDR-Intermediate MRL	ATSDR-EMEG	U.S. EPA RfC	10X ATSDR-CREG	ATSDR-Chronic MRL	ATSDR-Intermediate MRL	ATSDR-EMEG	U.S. EPA-RSL	NIOSH-REL	Unit						
1,1,1-Trichloroethane	2000	--	--	--	--	--	700	--	--	--	ppbv	0.37 U	0.41 U	0.32 U	0.31 U	0.31 U	0.32 U
1,1,2,2-Tetrachloroethane	--	--	--	--	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	0.32 U	0.31 U	0.31 U	0.32 U
1,1,2-Trichloroethane	--	--	--	--	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	0.32 U	0.31 U	0.31 U	0.32 U
1,1-Dichloroethane	--	--	--	--	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	0.32 U	0.31 U	0.31 U	0.32 U
1,1-Dichloroethylene	--	--	--	--	--	--	--	20	--	--	ppbv	0.37 U	0.41 U	0.51	0.31 U	0.83	0.32 U
1,2,4-Trichlorobenzene	--	--	--	--	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	3.1	2.4	11	2
1,2,4-Trimethylbenzene	--	--	--	1.48	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	5.7	5.8	29	15
1,2-Dibromoethane	--	--	--	--	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	0.32 U	0.31 U	0.31 U	0.32 U
1,2-Dichlorobenzene	--	--	--	35	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	7.2	4.9	33	4.5
1,2-Dichloroethane	--	--	--	--	0.1	--	--	--	--	--	ppbv	0.37 U	0.41 U	0.32 U	0.31 U	1.6	0.32 U
1,2-Dichloropropane	50	--	--	0.9	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	0.32 U	0.31 U	0.31 U	0.32 U
1,2-Dichlorotetrafluoroethane; Fluorocarbon 114	--	--	--	--	--	--	--	--	--	--	ppbv	1.9 U	2.1 U	1.6 U	1.6 U	1.6 U	1.6 U
1,3,5-Trimethylbenzene	--	--	--	--	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	15	17	66	25
1,3-Butadiene	100	--	--	0.9	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	4.1	13	76	50
1,4-Dichlorobenzene	2000	--	--	--	--	--	--	10	--	--	ppbv	0.37 U	0.41 U	1.9	1.3	7.5	1.2
1,4-Dioxane	--	--	2000	--	--	--	--	1000	--	--	ppbv	0.93 U	1 U	20	9.3	130	22
2-Butanone	--	--	--	2000	--	--	--	--	--	--	ppbv	0.93 U	1 U	18	15	130	51
4-Ethyltoluene	--	--	--	--	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	2.9	3.1	12	7.1
4-Methyl-2-Pentanone	--	--	--	700	--	--	--	--	--	--	ppbv	1.9 U	2.1 U	8.1	4.8	18	12
Acetone	30000	--	--	13400	--	--	--	--	--	--	ppbv	3.7	4.7	200	140	910	330
Benzene	9	--	--	--	0.4	--	--	--	--	--	ppbv	0.37 U	0.41 U	450	340	1900	690
Benzyl Chloride	--	--	--	--	--	--	--	--	--	--	ppbv	0.93 U	1 U	0.79 U	0.78 U	1.7	0.79 U
Bromodichloromethane	--	--	--	--	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	0.32 U	0.31 U	0.31 U	0.32 U
Bromomethane	50	--	--	--	--	5	--	--	--	--	ppbv	0.93 U	1 U	0.79 U	0.78 U	1.3	0.79 U
Carbon Disulfide	--	--	--	--	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	0.32 U	0.31 U	0.87	0.32 U
Carbon Tetrachloride	--	30	--	--	0.3	--	--	--	--	--	ppbv	0.37 U	0.41 U	0.32 U	0.31 U	0.42	0.32 U
Cfc-11	--	--	--	--	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	0.32 U	0.31 U	0.31 U	0.32 U
Cfc-12	--	--	--	--	--	--	--	--	--	--	ppbv	0.47	0.47	0.32 U	0.31	0.31 U	0.32 U
Chlorinated Fluorocarbon (Freon 113)	--	--	--	--	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	0.32 U	0.31 U	0.31 U	0.32 U
Chlorobenzene	--	--	--	11.3	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	33	24	200	21
Chlorodibromomethane	--	--	--	--	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	0.32 U	0.31 U	0.31 U	0.32 U
Chloroethane	20000	--	--	4000	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	6.6	3.1	22	6.4
Chloroform	100	--	--	--	0.09	--	--	--	--	--	ppbv	0.37 U	0.41 U	0.74	0.31 U	1.5	0.65
Chloromethane	500	--	--	40	--	--	--	--	--	--	ppbv	0.93 U	1 U	27	11	52	17
Cis-1,2-Dichloroethene	--	--	--	--	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	0.32 U	0.31 U	0.31 U	0.32 U

Table C-3
Air Sampling VOC Analytical Results
Roland Dump Fire Site
Gary, Lake County, Indiana

											Field Sample ID	GAF-OA1-090612	GAF-OA2-090612	GAF-OA3-090612	GAF-OA4-090612	GAF-OA5-090612	GAF-OA6-090612
											Sample Date	9/6/2012	9/6/2012	9/6/2012	9/6/2012	9/6/2012	9/6/2012
Chemical Name	Acute Exposure Criteria			Chronic Exposure Criteria							Sample Matrix	Air	Air	Air	Air	Air	Air
	ATSDR-Acute MRL	ATSDR-Intermediate MRL	ATSDR-EMEG	U.S. EPA RfC	10X ATSDR-CREG	ATSDR-Chronic MRL	ATSDR-Intermediate MRL	ATSDR-EMEG	U.S. EPA-RSL	NIOSH-REL	Unit						
Cis-1,3-Dichloropropene	--	--	--	--	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	0.32 U	0.31 U	0.31 U	0.32 U
Cyclohexane	--	--	--	1830	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	1.5	0.92	6.3	2.3
Dichloromethane	600	--	--	--	6	--	--	--	--	--	ppbv	3.7 U	4.1 U	3.2 U	3.1 U	3.1 U	3.2 U
Ethyl Acetate	--	--	--	--	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	0.58	0.31 U	1.3	0.49
Ethylbenzene	5000	--	--	--	--	--	--	--	0.22	--	ppbv	0.37 U	0.41 U	71	71	720	310
Hexachloro-1,3-Butadiene	--	--	--	--	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	0.32 U	0.31 U	0.31 U	0.32 U
Hexane	--	--	--	207	--	--	--	--	--	--	ppbv	0.93 U	1 U	22	16	68	37
Isopropyl Alcohol (Manufacturing-Strong Acid)	--	--	--	--	--	--	--	--	--	400000	ppbv	1.9 U	2.1 U	5.5	3.1	28	9.6
M,P-Xylene	2000	--	--	--	--	50	--	--	--	--	ppbv	0.75 U	0.82 U	18	21	110	40
M-Dichlorobenzene	--	--	--	--	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	6.1	3.7	18	5
Methyl N-Butyl Ketone	--	--	--	--	--	--	--	--	--	--	ppbv	1.9 U	2.1 U	1.6 U	1.6 U	1.6 U	1.6 U
Methyl Tert-Butyl Ether	--	--	--	--	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	0.32 U	0.31 U	0.31 U	0.32 U
Methylbenzene	1000	--	--	--	--	80	--	--	--	--	ppbv	0.37 U	0.41 U	76	150	940	320
Naphthalene	--	--	--	0.6	--	--	--	--	--	--	ppbv			12.6	15.2	132.1	47.8
N-Heptane	--	--	--	--	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	16	12	60	29
O-Xylene	2000	--	--	--	--	50	--	--	--	--	ppbv	0.37 U	0.41 U	9	10	58	25
Propylene (Propene)	--	--	--	1800	--	--	--	--	--	--	ppbv	3.7 U	4.1 U	65	350	3700	810
Styrene (Monomer)	5000	--	--	200	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	70	70	1400	270
Tetrachloroethene	200	--	--	--	6	--	--	--	--	--	ppbv	0.37 U	0.41 U	2.3	0.42	4.2	0.9
Tetrahydrofuran	--	--	--	--	--	--	--	--	--	200000	ppbv	0.93 U	1 U	17	6.5	310	19
Trans-1,2-Dichloroethene	--	--	--	--	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	0.32 U	0.31 U	0.31 U	0.32 U
Trans-1,3-Dichloropropene	--	--	--	--	--	--	--	--	--	--	ppbv	0.37 U	0.41 U	0.32 U	0.31 U	0.31 U	0.32 U
Tribomomethane	--	--	--	--	--	--	--	--	--	--	ppbv	0.93 U	1 U	0.79 U	0.78 U	0.79 U	0.79 U
Trichloroethylene	100	--	--	--	0.45	--	--	--	--	--	ppbv	0.37 U	0.41 U	1.1	0.31 U	1.3	0.43
Vinyl Acetate	--	--	--	60	--	--	--	--	--	--	ppbv	3.7 U	4.1 U	3.2 U	3.1 U	3.1 U	3.2 U
Vinyl Chloride	500	--	--	--	0.4	--	--	--	--	--	ppbv	0.37 U	0.41 U	1	1.6	6.3	0.79
Xylenes, Total	--	--	--	--	--	--	--	--	--	--	ppbv	1.1 U	1.2 U	27	32	170	65

Notes:

Result exceeds Acute & Chronic Criteria

Result exceeds Chronic Criteria

"--" = Not applicable

ATSDR = Agency for Toxic Substances and Disease Registry

CREG = Cancer Risk Evaluation Guide

ID = Identification

EMEG = Environmental Media Evaluation Guide

U.S. EPA = United States Environmental Protection Agency

MRL = Minimal Risk Level

NIOSH = National Institute for Occupational Safety and Health

ppbv = Part per billion by volume

REL = Recommended Exposure Limit

RfC = Reference Concentration

RSL = Regional Screening Level

U = Not detected the associated numerical value is the reporting limit

Table C-4
Air Sampling TIC Analytical Results
Roland Dump Fire Site
Gary, Lake County, Indiana

	Field Sample ID	GAF-OA1-090612	GAF-OA2-090612	GAF-OA3-090612	GAF-OA4-090612	GAF-OA5-090612	GAF-OA6-090612
	Sample Date	9/6/2012	9/6/2012	9/6/2012	9/6/2012	9/6/2012	9/6/2012
	Sample Matrix	Air	Air	Air	Air	Air	Air
Chemical Name	Unit						
1,1'- (1,3-Propanediyl) Bis Benzene	ppbv	--	--	--	6.6	--	--
1-Methyl Naphthalene	ppbv	--	--	--	--	--	5.6
1-Nonanal	ppbv	0.2	0.41	--	--	--	--
2-Methylnaphthalene	ppbv	--	--	--	--	--	8.4
2-Methylpentane	ppbv	--	--	52.8	46.6	48.2	82.5
2-Methylpentane	ppbv	--	--	--	--	42.7	101.6
4-Methyl-2-Pentene	ppbv	--	--	--	--	--	56.6
Acetaldehyde	ppbv	0.9	0.41	--	--	--	--
Acetonitrile	ppbv	--	--	37.4	32.5	64.9	65.3
Acetophenone	ppbv	--	--	10	15.8	--	10.4
Alpha-Methylstyrene	ppbv	--	--	22.5	51.5	25	24.9
Benzaldehyde	ppbv	--	--	10.6	19.8	12.7	13.2
Benzenebutanenitrile	ppbv	--	--	--	--	185	--
Butane	ppbv	--	--	25.6	20.8	33.1	35.5
Butyraldehyde	ppbv	--	--	9.5	--	--	--
C10H20 Olefinic Hydrocarbon	ppbv	--	--	--	11.5	--	--
C10H22 Aliphatic Hydrocarbon	ppbv	--	--	--	--	--	10.1
C11H24 Aliphatic Hydrocarbon	ppbv	--	--	4.4	8.6	--	--
C11H24 Aliphatic Hydrocarbon	ppbv	--	--	4.5	--	--	--
C12H24 Olefinic Hydrocarbon	ppbv	--	--	--	6.3	--	--
C12H24 Olefinic Hydrocarbon	ppbv	--	--	--	7.7	--	--
C12H24 Olefinic Hydrocarbon	ppbv	--	--	--	6	--	--
C12H24 Olefinic Hydrocarbon	ppbv	--	--	--	9.4	--	--
C15H30 Olefinic Hydrocarbon	ppbv	--	--	--	6.8	--	--
C3 Alkylbenzene	ppbv	--	--	--	47.5	--	--
C3 Alkylbenzene	ppbv	--	--	22.5	14.7	16.4	22.6
C4 Alkylbenzene	ppbv	--	--	--	18.4	--	9.3
C4 Alkylbenzene	ppbv	--	--	6.3	8.6	13.2	7.4
C4H8 Olefinic Hydrocarbon	ppbv	--	--	--	--	76.4	212.4

Table C-4
Air Sampling TIC Analytical Results
Roland Dump Fire Site
Gary, Lake County, Indiana

	Field Sample ID	GAF-OA1-090612	GAF-OA2-090612	GAF-OA3-090612	GAF-OA4-090612	GAF-OA5-090612	GAF-OA6-090612
	Sample Date	9/6/2012	9/6/2012	9/6/2012	9/6/2012	9/6/2012	9/6/2012
	Sample Matrix	Air	Air	Air	Air	Air	Air
Chemical Name	Unit						
C5 Alkylbenzene	ppbv	--	--	--	--	--	5.6
C5H10 Olefinic Hydrocarbon	ppbv	--	--	15.2	28.2	23.5	--
C5H10 Olefinic Hydrocarbon	ppbv	--	--	131.7	23.9	16.7	--
C5H10 Olefinic Hydrocarbon	ppbv	--	--	45.1	55.9	--	--
C6H12 Olefinic Hydrocarbon	ppbv	--	--	33	--	--	--
C7H14 Olefinic Hydrocarbon	ppbv	--	--	7.8	--	24.3	--
C7H14 Olefinic Hydrocarbon	ppbv	--	--	6.9	--	13.4	--
C7H16 Aliphatic Hydrocarbon	ppbv	--	--	6.5	--	--	--
C7H16 Aliphatic Hydrocarbon	ppbv	--	--	12.1	--	--	--
C8H16 Olefinic Hydrocarbon	ppbv	--	0.41	--	--	10.8	--
C8H18 Aliphatic Hydrocarbon	ppbv	--	--	8.9	9.2	10.4	7.6
C8H18 Aliphatic Hydrocarbon	ppbv	--	--	8.1	15.9	--	--
C9H18 Olefinic Hydrocarbon	ppbv	--	--	15.1	37.3	17.2	13.6
C9H20 Aliphatic Hydrocarbon	ppbv	--	--	--	8.1	--	--
Cyclohexene	ppbv	--	--	--	--	26.4	--
Cyclopentadiene	ppbv	--	--	--	--	--	46.3
Cyclopentanone	ppbv	--	--	4.9	19.2	11.8	--
Cyclopentene	ppbv	--	--	29.1	30.5	39.8	63
Dimethyldioxane	ppbv	--	--	7.9	9.6	10.7	--
Dimethylpentene	ppbv	--	--	--	--	--	13.2
Hexadiene	ppbv	--	--	--	--	29.2	15.3
Hexamethylcyclotrisiloxane	ppbv	0.6	0.41	--	--	--	--
Hexanal	ppbv	--	0.41	--	--	--	--
Hexenol	ppbv	--	--	--	--	--	13.4
Isobutane	ppbv	--	--	17.5	--	--	--
Isoprene	ppbv	1.7	0.41	--	--	15.7	29.5
Methyl Propyl Ketone	ppbv	0.4	--	9.3	--	17.5	16.5
Methylcyclopentene	ppbv	--	--	--	--	16.2	--
Methylfuran	ppbv	--	--	--	--	5.2	--

Table C-4
Air Sampling TIC Analytical Results
Roland Dump Fire Site
Gary, Lake County, Indiana

	Field Sample ID	GAF-OA1-090612	GAF-OA2-090612	GAF-OA3-090612	GAF-OA4-090612	GAF-OA5-090612	GAF-OA6-090612
	Sample Date	9/6/2012	9/6/2012	9/6/2012	9/6/2012	9/6/2012	9/6/2012
	Sample Matrix	Air	Air	Air	Air	Air	Air
Chemical Name	Unit						
Methylpentadiene	ppbv	--	--	--	--	23.9	--
Methylpentene	ppbv	--	--	--	--	26.5	--
N-Propyl Benzene	ppbv	--	--	5.9	--	10.8	8.2
Octanal	ppbv	--	0.41	--	--	--	--
Pentadiene	ppbv	--	--	--	--	9	--
Pentanal	ppbv	--	0.41	--	--	--	--
Pentane	ppbv	--	--	101.4	97	72.2	128.1
Pentene	ppbv	--	--	--	--	--	37.9
Phenol	ppbv	--	--	8.7	15.2	13.2	11.2

Notes:

"--" = Not applicable

ID = Identification

ppbv = Part per billion by volume

Table C-5
Soil Sampling Analytical Results
Roland Dump Fire Site
Gary, Lake County, Indiana

			Field Sample ID	GAF-S1-090612	GAF-S2-090612	GAF-S2-090612-DP	GAF-S3-090612	GAF-S4-090612
			Sample Date	9/6/2012	9/6/2012	9/6/2012	9/6/2012	9/6/2012
			Sample Matrix	Soil	Soil	Soil	Soil	Soil
Chemical Name	U.S. EPA RAL Carcinogenic	U.S. EPA RAL Non-Carcinogenic	Unit					
1,2,4-Trichlorobenzene	11000	915	mg/kg	0.2 U	10 J	8.9 J	0.2 U	1.9 U
1,2-Benzphenanthracene	23400	--	mg/kg	0.039 U	1 J	1.5 J	2.3	0.37 U
1,2-Dichlorobenzene	--	307000	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
1,4-Dichlorobenzene	--	--	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
2, 2'-Oxybis(1-Chloropropane)	--	--	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
2,4,5-Trichlorophenol	--	205000	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
2,4,6-Trichlorophenol	--	--	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
2,4-Dichlorophenol	--	--	mg/kg	0.2 U	2.2	2.1 U	0.2 U	1.9 U
2,4-Dimethylphenol	--	41000	mg/kg	0.2 U	13 J	14 J	0.2 U	1.9 U
2,4-Dinitrophenol	--	--	mg/kg	0.98 U	10 U	10 U	0.97 U	9.4 U
2,4-Dinitrotoluene	613	4070	mg/kg	0.039 U	0.4 U	0.4 U	0.039 U	0.37 U
2,6-Dinitrotoluene	--	--	mg/kg	0.039 U	0.4 U	0.4 U	0.039 U	0.37 U
2-Chloronaphthalene	--	273000	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
2-Chlorophenol	--	17000	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
2-Methylnaphthalene	--	--	mg/kg	0.2 U	17 J	31 J	0.2 U	1.9 U
2-Methylphenol	--	103000	mg/kg	0.2 U	31 J	39 J	0.2 U	1.9 U
2-Nitroaniline	--	20100	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
2-Nitrophenol	--	--	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
3,3'-Dichlorobenzidine	426	--	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
3,5,5-Trimethyl-2-Cyclohexene-1-One	--	--	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
3-Nitroaniline	--	--	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
4,6-Dinitro-2-Methylphenol	--	164	mg/kg	0.39 U	4 U	4 U	0.39 U	3.7 U
4-Bromophenyl Phenyl Ether	--	--	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
4-Chloro-3-Methylphenol	--	--	mg/kg	0.39 U	4 U	4 U	0.39 U	3.7 U
4-Chlorophenyl Phenyl Ether	--	--	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
4-Methylphenol	--	11900000000	mg/kg	0.2 U	21 J	26 J	0.2 U	1.9 U
4-Nitrophenol	--	--	mg/kg	0.39 U	4 U	4 U	0.39 U	3.7 U
Acenaphthene	--	110000	mg/kg	0.3	3.3 J	6 J	0.31	0.37 U
Acenaphthylene	--	--	mg/kg	0.039 U	0.4 U	0.4 U	0.39	0.37 U
Aluminum (Fume Or Dust)	--	3290000	mg/kg	23000	8200	9100	8000	14000
Aniline	--	--	mg/kg	0.39 U	19 J	4.1 U	0.39 U	3.8 U
Anthracene	--	550000	mg/kg	0.039 U	0.4 U	3.8 J	0.66	0.37 U
Antimony	--	1360	mg/kg	110	24 U	95	21 U	63
Arsenic	177	851	mg/kg	18	4.4	13	960	14
Barium	--	--	mg/kg	2400	460	1400	86	1700
Benz(A)Anthracene	234	--	mg/kg	0.039 U	0.59 J	0.56 J	1.9	0.37 U

Table C-5
Soil Sampling Analytical Results
Roland Dump Fire Site
Gary, Lake County, Indiana

			Field Sample ID	GAF-S1-090612	GAF-S2-090612	GAF-S2-090612-DP	GAF-S3-090612	GAF-S4-090612
			Sample Date	9/6/2012	9/6/2012	9/6/2012	9/6/2012	9/6/2012
			Sample Matrix	Soil	Soil	Soil	Soil	Soil
Chemical Name	U.S. EPA RAL Carcinogenic	U.S. EPA RAL Non-Carcinogenic	Unit					
Benzidine	0.833	6160	mg/kg	0.39 U	4 U	4 U	0.39 U	3.7 U
Benzo(A)Pyrene	--	--	mg/kg	0.039 U	0.79 J	0.4 U	1.9	0.37 U
Benzo(B)Fluoranthene	234	--	mg/kg	0.039 U	1.2 J	0.74 J	2.1	0.37 U
Benzo(G,H,I)Perylene	--	--	mg/kg	0.039 U	0.94 J	0.67 J	1.4	0.37 U
Benzo(K)Fluoranthene	2340	--	mg/kg	0.039 U	0.85 J	0.4 U	1.8	0.37 U
Benzoic Acid	--	--	mg/kg	0.98 U	10 U	10 U	0.97 U	9.4 U
Benzyl Alcohol	--	205000	mg/kg	0.2 U	2 U	2.4 J	0.2 U	1.9 U
Benzyl Butyl Phthalate	--	--	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
Beryllium	772000	6700	mg/kg	1.2	0.61 U	0.64 U	0.59	0.57 U
Bis(2-Chloroethoxy)Methane	--	6160	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
Bis(2-Chloroethyl)Ether	114	--	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
Bis(2-Ethylhexyl)Phthalate	--	--	mg/kg	2	38 J	57 J	0.97 U	18
Cadmium	--	--	mg/kg	84	9.7	39	1.6	31
Calcium Metal	--	--	mg/kg	110000	210000	38000	18000	220000
Carbazole	--	--	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
Chromium	--	--	mg/kg	650	1000	230	420	930
Cobalt	--	--	mg/kg	20	5.2	15	5.5	14
Copper	--	--	mg/kg	2800	500	1200	560	65000
Cyanide	--	--	mg/kg	1.2	0.66 J	13 J	0.8	8.4
Dibenz(A,H)Anthracene	23.4	--	mg/kg	0.039 U	0.4 U	0.4 U	0.52	0.37 U
Dibenzofuran	--	3410	mg/kg	0.2 U	3 J	9.7 J	0.39	1.9 U
Diethyl Phthalate	--	1640000	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
Dimethyl Phthalate	--	--	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
Di-N-Butyl Phthalate	--	205000	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
Di-N-Octyl Phthalate	--	--	mg/kg	0.2 U	7.2 J	6.6 J	0.2 U	3.1
Fluoranthene	--	73300	mg/kg	0.039 U	0.95 J	3.3 J	4.5	0.37 U
Fluorene	--	--	mg/kg	0.039 U	2.5 J	7.8 J	0.21	0.37 U
Hexachloro-1,3-Butadiene	--	--	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
Hexachlorobenzene	120	1640	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
Hexachlorocyclopentadiene	--	12300	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
Hexachloroethane	13700	2050	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
Indeno(1,2,3-Cd)Pyrene	234	--	mg/kg	0.039 U	0.74 J	0.44 J	1.2	0.37 U
Iron	--	2380000	mg/kg	170000	170000	100000	65000	190000
Lead	--	--	mg/kg	5900	890	5100	320	6600
Magnesium	--	--	mg/kg	27000	41000	11000	4300	44000
Manganese	--	75500	mg/kg	9600	30000	2500	2100	23000

Table C-5
Soil Sampling Analytical Results
Roland Dump Fire Site
Gary, Lake County, Indiana

			Field Sample ID	GAF-S1-090612	GAF-S2-090612	GAF-S2-090612-DP	GAF-S3-090612	GAF-S4-090612
			Sample Date	9/6/2012	9/6/2012	9/6/2012	9/6/2012	9/6/2012
			Sample Matrix	Soil	Soil	Soil	Soil	Soil
Chemical Name	U.S. EPA RAL Carcinogenic	U.S. EPA RAL Non- Carcinogenic	Unit					
M-Dichlorobenzene	--	--	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
Mercury	--	--	mg/kg	0.33	10	34	0.042	2.9
Methanamine, N-Methyl-N-Nitroso	--	--	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
Naphthalene	2000	2060	mg/kg	0.13	26 J	27 J	0.23	0.37 U
Nickel	7120000	65600	mg/kg	330	70	200	47	250
Nitrobenzene	2680	4110	mg/kg	0.039 U	0.4 U	0.4 U	0.039 U	0.37 U
N-Nitrosodi-N-Propylamine	--	--	mg/kg	0.039 U	0.4 U	0.4 U	0.039 U	0.37 U
N-Nitrosodiphenylamine	39100	--	mg/kg	0.039 U	0.4 U	0.4 U	0.039 U	0.37 U
P-Chloroaniline	958	8210	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
Pentachlorophenol	--	--	mg/kg	0.039 U	0.4 U	0.4 U	0.039 U	0.37 U
Ph	--	--	pH Units	7.9	8.2	8.3	8.1	9.2
Phenanthrene	--	--	mg/kg	0.084	1 J	27 J	2.3	0.37 U
Phenol	--	--	mg/kg	0.2 U	150 J	130 J	0.2 U	1.9 U
P-Nitroaniline	--	--	mg/kg	0.2 U	2 U	2.1 U	0.2 U	1.9 U
Potassium	--	--	mg/kg	890	180	270	480	250
Pyrene	--	55000	mg/kg	0.039 U	1.3 J	2.4 J	3.6	0.37 U
Pyridine	--	3410	mg/kg	0.79 U	8.1 U	8.2 U	0.79 U	7.6 U
Selenium	--	17000	mg/kg	2.6	1.2 U	1.3 U	1.1 U	2.1
Silver	--	--	mg/kg	3.3	1.2 U	3.9	1.1 U	2.5
Sodium	--	--	mg/kg	440	150	130	140	270
Thallium	--	--	mg/kg	1.3 U	1.2 U	1.3 U	1.1 U	1.1 U
Vanadium (Fume Or Dust)	--	238	mg/kg	230	550	100	25	540
Zinc	--	1020000	mg/kg	12000	2100	8700	1700	7000

Notes:

Result exceeds Carcinogenic Criteria

Result exceeds Non-Carcinogenic Criteria

--" = Not applicable

ID = Identification

J = Analyte detected below quantitation limits

mg/kg = Milligram per kilogram

RAL = Removal Action Level

U = Not detected the associated numerical value is the reporting limit

U.S. EPA = United States Environmental Protection Agency

ATTACHMENT D
LABORATORY ANALYTICAL AND DATA VALIDATION REPORTS

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

September 13, 2012

Weston Solutions
20 North Wacker Drive
Suite 1210
Chicago, IL 60606
Telephone: (847) 918-4094
Fax: (312) 424-3330

RE: 20405.012.001.1974.00, Rowland Dump Fire Site

STAT Project No: 12090166

Dear Tonya Balla:

STAT Analysis received 11 samples for the referenced project on 9/6/2012 8:15:00 PM. The analytical results are presented in the following report.

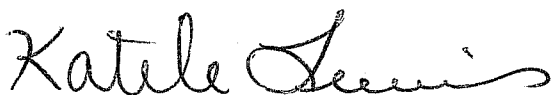
This report is revised to reflect additional analysis requested after the initial report was issued.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Katelin Lewis

Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

CLIENT: Weston Solutions
Project: 20405.012.001.1974.00, Rowland Dump Fire Si
Lab Order: 12090166

CASE NARRATIVE**SPECIAL COMMENTS RELATING TO TENTATIVELY IDENTIFIED COMPOUNDS (TICS):**

Up to 30 Tentatively Identified Compounds (TICs) were identified and reported. TICs were quantitated relative to internal standards, and therefore results are semi-quantitative. Compounds were identified using mass spectral interpretation techniques and a NIST reference library. All identifications were reviewed by an experienced mass spectrometrists.

TICs for each sample are flagged with a "Z" indicating an estimated concentration and a "*" indicating a non-accredited parameter.

Results that are reported in $\mu\text{g}/\text{m}^3$ are calculated based on a temperature of 25°C, atmospheric pressure of 760 mm Hg, and the molecular weight of the analyte.

Please refer to Analytical QC Summary Report for QC outliers.

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-OA1-090612

Lab Order: 12090166

Collection Date: 9/6/2012 10:55:00 AM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Air

Lab ID: 12090166-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS		TO-15		Prep Date: 9/6/2012		Analyst: VP
1,1,1-Trichloroethane	ND	0.37		ppbv	1	9/7/2012
1,1,2,2-Tetrachloroethane	ND	0.37		ppbv	1	9/7/2012
1,1,2-Trichloroethane	ND	0.37		ppbv	1	9/7/2012
1,1-Dichloroethane	ND	0.37		ppbv	1	9/7/2012
1,1-Dichloroethene	ND	0.37		ppbv	1	9/7/2012
1,2,4-Trichlorobenzene	ND	0.37		ppbv	1	9/7/2012
1,2,4-Trimethylbenzene	ND	0.37		ppbv	1	9/7/2012
1,2-Dibromoethane	ND	0.37		ppbv	1	9/7/2012
1,2-Dichlorobenzene	ND	0.37		ppbv	1	9/7/2012
1,2-Dichloroethane	ND	0.37		ppbv	1	9/7/2012
1,2-Dichloropropane	ND	0.37		ppbv	1	9/7/2012
1,3,5-Trimethylbenzene	ND	0.37		ppbv	1	9/7/2012
1,3-Butadiene	ND	0.37		ppbv	1	9/7/2012
1,3-Dichlorobenzene	ND	0.37		ppbv	1	9/7/2012
1,4-Dichlorobenzene	ND	0.37		ppbv	1	9/7/2012
1,4-Dioxane	ND	0.93		ppbv	1	9/7/2012
2-Butanone	ND	0.93		ppbv	1	9/7/2012
2-Hexanone	ND	1.9		ppbv	1	9/7/2012
4-Ethyltoluene	ND	0.37		ppbv	1	9/7/2012
4-Methyl-2-pentanone	ND	1.9		ppbv	1	9/7/2012
Acetone	3.7	3.7	*	ppbv	1	9/7/2012
Benzene	ND	0.37		ppbv	1	9/7/2012
Benzyl chloride	ND	0.93		ppbv	1	9/7/2012
Bromodichloromethane	ND	0.37		ppbv	1	9/7/2012
Bromoform	ND	0.93		ppbv	1	9/7/2012
Bromomethane	ND	0.93		ppbv	1	9/7/2012
Carbon disulfide	ND	0.37		ppbv	1	9/7/2012
Carbon tetrachloride	ND	0.37		ppbv	1	9/7/2012
Chlorobenzene	ND	0.37		ppbv	1	9/7/2012
Chloroethane	ND	0.37		ppbv	1	9/7/2012
Chloroform	ND	0.37		ppbv	1	9/7/2012
Chloromethane	ND	0.93		ppbv	1	9/7/2012
cis-1,2-Dichloroethene	ND	0.37		ppbv	1	9/7/2012
cis-1,3-Dichloropropene	ND	0.37		ppbv	1	9/7/2012
Cyclohexane	ND	0.37		ppbv	1	9/7/2012
Dibromochloromethane	ND	0.37		ppbv	1	9/7/2012
Dichlorodifluoromethane	0.47	0.37		ppbv	1	9/7/2012
Ethyl acetate	ND	0.37		ppbv	1	9/7/2012

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-OA1-090612

Lab Order: 12090166

Collection Date: 9/6/2012 10:55:00 AM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Air

Lab ID: 12090166-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS		TO-15			Prep Date: 9/6/2012	Analyst: VP
Ethylbenzene	ND	0.37		ppbv	1	9/7/2012
Freon-113	ND	0.37		ppbv	1	9/7/2012
Freon-114	ND	1.9		ppbv	1	9/7/2012
Heptane	ND	0.37		ppbv	1	9/7/2012
Hexachlorobutadiene	ND	0.37		ppbv	1	9/7/2012
Hexane	ND	0.93		ppbv	1	9/7/2012
Isopropyl Alcohol	ND	1.9		ppbv	1	9/7/2012
m,p-Xylene	ND	0.75		ppbv	1	9/7/2012
Methyl tert-butyl ether	ND	0.37		ppbv	1	9/7/2012
Methylene chloride	ND	3.7		ppbv	1	9/7/2012
o-Xylene	ND	0.37		ppbv	1	9/7/2012
Propene	ND	3.7		ppbv	1	9/7/2012
Styrene	ND	0.37		ppbv	1	9/7/2012
Tetrachloroethene	ND	0.37		ppbv	1	9/7/2012
Tetrahydrofuran	ND	0.93		ppbv	1	9/7/2012
Toluene	ND	0.37		ppbv	1	9/7/2012
trans-1,2-Dichloroethene	ND	0.37		ppbv	1	9/7/2012
trans-1,3-Dichloropropene	ND	0.37		ppbv	1	9/7/2012
Trichloroethene	ND	0.37		ppbv	1	9/7/2012
Trichlorofluoromethane	ND	0.37		ppbv	1	9/7/2012
Vinyl acetate	ND	3.7		ppbv	1	9/7/2012
Vinyl chloride	ND	0.37		ppbv	1	9/7/2012
Xylenes, Total	ND	1.1		ppbv	1	9/7/2012

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation:

2242 W. Harrison, Suite 200, Chicago, Illinois 60612

Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL 300001; AIHA 101160; NVLAP LabCode 101202-0)

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-OA1-090612

Lab Order: 12090166

Collection Date: 9/6/2012

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Air

Lab ID: 12090166-001A

Analyses	$\mu\text{g}/\text{m}^3$	ppbv	Qualifier	DF	Date Analyzed
TVOC as toluene	71	19		1	
Tentatively Identified Compounds (TICS)					
Acetaldehyde	1.6	0.9	Z*	1	9/6/2012
Isoprene	4.6	1.7	Z*	1	9/6/2012
Pentanone	1.5	0.4	Z*	1	9/6/2012
Hexamethylcyclotrisiloxane	5.8	0.6	Z*	1	9/6/2012
Nonanal	1.1	0.2	Z*	1	9/6/2012

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-OA2-090612

Lab Order: 12090166

Collection Date: 9/6/2012 11:05:00 AM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Air

Lab ID: 12090166-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS		TO-15		Prep Date: 9/6/2012		Analyst: VP
1,1,1-Trichloroethane	ND	0.41		ppbv	1	9/7/2012
1,1,2,2-Tetrachloroethane	ND	0.41		ppbv	1	9/7/2012
1,1,2-Trichloroethane	ND	0.41		ppbv	1	9/7/2012
1,1-Dichloroethane	ND	0.41		ppbv	1	9/7/2012
1,1-Dichloroethene	ND	0.41		ppbv	1	9/7/2012
1,2,4-Trichlorobenzene	ND	0.41		ppbv	1	9/7/2012
1,2,4-Trimethylbenzene	ND	0.41		ppbv	1	9/7/2012
1,2-Dibromoethane	ND	0.41		ppbv	1	9/7/2012
1,2-Dichlorobenzene	ND	0.41		ppbv	1	9/7/2012
1,2-Dichloroethane	ND	0.41		ppbv	1	9/7/2012
1,2-Dichloropropane	ND	0.41		ppbv	1	9/7/2012
1,3,5-Trimethylbenzene	ND	0.41		ppbv	1	9/7/2012
1,3-Butadiene	ND	0.41		ppbv	1	9/7/2012
1,3-Dichlorobenzene	ND	0.41		ppbv	1	9/7/2012
1,4-Dichlorobenzene	ND	0.41		ppbv	1	9/7/2012
1,4-Dioxane	ND	1		ppbv	1	9/7/2012
2-Butanone	ND	1		ppbv	1	9/7/2012
2-Hexanone	ND	2.1		ppbv	1	9/7/2012
4-Ethyltoluene	ND	0.41		ppbv	1	9/7/2012
4-Methyl-2-pentanone	ND	2.1		ppbv	1	9/7/2012
Acetone	4.7	4.1	*	ppbv	1	9/7/2012
Benzene	ND	0.41		ppbv	1	9/7/2012
Benzyl chloride	ND	1		ppbv	1	9/7/2012
Bromodichloromethane	ND	0.41		ppbv	1	9/7/2012
Bromoform	ND	1		ppbv	1	9/7/2012
Bromomethane	ND	1		ppbv	1	9/7/2012
Carbon disulfide	ND	0.41		ppbv	1	9/7/2012
Carbon tetrachloride	ND	0.41		ppbv	1	9/7/2012
Chlorobenzene	ND	0.41		ppbv	1	9/7/2012
Chloroethane	ND	0.41		ppbv	1	9/7/2012
Chloroform	ND	0.41		ppbv	1	9/7/2012
Chloromethane	ND	1		ppbv	1	9/7/2012
cis-1,2-Dichloroethene	ND	0.41		ppbv	1	9/7/2012
cis-1,3-Dichloropropene	ND	0.41		ppbv	1	9/7/2012
Cyclohexane	ND	0.41		ppbv	1	9/7/2012
Dibromochloromethane	ND	0.41		ppbv	1	9/7/2012
Dichlorodifluoromethane	0.47	0.41		ppbv	1	9/7/2012
Ethyl acetate	ND	0.41		ppbv	1	9/7/2012

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-OA2-090612

Lab Order: 12090166

Collection Date: 9/6/2012 11:05:00 AM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Air

Lab ID: 12090166-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS		TO-15			Prep Date: 9/6/2012	Analyst: VP
Ethylbenzene	ND	0.41		ppbv	1	9/7/2012
Freon-113	ND	0.41		ppbv	1	9/7/2012
Freon-114	ND	2.1		ppbv	1	9/7/2012
Heptane	ND	0.41		ppbv	1	9/7/2012
Hexachlorobutadiene	ND	0.41		ppbv	1	9/7/2012
Hexane	ND	1		ppbv	1	9/7/2012
Isopropyl Alcohol	ND	2.1		ppbv	1	9/7/2012
m,p-Xylene	ND	0.82		ppbv	1	9/7/2012
Methyl tert-butyl ether	ND	0.41		ppbv	1	9/7/2012
Methylene chloride	ND	4.1		ppbv	1	9/7/2012
o-Xylene	ND	0.41		ppbv	1	9/7/2012
Propene	ND	4.1		ppbv	1	9/7/2012
Styrene	ND	0.41		ppbv	1	9/7/2012
Tetrachloroethene	ND	0.41		ppbv	1	9/7/2012
Tetrahydrofuran	ND	1		ppbv	1	9/7/2012
Toluene	ND	0.41		ppbv	1	9/7/2012
trans-1,2-Dichloroethene	ND	0.41		ppbv	1	9/7/2012
trans-1,3-Dichloropropene	ND	0.41		ppbv	1	9/7/2012
Trichloroethene	ND	0.41		ppbv	1	9/7/2012
Trichlorofluoromethane	ND	0.41		ppbv	1	9/7/2012
Vinyl acetate	ND	4.1		ppbv	1	9/7/2012
Vinyl chloride	ND	0.41		ppbv	1	9/7/2012
Xylenes, Total	ND	1.2		ppbv	1	9/7/2012

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation:

2242 W. Harrison, Suite 200, Chicago, Illinois 60612

Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL 300001; AIHA 101160; NVLAP LabCode 101202-0)

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client:	Weston Solutions	Client Sample ID:	GAF-OA2-090612
Lab Order:	12090166	Collection Date:	9/6/2012
Project:	20405.012.001.1974.00, Rowland Dump Fire Site	Matrix:	Air
Lab ID:	12090166-002A		

Analyses	$\mu\text{g}/\text{m}^3$	ppbv	Qualifier	DF	Date Analyzed
TVOC as toluene	119	32		1	
Tentatively Identified Compounds (TICS)					
Acetaldehyde	2.5	1.4	Z*	1	9/6/2012
Isoprene	1.6	0.6	Z*	1	9/6/2012
Butanal	2.6	1.1	Z*	1	9/6/2012
Pentanal	2.1	0.6	Z*	1	9/6/2012
C8H16 Olefinic hydrocarbon	4.6	1.0	Z*	1	9/6/2012
Hexanal	3.6	0.9	Z*	1	9/6/2012
Hexamethylcyclotrisiloxane	2.7	0.3	Z*	1	9/6/2012
Octanal	7.7	1.5	Z*	1	9/6/2012
Nonanal	23.5	4.0	Z*	1	9/6/2012

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-OA3-090612

Lab Order: 12090166

Collection Date: 9/6/2012 12:18:00 PM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Air

Lab ID: 12090166-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS		TO-15		Prep Date: 9/6/2012		Analyst: VP
1,1,1-Trichloroethane	ND	0.32		ppbv	1	9/7/2012
1,1,2,2-Tetrachloroethane	ND	0.32		ppbv	1	9/7/2012
1,1,2-Trichloroethane	ND	0.32		ppbv	1	9/7/2012
1,1-Dichloroethane	ND	0.32		ppbv	1	9/7/2012
1,1-Dichloroethene	0.51	0.32		ppbv	1	9/7/2012
1,2,4-Trichlorobenzene	3.1	0.32		ppbv	1	9/7/2012
1,2,4-Trimethylbenzene	5.7	0.32		ppbv	1	9/7/2012
1,2-Dibromoethane	ND	0.32		ppbv	1	9/7/2012
1,2-Dichlorobenzene	7.2	0.32		ppbv	1	9/7/2012
1,2-Dichloroethane	ND	0.32		ppbv	1	9/7/2012
1,2-Dichloropropane	ND	0.32		ppbv	1	9/7/2012
1,3,5-Trimethylbenzene	15	0.32		ppbv	1	9/7/2012
1,3-Butadiene	4.1	0.32		ppbv	1	9/7/2012
1,3-Dichlorobenzene	6.1	0.32		ppbv	1	9/7/2012
1,4-Dichlorobenzene	1.9	0.32		ppbv	1	9/7/2012
1,4-Dioxane	20	0.79		ppbv	1	9/7/2012
2-Butanone	18	0.79		ppbv	1	9/7/2012
2-Hexanone	ND	1.6		ppbv	1	9/7/2012
4-Ethyltoluene	2.9	0.32		ppbv	1	9/7/2012
4-Methyl-2-pentanone	8.1	1.6		ppbv	1	9/7/2012
Acetone	200	79	*	ppbv	25	9/7/2012
Benzene	450	7.9		ppbv	25	9/7/2012
Benzyl chloride	ND	0.79		ppbv	1	9/7/2012
Bromodichloromethane	ND	0.32		ppbv	1	9/7/2012
Bromoform	ND	0.79		ppbv	1	9/7/2012
Bromomethane	ND	0.79		ppbv	1	9/7/2012
Carbon disulfide	ND	0.32		ppbv	1	9/7/2012
Carbon tetrachloride	ND	0.32		ppbv	1	9/7/2012
Chlorobenzene	33	0.32		ppbv	1	9/7/2012
Chloroethane	6.6	0.32		ppbv	1	9/7/2012
Chloroform	0.74	0.32		ppbv	1	9/7/2012
Chloromethane	27	0.79		ppbv	1	9/7/2012
cis-1,2-Dichloroethene	ND	0.32		ppbv	1	9/7/2012
cis-1,3-Dichloropropene	ND	0.32		ppbv	1	9/7/2012
Cyclohexane	1.5	0.32		ppbv	1	9/7/2012
Dibromochloromethane	ND	0.32		ppbv	1	9/7/2012
Dichlorodifluoromethane	ND	0.32		ppbv	1	9/7/2012
Ethyl acetate	0.58	0.32		ppbv	1	9/7/2012

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-OA3-090612

Lab Order: 12090166

Collection Date: 9/6/2012 12:18:00 PM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Air

Lab ID: 12090166-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS						
	TO-15				Prep Date: 9/6/2012	Analyst: VP
Ethylbenzene	71	0.32		ppbv	1	9/7/2012
Freon-113	ND	0.32		ppbv	1	9/7/2012
Freon-114	ND	1.6		ppbv	1	9/7/2012
Heptane	16	0.32		ppbv	1	9/7/2012
Hexachlorobutadiene	ND	0.32		ppbv	1	9/7/2012
Hexane	22	0.79		ppbv	1	9/7/2012
Isopropyl Alcohol	5.5	1.6		ppbv	1	9/7/2012
m,p-Xylene	18	0.63		ppbv	1	9/7/2012
Methyl tert-butyl ether	ND	0.32		ppbv	1	9/7/2012
Methylene chloride	ND	3.2		ppbv	1	9/7/2012
o-Xylene	9	0.32		ppbv	1	9/7/2012
Propene	65	3.2		ppbv	1	9/7/2012
Styrene	70	0.32		ppbv	1	9/7/2012
Tetrachloroethene	2.3	0.32		ppbv	1	9/7/2012
Tetrahydrofuran	17	0.79		ppbv	1	9/7/2012
Toluene	76	0.32		ppbv	1	9/7/2012
trans-1,2-Dichloroethene	ND	0.32		ppbv	1	9/7/2012
trans-1,3-Dichloropropene	ND	0.32		ppbv	1	9/7/2012
Trichloroethene	1.1	0.32		ppbv	1	9/7/2012
Trichlorofluoromethane	ND	0.32		ppbv	1	9/7/2012
Vinyl acetate	ND	3.2		ppbv	1	9/7/2012
Vinyl chloride	1	0.32		ppbv	1	9/7/2012
Xylenes, Total	27	0.95		ppbv	1	9/7/2012

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL 300001; AIHA 101160; NVLAP LabCode 101202-0)

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client:	Weston Solutions	Client Sample ID:	GAF-OA3-090612
Lab Order:	12090166	Collection Date:	9/6/2012
Project:	20405.012.001.1974.00, Rowland Dump Fire Site	Matrix:	Air
Lab ID:	12090166-003A		

Analyses	$\mu\text{g}/\text{m}^3$	ppbv	Qualifier	DF	Date Analyzed
TVOC as toluene	11025	2930		1	
Tentatively Identified Compounds (TICS)					
Isobutane	41.5	17.5	Z*	1	9/6/2012
C5H10 Olefinic hydrocarbon	301.6	131.7	Z*	1	9/6/2012
Butane	60.6	25.6	Z*	1	9/6/2012
Acetonitrile	62.7	37.4	Z*	1	9/6/2012
Pentane	298.5	101.4	Z*	1	9/6/2012
C5H10 Olefinic hydrocarbon	43.4	15.2	Z*	1	9/6/2012
Cyclopentene	81.0	29.1	Z*	1	9/6/2012
2-Methylpentane	185.6	52.8	Z*	1	9/6/2012
Butanal	32.6	9.5	Z*	1	9/6/2012
C5H10 Olefinic hydrocarbon	154.9	45.1	Z*	1	9/6/2012
C6H12 Olefinic hydrocarbon	113.4	33.0	Z*	1	9/6/2012
C7H16 Aliphatic hydrocarbon	41.7	12.1	Z*	1	9/6/2012
C7H14 Olefinic hydrocarbon	31.1	7.8	Z*	1	9/6/2012
C7H14 Olefinic hydrocarbon	27.6	6.9	Z*	1	9/6/2012
Pentanone	32.9	9.3	Z*	1	9/6/2012
C7H16 Aliphatic hydrocarbon	26.5	6.5	Z*	1	9/6/2012
C8H18 Aliphatic hydrocarbon	37.0	8.1	Z*	1	9/6/2012
Cyclopentanone	28.3	4.9	Z*	1	9/6/2012
C8H18 Aliphatic hydrocarbon	43.5	8.9	Z*	1	9/6/2012
Dimethyldioxane	34.2	7.9	Z*	1	9/6/2012
C9H18 Olefinic hydrocarbon	77.9	15.1	Z*	1	9/6/2012
C3 Alkylbenzene	110.4	22.5	Z*	1	9/6/2012
Benzaldehyde	46.0	10.6	Z*	1	9/6/2012
n-Propylbenzene	28.9	5.9	Z*	1	9/6/2012
Phenol	33.3	8.7	Z*	1	9/6/2012
alpha-Methylstyrene	108.4	22.5	Z*	1	9/6/2012
C11H24 Aliphatic hydrocarbon	27.9	4.4	Z*	1	9/6/2012
C4 Alkylbenzene	34.3	6.3	Z*	1	9/6/2012
Acetophenone	48.8	10.0	Z*	1	9/6/2012
C11H24 Aliphatic hydrocarbon	28.6	4.5	Z*	1	9/6/2012
Naphthalene	66.1	12.6		1	9/6/2012

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-OA4-090612

Lab Order: 12090166

Collection Date: 9/6/2012 12:23:00 PM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Air

Lab ID: 12090166-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS		TO-15			Prep Date: 9/6/2012	Analyst: VP
1,1,1-Trichloroethane	ND	0.31		ppbv	1	9/7/2012
1,1,2,2-Tetrachloroethane	ND	0.31		ppbv	1	9/7/2012
1,1,2-Trichloroethane	ND	0.31		ppbv	1	9/7/2012
1,1-Dichloroethane	ND	0.31		ppbv	1	9/7/2012
1,1-Dichloroethene	ND	0.31		ppbv	1	9/7/2012
1,2,4-Trichlorobenzene	2.4	0.31		ppbv	1	9/7/2012
1,2,4-Trimethylbenzene	5.8	0.31		ppbv	1	9/7/2012
1,2-Dibromoethane	ND	0.31		ppbv	1	9/7/2012
1,2-Dichlorobenzene	4.9	0.31		ppbv	1	9/7/2012
1,2-Dichloroethane	ND	0.31		ppbv	1	9/7/2012
1,2-Dichloropropane	ND	0.31		ppbv	1	9/7/2012
1,3,5-Trimethylbenzene	17	0.31		ppbv	1	9/7/2012
1,3-Butadiene	13	0.31		ppbv	1	9/7/2012
1,3-Dichlorobenzene	3.7	0.31		ppbv	1	9/7/2012
1,4-Dichlorobenzene	1.3	0.31		ppbv	1	9/7/2012
1,4-Dioxane	9.3	0.78		ppbv	1	9/7/2012
2-Butanone	15	0.78		ppbv	1	9/7/2012
2-Hexanone	ND	1.6		ppbv	1	9/7/2012
4-Ethyltoluene	3.1	0.31		ppbv	1	9/7/2012
4-Methyl-2-pentanone	4.8	1.6		ppbv	1	9/7/2012
Acetone	140	78	*	ppbv	25	9/7/2012
Benzene	340	7.8		ppbv	25	9/7/2012
Benzyl chloride	ND	0.78		ppbv	1	9/7/2012
Bromodichloromethane	ND	0.31		ppbv	1	9/7/2012
Bromoform	ND	0.78		ppbv	1	9/7/2012
Bromomethane	ND	0.78		ppbv	1	9/7/2012
Carbon disulfide	ND	0.31		ppbv	1	9/7/2012
Carbon tetrachloride	ND	0.31		ppbv	1	9/7/2012
Chlorobenzene	24	0.31		ppbv	1	9/7/2012
Chloroethane	3.1	0.31		ppbv	1	9/7/2012
Chloroform	ND	0.31		ppbv	1	9/7/2012
Chloromethane	11	0.78		ppbv	1	9/7/2012
cis-1,2-Dichloroethene	ND	0.31		ppbv	1	9/7/2012
cis-1,3-Dichloropropene	ND	0.31		ppbv	1	9/7/2012
Cyclohexane	0.92	0.31		ppbv	1	9/7/2012
Dibromochloromethane	ND	0.31		ppbv	1	9/7/2012
Dichlorodifluoromethane	0.31	0.31		ppbv	1	9/7/2012
Ethyl acetate	ND	0.31		ppbv	1	9/7/2012

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-OA4-090612

Lab Order: 12090166

Collection Date: 9/6/2012 12:23:00 PM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Air

Lab ID: 12090166-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS						
	TO-15				Prep Date: 9/6/2012	Analyst: VP
Ethylbenzene	71	0.31		ppbv	1	9/7/2012
Freon-113	ND	0.31		ppbv	1	9/7/2012
Freon-114	ND	1.6		ppbv	1	9/7/2012
Heptane	12	0.31		ppbv	1	9/7/2012
Hexachlorobutadiene	ND	0.31		ppbv	1	9/7/2012
Hexane	16	0.78		ppbv	1	9/7/2012
Isopropyl Alcohol	3.1	1.6		ppbv	1	9/7/2012
m,p-Xylene	21	0.62		ppbv	1	9/7/2012
Methyl tert-butyl ether	ND	0.31		ppbv	1	9/7/2012
Methylene chloride	ND	3.1		ppbv	1	9/7/2012
o-Xylene	10	0.31		ppbv	1	9/7/2012
Propene	350	78		ppbv	25	9/7/2012
Styrene	70	0.31		ppbv	1	9/7/2012
Tetrachloroethene	0.42	0.31		ppbv	1	9/7/2012
Tetrahydrofuran	6.5	0.78		ppbv	1	9/7/2012
Toluene	150	7.8		ppbv	25	9/7/2012
trans-1,2-Dichloroethene	ND	0.31		ppbv	1	9/7/2012
trans-1,3-Dichloropropene	ND	0.31		ppbv	1	9/7/2012
Trichloroethene	ND	0.31		ppbv	1	9/7/2012
Trichlorofluoromethane	ND	0.31		ppbv	1	9/7/2012
Vinyl acetate	ND	3.1		ppbv	1	9/7/2012
Vinyl chloride	1.6	0.31		ppbv	1	9/7/2012
Xylenes, Total	32	0.93		ppbv	1	9/7/2012

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

STAT Analysis Corporation:

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Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL 300001; AIHA 101160; NVLAP LabCode 101202-0)

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client:	Weston Solutions	Client Sample ID:	GAF-OA4-090612
Lab Order:	12090166	Collection Date:	9/6/2012
Project:	20405.012.001.1974.00, Rowland Dump Fire Site	Matrix:	Air
Lab ID:	12090166-004A		

Analyses	$\mu\text{g}/\text{m}^3$	ppbv	Qualifier	DF	Date Analyzed
TVOC as toluene	11002	2924		1	
Tentatively Identified Compounds (TICS)					
Butane	49.4	20.8	Z*	1	9/6/2012
Acetonitrile	54.5	32.5	Z*	1	9/6/2012
Pentane	285.7	97.0	Z*	1	9/6/2012
C5H10 Olefinic hydrocarbon	66.4	23.9	Z*	1	9/6/2012
Cyclopentene	84.9	30.5	Z*	1	9/6/2012
2-Methylpentane	163.8	46.6	Z*	1	9/6/2012
C5H10 Olefinic hydrocarbon	192.0	55.9	Z*	1	9/6/2012
C5H10 Olefinic hydrocarbon	96.8	28.2	Z*	1	9/6/2012
Cyclopentanone	66.1	19.2	Z*	1	9/6/2012
C8H18 Aliphatic hydrocarbon	73.9	15.9	Z*	1	9/6/2012
Dimethyldioxane	45.3	9.6	Z*	1	9/6/2012
C8H18 Aliphatic hydrocarbon	42.9	9.2	Z*	1	9/6/2012
C9H20 Aliphatic hydrocarbon	42.6	8.1	Z*	1	9/6/2012
C9H18 Olefinic hydrocarbon	192.1	37.3	Z*	1	9/6/2012
C10H20 Olefinic hydrocarbon	65.8	11.5	Z*	1	9/6/2012
C3 Alkylbenzene	233.2	47.5	Z*	1	9/6/2012
Benzaldehyde	85.8	19.8	Z*	1	9/6/2012
C3 Alkylbenzene	72.4	14.7	Z*	1	9/6/2012
Phenol	58.4	15.2	Z*	1	9/6/2012
alpha-Methylstyrene	248.3	51.5	Z*	1	9/6/2012
C11H24 Aliphatic hydrocarbon	54.8	8.6	Z*	1	9/6/2012
C4 Alkylbenzene	101.0	18.4	Z*	1	9/6/2012
Acetophenone	77.5	15.8	Z*	1	9/6/2012
C4 Alkylbenzene	47.1	8.6	Z*	1	9/6/2012
C12H24 Olefinic hydrocarbon	41.2	6.0	Z*	1	9/6/2012
C12H24 Olefinic hydrocarbon	64.3	9.4	Z*	1	9/6/2012
C12H24 Olefinic hydrocarbon	53.0	7.7	Z*	1	9/6/2012
C12H24 Olefinic hydrocarbon	43.2	6.3	Z*	1	9/6/2012
1,1'-(1,3-propanediyl) bis benzene	52.9	6.6	Z*	1	9/6/2012
C15H30 Olefinic hydrocarbon	59.0	6.8	Z*	1	9/6/2012
Naphthalene	79.6	15.2		1	9/6/2012

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

STAT Analysis Corporation

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-OA5-090612

Lab Order: 12090166

Collection Date: 9/6/2012 12:38:00 PM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Air

Lab ID: 12090166-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS		TO-15		Prep Date: 9/6/2012		Analyst: VP
1,1,1-Trichloroethane	ND	0.31		ppbv	1	9/7/2012
1,1,2,2-Tetrachloroethane	ND	0.31		ppbv	1	9/7/2012
1,1,2-Trichloroethane	ND	0.31		ppbv	1	9/7/2012
1,1-Dichloroethane	ND	0.31		ppbv	1	9/7/2012
1,1-Dichloroethene	0.83	0.31		ppbv	1	9/7/2012
1,2,4-Trichlorobenzene	11	0.31		ppbv	1	9/7/2012
1,2,4-Trimethylbenzene	29	0.31		ppbv	1	9/7/2012
1,2-Dibromoethane	ND	0.31		ppbv	1	9/7/2012
1,2-Dichlorobenzene	33	0.31		ppbv	1	9/7/2012
1,2-Dichloroethane	1.6	0.31		ppbv	1	9/7/2012
1,2-Dichloropropane	ND	0.31		ppbv	1	9/7/2012
1,3,5-Trimethylbenzene	66	0.31		ppbv	1	9/7/2012
1,3-Butadiene	76	0.31		ppbv	1	9/7/2012
1,3-Dichlorobenzene	18	0.31		ppbv	1	9/7/2012
1,4-Dichlorobenzene	7.5	0.31		ppbv	1	9/7/2012
1,4-Dioxane	130	20		ppbv	25	9/7/2012
2-Butanone	130	20		ppbv	25	9/7/2012
2-Hexanone	ND	1.6		ppbv	1	9/7/2012
4-Ethyltoluene	12	0.31		ppbv	1	9/7/2012
4-Methyl-2-pentanone	18	1.6		ppbv	1	9/7/2012
Acetone	910	79	*	ppbv	25	9/7/2012
Benzene	1900	7.9		ppbv	25	9/7/2012
Benzyl chloride	1.7	0.79		ppbv	1	9/7/2012
Bromodichloromethane	ND	0.31		ppbv	1	9/7/2012
Bromoform	ND	0.79		ppbv	1	9/7/2012
Bromomethane	1.3	0.79		ppbv	1	9/7/2012
Carbon disulfide	0.87	0.31		ppbv	1	9/7/2012
Carbon tetrachloride	0.42	0.31		ppbv	1	9/7/2012
Chlorobenzene	200	7.9		ppbv	25	9/7/2012
Chloroethane	22	0.31		ppbv	1	9/7/2012
Chloroform	1.5	0.31		ppbv	1	9/7/2012
Chloromethane	52	0.79		ppbv	1	9/7/2012
cis-1,2-Dichloroethene	ND	0.31		ppbv	1	9/7/2012
cis-1,3-Dichloropropene	ND	0.31		ppbv	1	9/7/2012
Cyclohexane	6.3	0.31		ppbv	1	9/7/2012
Dibromochloromethane	ND	0.31		ppbv	1	9/7/2012
Dichlorodifluoromethane	ND	0.31		ppbv	1	9/7/2012
Ethyl acetate	1.3	0.31		ppbv	1	9/7/2012

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-OA5-090612

Lab Order: 12090166

Collection Date: 9/6/2012 12:38:00 PM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Air

Lab ID: 12090166-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS TO-15						
				Prep Date: 9/6/2012		Analyst: VP
Ethylbenzene	720	7.9		ppbv	25	9/7/2012
Freon-113	ND	0.31		ppbv	1	9/7/2012
Freon-114	ND	1.6		ppbv	1	9/7/2012
Heptane	60	0.31		ppbv	1	9/7/2012
Hexachlorobutadiene	ND	0.31		ppbv	1	9/7/2012
Hexane	68	0.79		ppbv	1	9/7/2012
Isopropyl Alcohol	28	1.6		ppbv	1	9/7/2012
m,p-Xylene	110	0.63		ppbv	1	9/7/2012
Methyl tert-butyl ether	ND	0.31		ppbv	1	9/7/2012
Methylene chloride	ND	3.1		ppbv	1	9/7/2012
o-Xylene	58	0.31		ppbv	1	9/7/2012
Propene	3700	310		ppbv	100	9/7/2012
Styrene	1400	7.9		ppbv	25	9/7/2012
Tetrachloroethene	4.2	0.31		ppbv	1	9/7/2012
Tetrahydrofuran	310	20		ppbv	25	9/7/2012
Toluene	940	7.9		ppbv	25	9/7/2012
trans-1,2-Dichloroethene	ND	0.31		ppbv	1	9/7/2012
trans-1,3-Dichloropropene	ND	0.31		ppbv	1	9/7/2012
Trichloroethene	1.3	0.31		ppbv	1	9/7/2012
Trichlorofluoromethane	ND	0.31		ppbv	1	9/7/2012
Vinyl acetate	ND	3.1		ppbv	1	9/7/2012
Vinyl chloride	6.3	0.31		ppbv	1	9/7/2012
Xylenes, Total	170	0.94		ppbv	1	9/7/2012

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

STAT Analysis Corporation:

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL 300001; AIHA 101160; NVLAP LabCode 101202-0)

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client:	Weston Solutions	Client Sample ID:	GAF-OA5-090612
Lab Order:	12090166	Collection Date:	9/6/2012
Project:	20405.012.001.1974.00, Rowland Dump Fire Site	Matrix:	Air
Lab ID:	12090166-005A		

Analyses	$\mu\text{g}/\text{m}^3$	ppbv	Qualifier	DF	Date Analyzed
TVOC as toluene	43589	11584		1	
Tentatively Identified Compounds (TICS)					
C4H8 Olefinic Hydrocarbon	175.1	76.4	Z*	1	9/6/2012
Butane	78.6	33.1	Z*	1	9/6/2012
Acetonitrile	108.7	64.9	Z*	1	9/6/2012
C5H10 Olefinic hydrocarbon	67.4	23.5	Z*	1	9/6/2012
Pentane	212.8	72.2	Z*	1	9/6/2012
Isoprene	43.7	15.7	Z*	1	9/6/2012
C5H10 Olefinic hydrocarbon	47.8	16.7	Z*	1	9/6/2012
Cyclopentene	110.7	39.8	Z*	1	9/6/2012
2-Methylpentane	150.1	42.7	Z*	1	9/6/2012
2-Methylpentene	165.7	48.2	Z*	1	9/6/2012
Pentadiene	25.0	9.0	Z*	1	9/6/2012
Methylfuran	17.4	5.2	Z*	1	9/6/2012
Methylpentene	88.9	26.5	Z*	1	9/6/2012
Methylpentadiene	80.3	23.9	Z*	1	9/6/2012
Hexadiene	97.8	29.2	Z*	1	9/6/2012
C7H14 Olefinic hydrocarbon	97.3	24.3	Z*	1	9/6/2012
Methylcyclopentene	54.2	16.2	Z*	1	9/6/2012
Pentanone	61.6	17.5	Z*	1	9/6/2012
Cyclohexene	88.4	26.4	Z*	1	9/6/2012
C7H14 Olefinic hydrocarbon	53.5	13.4	Z*	1	9/6/2012
C8H16 Olefinic hydrocarbon	49.3	10.8	Z*	1	9/6/2012
Cyclopentanone	40.4	11.8	Z*	1	9/6/2012
C8H18 Aliphatic hydrocarbon	48.3	10.4	Z*	1	9/6/2012
Dimethyldioxane	50.9	10.7	Z*	1	9/6/2012
C9H18 Olefinic hydrocarbon	88.6	17.2	Z*	1	9/6/2012
C3 Alkylbenzene	80.7	16.4	Z*	1	9/6/2012
Benzaldehyde	55.0	12.7	Z*	1	9/6/2012
n-Propylbenzene	53.0	10.8	Z*	1	9/6/2012
Phenol	50.8	13.2	Z*	1	9/6/2012
alpha-Methylstyrene	120.5	25.0	Z*	1	9/6/2012
C4 Alkylbenzene	72.5	13.2	Z*	1	9/6/2012
Benzenebutanenitrile	39.4	185.0	Z*	1	9/6/2012
Naphthalene	691.7	132.1		25	9/6/2012

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-OA6-090612

Lab Order: 12090166

Collection Date: 9/6/2012 12:42:00 PM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Air

Lab ID: 12090166-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS		TO-15		Prep Date: 9/6/2012		Analyst: VP
1,1,1-Trichloroethane	ND	0.32		ppbv	1	9/7/2012
1,1,2,2-Tetrachloroethane	ND	0.32		ppbv	1	9/7/2012
1,1,2-Trichloroethane	ND	0.32		ppbv	1	9/7/2012
1,1-Dichloroethane	ND	0.32		ppbv	1	9/7/2012
1,1-Dichloroethene	ND	0.32		ppbv	1	9/7/2012
1,2,4-Trichlorobenzene	2	0.32		ppbv	1	9/7/2012
1,2,4-Trimethylbenzene	15	0.32		ppbv	1	9/7/2012
1,2-Dibromoethane	ND	0.32		ppbv	1	9/7/2012
1,2-Dichlorobenzene	4.5	0.32		ppbv	1	9/7/2012
1,2-Dichloroethane	ND	0.32		ppbv	1	9/7/2012
1,2-Dichloropropane	ND	0.32		ppbv	1	9/7/2012
1,3,5-Trimethylbenzene	25	0.32		ppbv	1	9/7/2012
1,3-Butadiene	50	0.32		ppbv	1	9/7/2012
1,3-Dichlorobenzene	5	0.32		ppbv	1	9/7/2012
1,4-Dichlorobenzene	1.2	0.32		ppbv	1	9/7/2012
1,4-Dioxane	22	0.79		ppbv	1	9/7/2012
2-Butanone	51	0.79		ppbv	1	9/7/2012
2-Hexanone	ND	1.6		ppbv	1	9/7/2012
4-Ethyltoluene	7.1	0.32		ppbv	1	9/7/2012
4-Methyl-2-pentanone	12	1.6		ppbv	1	9/7/2012
Acetone	330	79	*	ppbv	25	9/7/2012
Benzene	690	7.9		ppbv	25	9/7/2012
Benzyl chloride	ND	0.79		ppbv	1	9/7/2012
Bromodichloromethane	ND	0.32		ppbv	1	9/7/2012
Bromoform	ND	0.79		ppbv	1	9/7/2012
Bromomethane	ND	0.79		ppbv	1	9/7/2012
Carbon disulfide	ND	0.32		ppbv	1	9/7/2012
Carbon tetrachloride	ND	0.32		ppbv	1	9/7/2012
Chlorobenzene	21	0.32		ppbv	1	9/7/2012
Chloroethane	6.4	0.32		ppbv	1	9/7/2012
Chloroform	0.65	0.32		ppbv	1	9/7/2012
Chloromethane	17	0.79		ppbv	1	9/7/2012
cis-1,2-Dichloroethene	ND	0.32		ppbv	1	9/7/2012
cis-1,3-Dichloropropene	ND	0.32		ppbv	1	9/7/2012
Cyclohexane	2.3	0.32		ppbv	1	9/7/2012
Dibromochloromethane	ND	0.32		ppbv	1	9/7/2012
Dichlorodifluoromethane	ND	0.32		ppbv	1	9/7/2012
Ethyl acetate	0.49	0.32		ppbv	1	9/7/2012

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-OA6-090612

Lab Order: 12090166

Collection Date: 9/6/2012 12:42:00 PM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Air

Lab ID: 12090166-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS TO-15						
				Prep Date: 9/6/2012		Analyst: VP
Ethylbenzene	310	7.9		ppbv	25	9/7/2012
Freon-113	ND	0.32		ppbv	1	9/7/2012
Freon-114	ND	1.6		ppbv	1	9/7/2012
Heptane	29	0.32		ppbv	1	9/7/2012
Hexachlorobutadiene	ND	0.32		ppbv	1	9/7/2012
Hexane	37	0.79		ppbv	1	9/7/2012
Isopropyl Alcohol	9.6	1.6		ppbv	1	9/7/2012
m,p-Xylene	40	0.63		ppbv	1	9/7/2012
Methyl tert-butyl ether	ND	0.32		ppbv	1	9/7/2012
Methylene chloride	ND	3.2		ppbv	1	9/7/2012
o-Xylene	25	0.32		ppbv	1	9/7/2012
Propene	810	79		ppbv	25	9/7/2012
Styrene	270	7.9		ppbv	25	9/7/2012
Tetrachloroethene	0.9	0.32		ppbv	1	9/7/2012
Tetrahydrofuran	19	0.79		ppbv	1	9/7/2012
Toluene	320	7.9		ppbv	25	9/7/2012
trans-1,2-Dichloroethene	ND	0.32		ppbv	1	9/7/2012
trans-1,3-Dichloropropene	ND	0.32		ppbv	1	9/7/2012
Trichloroethene	0.43	0.32		ppbv	1	9/7/2012
Trichlorofluoromethane	ND	0.32		ppbv	1	9/7/2012
Vinyl acetate	ND	3.2		ppbv	1	9/7/2012
Vinyl chloride	0.79	0.32		ppbv	1	9/7/2012
Xylenes, Total	65	0.95		ppbv	1	9/7/2012

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL 300001; AIHA 101160; NVLAP LabCode 101202-0)

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client:	Weston Solutions	Client Sample ID:	GAF-OA6-090612
Lab Order:	12090166	Collection Date:	9/6/2012
Project:	20405.012.001.1974.00, Rowland Dump Fire Site	Matrix:	Air
Lab ID:	12090166-006A		

Analyses	$\mu\text{g}/\text{m}^3$	ppbv	Qualifier	DF	Date Analyzed
TVOC as toluene	21880	5815		1	
Tentatively Identified Compounds (TICS)					
C4H8 Olefinic Hydrocarbon	486.6	212.4	Z*	1	9/6/2012
Butane	84.1	35.5	Z*	1	9/6/2012
Acetonitrile	109.5	65.3	Z*	1	9/6/2012
Pentane	377.2	128.1	Z*	1	9/6/2012
Isoprene	82.0	29.5	Z*	1	9/6/2012
Pentene	108.4	37.9	Z*	1	9/6/2012
Cyclopentadiene	125.1	46.3	Z*	1	9/6/2012
Cyclopentene	175.1	63.0	Z*	1	9/6/2012
2-Methylpentane	290.0	82.5	Z*	1	9/6/2012
2-Methylpentene	349.2	101.6	Z*	1	9/6/2012
4-Methyl-2-pentene	194.5	56.6	Z*	1	9/6/2012
Hexadiene	51.4	15.3	Z*	1	9/6/2012
Dimethylpentene	53.0	13.2	Z*	1	9/6/2012
Pentanone	57.9	16.5	Z*	1	9/6/2012
Hexenol	55.0	13.4	Z*	1	9/6/2012
C8H16 Olefinic hydrocarbon	44.6	9.7	Z*	1	9/6/2012
C8H18 Aliphatic hydrocarbon	35.7	7.6	Z*	1	9/6/2012
C9H18 Olefinic hydrocarbon	70.3	13.6	Z*	1	9/6/2012
C3 Alkylbenzene	111.1	22.6	Z*	1	9/6/2012
Benzaldehyde	57.1	13.2	Z*	1	9/6/2012
n-Propyl benzene	40.3	8.2	Z*	1	9/6/2012
Phenol	43.1	11.2	Z*	1	9/6/2012
alpha-Methylstyrene	120.1	24.9	Z*	1	9/6/2012
C10H22 Aliphatic hydrocarbon	58.4	10.1	Z*	1	9/6/2012
C4 Alkylbenzene	50.7	9.3	Z*	1	9/6/2012
Acetophenone	51.0	10.4	Z*	1	9/6/2012
C4 Alkylbenzene	40.7	7.4	Z*	1	9/6/2012
C5 Alkylbenzene	34.0	5.6	Z*	1	9/6/2012
2-Methyl Naphthalene	48.8	8.4	Z*	1	9/6/2012
1-Methyl Naphthalene	36.5	5.6	Z*	1	9/6/2012
Naphthalene	250.1	47.8		1	9/6/2012

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-S1-090612

Lab Order: 12090166

Collection Date: 9/6/2012 1:22:00 PM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Soil

Lab ID: 12090166-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A				Prep Date: 9/7/2012	Analyst: JG
Mercury	0.33	0.023		mg/Kg-dry	1	9/7/2012
Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 9/12/2012	Analyst: JG
Aluminum	23000	270		mg/Kg-dry	100	9/12/2012
Antimony	110	27		mg/Kg-dry	100	9/13/2012
Arsenic	18	1.3		mg/Kg-dry	10	9/12/2012
Barium	2400	1.3		mg/Kg-dry	10	9/12/2012
Beryllium	1.2	0.66		mg/Kg-dry	10	9/12/2012
Cadmium	84	0.66		mg/Kg-dry	10	9/12/2012
Calcium	110000	800		mg/Kg-dry	100	9/12/2012
Chromium	650	1.3		mg/Kg-dry	10	9/12/2012
Cobalt	20	1.3		mg/Kg-dry	10	9/12/2012
Copper	2800	330		mg/Kg-dry	1000	9/13/2012
Iron	170000	4000		mg/Kg-dry	1000	9/13/2012
Lead	5900	6.6		mg/Kg-dry	100	9/12/2012
Magnesium	27000	400		mg/Kg-dry	100	9/12/2012
Manganese	9600	13		mg/Kg-dry	100	9/13/2012
Nickel	330	1.3		mg/Kg-dry	10	9/12/2012
Potassium	890	40		mg/Kg-dry	10	9/12/2012
Selenium	2.6	1.3		mg/Kg-dry	10	9/12/2012
Silver	3.3	1.3		mg/Kg-dry	10	9/12/2012
Sodium	440	80		mg/Kg-dry	10	9/12/2012
Thallium	ND	1.3		mg/Kg-dry	10	9/12/2012
Vanadium	230	1.3		mg/Kg-dry	10	9/12/2012
Zinc	12000	66		mg/Kg-dry	100	9/13/2012
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 9/12/2012	Analyst: DM
Acenaphthene	0.3	0.039		mg/Kg-dry	1	9/12/2012
Acenaphthylene	ND	0.039		mg/Kg-dry	1	9/12/2012
Aniline	ND	0.39		mg/Kg-dry	1	9/12/2012
Anthracene	ND	0.039		mg/Kg-dry	1	9/12/2012
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	9/12/2012
Benzidine	ND	0.39		mg/Kg-dry	1	9/12/2012
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	9/12/2012
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	9/12/2012
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	9/12/2012
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	9/12/2012
Benzoic acid	ND	0.98		mg/Kg-dry	1	9/12/2012
Benzyl alcohol	ND	0.2		mg/Kg-dry	1	9/12/2012

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-S1-090612

Lab Order: 12090166

Collection Date: 9/6/2012 1:22:00 PM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Soil

Lab ID: 12090166-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3550B)		Prep Date: 9/12/2012		Analyst: DM	
Bis(2-chloroethoxy)methane	ND	0.2		mg/Kg-dry	1	9/12/2012
Bis(2-chloroethyl)ether	ND	0.2		mg/Kg-dry	1	9/12/2012
Bis(2-ethylhexyl)phthalate	2	0.98		mg/Kg-dry	1	9/12/2012
4-Bromophenyl phenyl ether	ND	0.2		mg/Kg-dry	1	9/12/2012
Butyl benzyl phthalate	ND	0.2		mg/Kg-dry	1	9/12/2012
Carbazole	ND	0.2		mg/Kg-dry	1	9/12/2012
4-Chloroaniline	ND	0.2		mg/Kg-dry	1	9/12/2012
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	9/12/2012
2-Chloronaphthalene	ND	0.2		mg/Kg-dry	1	9/12/2012
2-Chlorophenol	ND	0.2		mg/Kg-dry	1	9/12/2012
4-Chlorophenyl phenyl ether	ND	0.2		mg/Kg-dry	1	9/12/2012
Chrysene	ND	0.039		mg/Kg-dry	1	9/12/2012
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	9/12/2012
Dibenzofuran	ND	0.2		mg/Kg-dry	1	9/12/2012
1,2-Dichlorobenzene	ND	0.2		mg/Kg-dry	1	9/12/2012
1,3-Dichlorobenzene	ND	0.2		mg/Kg-dry	1	9/12/2012
1,4-Dichlorobenzene	ND	0.2		mg/Kg-dry	1	9/12/2012
3,3'-Dichlorobenzidine	ND	0.2		mg/Kg-dry	1	9/12/2012
2,4-Dichlorophenol	ND	0.2		mg/Kg-dry	1	9/12/2012
Diethyl phthalate	ND	0.2		mg/Kg-dry	1	9/12/2012
2,4-Dimethylphenol	ND	0.2		mg/Kg-dry	1	9/12/2012
Dimethyl phthalate	ND	0.2		mg/Kg-dry	1	9/12/2012
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	9/12/2012
2,4-Dinitrophenol	ND	0.98		mg/Kg-dry	1	9/12/2012
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	9/12/2012
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	9/12/2012
Di-n-butyl phthalate	ND	0.2		mg/Kg-dry	1	9/12/2012
Di-n-octyl phthalate	ND	0.2		mg/Kg-dry	1	9/12/2012
Fluoranthene	ND	0.039		mg/Kg-dry	1	9/12/2012
Fluorene	ND	0.039		mg/Kg-dry	1	9/12/2012
Hexachlorobenzene	ND	0.2		mg/Kg-dry	1	9/12/2012
Hexachlorobutadiene	ND	0.2		mg/Kg-dry	1	9/12/2012
Hexachlorocyclopentadiene	ND	0.2		mg/Kg-dry	1	9/12/2012
Hexachloroethane	ND	0.2		mg/Kg-dry	1	9/12/2012
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	9/12/2012
Isophorone	ND	0.2		mg/Kg-dry	1	9/12/2012
2-Methylnaphthalene	ND	0.2		mg/Kg-dry	1	9/12/2012
2-Methylphenol	ND	0.2		mg/Kg-dry	1	9/12/2012

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-S1-090612

Lab Order: 12090166

Collection Date: 9/6/2012 1:22:00 PM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Soil

Lab ID: 12090166-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 9/12/2012	Analyst: DM
4-Methylphenol	ND	0.2		mg/Kg-dry	1	9/12/2012
Naphthalene	0.13	0.039		mg/Kg-dry	1	9/12/2012
2-Nitroaniline	ND	0.2		mg/Kg-dry	1	9/12/2012
3-Nitroaniline	ND	0.2		mg/Kg-dry	1	9/12/2012
4-Nitroaniline	ND	0.2		mg/Kg-dry	1	9/12/2012
2-Nitrophenol	ND	0.2		mg/Kg-dry	1	9/12/2012
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	9/12/2012
Nitrobenzene	ND	0.039		mg/Kg-dry	1	9/12/2012
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	9/12/2012
N-Nitrosodimethylamine	ND	0.2		mg/Kg-dry	1	9/12/2012
N-Nitrosodiphenylamine	ND	0.039		mg/Kg-dry	1	9/12/2012
2, 2'-oxybis(1-Chloropropane)	ND	0.2		mg/Kg-dry	1	9/12/2012
Pentachlorophenol	ND	0.039		mg/Kg-dry	1	9/12/2012
Phenanthrene	0.084	0.039		mg/Kg-dry	1	9/12/2012
Phenol	ND	0.2		mg/Kg-dry	1	9/12/2012
Pyrene	ND	0.039		mg/Kg-dry	1	9/12/2012
Pyridine	ND	0.79		mg/Kg-dry	1	9/12/2012
1,2,4-Trichlorobenzene	ND	0.2		mg/Kg-dry	1	9/12/2012
2,4,5-Trichlorophenol	ND	0.2		mg/Kg-dry	1	9/12/2012
2,4,6-Trichlorophenol	ND	0.2		mg/Kg-dry	1	9/12/2012
Cyanide, Total	SW9012A				Prep Date: 9/8/2012	Analyst: YZ
Cyanide	1.2	0.3		mg/Kg-dry	1	9/9/2012
pH (25 °C)	SW9045C				Prep Date: 9/12/2012	Analyst: MNG
pH	7.9			pH Units	1	9/12/2012
Percent Moisture	D2974				Prep Date: 9/10/2012	Analyst: RW
Percent Moisture	17.0	0.2	*	wt%	1	9/11/2012

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-S2-090612

Lab Order: 12090166

Collection Date: 9/6/2012 1:25:00 PM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Soil

Lab ID: 12090166-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A				Prep Date: 9/7/2012	Analyst: JG
Mercury	10	0.41		mg/Kg-dry	20	9/7/2012
Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 9/12/2012	Analyst: JG
Aluminum	8200	240		mg/Kg-dry	100	9/12/2012
Antimony	ND	24		mg/Kg-dry	100	9/12/2012
Arsenic	4.4	1.2		mg/Kg-dry	10	9/13/2012
Barium	460	1.2		mg/Kg-dry	10	9/13/2012
Beryllium	ND	0.61		mg/Kg-dry	10	9/13/2012
Cadmium	9.7	0.61		mg/Kg-dry	10	9/13/2012
Calcium	210000	730		mg/Kg-dry	100	9/12/2012
Chromium	1000	1.2		mg/Kg-dry	10	9/13/2012
Cobalt	5.2	1.2		mg/Kg-dry	10	9/13/2012
Copper	500	30		mg/Kg-dry	100	9/12/2012
Iron	170000	3600		mg/Kg-dry	1000	9/13/2012
Lead	890	6.1		mg/Kg-dry	100	9/12/2012
Magnesium	41000	360		mg/Kg-dry	100	9/12/2012
Manganese	30000	120		mg/Kg-dry	1000	9/13/2012
Nickel	70	1.2		mg/Kg-dry	10	9/13/2012
Potassium	180	36		mg/Kg-dry	10	9/13/2012
Selenium	ND	1.2		mg/Kg-dry	10	9/13/2012
Silver	ND	1.2		mg/Kg-dry	10	9/13/2012
Sodium	150	73		mg/Kg-dry	10	9/13/2012
Thallium	ND	1.2		mg/Kg-dry	10	9/13/2012
Vanadium	550	1.2		mg/Kg-dry	10	9/13/2012
Zinc	2100	61		mg/Kg-dry	100	9/12/2012
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 9/12/2012	Analyst: DM
Acenaphthene	3.3	0.4		mg/Kg-dry	1	9/12/2012
Acenaphthylene	ND	0.4		mg/Kg-dry	1	9/12/2012
Aniline	19	4		mg/Kg-dry	1	9/12/2012
Anthracene	ND	0.4		mg/Kg-dry	1	9/12/2012
Benz(a)anthracene	0.59	0.4		mg/Kg-dry	1	9/12/2012
Benzidine	ND	4		mg/Kg-dry	1	9/12/2012
Benzo(a)pyrene	0.79	0.4		mg/Kg-dry	1	9/12/2012
Benzo(b)fluoranthene	1.2	0.4		mg/Kg-dry	1	9/12/2012
Benzo(g,h,i)perylene	0.94	0.4		mg/Kg-dry	1	9/12/2012
Benzo(k)fluoranthene	0.85	0.4		mg/Kg-dry	1	9/12/2012
Benzoic acid	ND	10		mg/Kg-dry	1	9/12/2012
Benzyl alcohol	ND	2		mg/Kg-dry	1	9/12/2012

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-S2-090612

Lab Order: 12090166

Collection Date: 9/6/2012 1:25:00 PM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Soil

Lab ID: 12090166-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3550B)		Prep Date: 9/12/2012		Analyst: DM	
Bis(2-chloroethoxy)methane	ND	2		mg/Kg-dry	1	9/12/2012
Bis(2-chloroethyl)ether	ND	2		mg/Kg-dry	1	9/12/2012
Bis(2-ethylhexyl)phthalate	38	10		mg/Kg-dry	1	9/12/2012
4-Bromophenyl phenyl ether	ND	2		mg/Kg-dry	1	9/12/2012
Butyl benzyl phthalate	ND	2		mg/Kg-dry	1	9/12/2012
Carbazole	ND	2		mg/Kg-dry	1	9/12/2012
4-Chloroaniline	ND	2		mg/Kg-dry	1	9/12/2012
4-Chloro-3-methylphenol	ND	4		mg/Kg-dry	1	9/12/2012
2-Chloronaphthalene	ND	2		mg/Kg-dry	1	9/12/2012
2-Chlorophenol	ND	2		mg/Kg-dry	1	9/12/2012
4-Chlorophenyl phenyl ether	ND	2		mg/Kg-dry	1	9/12/2012
Chrysene	1	0.4		mg/Kg-dry	1	9/12/2012
Dibenz(a,h)anthracene	ND	0.4		mg/Kg-dry	1	9/12/2012
Dibenzofuran	3	2		mg/Kg-dry	1	9/12/2012
1,2-Dichlorobenzene	ND	2		mg/Kg-dry	1	9/12/2012
1,3-Dichlorobenzene	ND	2		mg/Kg-dry	1	9/12/2012
1,4-Dichlorobenzene	ND	2		mg/Kg-dry	1	9/12/2012
3,3'-Dichlorobenzidine	ND	2		mg/Kg-dry	1	9/12/2012
2,4-Dichlorophenol	2.2	2		mg/Kg-dry	1	9/12/2012
Diethyl phthalate	ND	2		mg/Kg-dry	1	9/12/2012
2,4-Dimethylphenol	13	2		mg/Kg-dry	1	9/12/2012
Dimethyl phthalate	ND	2		mg/Kg-dry	1	9/12/2012
4,6-Dinitro-2-methylphenol	ND	4		mg/Kg-dry	1	9/12/2012
2,4-Dinitrophenol	ND	10		mg/Kg-dry	1	9/12/2012
2,4-Dinitrotoluene	ND	0.4		mg/Kg-dry	1	9/12/2012
2,6-Dinitrotoluene	ND	0.4		mg/Kg-dry	1	9/12/2012
Di-n-butyl phthalate	ND	2		mg/Kg-dry	1	9/12/2012
Di-n-octyl phthalate	7.2	2		mg/Kg-dry	1	9/12/2012
Fluoranthene	0.95	0.4		mg/Kg-dry	1	9/12/2012
Fluorene	2.5	0.4		mg/Kg-dry	1	9/12/2012
Hexachlorobenzene	ND	2		mg/Kg-dry	1	9/12/2012
Hexachlorobutadiene	ND	2		mg/Kg-dry	1	9/12/2012
Hexachlorocyclopentadiene	ND	2		mg/Kg-dry	1	9/12/2012
Hexachloroethane	ND	2		mg/Kg-dry	1	9/12/2012
Indeno(1,2,3-cd)pyrene	0.74	0.4		mg/Kg-dry	1	9/12/2012
Isophorone	ND	2		mg/Kg-dry	1	9/12/2012
2-Methylnaphthalene	17	2		mg/Kg-dry	1	9/12/2012
2-Methylphenol	31	2		mg/Kg-dry	1	9/12/2012

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client:	Weston Solutions	Client Sample ID:	GAF-S2-090612
Lab Order:	12090166	Collection Date:	9/6/2012 1:25:00 PM
Project:	20405.012.001.1974.00, Rowland Dump Fire Site	Matrix:	Soil
Lab ID:	12090166-008		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3550B)				Prep Date: 9/12/2012	Analyst: DM
4-Methylphenol	21	2		mg/Kg-dry	1	9/12/2012
Naphthalene	26	0.4		mg/Kg-dry	1	9/12/2012
2-Nitroaniline	ND	2		mg/Kg-dry	1	9/12/2012
3-Nitroaniline	ND	2		mg/Kg-dry	1	9/12/2012
4-Nitroaniline	ND	2		mg/Kg-dry	1	9/12/2012
2-Nitrophenol	ND	2		mg/Kg-dry	1	9/12/2012
4-Nitrophenol	ND	4		mg/Kg-dry	1	9/12/2012
Nitrobenzene	ND	0.4		mg/Kg-dry	1	9/12/2012
N-Nitrosodi-n-propylamine	ND	0.4		mg/Kg-dry	1	9/12/2012
N-Nitrosodimethylamine	ND	2		mg/Kg-dry	1	9/12/2012
N-Nitrosodiphenylamine	ND	0.4		mg/Kg-dry	1	9/12/2012
2, 2'-oxybis(1-Chloropropane)	ND	2		mg/Kg-dry	1	9/12/2012
Pentachlorophenol	ND	0.4		mg/Kg-dry	1	9/12/2012
Phenanthrene	1	0.4		mg/Kg-dry	1	9/12/2012
Phenol	150	10		mg/Kg-dry	5	9/13/2012
Pyrene	1.3	0.4		mg/Kg-dry	1	9/12/2012
Pyridine	ND	8.1		mg/Kg-dry	1	9/12/2012
1,2,4-Trichlorobenzene	10	2		mg/Kg-dry	1	9/12/2012
2,4,5-Trichlorophenol	ND	2		mg/Kg-dry	1	9/12/2012
2,4,6-Trichlorophenol	ND	2		mg/Kg-dry	1	9/12/2012
Cyanide, Total						
	SW9012A				Prep Date: 9/8/2012	Analyst: YZ
Cyanide	0.66	0.3		mg/Kg-dry	1	9/9/2012
pH (25 °C)						
	SW9045C				Prep Date: 9/12/2012	Analyst: MNG
pH	8.2			pH Units	1	9/12/2012
Percent Moisture						
	D2974				Prep Date: 9/10/2012	Analyst: RW
Percent Moisture	17.4	0.2	*	wt%	1	9/11/2012

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

STAT Analysis Corporation

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-S2-090612-DP

Lab Order: 12090166

Collection Date: 9/6/2012 1:25:00 PM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Soil

Lab ID: 12090166-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A				Prep Date: 9/7/2012	Analyst: JG
Mercury	34	1.1		mg/Kg-dry	50	9/7/2012
Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 9/12/2012	Analyst: JG
Aluminum	9100	260		mg/Kg-dry	100	9/12/2012
Antimony	95	26		mg/Kg-dry	100	9/13/2012
Arsenic	13	1.3		mg/Kg-dry	10	9/13/2012
Barium	1400	1.3		mg/Kg-dry	10	9/13/2012
Beryllium	ND	0.64		mg/Kg-dry	10	9/13/2012
Cadmium	39	0.64		mg/Kg-dry	10	9/13/2012
Calcium	38000	770		mg/Kg-dry	100	9/12/2012
Chromium	230	1.3		mg/Kg-dry	10	9/13/2012
Cobalt	15	1.3		mg/Kg-dry	10	9/13/2012
Copper	1200	320		mg/Kg-dry	1000	9/13/2012
Iron	100000	3800		mg/Kg-dry	1000	9/13/2012
Lead	5100	6.4		mg/Kg-dry	100	9/12/2012
Magnesium	11000	380		mg/Kg-dry	100	9/12/2012
Manganese	2500	13		mg/Kg-dry	100	9/13/2012
Nickel	200	1.3		mg/Kg-dry	10	9/13/2012
Potassium	270	38		mg/Kg-dry	10	9/13/2012
Selenium	ND	1.3		mg/Kg-dry	10	9/13/2012
Silver	3.9	1.3		mg/Kg-dry	10	9/13/2012
Sodium	130	77		mg/Kg-dry	10	9/13/2012
Thallium	ND	1.3		mg/Kg-dry	10	9/13/2012
Vanadium	100	1.3		mg/Kg-dry	10	9/13/2012
Zinc	8700	64		mg/Kg-dry	100	9/13/2012
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 9/12/2012	Analyst: DM
Acenaphthene	6	0.4		mg/Kg-dry	1	9/12/2012
Acenaphthylene	ND	0.4		mg/Kg-dry	1	9/12/2012
Aniline	ND	4.1		mg/Kg-dry	1	9/12/2012
Anthracene	3.8	0.4		mg/Kg-dry	1	9/12/2012
Benz(a)anthracene	0.56	0.4		mg/Kg-dry	1	9/12/2012
Benzidine	ND	4		mg/Kg-dry	1	9/12/2012
Benzo(a)pyrene	ND	0.4		mg/Kg-dry	1	9/12/2012
Benzo(b)fluoranthene	0.74	0.4		mg/Kg-dry	1	9/12/2012
Benzo(g,h,i)perylene	0.67	0.4		mg/Kg-dry	1	9/12/2012
Benzo(k)fluoranthene	ND	0.4		mg/Kg-dry	1	9/12/2012
Benzoic acid	ND	10		mg/Kg-dry	1	9/12/2012
Benzyl alcohol	2.4	2.1		mg/Kg-dry	1	9/12/2012

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-S2-090612-DP

Lab Order: 12090166

Collection Date: 9/6/2012 1:25:00 PM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Soil

Lab ID: 12090166-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3550B)		Prep Date: 9/12/2012		Analyst: DM	
Bis(2-chloroethoxy)methane	ND	2.1		mg/Kg-dry	1	9/12/2012
Bis(2-chloroethyl)ether	ND	2.1		mg/Kg-dry	1	9/12/2012
Bis(2-ethylhexyl)phthalate	57	50		mg/Kg-dry	5	9/13/2012
4-Bromophenyl phenyl ether	ND	2.1		mg/Kg-dry	1	9/12/2012
Butyl benzyl phthalate	ND	2.1		mg/Kg-dry	1	9/12/2012
Carbazole	ND	2.1		mg/Kg-dry	1	9/12/2012
4-Chloroaniline	ND	2.1		mg/Kg-dry	1	9/12/2012
4-Chloro-3-methylphenol	ND	4		mg/Kg-dry	1	9/12/2012
2-Chloronaphthalene	ND	2.1		mg/Kg-dry	1	9/12/2012
2-Chlorophenol	ND	2.1		mg/Kg-dry	1	9/12/2012
4-Chlorophenyl phenyl ether	ND	2.1		mg/Kg-dry	1	9/12/2012
Chrysene	1.5	0.4		mg/Kg-dry	1	9/12/2012
Dibenz(a,h)anthracene	ND	0.4		mg/Kg-dry	1	9/12/2012
Dibenzofuran	9.7	2.1		mg/Kg-dry	1	9/12/2012
1,2-Dichlorobenzene	ND	2.1		mg/Kg-dry	1	9/12/2012
1,3-Dichlorobenzene	ND	2.1		mg/Kg-dry	1	9/12/2012
1,4-Dichlorobenzene	ND	2.1		mg/Kg-dry	1	9/12/2012
3,3'-Dichlorobenzidine	ND	2.1		mg/Kg-dry	1	9/12/2012
2,4-Dichlorophenol	ND	2.1		mg/Kg-dry	1	9/12/2012
Diethyl phthalate	ND	2.1		mg/Kg-dry	1	9/12/2012
2,4-Dimethylphenol	14	2.1		mg/Kg-dry	1	9/12/2012
Dimethyl phthalate	ND	2.1		mg/Kg-dry	1	9/12/2012
4,6-Dinitro-2-methylphenol	ND	4		mg/Kg-dry	1	9/12/2012
2,4-Dinitrophenol	ND	10		mg/Kg-dry	1	9/12/2012
2,4-Dinitrotoluene	ND	0.4		mg/Kg-dry	1	9/12/2012
2,6-Dinitrotoluene	ND	0.4		mg/Kg-dry	1	9/12/2012
Di-n-butyl phthalate	ND	2.1		mg/Kg-dry	1	9/12/2012
Di-n-octyl phthalate	6.6	2.1		mg/Kg-dry	1	9/12/2012
Fluoranthene	3.3	0.4		mg/Kg-dry	1	9/12/2012
Fluorene	7.8	0.4		mg/Kg-dry	1	9/12/2012
Hexachlorobenzene	ND	2.1		mg/Kg-dry	1	9/12/2012
Hexachlorobutadiene	ND	2.1		mg/Kg-dry	1	9/12/2012
Hexachlorocyclopentadiene	ND	2.1		mg/Kg-dry	1	9/12/2012
Hexachloroethane	ND	2.1		mg/Kg-dry	1	9/12/2012
Indeno(1,2,3-cd)pyrene	0.44	0.4		mg/Kg-dry	1	9/12/2012
Isophorone	ND	2.1		mg/Kg-dry	1	9/12/2012
2-Methylnaphthalene	31	2.1		mg/Kg-dry	1	9/12/2012
2-Methylphenol	39	2.1		mg/Kg-dry	1	9/12/2012

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Lab Order: 12090166

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Lab ID: 12090166-009

Client Sample ID: GAF-S2-090612-DP

Collection Date: 9/6/2012 1:25:00 PM

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 9/12/2012	Analyst: DM
4-Methylphenol	26	2.1		mg/Kg-dry	1	9/12/2012
Naphthalene	27	0.4		mg/Kg-dry	1	9/12/2012
2-Nitroaniline	ND	2.1		mg/Kg-dry	1	9/12/2012
3-Nitroaniline	ND	2.1		mg/Kg-dry	1	9/12/2012
4-Nitroaniline	ND	2.1		mg/Kg-dry	1	9/12/2012
2-Nitrophenol	ND	2.1		mg/Kg-dry	1	9/12/2012
4-Nitrophenol	ND	4		mg/Kg-dry	1	9/12/2012
Nitrobenzene	ND	0.4		mg/Kg-dry	1	9/12/2012
N-Nitrosodi-n-propylamine	ND	0.4		mg/Kg-dry	1	9/12/2012
N-Nitrosodimethylamine	ND	2.1		mg/Kg-dry	1	9/12/2012
N-Nitrosodiphenylamine	ND	0.4		mg/Kg-dry	1	9/12/2012
2, 2'-oxybis(1-Chloropropane)	ND	2.1		mg/Kg-dry	1	9/12/2012
Pentachlorophenol	ND	0.4		mg/Kg-dry	1	9/12/2012
Phenanthrene	27	0.4		mg/Kg-dry	1	9/12/2012
Phenol	130	10		mg/Kg-dry	5	9/13/2012
Pyrene	2.4	0.4		mg/Kg-dry	1	9/12/2012
Pyridine	ND	8.2		mg/Kg-dry	1	9/12/2012
1,2,4-Trichlorobenzene	8.9	2.1		mg/Kg-dry	1	9/12/2012
2,4,5-Trichlorophenol	ND	2.1		mg/Kg-dry	1	9/12/2012
2,4,6-Trichlorophenol	ND	2.1		mg/Kg-dry	1	9/12/2012
Cyanide, Total	SW9012A				Prep Date: 9/8/2012	Analyst: YZ
Cyanide	13	0.31		mg/Kg-dry	1	9/9/2012
pH (25 °C)	SW9045C				Prep Date: 9/12/2012	Analyst: MNG
pH	8.3			pH Units	1	9/12/2012
Percent Moisture	D2974				Prep Date: 9/10/2012	Analyst: RW
Percent Moisture	18.5	0.2	*	wt%	1	9/11/2012

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-S3-090612

Lab Order: 12090166

Collection Date: 9/6/2012 1:32:00 PM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Soil

Lab ID: 12090166-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A				Prep Date: 9/7/2012	Analyst: JG
Mercury	0.042	0.024		mg/Kg-dry	1	9/7/2012
Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 9/12/2012	Analyst: JG
Aluminum	8000	210		mg/Kg-dry	100	9/12/2012
Antimony	ND	21		mg/Kg-dry	100	9/12/2012
Arsenic	960	11		mg/Kg-dry	100	9/12/2012
Barium	86	1.1		mg/Kg-dry	10	9/13/2012
Beryllium	0.59	0.53		mg/Kg-dry	10	9/13/2012
Cadmium	1.6	0.53		mg/Kg-dry	10	9/13/2012
Calcium	18000	630		mg/Kg-dry	100	9/12/2012
Chromium	420	1.1		mg/Kg-dry	10	9/13/2012
Cobalt	5.5	1.1		mg/Kg-dry	10	9/13/2012
Copper	560	2.6		mg/Kg-dry	10	9/13/2012
Iron	65000	3200		mg/Kg-dry	1000	9/13/2012
Lead	320	5.3		mg/Kg-dry	100	9/12/2012
Magnesium	4300	320		mg/Kg-dry	100	9/12/2012
Manganese	2100	11		mg/Kg-dry	100	9/12/2012
Nickel	47	1.1		mg/Kg-dry	10	9/13/2012
Potassium	480	32		mg/Kg-dry	10	9/13/2012
Selenium	ND	1.1		mg/Kg-dry	10	9/13/2012
Silver	ND	1.1		mg/Kg-dry	10	9/13/2012
Sodium	140	63		mg/Kg-dry	10	9/13/2012
Thallium	ND	1.1		mg/Kg-dry	10	9/13/2012
Vanadium	25	1.1		mg/Kg-dry	10	9/13/2012
Zinc	1700	53		mg/Kg-dry	100	9/12/2012
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 9/12/2012	Analyst: DM
Acenaphthene	0.31	0.039		mg/Kg-dry	1	9/12/2012
Acenaphthylene	0.39	0.039		mg/Kg-dry	1	9/12/2012
Aniline	ND	0.39		mg/Kg-dry	1	9/12/2012
Anthracene	0.66	0.039		mg/Kg-dry	1	9/12/2012
Benz(a)anthracene	1.9	0.039		mg/Kg-dry	1	9/12/2012
Benzidine	ND	0.39		mg/Kg-dry	1	9/12/2012
Benzo(a)pyrene	1.9	0.039		mg/Kg-dry	1	9/12/2012
Benzo(b)fluoranthene	2.1	0.039		mg/Kg-dry	1	9/12/2012
Benzo(g,h,i)perylene	1.4	0.039		mg/Kg-dry	1	9/12/2012
Benzo(k)fluoranthene	1.8	0.039		mg/Kg-dry	1	9/12/2012
Benzoic acid	ND	0.97		mg/Kg-dry	1	9/12/2012
Benzyl alcohol	ND	0.2		mg/Kg-dry	1	9/12/2012

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

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RL - Reporting / Quantitation Limit for the analysis

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R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-S3-090612

Lab Order: 12090166

Collection Date: 9/6/2012 1:32:00 PM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Soil

Lab ID: 12090166-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3550B)		Prep Date: 9/12/2012		Analyst: DM	
Bis(2-chloroethoxy)methane	ND	0.2		mg/Kg-dry	1	9/12/2012
Bis(2-chloroethyl)ether	ND	0.2		mg/Kg-dry	1	9/12/2012
Bis(2-ethylhexyl)phthalate	ND	0.97		mg/Kg-dry	1	9/12/2012
4-Bromophenyl phenyl ether	ND	0.2		mg/Kg-dry	1	9/12/2012
Butyl benzyl phthalate	ND	0.2		mg/Kg-dry	1	9/12/2012
Carbazole	ND	0.2		mg/Kg-dry	1	9/12/2012
4-Chloroaniline	ND	0.2		mg/Kg-dry	1	9/12/2012
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	9/12/2012
2-Chloronaphthalene	ND	0.2		mg/Kg-dry	1	9/12/2012
2-Chlorophenol	ND	0.2		mg/Kg-dry	1	9/12/2012
4-Chlorophenyl phenyl ether	ND	0.2		mg/Kg-dry	1	9/12/2012
Chrysene	2.3	0.039		mg/Kg-dry	1	9/12/2012
Dibenz(a,h)anthracene	0.52	0.039		mg/Kg-dry	1	9/12/2012
Dibenzofuran	0.39	0.2		mg/Kg-dry	1	9/12/2012
1,2-Dichlorobenzene	ND	0.2		mg/Kg-dry	1	9/12/2012
1,3-Dichlorobenzene	ND	0.2		mg/Kg-dry	1	9/12/2012
1,4-Dichlorobenzene	ND	0.2		mg/Kg-dry	1	9/12/2012
3,3'-Dichlorobenzidine	ND	0.2		mg/Kg-dry	1	9/12/2012
2,4-Dichlorophenol	ND	0.2		mg/Kg-dry	1	9/12/2012
Diethyl phthalate	ND	0.2		mg/Kg-dry	1	9/12/2012
2,4-Dimethylphenol	ND	0.2		mg/Kg-dry	1	9/12/2012
Dimethyl phthalate	ND	0.2		mg/Kg-dry	1	9/12/2012
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	9/12/2012
2,4-Dinitrophenol	ND	0.97		mg/Kg-dry	1	9/12/2012
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	9/12/2012
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	9/12/2012
Di-n-butyl phthalate	ND	0.2		mg/Kg-dry	1	9/12/2012
Di-n-octyl phthalate	ND	0.2		mg/Kg-dry	1	9/12/2012
Fluoranthene	4.5	0.039		mg/Kg-dry	1	9/12/2012
Fluorene	0.21	0.039		mg/Kg-dry	1	9/12/2012
Hexachlorobenzene	ND	0.2		mg/Kg-dry	1	9/12/2012
Hexachlorobutadiene	ND	0.2		mg/Kg-dry	1	9/12/2012
Hexachlorocyclopentadiene	ND	0.2		mg/Kg-dry	1	9/12/2012
Hexachloroethane	ND	0.2		mg/Kg-dry	1	9/12/2012
Indeno(1,2,3-cd)pyrene	1.2	0.039		mg/Kg-dry	1	9/12/2012
Isophorone	ND	0.2		mg/Kg-dry	1	9/12/2012
2-Methylnaphthalene	ND	0.2		mg/Kg-dry	1	9/12/2012
2-Methylphenol	ND	0.2		mg/Kg-dry	1	9/12/2012

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

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R - RPD outside accepted recovery limits

E - Value above quantitation range

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STAT Analysis Corporation

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-S3-090612

Lab Order: 12090166

Collection Date: 9/6/2012 1:32:00 PM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Soil

Lab ID: 12090166-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 9/12/2012	Analyst: DM
4-Methylphenol	ND	0.2		mg/Kg-dry	1	9/12/2012
Naphthalene	0.23	0.039		mg/Kg-dry	1	9/12/2012
2-Nitroaniline	ND	0.2		mg/Kg-dry	1	9/12/2012
3-Nitroaniline	ND	0.2		mg/Kg-dry	1	9/12/2012
4-Nitroaniline	ND	0.2		mg/Kg-dry	1	9/12/2012
2-Nitrophenol	ND	0.2		mg/Kg-dry	1	9/12/2012
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	9/12/2012
Nitrobenzene	ND	0.039		mg/Kg-dry	1	9/12/2012
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	9/12/2012
N-Nitrosodimethylamine	ND	0.2		mg/Kg-dry	1	9/12/2012
N-Nitrosodiphenylamine	ND	0.039		mg/Kg-dry	1	9/12/2012
2, 2'-oxybis(1-Chloropropane)	ND	0.2		mg/Kg-dry	1	9/12/2012
Pentachlorophenol	ND	0.039		mg/Kg-dry	1	9/12/2012
Phenanthrene	2.3	0.039		mg/Kg-dry	1	9/12/2012
Phenol	ND	0.2		mg/Kg-dry	1	9/12/2012
Pyrene	3.6	0.039		mg/Kg-dry	1	9/12/2012
Pyridine	ND	0.79		mg/Kg-dry	1	9/12/2012
1,2,4-Trichlorobenzene	ND	0.2		mg/Kg-dry	1	9/12/2012
2,4,5-Trichlorophenol	ND	0.2		mg/Kg-dry	1	9/12/2012
2,4,6-Trichlorophenol	ND	0.2		mg/Kg-dry	1	9/12/2012
Cyanide, Total	SW9012A				Prep Date: 9/8/2012	Analyst: YZ
Cyanide	0.8	0.29		mg/Kg-dry	1	9/9/2012
pH (25 °C)	SW9045C				Prep Date: 9/12/2012	Analyst: MNG
pH	8.1			pH Units	1	9/12/2012
Percent Moisture	D2974				Prep Date: 9/10/2012	Analyst: RW
Percent Moisture	15.2	0.2	*	wt%	1	9/11/2012

Qualifiers:

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E - Value above quantitation range

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-S4-090612

Lab Order: 12090166

Collection Date: 9/6/2012 1:36:00 PM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Soil

Lab ID: 12090166-011

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A				Prep Date: 9/7/2012	Analyst: JG
Mercury	2.9	0.43		mg/Kg-dry	20	9/7/2012
Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 9/12/2012	Analyst: JG
Aluminum	14000	230		mg/Kg-dry	100	9/12/2012
Antimony	63	23		mg/Kg-dry	100	9/13/2012
Arsenic	14	1.1		mg/Kg-dry	10	9/13/2012
Barium	1700	1.1		mg/Kg-dry	10	9/13/2012
Beryllium	ND	0.57		mg/Kg-dry	10	9/13/2012
Cadmium	31	0.57		mg/Kg-dry	10	9/13/2012
Calcium	220000	680		mg/Kg-dry	100	9/12/2012
Chromium	930	1.1		mg/Kg-dry	10	9/13/2012
Cobalt	14	1.1		mg/Kg-dry	10	9/13/2012
Copper	65000	290		mg/Kg-dry	1000	9/13/2012
Iron	190000	3400		mg/Kg-dry	1000	9/13/2012
Lead	6600	5.7		mg/Kg-dry	100	9/12/2012
Magnesium	44000	340		mg/Kg-dry	100	9/12/2012
Manganese	23000	110		mg/Kg-dry	1000	9/13/2012
Nickel	250	1.1		mg/Kg-dry	10	9/13/2012
Potassium	250	34		mg/Kg-dry	10	9/13/2012
Selenium	2.1	1.1		mg/Kg-dry	10	9/13/2012
Silver	2.5	1.1		mg/Kg-dry	10	9/13/2012
Sodium	270	68		mg/Kg-dry	10	9/13/2012
Thallium	ND	1.1		mg/Kg-dry	10	9/13/2012
Vanadium	540	1.1		mg/Kg-dry	10	9/13/2012
Zinc	7000	57		mg/Kg-dry	100	9/13/2012
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 9/12/2012	Analyst: DM
Acenaphthene	ND	0.37		mg/Kg-dry	1	9/12/2012
Acenaphthylene	ND	0.37		mg/Kg-dry	1	9/12/2012
Aniline	ND	3.8		mg/Kg-dry	1	9/12/2012
Anthracene	ND	0.37		mg/Kg-dry	1	9/12/2012
Benz(a)anthracene	ND	0.37		mg/Kg-dry	1	9/12/2012
Benzidine	ND	3.7		mg/Kg-dry	1	9/12/2012
Benzo(a)pyrene	ND	0.37		mg/Kg-dry	1	9/12/2012
Benzo(b)fluoranthene	ND	0.37		mg/Kg-dry	1	9/12/2012
Benzo(g,h,i)perylene	ND	0.37		mg/Kg-dry	1	9/12/2012
Benzo(k)fluoranthene	ND	0.37		mg/Kg-dry	1	9/12/2012
Benzoic acid	ND	9.4		mg/Kg-dry	1	9/12/2012
Benzyl alcohol	ND	1.9		mg/Kg-dry	1	9/12/2012

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

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E - Value above quantitation range

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-S4-090612

Lab Order: 12090166

Collection Date: 9/6/2012 1:36:00 PM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Soil

Lab ID: 12090166-011

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 9/12/2012		Analyst: DM	
Bis(2-chloroethoxy)methane	ND	1.9		mg/Kg-dry	1	9/12/2012
Bis(2-chloroethyl)ether	ND	1.9		mg/Kg-dry	1	9/12/2012
Bis(2-ethylhexyl)phthalate	18	9.4		mg/Kg-dry	1	9/12/2012
4-Bromophenyl phenyl ether	ND	1.9		mg/Kg-dry	1	9/12/2012
Butyl benzyl phthalate	ND	1.9		mg/Kg-dry	1	9/12/2012
Carbazole	ND	1.9		mg/Kg-dry	1	9/12/2012
4-Chloroaniline	ND	1.9		mg/Kg-dry	1	9/12/2012
4-Chloro-3-methylphenol	ND	3.7		mg/Kg-dry	1	9/12/2012
2-Chloronaphthalene	ND	1.9		mg/Kg-dry	1	9/12/2012
2-Chlorophenol	ND	1.9		mg/Kg-dry	1	9/12/2012
4-Chlorophenyl phenyl ether	ND	1.9		mg/Kg-dry	1	9/12/2012
Chrysene	ND	0.37		mg/Kg-dry	1	9/12/2012
Dibenz(a,h)anthracene	ND	0.37		mg/Kg-dry	1	9/12/2012
Dibenzofuran	ND	1.9		mg/Kg-dry	1	9/12/2012
1,2-Dichlorobenzene	ND	1.9		mg/Kg-dry	1	9/12/2012
1,3-Dichlorobenzene	ND	1.9		mg/Kg-dry	1	9/12/2012
1,4-Dichlorobenzene	ND	1.9		mg/Kg-dry	1	9/12/2012
3,3'-Dichlorobenzidine	ND	1.9		mg/Kg-dry	1	9/12/2012
2,4-Dichlorophenol	ND	1.9		mg/Kg-dry	1	9/12/2012
Diethyl phthalate	ND	1.9		mg/Kg-dry	1	9/12/2012
2,4-Dimethylphenol	ND	1.9		mg/Kg-dry	1	9/12/2012
Dimethyl phthalate	ND	1.9		mg/Kg-dry	1	9/12/2012
4,6-Dinitro-2-methylphenol	ND	3.7		mg/Kg-dry	1	9/12/2012
2,4-Dinitrophenol	ND	9.4		mg/Kg-dry	1	9/12/2012
2,4-Dinitrotoluene	ND	0.37		mg/Kg-dry	1	9/12/2012
2,6-Dinitrotoluene	ND	0.37		mg/Kg-dry	1	9/12/2012
Di-n-butyl phthalate	ND	1.9		mg/Kg-dry	1	9/12/2012
Di-n-octyl phthalate	3.1	1.9		mg/Kg-dry	1	9/12/2012
Fluoranthene	ND	0.37		mg/Kg-dry	1	9/12/2012
Fluorene	ND	0.37		mg/Kg-dry	1	9/12/2012
Hexachlorobenzene	ND	1.9		mg/Kg-dry	1	9/12/2012
Hexachlorobutadiene	ND	1.9		mg/Kg-dry	1	9/12/2012
Hexachlorocyclopentadiene	ND	1.9		mg/Kg-dry	1	9/12/2012
Hexachloroethane	ND	1.9		mg/Kg-dry	1	9/12/2012
Indeno(1,2,3-cd)pyrene	ND	0.37		mg/Kg-dry	1	9/12/2012
Isophorone	ND	1.9		mg/Kg-dry	1	9/12/2012
2-Methylnaphthalene	ND	1.9		mg/Kg-dry	1	9/12/2012
2-Methylphenol	ND	1.9		mg/Kg-dry	1	9/12/2012

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: September 13, 2012

Date Printed: September 13, 2012

Client: Weston Solutions

Client Sample ID: GAF-S4-090612

Lab Order: 12090166

Collection Date: 9/6/2012 1:36:00 PM

Project: 20405.012.001.1974.00, Rowland Dump Fire Site

Matrix: Soil

Lab ID: 12090166-011

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 9/12/2012	Analyst: DM
4-Methylphenol	ND	1.9		mg/Kg-dry	1	9/12/2012
Naphthalene	ND	0.37		mg/Kg-dry	1	9/12/2012
2-Nitroaniline	ND	1.9		mg/Kg-dry	1	9/12/2012
3-Nitroaniline	ND	1.9		mg/Kg-dry	1	9/12/2012
4-Nitroaniline	ND	1.9		mg/Kg-dry	1	9/12/2012
2-Nitrophenol	ND	1.9		mg/Kg-dry	1	9/12/2012
4-Nitrophenol	ND	3.7		mg/Kg-dry	1	9/12/2012
Nitrobenzene	ND	0.37		mg/Kg-dry	1	9/12/2012
N-Nitrosodi-n-propylamine	ND	0.37		mg/Kg-dry	1	9/12/2012
N-Nitrosodimethylamine	ND	1.9		mg/Kg-dry	1	9/12/2012
N-Nitrosodiphenylamine	ND	0.37		mg/Kg-dry	1	9/12/2012
2, 2'-oxybis(1-Chloropropane)	ND	1.9		mg/Kg-dry	1	9/12/2012
Pentachlorophenol	ND	0.37		mg/Kg-dry	1	9/12/2012
Phenanthrene	ND	0.37		mg/Kg-dry	1	9/12/2012
Phenol	ND	1.9		mg/Kg-dry	1	9/12/2012
Pyrene	ND	0.37		mg/Kg-dry	1	9/12/2012
Pyridine	ND	7.6		mg/Kg-dry	1	9/12/2012
1,2,4-Trichlorobenzene	ND	1.9		mg/Kg-dry	1	9/12/2012
2,4,5-Trichlorophenol	ND	1.9		mg/Kg-dry	1	9/12/2012
2,4,6-Trichlorophenol	ND	1.9		mg/Kg-dry	1	9/12/2012
Cyanide, Total	SW9012A				Prep Date: 9/8/2012	Analyst: YZ
Cyanide	8.4	0.29		mg/Kg-dry	1	9/9/2012
pH (25 °C)	SW9045C				Prep Date: 9/12/2012	Analyst: MNG
pH	9.2			pH Units	1	9/12/2012
Percent Moisture	D2974				Prep Date: 9/10/2012	Analyst: RW
Percent Moisture	12.4	0.2	*	wt%	1	9/11/2012

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

Sample Receipt Checklist

Client Name **WESTON CHICAGO**

Date and Time Received: **9/6/2012 8:15:00 PM**

Work Order Number **12090166**

Received by: **MAM**

Checklist completed by: _____

Signature

Date

Reviewed by: **KL**

Initials

Date

Matrix:

Carrier name Client Delivered

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature 3.8 °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by: _____
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments: _____

Client / Person
contacted: _____

Date contacted: _____

Contacted by: _____

Response: _____

CHAIN OF CUSTODY RECORD

N^o: 844519

Page: 1 of 1

Company: <u>Western Solutions, Inc.</u>		P.O. No.:	
Project Number: <u>20405.012.001.1974.00</u>		Quote No.:	
Project Name: <u>Roadland Dump Fire Site</u>			
Project Location: <u>Gary, IN</u>			
Sampler(s): <u>Ben Mordakel</u>			
Report To: <u>Tony Bulla</u>			
Phone: <u>847-918-4094</u>			
Fax: <u>847-918-4055</u>			
e-mail: <u>See Quote</u>			
QC Level: 1	2	3	4
Client Sample Number/Description:	Date Taken	Time Taken	Matrix
GAF-QA1-090612	9/6/2012	1055	Air
GAF-QA2-090612		1105	
GAF-QA3-090612		1218	
GAF-QA4-090612		1223	
GAF-QA5-090612		1238	
GAF-QA6-090612		1242	
GAF-S1-090612		1322	Soil
GAF-S2-090612		1325	
GAF-S2-090612-DE		1325	
GAF-S3-090612		1332	
GAF-S4-090612		1336	
Preserv	Grab	Comp	No. of Containers
✓ A	✓		1
✓	✓		1
✓	✓		1
✓	✓		1
✓	✓		1
✓	✓		1
✓	✓		2
✓	✓		2
✓	✓		2
✓	✓		2
✓	✓		2

Remarks	Lab No.:
8-hr Sample	001
8-hr Sample	002
	003
	004
	005
	006
	007
	008
	009
	010
	011

Relinquished by: (Signature)	Date/Time: <u>9/6/12 5PM</u>
Received by: (Signature)	Date/Time: <u>9-6-12 2:45 PM</u>
Relinquished by: (Signature)	Date/Time:
Received by: (Signature)	Date/Time:
Relinquished by: (Signature)	Date/Time:
Received by: (Signature)	Date/Time:

Comments: Air Samples: 48-hr turn
Soil Samples: 5-day turn

Preservation Code: A = None B = HNO₃ C = NaOH
D = H₂SO₄ E = HCl F = S03S/EnCore G = Other

Laboratory Work Order No.: 12090166

Received on Ice: Yes ☒ No ☐

Temperature: 38 °C

CLIENT: Weston Solutions
Work Order: 12090166
Project: 20405.012.001.1974.00, Rowland Dump Fire Site

ANALYTICAL QC SUMMARY REPORT

BatchID: R83105

Sample ID: MB090612-6	SampType: MBLK	TestCode: TO_15A+	Units: ppbv	Prep Date:	Run ID: VOA-6_120906A						
Client ID: ZZZZ	Batch ID: R83105	TestNo: TO-15		Analysis Date: 9/6/2012	SeqNo: 2235384						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.20									
1,1,2,2-Tetrachloroethane	ND	0.20									
1,1,2-Trichloroethane	ND	0.20									
1,1-Dichloroethane	ND	0.20									
1,1-Dichloroethene	ND	0.20									
1,2,4-Trichlorobenzene	ND	0.20									
1,2,4-Trimethylbenzene	ND	0.20									
1,2-Dibromoethane	ND	0.20									
1,2-Dichlorobenzene	ND	0.20									
1,2-Dichloroethane	ND	0.20									
1,2-Dichloropropane	ND	0.20									
1,3,5-Trimethylbenzene	ND	0.20									
1,3-Butadiene	ND	0.20									
1,3-Dichlorobenzene	ND	0.20									
1,4-Dichlorobenzene	ND	0.20									
1,4-Dioxane	ND	1.0									
2-Butanone	ND	0.50									
2-Hexanone	ND	1.0									
4-Ethyltoluene	ND	0.20									
4-Methyl-2-pentanone	ND	1.0									
Acetone	ND	2.0									*
Benzene	ND	0.20									
Benzyl chloride	ND	0.50									
Bromodichloromethane	ND	0.20									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon disulfide	ND	0.20									
Carbon tetrachloride	ND	0.20									
Chlorobenzene	ND	0.20									
Chloroethane	ND	0.20									

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

CLIENT: Weston Solutions
Work Order: 12090166
Project: 20405.012.001.1974.00, Rowland Dump Fire Site

ANALYTICAL QC SUMMARY REPORT

BatchID: R83105

Sample ID: MB090612-6	SampType: MBLK	TestCode: TO_15A+	Units: ppbv	Prep Date:	Run ID: VOA-6_120906A						
Client ID: ZZZZ	Batch ID: R83105	TestNo: TO-15		Analysis Date: 9/6/2012	SeqNo: 2235384						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	ND	0.20									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.20									
cis-1,3-Dichloropropene	ND	0.20									
Cyclohexane	ND	0.20									
Dibromochloromethane	ND	0.20									
Dichlorodifluoromethane	ND	0.20									
Ethyl acetate	ND	0.20									
Ethylbenzene	ND	0.20									
Freon-113	ND	0.20									
Freon-114	ND	1.0									
Heptane	ND	0.20									
Hexachlorobutadiene	ND	0.20									
Hexane	ND	0.50									
Isopropyl Alcohol	ND	1.0									
m,p-Xylene	ND	0.40									
Methyl tert-butyl ether	ND	0.20									
Methylene chloride	ND	2.0									
o-Xylene	ND	0.20									
Propene	ND	2.0									
Styrene	ND	0.20									
Tetrachloroethene	ND	0.20									
Tetrahydrofuran	0.03	0.50									J
Toluene	ND	0.20									
trans-1,2-Dichloroethene	ND	0.20									
trans-1,3-Dichloropropene	ND	0.20									
Trichloroethene	ND	0.20									
Trichlorofluoromethane	ND	0.20									
Vinyl acetate	ND	2.0									
Vinyl chloride	ND	0.20									
Xylenes, Total	ND	0.60									

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

CLIENT: Weston Solutions
Work Order: 12090166
Project: 20405.012.001.1974.00, Rowland Dump Fire Site

ANALYTICAL QC SUMMARY REPORT

BatchID: R83105

Sample ID: C090512	SampType: MBLK	TestCode: TO_15A+	Units: ppbv	Prep Date:	Run ID: VOA-6_120906A						
Client ID: ZZZZ	Batch ID: R83105	TestNo: TO-15		Analysis Date: 9/7/2012	SeqNo: 2235535						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.20									
1,1,2,2-Tetrachloroethane	ND	0.20									
1,1,2-Trichloroethane	ND	0.20									
1,1-Dichloroethane	ND	0.20									
1,1-Dichloroethene	ND	0.20									
1,2,4-Trichlorobenzene	0.02	0.20									J
1,2,4-Trimethylbenzene	ND	0.20									
1,2-Dibromoethane	ND	0.20									
1,2-Dichlorobenzene	ND	0.20									
1,2-Dichloroethane	ND	0.20									
1,2-Dichloropropane	ND	0.20									
1,3,5-Trimethylbenzene	ND	0.20									
1,3-Butadiene	ND	0.20									
1,3-Dichlorobenzene	ND	0.20									
1,4-Dichlorobenzene	ND	0.20									
1,4-Dioxane	ND	1.0									
2-Butanone	ND	0.50									
2-Hexanone	ND	1.0									
4-Ethyltoluene	ND	0.20									
4-Methyl-2-pentanone	ND	1.0									
Acetone	ND	2.0									*
Benzene	0.08	0.20									J
Benzyl chloride	ND	0.50									
Bromodichloromethane	ND	0.20									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon disulfide	ND	0.20									
Carbon tetrachloride	ND	0.20									
Chlorobenzene	ND	0.20									
Chloroethane	ND	0.20									
Chloroform	ND	0.20									

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

CLIENT: Weston Solutions
Work Order: 12090166
Project: 20405.012.001.1974.00, Rowland Dump Fire Site

ANALYTICAL QC SUMMARY REPORT

BatchID: R83105

Sample ID: C090512	SampType: MBLK	TestCode: TO_15A+	Units: ppbv	Prep Date:	Run ID: VOA-6_120906A						
Client ID: ZZZZ	Batch ID: R83105	TestNo: TO-15		Analysis Date: 9/7/2012	SeqNo: 2235535						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.20									
cis-1,3-Dichloropropene	ND	0.20									
Cyclohexane	ND	0.20									
Dibromochloromethane	ND	0.20									
Dichlorodifluoromethane	ND	0.20									
Ethyl acetate	ND	0.20									
Ethylbenzene	0.02	0.20									J
Freon-113	ND	0.20									
Freon-114	ND	1.0									
Heptane	ND	0.20									
Hexachlorobutadiene	ND	0.20									
Hexane	ND	0.50									
Isopropyl Alcohol	ND	1.0									
m,p-Xylene	0.05	0.40									J
Methyl tert-butyl ether	ND	0.20									
Methylene chloride	ND	2.0									
o-Xylene	ND	0.20									
Propene	ND	2.0									
Styrene	0.02	0.20									J
Tetrachloroethene	ND	0.20									
Tetrahydrofuran	0.04	0.50									J
Toluene	ND	0.20									
trans-1,2-Dichloroethene	ND	0.20									
trans-1,3-Dichloropropene	ND	0.20									
Trichloroethene	ND	0.20									
Trichlorofluoromethane	ND	0.20									
Vinyl acetate	ND	2.0									
Vinyl chloride	ND	0.20									
Xylenes, Total	0.06	0.60									J

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

CLIENT: Weston Solutions
Work Order: 12090166
Project: 20405.012.001.1974.00, Rowland Dump Fire Site

ANALYTICAL QC SUMMARY REPORT

BatchID: R83105

Sample ID: LCS090612-6	SampType: LCS	TestCode: TO_15A+	Units: ppbv	Prep Date:				Run ID: VOA-6_120906A			
Client ID: ZZZZ	Batch ID: R83105	TestNo: TO-15	Analysis Date: 9/7/2012				SeqNo: 2235385				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	4.63	0.20	5	0	92.6	70	130	0	0		
1,1,2,2-Tetrachloroethane	5.49	0.20	5	0	110	70	130	0	0		
1,1,2-Trichloroethane	5.28	0.20	5	0	106	70	130	0	0		
1,1-Dichloroethane	5.18	0.20	5	0	104	70	130	0	0		
1,1-Dichloroethene	5.17	0.20	5	0	103	70	130	0	0		
1,2,4-Trichlorobenzene	5.22	0.20	5	0	104	70	130	0	0		
1,2,4-Trimethylbenzene	5.07	0.20	5	0	101	70	130	0	0		
1,2-Dibromoethane	4.74	0.20	5	0	94.8	70	130	0	0		
1,2-Dichlorobenzene	5.33	0.20	5	0	107	70	130	0	0		
1,2-Dichloroethane	5.1	0.20	5	0	102	70	130	0	0		
1,2-Dichloropropane	4.64	0.20	5	0	92.8	70	130	0	0		
1,3,5-Trimethylbenzene	5.54	0.20	5	0	111	70	130	0	0		
1,3-Butadiene	5.07	0.20	5	0	101	70	130	0	0		
1,3-Dichlorobenzene	4.82	0.20	5	0	96.4	70	130	0	0		
1,4-Dichlorobenzene	5.22	0.20	5	0	104	70	130	0	0		
1,4-Dioxane	4.64	1.0	5	0	92.8	70	130	0	0		
2-Butanone	4.47	0.50	5	0	89.4	70	130	0	0		
2-Hexanone	4.59	1.0	5	0	91.8	70	130	0	0		
4-Ethyltoluene	5.1	0.20	5	0	102	70	130	0	0		
4-Methyl-2-pentanone	4.45	1.0	5	0	89	70	130	0	0		
Acetone	4.4	2.0	5	0	88	70	130	0	0		*
Benzene	4.34	0.20	5	0	86.8	70	130	0	0		
Benzyl chloride	5.46	0.50	5	0	109	70	130	0	0		
Bromodichloromethane	4.89	0.20	5	0	97.8	70	130	0	0		
Bromoform	5.5	0.50	5	0	110	70	130	0	0		
Bromomethane	4.15	0.50	5	0	83	70	130	0	0		
Carbon disulfide	4.14	0.20	5	0	82.8	70	130	0	0		
Carbon tetrachloride	4.85	0.20	5	0	97	70	130	0	0		
Chlorobenzene	4.68	0.20	5	0	93.6	70	130	0	0		
Chloroethane	4.99	0.20	5	0	99.8	70	130	0	0		
Chloroform	4.74	0.20	5	0	94.8	70	130	0	0		

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

CLIENT: Weston Solutions
Work Order: 12090166
Project: 20405.012.001.1974.00, Rowland Dump Fire Site

ANALYTICAL QC SUMMARY REPORT

BatchID: R83105

Sample ID: LCS090612-6	SampType: LCS	TestCode: TO_15A+	Units: ppbv	Prep Date:				Run ID: VOA-6_120906A			
Client ID: ZZZZ	Batch ID: R83105	TestNo: TO-15	Analysis Date: 9/7/2012				SeqNo: 2235385				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	4.27	0.50	5	0	85.4	70	130	0	0		
cis-1,2-Dichloroethene	4.66	0.20	5	0	93.2	70	130	0	0		
cis-1,3-Dichloropropene	4.93	0.20	5	0	98.6	70	130	0	0		
Cyclohexane	4.67	0.20	5	0	93.4	70	130	0	0		
Dibromochloromethane	5.27	0.20	5	0	105	70	130	0	0		
Dichlorodifluoromethane	4.69	0.20	5	0	93.8	70	130	0	0		
Ethyl acetate	4.68	0.20	5	0	93.6	70	130	0	0		
Ethylbenzene	4.81	0.20	5	0	96.2	70	130	0	0		
Freon-113	4.37	0.20	5	0	87.4	70	130	0	0		
Freon-114	4.73	1.0	5	0	94.6	70	130	0	0		
Heptane	5.24	0.20	5	0	105	70	130	0	0		
Hexachlorobutadiene	5.13	0.20	5	0	103	70	130	0	0		
Hexane	5.48	0.50	5	0	110	70	130	0	0		
Isopropyl Alcohol	5.13	1.0	5	0	103	70	130	0	0		
m,p-Xylene	9.73	0.40	10	0	97.3	70	130	0	0		
Methyl tert-butyl ether	5.58	0.20	5	0	112	70	130	0	0		
Methylene chloride	4.18	2.0	5	0	83.6	70	130	0	0		
o-Xylene	4.96	0.20	5	0	99.2	70	130	0	0		
Propene	4.36	2.0	5	0	87.2	70	130	0	0		
Styrene	6.09	0.20	5	0	122	70	130	0	0		
Tetrachloroethene	4.85	0.20	5	0	97	70	130	0	0		
Tetrahydrofuran	4.2	0.50	5	0.03	83.4	70	130	0	0		
Toluene	4.59	0.20	5	0	91.8	70	130	0	0		
trans-1,2-Dichloroethene	4.54	0.20	5	0	90.8	70	130	0	0		
trans-1,3-Dichloropropene	3.92	0.20	5	0	78.4	70	130	0	0		
Trichloroethene	4.83	0.20	5	0	96.6	70	130	0	0		
Trichlorofluoromethane	4.59	0.20	5	0	91.8	70	130	0	0		
Vinyl acetate	4.52	2.0	5	0	90.4	70	130	0	0		
Vinyl chloride	4.83	0.20	5	0	96.6	70	130	0	0		
Xylenes, Total	14.69	0.60	15	0	97.9	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 12090166
Project: 20405.012.001.1974.00, Rowland Dump Fire Site

ANALYTICAL QC SUMMARY REPORT

BatchID: R83105

Sample ID: LCSD090612-6	SampType: LCSD	TestCode: TO_15A+	Units: ppbv	Prep Date:	Run ID: VOA-6_120906A						
Client ID: ZZZZ	Batch ID: R83105	TestNo: TO-15		Analysis Date: 9/7/2012	SeqNo: 2235386						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	4.64	0.20	5	0	92.8	70	130	4.63	0.216	25	
1,1,2,2-Tetrachloroethane	5.47	0.20	5	0	109	70	130	5.49	0.365	25	
1,1,2-Trichloroethane	5.25	0.20	5	0	105	70	130	5.28	0.570	25	
1,1-Dichloroethane	5.17	0.20	5	0	103	70	130	5.18	0.193	25	
1,1-Dichloroethene	5.19	0.20	5	0	104	70	130	5.17	0.386	25	
1,2,4-Trichlorobenzene	5.17	0.20	5	0	103	70	130	5.22	0.962	25	
1,2,4-Trimethylbenzene	5	0.20	5	0	100	70	130	5.07	1.39	25	
1,2-Dibromoethane	4.75	0.20	5	0	95	70	130	4.74	0.211	25	
1,2-Dichlorobenzene	5.28	0.20	5	0	106	70	130	5.33	0.943	25	
1,2-Dichloroethane	5.1	0.20	5	0	102	70	130	5.1	0	25	
1,2-Dichloropropane	4.61	0.20	5	0	92.2	70	130	4.64	0.649	25	
1,3,5-Trimethylbenzene	5.52	0.20	5	0	110	70	130	5.54	0.362	25	
1,3-Butadiene	5.04	0.20	5	0	101	70	130	5.07	0.593	25	
1,3-Dichlorobenzene	4.8	0.20	5	0	96	70	130	4.82	0.416	25	
1,4-Dichlorobenzene	5.19	0.20	5	0	104	70	130	5.22	0.576	25	
1,4-Dioxane	4.43	1.0	5	0	88.6	70	130	4.64	4.63	25	
2-Butanone	4.35	0.50	5	0	87	70	130	4.47	2.72	25	
2-Hexanone	4.38	1.0	5	0	87.6	70	130	4.59	4.68	25	
4-Ethyltoluene	5.09	0.20	5	0	102	70	130	5.1	0.196	25	
4-Methyl-2-pentanone	4.25	1.0	5	0	85	70	130	4.45	4.60	25	
Acetone	4.33	2.0	5	0	86.6	70	130	4.4	1.60	25	*
Benzene	4.29	0.20	5	0	85.8	70	130	4.34	1.16	25	
Benzyl chloride	5.35	0.50	5	0	107	70	130	5.46	2.04	25	
Bromodichloromethane	4.9	0.20	5	0	98	70	130	4.89	0.204	25	
Bromoform	5.5	0.50	5	0	110	70	130	5.5	0	25	
Bromomethane	4.17	0.50	5	0	83.4	70	130	4.15	0.481	25	
Carbon disulfide	4.12	0.20	5	0	82.4	70	130	4.14	0.484	25	
Carbon tetrachloride	4.82	0.20	5	0	96.4	70	130	4.85	0.620	25	
Chlorobenzene	4.69	0.20	5	0	93.8	70	130	4.68	0.213	25	
Chloroethane	4.97	0.20	5	0	99.4	70	130	4.99	0.402	25	
Chloroform	4.7	0.20	5	0	94	70	130	4.74	0.847	25	

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B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 12090166
Project: 20405.012.001.1974.00, Rowland Dump Fire Site

ANALYTICAL QC SUMMARY REPORT

BatchID: R83105

Sample ID: LCSD090612-6	SampType: LCSD	TestCode: TO_15A+	Units: ppbv	Prep Date:				Run ID: VOA-6_120906A			
Client ID: ZZZZ	Batch ID: R83105	TestNo: TO-15		Analysis Date: 9/7/2012				SeqNo: 2235386			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	4.28	0.50	5	0	85.6	70	130	4.27	0.234	25	
cis-1,2-Dichloroethene	4.64	0.20	5	0	92.8	70	130	4.66	0.430	25	
cis-1,3-Dichloropropene	4.93	0.20	5	0	98.6	70	130	4.93	0	25	
Cyclohexane	4.67	0.20	5	0	93.4	70	130	4.67	0	25	
Dibromochloromethane	5.24	0.20	5	0	105	70	130	5.27	0.571	25	
Dichlorodifluoromethane	4.69	0.20	5	0	93.8	70	130	4.69	0	25	
Ethyl acetate	4.52	0.20	5	0	90.4	70	130	4.68	3.48	25	
Ethylbenzene	4.79	0.20	5	0	95.8	70	130	4.81	0.417	25	
Freon-113	4.37	0.20	5	0	87.4	70	130	4.37	0	25	
Freon-114	4.74	1.0	5	0	94.8	70	130	4.73	0.211	25	
Heptane	5.28	0.20	5	0	106	70	130	5.24	0.760	25	
Hexachlorobutadiene	4.94	0.20	5	0	98.8	70	130	5.13	3.77	25	
Hexane	5.5	0.50	5	0	110	70	130	5.48	0.364	25	
Isopropyl Alcohol	5.04	1.0	5	0	101	70	130	5.13	1.77	25	
m,p-Xylene	9.7	0.40	10	0	97	70	130	9.73	0.309	25	
Methyl tert-butyl ether	5.53	0.20	5	0	111	70	130	5.58	0.900	25	
Methylene chloride	4.17	2.0	5	0	83.4	70	130	4.18	0.240	25	
o-Xylene	4.97	0.20	5	0	99.4	70	130	4.96	0.201	25	
Propene	4.32	2.0	5	0	86.4	70	130	4.36	0.922	25	
Styrene	6.06	0.20	5	0	121	70	130	6.09	0.494	25	
Tetrachloroethene	4.85	0.20	5	0	97	70	130	4.85	0	25	
Tetrahydrofuran	4.09	0.50	5	0.03	81.2	70	130	4.2	2.65	25	
Toluene	4.55	0.20	5	0	91	70	130	4.59	0.875	25	
trans-1,2-Dichloroethene	4.59	0.20	5	0	91.8	70	130	4.54	1.10	25	
trans-1,3-Dichloropropene	3.92	0.20	5	0	78.4	70	130	3.92	0	25	
Trichloroethene	4.82	0.20	5	0	96.4	70	130	4.83	0.207	25	
Trichlorofluoromethane	4.56	0.20	5	0	91.2	70	130	4.59	0.656	25	
Vinyl acetate	4.39	2.0	5	0	87.8	70	130	4.52	2.92	25	
Vinyl chloride	4.87	0.20	5	0	97.4	70	130	4.83	0.825	25	
Xylenes, Total	14.67	0.60	15	0	97.8	70	130	14.69	0.136	25	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

CLIENT: Weston Solutions
Work Order: 12090166
Project: 20405.012.001.1974.00, Rowland Dump Fire Site
Test No: SW8270C **Matrix:** S

QC SUMMARY REPORT SURROGATE RECOVERIES

Sample ID	CLPH2D4	DCBZ12D4	NO2BZD5	PH246BR	PH2F	PHD5	PHEN2F	PHEND14
MB-64791-SVOC	64.1	70.9	67.3	91.4	58.3	66.0	71.4	114
LCS-64791-SVOC	85.9	92.4	93.5	121	76.1	87.9	102	121
12090166-011A	50.2	43.2	55.4	84.1	41.1	58.6	78.8	112
12090216-003BMS	69.0	74.5	75.6	107	60.4	71.4	83.3	104
12090216-003BMSD	64.0	67.4	68.3	108	56.2	66.7	79.3	105
12090166-007A	74.8	74.2	72.3	115	69.6	78.1	95.5	104
12090166-008A	86.0	91.4	89.6	132 *	80.2	92.0	132 *	124
12090166-009A	61.3	46.6	60.4	131 *	47.2	78.1	134 *	155 *
12090166-010A	66.8	65.1	67.2	122	58.6	68.8	91.0	110

Acronym	Surrogate	QC Limits
CLPH2D4	= 2-Chlorophenol-d4	20-130
DCBZ12D4	= 1,2-Dichlorobenzene-d4	20-130
NO2BZD5	= Nitrobenzene-d5	23-120
PH246BR	= 2,4,6-Tribromophenol	19-122
PH2F	= 2-Fluorophenol	25-121
PHD5	= Phenol-d5	24-113
PHEN2F	= 2-Fluorobiphenyl	30-115
PHEND14	= 4-Terphenyl-d14	18-137

* Surrogate recovery outside acceptance limit

Prep Start Date: **9/12/2012 12:58:02**

Prep End Date:

Prep Factor Units:

 Prep Batch **64791**

 Prep Code: **3550_SVOC**

 Technician: **FAC**

mL / Kg

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-64791-SVOC			0.03	0	0	1	33.333	9/12/2012	9/12/2012
LCS-64791-SVOC			0.03	0	0	1	33.333	9/12/2012	9/12/2012
12090162-001B	Soil		0.0303	0	0	1	33.003	9/12/2012	9/12/2012
12090162-002B	Soil		0.0302	0	0	1	33.113	9/12/2012	9/12/2012
12090166-007A	Soil		0.03052	0	0	1	32.765	9/12/2012	9/12/2012
12090166-008A	Soil		0.03022	0	0	10	330.907	9/12/2012	9/12/2012
12090166-009A	Soil		0.03025	0	0	10	330.579	9/12/2012	9/12/2012
12090166-010A	Soil		0.03014	0	0	1	33.179	9/12/2012	9/12/2012
12090166-011A	Soil		0.0302	0	0	10	331.126	9/12/2012	9/12/2012
12090202-001B	Soil		0.0302	0	0	10	331.126	9/12/2012	9/12/2012
12090202-002B	Soil		0.03028	0	0	1	33.025	9/12/2012	9/12/2012
12090202-003B	Soil		0.03036	0	0	1	32.938	9/12/2012	9/12/2012
12090202-004B	Soil		0.03047	0	0	1	32.819	9/12/2012	9/12/2012
12090216-001B	Soil		0.03062	0	0	1	32.658	9/12/2012	9/12/2012
12090216-002B	Soil		0.03023	0	0	1	33.080	9/12/2012	9/12/2012
12090216-003B	Soil		0.0303	0	0	1	33.003	9/12/2012	9/12/2012
12090216-003BMS	Soil		0.03029	0	0	1	33.014	9/12/2012	9/12/2012
12090216-003BMSD	Soil		0.03027	0	0	1	33.036	9/12/2012	9/12/2012
12090216-004B	Soil		0.03015	0	0	1	33.167	9/12/2012	9/12/2012
12090216-005B	Soil		0.03037	0	0	1	32.927	9/12/2012	9/12/2012
12090335-001A	Soil		0.03045	0	0	1	32.841	9/13/2012	9/13/2012
12090360-001B	Soil		0.03017	0	0	1	33.146	9/13/2012	9/13/2012
12090360-003B	Soil		0.03062	0	0	1	32.658	9/13/2012	9/13/2012
12090404-004B	Soil		0.03035	0	0	1	32.949	9/13/2012	9/13/2012

CLIENT: Weston Solutions
Work Order: 12090166
Project: 20405.012.001.1974.00, Rowland Dump Fire Site

ANALYTICAL QC SUMMARY REPORT

BatchID: 64791

Sample ID: MB-64791-SVOC	SampType: MBLK	TestCode: SVOC_SOIL	Units: mg/Kg	Prep Date: 9/12/2012	Run ID: SVOC-5_120912A						
Client ID: ZZZZ	Batch ID: 64791	TestNo: SW8270C		Analysis Date: 9/12/2012	SeqNo: 2239844						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.033									
Acenaphthylene	ND	0.033									
Aniline	ND	0.33									
Anthracene	ND	0.033									
Benz(a)anthracene	ND	0.033									
Benzidine	ND	0.33									
Benzo(a)pyrene	ND	0.033									
Benzo(b)fluoranthene	ND	0.033									
Benzo(g,h,i)perylene	ND	0.033									
Benzo(k)fluoranthene	ND	0.033									
Benzoic acid	ND	0.83									
Benzyl alcohol	ND	0.17									
Bis(2-chloroethoxy)methane	ND	0.17									
Bis(2-chloroethyl)ether	ND	0.17									
Bis(2-ethylhexyl)phthalate	ND	0.83									
4-Bromophenyl phenyl ether	ND	0.17									
Butyl benzyl phthalate	ND	0.17									
Carbazole	ND	0.17									
4-Chloroaniline	ND	0.17									
4-Chloro-3-methylphenol	ND	0.33									
2-Chloronaphthalene	ND	0.17									
2-Chlorophenol	ND	0.17									
4-Chlorophenyl phenyl ether	ND	0.17									
Chrysene	ND	0.033									
Dibenz(a,h)anthracene	ND	0.033									
Dibenzofuran	ND	0.17									
1,2-Dichlorobenzene	ND	0.17									
1,3-Dichlorobenzene	ND	0.17									
1,4-Dichlorobenzene	ND	0.17									
3,3'-Dichlorobenzidine	ND	0.17									

Qualifiers: ND - Not Detected at the Reporting Limit
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CLIENT: Weston Solutions
Work Order: 12090166
Project: 20405.012.001.1974.00, Rowland Dump Fire Site

ANALYTICAL QC SUMMARY REPORT

BatchID: 64791

Sample ID: MB-64791-SVOC	SampType: MBLK	TestCode: SVOC_SOIL	Units: mg/Kg	Prep Date: 9/12/2012	Run ID: SVOC-5_120912A						
Client ID: ZZZZ	Batch ID: 64791	TestNo: SW8270C		Analysis Date: 9/12/2012	SeqNo: 2239844						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dichlorophenol	ND	0.17									
Diethyl phthalate	ND	0.17									
2,4-Dimethylphenol	ND	0.17									
Dimethyl phthalate	ND	0.17									
4,6-Dinitro-2-methylphenol	ND	0.33									
2,4-Dinitrophenol	ND	0.83									
2,4-Dinitrotoluene	ND	0.033									
2,6-Dinitrotoluene	ND	0.033									
Di-n-butyl phthalate	ND	0.17									
Di-n-octyl phthalate	ND	0.17									
Fluoranthene	ND	0.033									
Fluorene	ND	0.033									
Hexachlorobenzene	ND	0.17									
Hexachlorobutadiene	ND	0.17									
Hexachlorocyclopentadiene	ND	0.17									
Hexachloroethane	ND	0.17									
Indeno(1,2,3-cd)pyrene	ND	0.033									
Isophorone	ND	0.17									
2-Methylnaphthalene	ND	0.17									
2-Methylphenol	ND	0.17									
4-Methylphenol	ND	0.17									
Naphthalene	ND	0.033									
2-Nitroaniline	ND	0.17									
3-Nitroaniline	ND	0.17									
4-Nitroaniline	ND	0.17									
2-Nitrophenol	ND	0.17									
4-Nitrophenol	ND	0.33									
Nitrobenzene	ND	0.033									
N-Nitrosodi-n-propylamine	ND	0.033									
N-Nitrosodimethylamine	ND	0.17									
N-Nitrosodiphenylamine	ND	0.033									

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
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	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

CLIENT: Weston Solutions
Work Order: 12090166
Project: 20405.012.001.1974.00, Rowland Dump Fire Site

ANALYTICAL QC SUMMARY REPORT

BatchID: 64791

Sample ID: MB-64791-SVOC	SampType: MBLK	TestCode: SVOC_SOIL	Units: mg/Kg	Prep Date: 9/12/2012	Run ID: SVOC-5_120912A						
Client ID: ZZZZ	Batch ID: 64791	TestNo: SW8270C		Analysis Date: 9/12/2012	SeqNo: 2239844						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

2, 2'-oxybis(1-Chloropropane)
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pyridine
1,2,4-Trichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol

ND
ND
ND
ND
ND
ND
ND
ND
ND

0.17
0.033
0.033
0.17
0.033
0.67
0.17
0.17
0.17

Sample ID: LCS-64791-SVOC	SampType: LCS	TestCode: SVOC_SOIL	Units: mg/Kg	Prep Date: 9/12/2012	Run ID: SVOC-5_120912A						
Client ID: ZZZZ	Batch ID: 64791	TestNo: SW8270C		Analysis Date: 9/12/2012	SeqNo: 2239886						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene
4-Chloro-3-methylphenol
2-Chlorophenol
1,4-Dichlorobenzene
2,4-Dinitrotoluene
4-Nitrophenol
N-Nitrosodi-n-propylamine
Pentachlorophenol
Phenol
Pyrene
1,2,4-Trichlorobenzene

1.614
3.295
2.88
1.449
1.769
3.942
1.36
4.194
2.791
1.772
1.497

0.033
0.33
0.17
0.17
0.033
0.33
0.033
0.033
0.17
0.033
0.17

1.667
3.333
3.333
1.667
1.667
3.333
1.667
3.333
3.333
1.667
1.667

0
0
0
0
0
0
0
0
0
0

96.8
98.9
86.4
86.9
106
118
81.6
126
83.7
106
89.8

37
29
29
26
46
12
29
10
27
42
55

134
134
105
111
125
146
109
192
104
148
106

0
0
0
0
0
0
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0
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0

E

Sample ID: 12090216-003BMS	SampType: MS	TestCode: SVOC_SOIL	Units: mg/Kg-dry	Prep Date: 9/12/2012	Run ID: SVOC-5_120912A						
Client ID: ZZZZ	Batch ID: 64791	TestNo: SW8270C		Analysis Date: 9/12/2012	SeqNo: 2239980						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene

1.565

0.039

1.949

0

80.3

24

139

0

0

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H/HT - Holding Time Exceeded

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E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 12090166
Project: 20405.012.001.1974.00, Rowland Dump Fire Site

ANALYTICAL QC SUMMARY REPORT

BatchID: 64791

Sample ID: 12090216-003BMS	SampType: MS	TestCode: SVOC_SOIL	Units: mg/Kg-dry	Prep Date: 9/12/2012	Run ID: SVOC-5_120912A						
Client ID: ZZZZ	Batch ID: 64791	TestNo: SW8270C		Analysis Date: 9/12/2012	SeqNo: 2239980						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

4-Chloro-3-methylphenol	3.225	0.39	3.897	0	82.7	28	121	0	0		
2-Chlorophenol	2.708	0.20	3.897	0	69.5	21	102	0	0		
1,4-Dichlorobenzene	1.303	0.20	1.949	0	66.8	27	95	0	0		
2,4-Dinitrotoluene	1.692	0.039	1.949	0	86.8	32	127	0	0		
4-Nitrophenol	3.881	0.39	3.897	0	99.6	10	156	0	0		
N-Nitrosodi-n-propylamine	1.247	0.039	1.949	0	63.9	16	122	0	0		
Pentachlorophenol	4.199	0.039	3.897	0	108	10	204	0	0		
Phenol	2.631	0.20	3.897	0	67.5	20	103	0	0		
Pyrene	1.792	0.039	1.949	0.07559	88	10	184	0	0		
1,2,4-Trichlorobenzene	1.422	0.20	1.949	0	73	55	106	0	0		

Sample ID: 12090216-003BMSD	SampType: MSD	TestCode: SVOC_SOIL	Units: mg/Kg-dry	Prep Date: 9/12/2012	Run ID: SVOC-5_120912A						
Client ID: ZZZZ	Batch ID: 64791	TestNo: SW8270C		Analysis Date: 9/12/2012	SeqNo: 2239981						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	1.504	0.039	1.951	0	77.1	24	139	1.565	4.02	57	
4-Chloro-3-methylphenol	3.152	0.39	3.9	0	80.8	28	121	3.225	2.29	88	
2-Chlorophenol	2.507	0.20	3.9	0	64.3	21	102	2.708	7.71	49	
1,4-Dichlorobenzene	1.21	0.20	1.951	0	62	27	95	1.303	7.38	43	
2,4-Dinitrotoluene	1.696	0.039	1.951	0	86.9	32	127	1.692	0.227	37	
4-Nitrophenol	3.957	0.39	3.9	0	101	10	156	3.881	1.92	56	
N-Nitrosodi-n-propylamine	1.144	0.039	1.951	0	58.7	16	122	1.247	8.54	47	
Pentachlorophenol	4.269	0.039	3.9	0	109	10	204	4.199	1.66	47	
Phenol	2.421	0.20	3.9	0	62.1	20	103	2.631	8.28	66	
Pyrene	1.83	0.039	1.951	0.07559	89.9	10	184	1.792	2.09	51	
1,2,4-Trichlorobenzene	1.276	0.20	1.951	0	65.4	55	106	1.422	10.8	23	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits E - Value above quantitation range
* - Non Accredited Parameter H/HT - Holding Time Exceeded

Prep Start Date: **9/7/2012 12:10:00 P**

 Prep End Date: **9/7/2012 1:00:00 PM**

Prep Factor Units:

 Prep Batch **64698** Prep Code: **M_HG_S_PRE** Technician: **RW**

mL / g

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
HGMBS1 9/7/12			0.309	0	0	30	97.087	9/7/2012	9/7/2012
HGLCSS1 9/7/12			0.3	0	0	30	100.000	9/7/2012	9/7/2012
12080760-003A	Soil		0.337	0	0	30	89.021	9/7/2012	9/7/2012
12080760-004A	Soil		0.335	0	0	30	89.552	9/7/2012	9/7/2012
12080760-006B	Soil		0.304	0	0	30	98.684	9/7/2012	9/7/2012
12080760-006BMS	Soil		0.304	0	0	30	98.684	9/7/2012	9/7/2012
12080760-006BMSD	Soil		0.305	0	0	30	98.361	9/7/2012	9/7/2012
12080760-008B	Soil		0.355	0	0	30	84.507	9/7/2012	9/7/2012
12081075-001B	Soil		0.348	0	0	30	86.207	9/7/2012	9/7/2012
12081075-006B	Soil		0.315	0	0	30	95.238	9/7/2012	9/7/2012
12090005-001A	Soil		0.302	0	0	30	99.338	9/7/2012	9/7/2012
12090005-002A	Soil		0.342	0	0	30	87.719	9/7/2012	9/7/2012
12090005-003A	Soil		0.308	0	0	30	97.403	9/7/2012	9/7/2012
12090005-004A	Soil		0.337	0	0	30	89.021	9/7/2012	9/7/2012
12090041-001B	Soil		0.36	0	0	30	83.333	9/7/2012	9/7/2012
12090041-002B	Soil		0.324	0	0	30	92.593	9/7/2012	9/7/2012
12090041-003B	Soil		0.33	0	0	30	90.909	9/7/2012	9/7/2012
12090041-004B	Soil		0.357	0	0	30	84.034	9/7/2012	9/7/2012
12090041-005B	Soil		0.327	0	0	30	91.743	9/7/2012	9/7/2012
12090166-007A	Soil		0.315	0	0	30	95.238	9/7/2012	9/7/2012
12090166-008A	Soil		0.348	0	0	30	86.207	9/7/2012	9/7/2012
12090166-009A	Soil		0.348	0	0	30	86.207	9/7/2012	9/7/2012
12090166-010A	Soil		0.301	0	0	30	99.668	9/7/2012	9/7/2012
12090166-011A	Soil		0.312	0	0	30	96.154	9/7/2012	9/7/2012

CLIENT: Weston Solutions
Work Order: 12090166
Project: 20405.012.001.1974.00, Rowland Dump Fire Site

ANALYTICAL QC SUMMARY REPORT

BatchID: 64698

Sample ID: HGMBS1 9/7/12	SampType: MBLK	TestCode: M_HG_SOLI	Units: mg/Kg	Prep Date: 9/7/2012	Run ID: CETAC_120907C						
Client ID: ZZZZ	Batch ID: 64698	TestNo: SW7471A		Analysis Date: 9/7/2012	SeqNo: 2235415						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.019

Sample ID: HGLCSS1 9/7/12	SampType: LCS	TestCode: M_HG_SOLI	Units: mg/Kg	Prep Date: 9/7/2012	Run ID: CETAC_120907C						
Client ID: ZZZZ	Batch ID: 64698	TestNo: SW7471A		Analysis Date: 9/7/2012	SeqNo: 2235416						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.253 0.020 0.25 0 101 80 120 0 0

Sample ID: 12080760-006BMS	SampType: MS	TestCode: M_HG_SOLI	Units: mg/Kg-dry	Prep Date: 9/7/2012	Run ID: CETAC_120907C						
Client ID: ZZZZ	Batch ID: 64698	TestNo: SW7471A		Analysis Date: 9/7/2012	SeqNo: 2235424						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.2588 0.020 0.2508 0.008026 100 75 125 0 0

Sample ID: 12080760-006BMSD	SampType: MSD	TestCode: M_HG_SOLI	Units: mg/Kg-dry	Prep Date: 9/7/2012	Run ID: CETAC_120907C						
Client ID: ZZZZ	Batch ID: 64698	TestNo: SW7471A		Analysis Date: 9/7/2012	SeqNo: 2235427						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.262 0.020 0.25 0.008026 102 75 125 0.2588 1.21 20

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* - Non Accredited Parameter H/HT - Holding Time Exceeded

Prep Start Date: **9/12/2012 9:20:00 A**

 Prep End Date: **9/12/2012 12:30:00**

Prep Factor Units:

 Prep Batch **64779**

 Prep Code: **M_S_PREP**

 Technician: **MDDT**

mL / g

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
IMBS2 9/12/12			1	0	0	50	50.000	9/12/2012	9/12/2012
ILCSS2 9/12/12			1	0	0	50	50.000	9/12/2012	9/12/2012
12090160-001B	Soil		1.102	0	0	50	45.372	9/12/2012	9/12/2012
12090160-002B	Soil		1.171	0	0	50	42.699	9/12/2012	9/12/2012
12090160-003B	Soil		1.004	0	0	50	49.801	9/12/2012	9/12/2012
12090160-004B	Soil		0.995	0	0	50	50.251	9/12/2012	9/12/2012
12090160-005B	Soil		1.189	0	0	50	42.052	9/12/2012	9/12/2012
12090161-001B	Soil		0.949	0	0	50	52.687	9/12/2012	9/12/2012
12090161-002B	Soil		0.985	0	0	50	50.761	9/12/2012	9/12/2012
12090161-002BMS	Soil		0.982	0	0	50	50.916	9/12/2012	9/12/2012
12090161-002BMSD	Soil		0.984	0	0	50	50.813	9/12/2012	9/12/2012
12090161-003B	Soil		0.923	0	0	50	54.171	9/12/2012	9/12/2012
12090162-001B	Soil		1.199	0	0	50	41.701	9/12/2012	9/12/2012
12090162-002B	Soil		1.058	0	0	50	47.259	9/12/2012	9/12/2012
12090166-007A	Soil		0.906	0	0	50	55.188	9/12/2012	9/12/2012
12090166-008A	Soil		1	0	0	50	50.000	9/12/2012	9/12/2012
12090166-009A	Soil		0.962	0	0	50	51.975	9/12/2012	9/12/2012
12090166-010A	Soil		1.123	0	0	50	44.524	9/12/2012	9/12/2012
12090166-011A	Soil		1	0	0	50	50.000	9/12/2012	9/12/2012
12090202-001B	Soil		0.96	0	0	50	52.083	9/12/2012	9/12/2012
12090202-002B	Soil		1.014	0	0	50	49.310	9/12/2012	9/12/2012
12090202-003B	Soil		1.088	0	0	50	45.956	9/12/2012	9/12/2012
12090202-004B	Soil		0.984	0	0	50	50.813	9/12/2012	9/12/2012

CLIENT: Weston Solutions
Work Order: 12090166
Project: 20405.012.001.1974.00, Rowland Dump Fire Site

ANALYTICAL QC SUMMARY REPORT

BatchID: 64779

Sample ID: IMBS2 9/12/12	SampType: MBLK	TestCode: M_ICPMS_S	Units: mg/Kg	Prep Date: 9/12/2012	Run ID: ICPMS-2_120912B						
Client ID: ZZZZ	Batch ID: 64779	TestNo: SW6020		Analysis Date: 9/12/2012	SeqNo: 2239284						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	ND	10									
Antimony	0.4605	1.0									J
Arsenic	ND	0.50									
Barium	ND	0.50									
Beryllium	0.05618	0.25									J
Cadmium	ND	0.25									
Calcium	ND	30									
Chromium	0.1053	0.50									J
Cobalt	ND	0.50									
Copper	ND	1.2									
Iron	ND	15									
Lead	ND	0.25									
Magnesium	ND	15									
Manganese	ND	0.50									
Nickel	ND	0.50									
Potassium	ND	15									
Selenium	ND	0.50									
Silver	0.1086	0.50									J
Sodium	ND	30									
Thallium	0.05755	0.50									J
Vanadium	ND	0.50									
Zinc	ND	2.5									

Sample ID: ILCSS2 9/12/12	SampType: LCS	TestCode: M_ICPMS_S	Units: mg/Kg	Prep Date: 9/12/2012	Run ID: ICPMS-2_120912B						
Client ID: ZZZZ	Batch ID: 64779	TestNo: SW6020		Analysis Date: 9/12/2012	SeqNo: 2239285						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	25.45	10	25	0	102	80	120	0	0		
Arsenic	25.72	0.50	25	0	103	80	120	0	0		
Barium	26.88	0.50	25	0	108	80	120	0	0		
Beryllium	24.74	0.25	25	0.05618	98.7	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
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* - Non Accredited Parameter H/HT - Holding Time Exceeded

CLIENT: Weston Solutions
Work Order: 12090166
Project: 20405.012.001.1974.00, Rowland Dump Fire Site

ANALYTICAL QC SUMMARY REPORT

BatchID: 64779

Sample ID: ILCSS2 9/12/12	SampType: LCS	TestCode: M_ICPMS_S	Units: mg/Kg	Prep Date: 9/12/2012	Run ID: ICPMS-2_120912B						
Client ID: ZZZZ	Batch ID: 64779	TestNo: SW6020		Analysis Date: 9/12/2012	SeqNo: 2239285						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	26.58	0.25	25	0	106	80	120	0	0		
Calcium	98.92	30	100	0	98.9	80	120	0	0		
Chromium	25.8	0.50	25	0.1053	103	80	120	0	0		
Cobalt	24.74	0.50	25	0	99	80	120	0	0		
Copper	25.85	1.2	25	0	103	80	120	0	0		
Iron	98.28	15	100	0	98.3	80	120	0	0		
Lead	26.72	0.25	25	0	107	80	120	0	0		
Magnesium	102.4	15	100	0	102	80	120	0	0		
Manganese	26.32	0.50	25	0	105	80	120	0	0		
Nickel	26.08	0.50	25	0	104	80	120	0	0		
Potassium	103	15	100	0	103	80	120	0	0		
Selenium	24.58	0.50	25	0	98.3	80	120	0	0		
Silver	10.96	0.50	10	0.1086	108	80	120	0	0		
Thallium	26.02	0.50	25	0.05755	104	80	120	0	0		
Vanadium	25.98	0.50	25	0	104	80	120	0	0		
Zinc	24.32	2.5	25	0	97.3	80	120	0	0		

Sample ID: ILCSS2 9/12/12	SampType: LCS	TestCode: M_ICPMS_S	Units: mg/Kg	Prep Date: 9/12/2012	Run ID: ICPMS-2_120913A						
Client ID: ZZZZ	Batch ID: 64779	TestNo: SW6020		Analysis Date: 9/13/2012	SeqNo: 2240330						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	15.5	2.0	12.5	0.4605	120	80	120	0	0		S
Sodium	111	60	100	0	111	80	120	0	0		

Sample ID: 12090161-002BMS	SampType: MS	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 9/12/2012	Run ID: ICPMS-2_120912B						
Client ID: ZZZZ	Batch ID: 64779	TestNo: SW6020		Analysis Date: 9/12/2012	SeqNo: 2239295						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10600	230	28.7	10270	1130	75	125	0	0		S
Calcium	60850	690	114.8	58320	2210	75	125	0	0		S
Iron	29000	340	114.8	28950	42	75	125	0	0		S

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

CLIENT: Weston Solutions
Work Order: 12090166
Project: 20405.012.001.1974.00, Rowland Dump Fire Site

ANALYTICAL QC SUMMARY REPORT

BatchID: 64779

Sample ID: 12090161-002BMS	SampType: MS	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 9/12/2012	Run ID: ICPMS-2_120912B						
Client ID: ZZZZ	Batch ID: 64779	TestNo: SW6020		Analysis Date: 9/12/2012	SeqNo: 2239295						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Magnesium	27740	340	114.8	26110	1410	75	125	0	0		S
Manganese	794.5	11	28.7	778.9	54.3	75	125	0	0		S
Zinc	91.56	57	28.7	56.98	120	75	125	0	0		

Sample ID: 12090161-002BMS	SampType: MS	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 9/12/2012	Run ID: ICPMS-2_120912B						
Client ID: ZZZZ	Batch ID: 64779	TestNo: SW6020		Analysis Date: 9/12/2012	SeqNo: 2239326						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	40.91	1.1	28.7	11.96	101	75	125	0	0		
Barium	89.95	1.1	28.7	56.87	115	75	125	0	0		
Beryllium	29.53	0.57	28.7	0.7686	100	75	125	0	0		
Cadmium	30.15	0.57	28.7	0.2449	104	75	125	0	0		
Chromium	43.75	1.1	28.7	16.89	93.6	75	125	0	0		
Cobalt	40.71	1.1	28.7	14.99	89.6	75	125	0	0		
Copper	54.54	2.9	28.7	27.09	95.6	75	125	0	0		
Lead	59.3	0.57	28.7	25.55	118	75	125	0	0		
Nickel	61.31	1.1	28.7	34.79	92.4	75	125	0	0		
Potassium	2280	34	114.8	2079	175	75	125	0	0		S
Selenium	27.66	1.1	28.7	0	96.4	75	125	0	0		
Silver	12.08	1.1	11.48	0.3039	103	75	125	0	0		
Sodium	285.4	69	114.8	169.2	101	75	125	0	0		
Thallium	28.78	1.1	28.7	0.7663	97.6	75	125	0	0		
Vanadium	46.59	1.1	28.7	19.65	93.9	75	125	0	0		
Zinc	82.37	5.7	28.7	54.42	97.4	75	125	0	0		

Sample ID: 12090161-002BMS	SampType: MS	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 9/12/2012	Run ID: ICPMS-2_120913A						
Client ID: ZZZZ	Batch ID: 64779	TestNo: SW6020		Analysis Date: 9/13/2012	SeqNo: 2240048						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	3.177	2.3	14.35	0	22.1	75	125	0	0		S
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Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits E - Value above quantitation range
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CLIENT: Weston Solutions
Work Order: 12090166
Project: 20405.012.001.1974.00, Rowland Dump Fire Site

ANALYTICAL QC SUMMARY REPORT

BatchID: 64779

Sample ID: 12090161-002BMSD	SampType: MSD	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 9/12/2012	Run ID: ICPMS-2_120912B						
Client ID: ZZZZ	Batch ID: 64779	TestNo: SW6020		Analysis Date: 9/12/2012	SeqNo: 2239296						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10860	230	28.64	10270	2040	75	125	10600	2.42	20	S
Calcium	57460	690	114.6	58320	-748	75	125	60850	5.73	20	S
Iron	28390	340	114.6	28950	-494	75	125	29000	2.14	20	S
Magnesium	26280	340	114.6	26110	143	75	125	27740	5.41	20	S
Manganese	790.6	11	28.64	778.9	40.8	75	125	794.5	0.493	20	S
Zinc	86.27	57	28.64	56.98	102	75	125	91.56	5.94	20	

Sample ID: 12090161-002BMSD	SampType: MSD	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 9/12/2012	Run ID: ICPMS-2_120912B						
Client ID: ZZZZ	Batch ID: 64779	TestNo: SW6020		Analysis Date: 9/12/2012	SeqNo: 2239327						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	40.91	1.1	28.64	11.96	101	75	125	40.91	0.00682	20	
Barium	90	1.1	28.64	56.87	116	75	125	89.95	0.0515	20	
Beryllium	29.62	0.57	28.64	0.7686	101	75	125	29.53	0.301	20	
Cadmium	30.89	0.57	28.64	0.2449	107	75	125	30.15	2.43	20	
Chromium	44.35	1.1	28.64	16.89	95.9	75	125	43.75	1.36	20	
Cobalt	41.56	1.1	28.64	14.99	92.8	75	125	40.71	2.07	20	
Copper	53.79	2.9	28.64	27.09	93.2	75	125	54.54	1.39	20	
Lead	59.69	0.57	28.64	25.55	119	75	125	59.3	0.664	20	
Nickel	62.27	1.1	28.64	34.79	95.9	75	125	61.31	1.56	20	
Potassium	2347	34	114.6	2079	234	75	125	2280	2.89	20	S
Selenium	28.33	1.1	28.64	0	98.9	75	125	27.66	2.38	20	
Silver	12.22	1.1	11.46	0.3039	104	75	125	12.08	1.21	20	
Sodium	287.8	69	114.6	169.2	104	75	125	285.4	0.837	20	
Thallium	29.63	1.1	28.64	0.7663	101	75	125	28.78	2.92	20	
Vanadium	44.98	1.1	28.64	19.65	88.4	75	125	46.59	3.51	20	
Zinc	81.98	5.7	28.64	54.42	96.2	75	125	82.37	0.483	20	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

CLIENT: Weston Solutions
Work Order: 12090166
Project: 20405.012.001.1974.00, Rowland Dump Fire Site

ANALYTICAL QC SUMMARY REPORT

BatchID: 64779

Sample ID: 12090161-002BMSD	SampType: MSD	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 9/12/2012	Run ID: ICPMS-2_120913A						
Client ID: ZZZZ	Batch ID: 64779	TestNo: SW6020		Analysis Date: 9/13/2012	SeqNo: 2240049						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	2.835	2.3	14.32	0	19.8	75	125	3.177	11.4	20	S

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

Prep Start Date: **9/8/2012 7:00:00 AM**

 Prep End Date: **9/8/2012 8:45:00 AM**

Prep Factor Units:

 Prep Batch **64717** Prep Code: **TCNPREP_S** Technician: **YZ**

mL / g

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
TCNMBS1 090812			1	0	0	50	50.000	9/8/2012	9/8/2012
TCNLCSS1 090812			1	0	0	50	50.000	9/8/2012	9/8/2012
12090160-001B	Soil		1	0	0	50	50.000	9/8/2012	9/8/2012
12090160-002B	Soil		1	0	0	50	50.000	9/8/2012	9/8/2012
12090160-003B	Soil		1	0	0	50	50.000	9/8/2012	9/8/2012
12090160-004B	Soil		1	0	0	50	50.000	9/8/2012	9/8/2012
12090160-005B	Soil		1	0	0	50	50.000	9/8/2012	9/8/2012
12090161-001B	Soil		1	0	0	50	50.000	9/8/2012	9/8/2012
12090161-002B	Soil		1	0	0	50	50.000	9/8/2012	9/8/2012
12090161-003B	Soil		1	0	0	50	50.000	9/8/2012	9/8/2012
12090162-001B	Soil		1	0	0	50	50.000	9/8/2012	9/8/2012
12090162-002B	Soil		1	0	0	50	50.000	9/8/2012	9/8/2012
12090166-007A	Soil		1	0	0	50	50.000	9/8/2012	9/8/2012
12090166-008A	Soil		1	0	0	50	50.000	9/8/2012	9/8/2012
12090166-009A	Soil		1	0	0	50	50.000	9/8/2012	9/8/2012
12090166-010A	Soil		1	0	0	50	50.000	9/8/2012	9/8/2012
12090166-011A	Soil		1	0	0	50	50.000	9/8/2012	9/8/2012
12090229-001B	Soil		1	0	0	50	50.000	9/8/2012	9/8/2012
12090229-002B	Soil		1	0	0	50	50.000	9/8/2012	9/8/2012
12090229-003B	Soil		1	0	0	50	50.000	9/8/2012	9/8/2012
12090229-004B	Soil		1	0	0	50	50.000	9/8/2012	9/8/2012
12090229-005B	Soil		1	0	0	50	50.000	9/8/2012	9/8/2012
12090160-001BMS	Soil		1	0	0	50	50.000	9/8/2012	9/8/2012
12090160-001BMSD	Soil		1	0	0	50	50.000	9/8/2012	9/8/2012

CLIENT: Weston Solutions
Work Order: 12090166
Project: 20405.012.001.1974.00, Rowland Dump Fire Site

ANALYTICAL QC SUMMARY REPORT

BatchID: 64717

Sample ID: TCNMBS1 090812	SampType: MBLK	TestCode: CN_TS	Units: mg/Kg	Prep Date: 9/8/2012	Run ID: LACHAT_120909A
Client ID: ZZZZ	Batch ID: 64717	TestNo: SW9012A		Analysis Date: 9/9/2012	SeqNo: 2236777
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Cyanide ND 0.25

Sample ID: TCNLCSS1 090812	SampType: LCS	TestCode: CN_TS	Units: mg/Kg	Prep Date: 9/8/2012	Run ID: LACHAT_120909A
Client ID: ZZZZ	Batch ID: 64717	TestNo: SW9012A		Analysis Date: 9/9/2012	SeqNo: 2236778
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Cyanide 9.378 0.25 10 0 93.8 90 110 0 0

Sample ID: 12090160-001BMS	SampType: MS	TestCode: CN_TS	Units: mg/Kg-dry	Prep Date: 9/8/2012	Run ID: LACHAT_120909A
Client ID: ZZZZ	Batch ID: 64717	TestNo: SW9012A		Analysis Date: 9/9/2012	SeqNo: 2236780
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Cyanide 11 0.30 11.93 0.1564 90.9 75 125 0 0

Sample ID: 12090160-001BMSD	SampType: MSD	TestCode: CN_TS	Units: mg/Kg-dry	Prep Date: 9/8/2012	Run ID: LACHAT_120909A
Client ID: ZZZZ	Batch ID: 64717	TestNo: SW9012A		Analysis Date: 9/9/2012	SeqNo: 2236781
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Cyanide 12.17 0.30 11.93 0.1564 101 75 125 11 10.1 20

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits E - Value above quantitation range
* - Non Accredited Parameter H/HT - Holding Time Exceeded

CLIENT: Weston Solutions
Work Order: 12090166
Project: 20405.012.001.1974.00, Rowland Dump Fire Site

ANALYTICAL QC SUMMARY REPORT

BatchID: R83186

Sample ID: PMMBK3 9/10/12	SampType: MBLK	TestCode: PMOIST	Units: wt%	Prep Date: 9/10/2012	Run ID: BALANCE_120910C
Client ID: ZZZZ	Batch ID: R83186	TestNo: D2974		Analysis Date: 9/11/2012	SeqNo: 2237584
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Percent Moisture	ND	0.200									*
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Sample ID: PMLCS-S3 9/10/12	SampType: LCS	TestCode: PMOIST	Units: wt%	Prep Date: 9/10/2012	Run ID: BALANCE_120910C
Client ID: ZZZZ	Batch ID: R83186	TestNo: D2974		Analysis Date: 9/11/2012	SeqNo: 2237585
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Percent Moisture	4.62	0.200	5	0	92.4	80	120	0	0		*
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Sample ID: PMLCS-W3 9/10/12	SampType: LCS	TestCode: PMOIST	Units: wt%	Prep Date: 9/10/2012	Run ID: BALANCE_120910C
Client ID: ZZZZ	Batch ID: R83186	TestNo: D2974		Analysis Date: 9/11/2012	SeqNo: 2237586
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Percent Moisture	99.81	0.200	99.8	0	100	80	120	0	0		*
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Sample ID: 12090171-064A DUP	SampType: DUP	TestCode: PMOIST	Units: wt%	Prep Date: 9/10/2012	Run ID: BALANCE_120910C
Client ID: ZZZZ	Batch ID: R83186	TestNo: D2974		Analysis Date: 9/11/2012	SeqNo: 2237588
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Percent Moisture	20.31	0.200	0	0	0	0	0	20.55	1.17	20	*
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 12090166
Project: 20405.012.001.1974.00, Rowland Dump Fire Site

ANALYTICAL QC SUMMARY REPORT

BatchID: R83239

Sample ID: 12090160-001B DUP	SampType: DUP	TestCode: PH_S	Units: pH Units	Prep Date: 9/12/2012	Run ID: PH_120912A						
Client ID: ZZZZ	Batch ID: R83239	TestNo: SW9045C		Analysis Date: 9/12/2012	SeqNo: 2239023						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.43	0	0	0	0	0	0	8.43	0	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

**ROLAND DUMP FIRE
GARY, INDIANA
DATA VALIDATION REPORT**

Date: October 1, 2012

Laboratory: STAT Analysis Corporation

Laboratory Project #: 12090166

Data Validation Performed By: Tonya Balla, Weston Solutions, Inc.

Weston Work Order # 20405.012.001. 1974.00/20405.016.001/1975.00

This data validation report has been prepared by WESTON. This report documents the data validation for 11 soil samples collected for the Roland Dump Site that were analyzed for the following parameters and U.S. Environmental Protection Agency (U.S. EPA) methods:

- Volatile Organic Compounds by SW-846 8260B
- Polycyclic aromatic hydrocarbons by SW-846 8270C SIM

A level II data package was requested from STAT. The data validation was conducted in general accordance with the "Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review" dated January 2010 and Superfund Organic methods Data Review dated June 2008.

VOCs by SW-846 METHODS 8260B

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID 12090166	Matrix	Date Collected	Date Analyzed
GAF-OA1-090612	001	Air	9/6/12	9/7/12
GAF-OA2-090612	002	Air	9/6/12	9/7/12
GAF-OA3-090612	003	Air	9/6/12	9/7/12
GAF-OA4-090612	004	Air	9/6/12	9/7/12
GAF-OA5-090612	005	Air	9/6/12	9/7/12
GAF-OA6-090612	006	Air	9/6/12	9/7/12
GAF-S1-090612	007	Soil	9/6/12	
GAF-S2-090612	008	Soil	9/6/12	
GAF-S2-090612-DP	009	Soil	9/6/12	
GAF-S3-090612	010	Soil	9/6/12	
GAF-S4-090612	011	Soil	9/6/12	

2. **Holding Times**

The samples were analyzed within the required holding time limit.

3. **Blank Results**

Method blanks were analyzed. MB090612-6 contained tetrahydrofuran below the reporting limit at 0.03. MBC090512 contained 1,2,4-trichlorobenzene (0.02), benzene (0.08), ethylbenzene (0.02), m,p-xylene (0.05), styrene (0.02), tetrahydrofuran (0.04), xylene, total (0.06) all below the reporting limits.

4. **LCS Results**

The LCS recoveries were within control limits.

5. **MS and MSD Results**

A MS/MSD was not presented with this sample set.

6. **Overall Assessment**

According to the laboratory narrative. TICs for each sample were flagged with a Z indicating an estimated conc and a * indicating a non-accredited parameter.

According to the laboratory narrative, results that are ug/m3 are calculated based on a temp of 25 degrees celcius, atmospheric pressure of 760 mm Hg, and the molecular weight of the analyte.

The VOC data are acceptable for use based on the information received.

SVOCs by SW-846 METHODS 8270C

1. **Samples**

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID 12090166	Matrix	Date Collected	Date Analyzed
GAF-S1-090612	007	Soil	9/6/12	9/12/12
GAF-S2-090612	008	Soil	9/6/12	9/12/12
GAF-S2-090612-DP	009	Soil	9/6/12	9/12/12
GAF-S3-090612	010	Soil	9/6/12	9/12/12
GAF-S4-090612	011	Soil	9/6/12	9/12/12

2. **Holding Times**

The samples were analyzed within the required holding time limit.

3. **Blank Results**

Method blanks were analyzed. The blanks were free of target analyte contamination above the reporting limits.

4. **LCS Results**

The LCS recoveries were within laboratory required control limits.

5. **MS and MSD Results**

A MS/MSD was presented for a sample from an alternate delivery group.

6. **Surrogate**

Sample 008 had 2 surrogates outside control limits. Sample 009 had three surrogates outside control limits. All surrogates were outside high. Positive results in samples 008 and 009 are flagged as estimated J.

7. **Overall Assessment**

The SVOC data are acceptable for use based on the information received.

Metals by SW-846 METHODS 8270C

1. **Samples**

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID 12090166	Matrix	Date Collected	Date Analyzed
GAF-S1-090612	007	Soil	9/6/12	9/7, 9/12, 9/13/12
GAF-S2-090612	008	Soil	9/6/12	9/7, 9/12, 9/13/12
GAF-S2-090612-DP	009	Soil	9/6/12	9/7, 9/12, 9/13/12
GAF-S3-090612	010	Soil	9/6/12	9/7, 9/12, 9/13/12
GAF-S4-090612	011	Soil	9/6/12	9/7, 9/12, 9/13/12

2. **Holding Times**

The samples were analyzed within the required holding time limit of 28 days for mercury and 180 days from sample collection to analysis for the remaining analytes.

3. **Blank Results**

Method blanks were analyzed with the metals and mercury analyses. IMBS9/12/12 contained sb (0.04605), be (0.05618), cr (0.1053), ag (0.1086), and th (0.05755) – all below the reporting limits.

4. **LCS Results**

The LCS recoveries were within the laboratory-established QC limits (80 – 120%) for target analytes.

5. **MS and MSD Results**

A MS/MSD was presented for a sample from an alternate delivery set..

6. **Field Duplicate**

A field duplicate pair was part of the sample set. The samples showed good overall correlation. No qualifications are required.

8. **Overall Assessment**

No qualifications were applied.

Overall, the metals data are acceptable for use based on the information received.

Cyanide by SW-846 METHODS 9012A

1. **Samples**

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID 12090166	Matrix	Date Collected	Date Analyzed
GAF-S1-090612	007	Soil	9/6/12	9/9/12
GAF-S2-090612	008	Soil	9/6/12	9/9/12
GAF-S2-090612-DP	009	Soil	9/6/12	9/9/12
GAF-S3-090612	010	Soil	9/6/12	9/9/12
GAF-S4-090612	011	Soil	9/6/12	9/9/12

2. **Holding Times**

The samples were analyzed within the required holding time limit of 14 days.

3. **Blank Results**

Method blanks were free of contamination.

4. **LCS Results**

The LCS recoveries were within the laboratory-established QC limits (90-110%) for target analytes.

5. **MS and MSD Results**

A MS/MSD was presented for a sample from an alternate delivery set..

6. **Field Duplicate**

A field duplicate pair was part of the sample set. The samples showed good overall correlation. No qualifications are required.

8. **Overall Assessment**

No qualifications were applied.

Overall, the cyanide data are acceptable for use based on the information received.