



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 345 (US Route 20) - South Junction Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

NE, SE & SW corner IL 47 & US 20/IL 72

City: Pingree Grove State: IL Zip Code: 60140

County: Kane Township: Rutland

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.08178 Longitude: -88.45548

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 345 (US Route 20) - South Junction

Latitude: 42.08178 Longitude: -88.45548

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 1467V-1-B09 THROUGH -B13 AND -B15 THROUGH 22 WERE SAMPLED ADJACENT TO ISGS SITE 1467V-1. SEE FIGURES 2 THROUGH 5 AND TABLE 3a OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEKLAB ANALYTICAL REPORT - WORK ORDER NO.: 13090001

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman

Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

7/8/14

Date:



Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 1467V-1
Agricultural Land**

Sample ID	1467V-1-B09-1	1467V-1-B09-2	1467V-1-B10-1	1467V-1-B10-2	1467V-1-B11-1	1467V-1-B11-2	1467V-1-B12-1	1	2	3	4	5	6
Sample Depth (ft)	0-7.5	7.5-15	0-5	5-10	0-5	5-10	0-7.5	Most Stringent MAC	Outside a Populated Area MAC	Populated non-Metropolitan Statistical Area MAC	Within Chicago Corporate Limits MAC	Metropolitan Statistical Area MAC	Class I Soil TCLP/SPLP Comparisons Only
Sample Date	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013						
PID	0	0	0	0	0	0	0						
Sample pH	8.74	8.63	8.7	8.53	8.13	8.24	8.46						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil						

No Contaminants of Concern Noted.

Sample ID	1467V-1-B12-2	1467V-1-B13-1	1467V-1-B13-1 DUP	1467V-1-B13-2	1467V-1-B15-1	1467V-1-B15-2	1467V-1-B16-1	1	2	3	4	5	6
Sample Depth (ft)	7.5-15	0-7.5	0-7.5	7.5-13	0-5	5-10	0-7.5	Most Stringent MAC	Outside a Populated Area MAC	Populated non-Metropolitan Statistical Area MAC	Within Chicago Corporate Limits MAC	Metropolitan Statistical Area MAC	Class I Soil TCLP/SPLP Comparisons Only
Sample Date	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013						
PID	0	0	0	0	0	0	0						
Sample pH	8.5	7.16	7.12	8.44	7.61	8.38	8.48						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil						

No Contaminants of Concern Noted.

Sample ID	1467V-1-B16-2	1467V-1-B17-1	1467V-1-B17-2	1467V-1-B18-1	1467V-1-B18-2	1467V-1-B19	1	2	3	4	5	6
Sample Depth (ft)	7.5-13	0-5	5-10	0-5	5-10	0-4	Most Stringent MAC	Outside a Populated Area MAC	Populated non-Metropolitan Statistical Area MAC	Within Chicago Corporate Limits MAC	Metropolitan Statistical Area MAC	Class I Soil TCLP/SPLP Comparisons Only
Sample Date	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013						
PID	0	0	0	0	0	0						
Sample pH	8.47	8.26	8.6	7.94	8.32	8.1						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil						

No Contaminants of Concern Noted.

Sample ID	1467V-1-B19 DUF	1467V-1-B20	1467V-1-B21-1	1467V-1-B21-2	1467V-1-B22-1	1467V-1-B22-2	1	2	3	4	5	6
Sample Depth (ft)	0-4	0-4	0-5	5-10	0-5	5-10	Most Stringent MAC	Outside a Populated Area MAC	Populated non-Metropolitan Statistical Area MAC	Within Chicago Corporate Limits MAC	Metropolitan Statistical Area MAC	Class I Soil TCLP/SPLP Comparisons Only
Sample Date	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/30/2013	8/30/2013						
PID	0	0	0	0	0	0						
Sample pH	7.83	8.09	8.18	8.22	7.35	8.43						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil						

No Contaminants of Concern Noted.

September 16, 2013

Colleen Grey
Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711-7233
TEL: (217) 787-2334
FAX: (217) 787-9495



RE: IDOT2013-018

WorkOrder: 13090001

Dear Colleen Grey:

TEKLAB, INC received 28 samples on 8/31/2013 1:20:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | X - Value exceeds Maximum Contaminant Level |

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-001

Client Sample ID: 1467V-1-B09-1

Matrix: SOLID

Collection Date: 08/29/2013 15:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1	R	8.8	%	1	09/03/2013 12:29	R181377
<i>RPD for DUP was outside of QC limit due to sample composition.</i>									
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		91.2	%	1	09/03/2013 12:29	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.74		1	09/03/2013 14:48	R181368
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.05	0.1		< 0.1	mg/L	1	09/11/2013 15:30	91780
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0606	mg/L	1	09/06/2013 11:53	91677
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 11:53	91677
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 11:53	91677
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 11:53	91677
Chromium	NELAP	0.004	0.01	J	0.0088	mg/L	1	09/06/2013 11:53	91677
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/06/2013 11:53	91677
Iron	NELAP	0.007	0.02	X	7.06	mg/L	1	09/06/2013 11:53	91677
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 11:53	91677
Manganese	NELAP	0.0016	0.005		0.0424	mg/L	1	09/06/2013 11:53	91677
Nickel	NELAP	0.0033	0.01	J	0.0061	mg/L	1	09/06/2013 11:53	91677
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 11:53	91677
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 11:53	91677
Zinc	NELAP	0.0021	0.01		0.0222	mg/L	1	09/06/2013 11:53	91677
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 18:44	91680
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 16:21	91680
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/06/2013 12:20	91686
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.45	4.9		12700	mg/Kg-dry	1	09/04/2013 18:12	91573
Antimony	NELAP	2.5	4.81		< 4.81	mg/Kg-dry	1	09/05/2013 22:48	91623
Arsenic	NELAP	1.23	2.45		9.39	mg/Kg-dry	1	09/04/2013 18:12	91573
Barium	NELAP	0.25	0.49		134	mg/Kg-dry	1	09/04/2013 18:12	91573
Beryllium	NELAP	0.05	0.1		0.69	mg/Kg-dry	1	09/04/2013 18:12	91573
Boron	NELAP	0.98	1.96		6.65	mg/Kg-dry	1	09/04/2013 18:12	91573
Cadmium	NELAP	0.1	0.2	J	0.12	mg/Kg-dry	1	09/04/2013 18:12	91573
Calcium	NELAP	2.45	4.9		17600	mg/Kg-dry	1	09/04/2013 18:12	91573
Chromium	NELAP	0.49	0.98	X	20.8	mg/Kg-dry	1	09/04/2013 18:12	91573
Cobalt	NELAP	0.49	0.98		8.19	mg/Kg-dry	1	09/04/2013 18:12	91573
Copper	NELAP	0.49	0.98		17.9	mg/Kg-dry	1	09/04/2013 18:12	91573
Iron	NELAP	0.98	1.96	X	21100	mg/Kg-dry	1	09/04/2013 18:12	91573
Lead	NELAP	1.96	3.92		11.2	mg/Kg-dry	1	09/04/2013 18:12	91573
Magnesium	NELAP	0.49	0.98	B	11500	mg/Kg-dry	1	09/04/2013 18:12	91573
Manganese	NELAP	0.25	0.49		609	mg/Kg-dry	1	09/04/2013 18:12	91573
Nickel	NELAP	0.49	0.98		26.6	mg/Kg-dry	1	09/04/2013 18:12	91573
Potassium	NELAP	4.9	9.8		1290	mg/Kg-dry	1	09/05/2013 17:38	91573
Silver	NELAP	0.49	0.54		< 0.54	mg/Kg-dry	1	09/04/2013 18:12	91573
Sodium	NELAP	2.45	4.9		1460	mg/Kg-dry	1	09/04/2013 18:12	91573

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-001

Client Sample ID: 1467V-1-B09-1

Matrix: SOLID

Collection Date: 08/29/2013 15:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.45	2.55		< 2.55	mg/Kg-dry	1	09/04/2013 18:12	91573
Vanadium	NELAP	0.49	0.98		36.4	mg/Kg-dry	1	09/04/2013 18:12	91573
Zinc	NELAP	0.49	0.98		41.2	mg/Kg-dry	1	09/04/2013 18:12	91573
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.35	0.6		< 0.6	mg/Kg-dry	1	09/09/2013 14:46	91588
SW-846 7471B									
Mercury	NELAP	0.003	0.011		0.024	mg/Kg-dry	1	09/04/2013 12:35	91563
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.145	0.547		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
1,2-Dichlorobenzene	NELAP	0.174	0.547		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
1,3-Dichlorobenzene	NELAP	0.184	0.547		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
1,4-Dichlorobenzene	NELAP	0.174	0.547		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
2,4,5-Trichlorophenol	NELAP	0.104	0.383		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
2,4,6-Trichlorophenol	NELAP	0.138	0.383		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
2,4-Dichlorophenol	NELAP	0.132	0.547		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
2,4-Dimethylphenol	NELAP	0.139	0.547		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
2,4-Dinitrophenol	NELAP	0.117	1.09		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
2,4-Dinitrotoluene	NELAP	0.114	0.383		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
2,6-Dinitrotoluene	NELAP	0.118	0.383		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
2-Chloronaphthalene	NELAP	0.131	0.383		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
2-Chlorophenol	NELAP	0.139	0.547		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
2-Methylnaphthalene	NELAP	0.13	0.383		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
2-Nitroaniline	NELAP	0.099	1.09		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
2-Nitrophenol	NELAP	0.122	0.383		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
3,3'-Dichlorobenzidine	NELAP	0.219	0.383		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
3-Nitroaniline	NELAP	0.09	1.09		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
4,6-Dinitro-2-methylphenol	NELAP	0.118	1.09		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
4-Bromophenyl phenyl ether	NELAP	0.101	0.383		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
4-Chloro-3-methylphenol	NELAP	0.12	0.547		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
4-Chloroaniline	NELAP	0.132	0.547		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
4-Chlorophenyl phenyl ether	NELAP	0.108	0.383		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
4-Nitroaniline	NELAP	0.099	0.547		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
4-Nitrophenol	NELAP	0.107	0.383		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Acenaphthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Acenaphthylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Benzo(a)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Benzo(a)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Benzo(b)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Benzo(g,h,i)perylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Benzo(k)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Bis(2-chloroethoxy)methane	NELAP	0.128	0.383		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Bis(2-chloroethyl)ether	NELAP	0.155	0.547		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Bis(2-chloroisopropyl)ether	NELAP	0.125	0.383		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Bis(2-ethylhexyl)phthalate	NELAP	0.128	0.383		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Butyl benzyl phthalate	NELAP	0.11	0.383		ND	mg/Kg-dry	1	09/07/2013 1:21	91555

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-001

Client Sample ID: 1467V-1-B09-1

Matrix: SOLID

Collection Date: 08/29/2013 15:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.133	0.547		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Chrysene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Dibenzo(a,h)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Dibenzofuran	NELAP	0.138	0.383		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Diethyl phthalate	NELAP	0.105	0.547		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Dimethyl phthalate	NELAP	0.099	0.383		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Di-n-butyl phthalate	NELAP	0.113	0.383		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Di-n-octyl phthalate	NELAP	0.114	0.383		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Fluorene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Hexachlorobenzene	NELAP	0.107	0.383		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Hexachlorobutadiene	NELAP	0.169	0.547		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Hexachlorocyclopentadiene	NELAP	0.112	0.383		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Hexachloroethane	NELAP	0.183	0.547		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Indeno(1,2,3-cd)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Isophorone	NELAP	0.129	0.383		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
m,p-Cresol	NELAP	0.138	0.547		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Naphthalene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Nitrobenzene	NELAP	0.137	0.547		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
N-Nitroso-di-n-propylamine	NELAP	0.12	0.547		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
N-Nitrosodiphenylamine	NELAP	0.101	0.547		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
o-Cresol	NELAP	0.129	0.547		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Pentachlorophenol	NELAP	0.722	2.19		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Phenanthrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Phenol	NELAP	0.127	0.383		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/07/2013 1:21	91555
Surr: 2,4,6-Tribromophenol		0	32.7-130		69.5	%REC	1	09/07/2013 1:21	91555
Surr: 2-Fluorobiphenyl		0	34.1-116		62.3	%REC	1	09/07/2013 1:21	91555
Surr: 2-Fluorophenol		0	30.5-99		68.2	%REC	1	09/07/2013 1:21	91555
Surr: Nitrobenzene-d5		0	34.1-101		68.3	%REC	1	09/07/2013 1:21	91555
Surr: Phenol-d5		0	34.9-110		70.7	%REC	1	09/07/2013 1:21	91555
Surr: p-Terphenyl-d14		0	41.7-124		79.8	%REC	1	09/07/2013 1:21	91555

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
1,1,2,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
2-Butanone	NELAP	0.0077	0.038		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
2-Hexanone	NELAP	0.0077	0.038		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
4-Methyl-2-pentanone	NELAP	0.0077	0.038		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
Acetone	NELAP	0.0077	0.038	J	0.027	mg/Kg-dry	1	09/04/2013 6:25	91591
Benzene	NELAP	0.0004	0.001		0.001	mg/Kg-dry	1	09/04/2013 6:25	91591
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 6:25	91591

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-001

Client Sample ID: 1467V-1-B09-1

Matrix: SOLID

Collection Date: 08/29/2013 15:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
Bromomethane	NELAP	0.0015	0.008		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
Carbon disulfide	NELAP	0.0023	0.004		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
Chloroethane	NELAP	0.0015	0.008		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
Chloromethane	NELAP	0.0015	0.008		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
Ethylbenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
m,p-Xylenes	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
Methylene chloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
o-Xylene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
Toluene	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/04/2013 6:25	91591
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
Vinyl acetate	NELAP	0.0153	0.038		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
Xylenes, Total	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/04/2013 6:25	91591
Surr: 1,2-Dichloroethane-d4		0	72.2-131		113.3	%REC	1	09/04/2013 6:25	91591
Surr: 4-Bromofluorobenzene		0	82.1-116		106.8	%REC	1	09/04/2013 6:25	91591
Surr: Dibromofluoromethane		0	77.7-120		104.1	%REC	1	09/04/2013 6:25	91591
Surr: Toluene-d8		0	86-116		100.2	%REC	1	09/04/2013 6:25	91591

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-002

Client Sample ID: 1467V-1-B09-2

Matrix: SOLID

Collection Date: 08/29/2013 16:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		10.3	%	1	09/03/2013 12:30	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		89.7	%	1	09/03/2013 12:30	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.63		1	09/03/2013 14:51	R181368
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0341	mg/L	1	09/06/2013 12:06	91677
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 12:06	91677
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 12:06	91677
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 12:06	91677
Chromium	NELAP	0.004	0.01	J	0.0046	mg/L	1	09/06/2013 12:06	91677
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/06/2013 12:06	91677
Iron	NELAP	0.007	0.02		3.56	mg/L	1	09/06/2013 12:06	91677
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 12:06	91677
Manganese	NELAP	0.0016	0.005		0.0292	mg/L	1	09/06/2013 12:06	91677
Nickel	NELAP	0.0033	0.01	J	0.0039	mg/L	1	09/06/2013 12:06	91677
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 12:06	91677
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 12:06	91677
Zinc	NELAP	0.0021	0.01		0.0131	mg/L	1	09/06/2013 12:06	91677
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 18:47	91680
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 16:24	91680
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/06/2013 12:22	91686
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.31	4.63		7540	mg/Kg-dry	1	09/04/2013 18:30	91573
Antimony	NELAP	2.41	4.63		< 4.63	mg/Kg-dry	1	09/05/2013 22:52	91623
Arsenic	NELAP	1.16	2.31		4.14	mg/Kg-dry	1	09/04/2013 18:30	91573
Barium	NELAP	0.23	0.46		38	mg/Kg-dry	1	09/04/2013 18:30	91573
Beryllium	NELAP	0.05	0.09		0.44	mg/Kg-dry	1	09/04/2013 18:30	91573
Boron	NELAP	0.93	1.85		10.7	mg/Kg-dry	1	09/04/2013 18:30	91573
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	09/04/2013 18:30	91573
Calcium	NELAP	2.31	4.63		71500	mg/Kg-dry	1	09/04/2013 18:30	91573
Chromium	NELAP	0.46	0.93	X	16.2	mg/Kg-dry	1	09/04/2013 18:30	91573
Cobalt	NELAP	0.46	0.93		5.31	mg/Kg-dry	1	09/04/2013 18:30	91573
Copper	NELAP	0.46	0.93		11.8	mg/Kg-dry	1	09/04/2013 18:30	91573
Iron	NELAP	0.93	1.85		13000	mg/Kg-dry	1	09/04/2013 18:30	91573
Lead	NELAP	1.85	3.7		5.17	mg/Kg-dry	1	09/04/2013 18:30	91573
Magnesium	NELAP	0.46	0.93	B	34000	mg/Kg-dry	1	09/04/2013 18:30	91573
Manganese	NELAP	0.23	0.46		320	mg/Kg-dry	1	09/04/2013 18:30	91573
Nickel	NELAP	0.46	0.93		13	mg/Kg-dry	1	09/04/2013 18:30	91573
Potassium	NELAP	4.63	9.26		1880	mg/Kg-dry	1	09/05/2013 17:45	91573
Silver	NELAP	0.46	0.51		< 0.51	mg/Kg-dry	1	09/04/2013 18:30	91573
Sodium	NELAP	2.31	4.63		530	mg/Kg-dry	1	09/04/2013 18:30	91573
Thallium	NELAP	2.31	2.41		< 2.41	mg/Kg-dry	1	09/04/2013 18:30	91573
Vanadium	NELAP	0.46	0.93		18.2	mg/Kg-dry	1	09/04/2013 18:30	91573
Zinc	NELAP	0.46	0.93		28.5	mg/Kg-dry	1	09/04/2013 18:30	91573

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-002

Client Sample ID: 1467V-1-B09-2

Matrix: SOLID

Collection Date: 08/29/2013 16:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.337	0.577		< 0.577	mg/Kg-dry	1	09/09/2013 14:50	91588
SW-846 7471B									
Mercury	NELAP	0.003	0.011	J	0.011	mg/Kg-dry	1	09/04/2013 12:41	91563
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.148	0.555		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
1,2-Dichlorobenzene	NELAP	0.177	0.555		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
1,3-Dichlorobenzene	NELAP	0.187	0.555		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
1,4-Dichlorobenzene	NELAP	0.177	0.555		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
2,4,5-Trichlorophenol	NELAP	0.106	0.389		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
2,4,6-Trichlorophenol	NELAP	0.14	0.389		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
2,4-Dichlorophenol	NELAP	0.134	0.555		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
2,4-Dimethylphenol	NELAP	0.141	0.555		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
2,4-Dinitrophenol	NELAP	0.119	1.11		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
2,4-Dinitrotoluene	NELAP	0.116	0.389		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
2,6-Dinitrotoluene	NELAP	0.12	0.389		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
2-Chloronaphthalene	NELAP	0.133	0.389		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
2-Chlorophenol	NELAP	0.141	0.555		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
2-Methylnaphthalene	NELAP	0.132	0.389		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
2-Nitroaniline	NELAP	0.101	1.11		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
2-Nitrophenol	NELAP	0.124	0.389		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
3,3'-Dichlorobenzidine	NELAP	0.222	0.389		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
3-Nitroaniline	NELAP	0.091	1.11		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
4,6-Dinitro-2-methylphenol	NELAP	0.12	1.11		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
4-Bromophenyl phenyl ether	NELAP	0.102	0.389		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
4-Chloro-3-methylphenol	NELAP	0.122	0.555		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
4-Chloroaniline	NELAP	0.134	0.555		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
4-Chlorophenyl phenyl ether	NELAP	0.11	0.389		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
4-Nitroaniline	NELAP	0.101	0.555		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
4-Nitrophenol	NELAP	0.109	0.389		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Acenaphthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Acenaphthylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Benzo(a)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Benzo(a)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Benzo(b)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Benzo(g,h,i)perylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Benzo(k)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Bis(2-chloroethoxy)methane	NELAP	0.13	0.389		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Bis(2-chloroethyl)ether	NELAP	0.158	0.555		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Bis(2-chloroisopropyl)ether	NELAP	0.127	0.389		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Bis(2-ethylhexyl)phthalate	NELAP	0.13	0.389		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Butyl benzyl phthalate	NELAP	0.112	0.389		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Carbazole		0.136	0.555		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Chrysene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Dibenzo(a,h)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 2:08	91555

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-002

Client Sample ID: 1467V-1-B09-2

Matrix: SOLID

Collection Date: 08/29/2013 16:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dibenzofuran	NELAP	0.14	0.389		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Diethyl phthalate	NELAP	0.107	0.555		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Dimethyl phthalate	NELAP	0.101	0.389		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Di-n-butyl phthalate	NELAP	0.114	0.389		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Di-n-octyl phthalate	NELAP	0.116	0.389		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Fluorene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Hexachlorobenzene	NELAP	0.109	0.389		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Hexachlorobutadiene	NELAP	0.172	0.555		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Hexachlorocyclopentadiene	NELAP	0.113	0.389		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Hexachloroethane	NELAP	0.185	0.555		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Isophorone	NELAP	0.131	0.389		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
m,p-Cresol	NELAP	0.14	0.555		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Naphthalene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Nitrobenzene	NELAP	0.139	0.555		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
N-Nitroso-di-n-propylamine	NELAP	0.122	0.555		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
N-Nitrosodiphenylamine	NELAP	0.102	0.555		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
o-Cresol	NELAP	0.131	0.555		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Pentachlorophenol	NELAP	0.733	2.22		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Phenanthrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Phenol	NELAP	0.129	0.389		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 2:08	91555
Surr: 2,4,6-Tribromophenol		0	32.7-130		64.9	%REC	1	09/06/2013 2:08	91555
Surr: 2-Fluorobiphenyl		0	34.1-116		61.4	%REC	1	09/06/2013 2:08	91555
Surr: 2-Fluorophenol		0	30.5-99		61	%REC	1	09/06/2013 2:08	91555
Surr: Nitrobenzene-d5		0	34.1-101		69.5	%REC	1	09/06/2013 2:08	91555
Surr: Phenol-d5		0	34.9-110		62.9	%REC	1	09/06/2013 2:08	91555
Surr: p-Terphenyl-d14		0	41.7-124		74.7	%REC	1	09/06/2013 2:08	91555
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
1,1,2,2-Tetrachloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
1,1,2-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
1,1-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
1,1-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
1,2-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
1,2-Dichloropropane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
1,3-Dichloropropene, Total		0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
2-Butanone	NELAP	0.0074	0.037		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
2-Hexanone	NELAP	0.0074	0.037		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
4-Methyl-2-pentanone	NELAP	0.0074	0.037		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
Acetone	NELAP	0.0074	0.037	J	0.033	mg/Kg-dry	1	09/04/2013 7:24	91591
Benzene	NELAP	0.0004	0.001		0.001	mg/Kg-dry	1	09/04/2013 7:24	91591
Bromodichloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
Bromoform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
Bromomethane	NELAP	0.0015	0.007		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
Carbon disulfide	NELAP	0.0022	0.004		ND	mg/Kg-dry	1	09/04/2013 7:24	91591



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-002

Client Sample ID: 1467V-1-B09-2

Matrix: SOLID

Collection Date: 08/29/2013 16:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbon tetrachloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
Chlorobenzene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
Chloroethane	NELAP	0.0015	0.007		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
Chloroform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
Chloromethane	NELAP	0.0015	0.007		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
cis-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
cis-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
Dibromochloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
Ethylbenzene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
m,p-Xylenes	NELAP	0.0007	0.004	J	0.001	mg/Kg-dry	1	09/04/2013 7:24	91591
Methyl tert-butyl ether	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
Methylene chloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
o-Xylene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
Styrene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
Tetrachloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
Toluene	NELAP	0.0007	0.004	J	0.002	mg/Kg-dry	1	09/04/2013 7:24	91591
trans-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
trans-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
Trichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
Vinyl acetate	NELAP	0.0147	0.037		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
Vinyl chloride	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/04/2013 7:24	91591
Xylenes, Total	NELAP	0.0007	0.004	J	0.001	mg/Kg-dry	1	09/04/2013 7:24	91591
Surr: 1,2-Dichloroethane-d4		0	72.2-131		110.5	%REC	1	09/04/2013 7:24	91591
Surr: 4-Bromofluorobenzene		0	82.1-116		112.2	%REC	1	09/04/2013 7:24	91591
Surr: Dibromofluoromethane		0	77.7-120		101.3	%REC	1	09/04/2013 7:24	91591
Surr: Toluene-d8		0	86-116		103.2	%REC	1	09/04/2013 7:24	91591



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-003

Client Sample ID: 1467V-1-B18-2

Matrix: SOLID

Collection Date: 08/29/2013 15:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		12.1	%	1	09/03/2013 12:30	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		87.9	%	1	09/03/2013 12:30	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.32		1	09/03/2013 14:52	R181368
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0218	mg/L	1	09/06/2013 12:09	91677
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 12:09	91677
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 12:09	91677
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 12:09	91677
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/06/2013 12:09	91677
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/06/2013 12:09	91677
Iron	NELAP	0.007	0.02		1.51	mg/L	1	09/06/2013 12:09	91677
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 12:09	91677
Manganese	NELAP	0.0016	0.005		0.0077	mg/L	1	09/06/2013 12:09	91677
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/06/2013 12:09	91677
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 12:09	91677
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 12:09	91677
Zinc	NELAP	0.0021	0.01	J	0.0065	mg/L	1	09/06/2013 12:09	91677
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 19:13	91680
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 16:34	91680
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/06/2013 12:25	91686
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.45	4.9		6770	mg/Kg-dry	1	09/04/2013 18:37	91573
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	09/05/2013 22:55	91623
Arsenic	NELAP	1.23	2.45		4.49	mg/Kg-dry	1	09/04/2013 18:37	91573
Barium	NELAP	0.25	0.49		52.2	mg/Kg-dry	1	09/04/2013 18:37	91573
Beryllium	NELAP	0.05	0.1		0.41	mg/Kg-dry	1	09/04/2013 18:37	91573
Boron	NELAP	0.98	1.96		10.2	mg/Kg-dry	1	09/04/2013 18:37	91573
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	09/04/2013 18:37	91573
Calcium	NELAP	2.45	4.9		82500	mg/Kg-dry	1	09/04/2013 18:37	91573
Chromium	NELAP	0.49	0.98		11.5	mg/Kg-dry	1	09/04/2013 18:37	91573
Cobalt	NELAP	0.49	0.98		4.92	mg/Kg-dry	1	09/04/2013 18:37	91573
Copper	NELAP	0.49	0.98		11.8	mg/Kg-dry	1	09/04/2013 18:37	91573
Iron	NELAP	0.98	1.96	X	15100	mg/Kg-dry	1	09/04/2013 18:37	91573
Lead	NELAP	1.96	3.92		5.42	mg/Kg-dry	1	09/04/2013 18:37	91573
Magnesium	NELAP	0.49	0.98	B	32300	mg/Kg-dry	1	09/04/2013 18:37	91573
Manganese	NELAP	0.25	0.49		505	mg/Kg-dry	1	09/04/2013 18:37	91573
Nickel	NELAP	0.49	0.98		13.6	mg/Kg-dry	1	09/04/2013 18:37	91573
Potassium	NELAP	4.9	9.8		1830	mg/Kg-dry	1	09/05/2013 17:51	91573
Silver	NELAP	0.49	0.54		< 0.54	mg/Kg-dry	1	09/04/2013 18:37	91573
Sodium	NELAP	2.45	4.9		180	mg/Kg-dry	1	09/04/2013 18:37	91573
Thallium	NELAP	2.45	2.55		< 2.55	mg/Kg-dry	1	09/04/2013 18:37	91573
Vanadium	NELAP	0.49	0.98		16.8	mg/Kg-dry	1	09/04/2013 18:37	91573
Zinc	NELAP	0.49	0.98		26	mg/Kg-dry	1	09/04/2013 18:37	91573

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-003

Client Sample ID: 1467V-1-B18-2

Matrix: SOLID

Collection Date: 08/29/2013 15:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.337	0.577		< 0.577	mg/Kg-dry	1	09/09/2013 14:53	91588
SW-846 7471B									
Mercury	NELAP	0.003	0.011		0.015	mg/Kg-dry	1	09/04/2013 12:44	91563
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.151	0.567		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
1,2-Dichlorobenzene	NELAP	0.18	0.567		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
1,3-Dichlorobenzene	NELAP	0.19	0.567		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
1,4-Dichlorobenzene	NELAP	0.18	0.567		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
2,4,5-Trichlorophenol	NELAP	0.108	0.397		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
2,4,6-Trichlorophenol	NELAP	0.143	0.397		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
2,4-Dichlorophenol	NELAP	0.137	0.567		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
2,4-Dimethylphenol	NELAP	0.144	0.567		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
2,4-Dinitrophenol	NELAP	0.121	1.13		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
2,4-Dinitrotoluene	NELAP	0.118	0.397		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
2,6-Dinitrotoluene	NELAP	0.122	0.397		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
2-Chloronaphthalene	NELAP	0.136	0.397		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
2-Chlorophenol	NELAP	0.144	0.567		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
2-Methylnaphthalene	NELAP	0.135	0.397		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
2-Nitroaniline	NELAP	0.103	1.13		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
2-Nitrophenol	NELAP	0.127	0.397		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
3,3'-Dichlorobenzidine	NELAP	0.227	0.397		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
3-Nitroaniline	NELAP	0.093	1.13		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
4,6-Dinitro-2-methylphenol	NELAP	0.122	1.13		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
4-Bromophenyl phenyl ether	NELAP	0.104	0.397		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
4-Chloro-3-methylphenol	NELAP	0.125	0.567		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
4-Chloroaniline	NELAP	0.137	0.567		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
4-Chlorophenyl phenyl ether	NELAP	0.112	0.397		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
4-Nitroaniline	NELAP	0.103	0.567		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
4-Nitrophenol	NELAP	0.111	0.397		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Acenaphthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Acenaphthylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Benzo(a)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Benzo(a)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Benzo(b)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Benzo(g,h,i)perylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Benzo(k)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Bis(2-chloroethoxy)methane	NELAP	0.133	0.397		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Bis(2-chloroethyl)ether	NELAP	0.161	0.567		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Bis(2-chloroisopropyl)ether	NELAP	0.129	0.397		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Bis(2-ethylhexyl)phthalate	NELAP	0.133	0.397		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Butyl benzyl phthalate	NELAP	0.114	0.397		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Carbazole		0.138	0.567		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Chrysene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Dibenzo(a,h)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/06/2013 3:45	91555

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-003

Client Sample ID: 1467V-1-B18-2

Matrix: SOLID

Collection Date: 08/29/2013 15:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
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SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

Dibenzofuran	NELAP	0.143	0.397		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Diethyl phthalate	NELAP	0.109	0.567		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Dimethyl phthalate	NELAP	0.103	0.397		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Di-n-butyl phthalate	NELAP	0.117	0.397		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Di-n-octyl phthalate	NELAP	0.118	0.397		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Fluorene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Hexachlorobenzene	NELAP	0.111	0.397		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Hexachlorobutadiene	NELAP	0.176	0.567		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Hexachlorocyclopentadiene	NELAP	0.116	0.397		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Hexachloroethane	NELAP	0.189	0.567		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Isophorone	NELAP	0.134	0.397		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
m,p-Cresol	NELAP	0.143	0.567		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Naphthalene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Nitrobenzene	NELAP	0.142	0.567		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
N-Nitroso-di-n-propylamine	NELAP	0.125	0.567		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
N-Nitrosodiphenylamine	NELAP	0.104	0.567		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
o-Cresol	NELAP	0.134	0.567		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Pentachlorophenol	NELAP	0.748	2.27		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Phenanthrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Phenol	NELAP	0.131	0.397		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/06/2013 3:45	91555
Surr: 2,4,6-Tribromophenol		0	32.7-130		70.5	%REC	1	09/06/2013 3:45	91555
Surr: 2-Fluorobiphenyl		0	34.1-116		58.8	%REC	1	09/06/2013 3:45	91555
Surr: 2-Fluorophenol		0	30.5-99		60.1	%REC	1	09/06/2013 3:45	91555
Surr: Nitrobenzene-d5		0	34.1-101		58.7	%REC	1	09/06/2013 3:45	91555
Surr: Phenol-d5		0	34.9-110		64.1	%REC	1	09/06/2013 3:45	91555
Surr: p-Terphenyl-d14		0	41.7-124		76.6	%REC	1	09/06/2013 3:45	91555

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

1,1,1-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
1,1,1,2-Tetrachloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
1,1,2-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
1,1-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
1,1-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
1,2-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
1,2-Dichloropropane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
1,3-Dichloropropene, Total		0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
2-Butanone	NELAP	0.0071	0.036		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
2-Hexanone	NELAP	0.0071	0.036		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
4-Methyl-2-pentanone	NELAP	0.0071	0.036		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
Acetone	NELAP	0.0071	0.036	J	0.025	mg/Kg-dry	1	09/04/2013 11:20	91653
Benzene	NELAP	0.0004	0.001		0.001	mg/Kg-dry	1	09/04/2013 11:20	91653
Bromodichloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
Bromoform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
Bromomethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
Carbon disulfide	NELAP	0.0021	0.004		ND	mg/Kg-dry	1	09/04/2013 11:20	91653



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-003

Client Sample ID: 1467V-1-B18-2

Matrix: SOLID

Collection Date: 08/29/2013 15:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbon tetrachloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
Chlorobenzene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
Chloroethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
Chloroform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
Chloromethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
cis-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
cis-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
Dibromochloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
Ethylbenzene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
m,p-Xylenes	NELAP	0.0007	0.004	J	0.001	mg/Kg-dry	1	09/04/2013 11:20	91653
Methyl tert-butyl ether	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
Methylene chloride	NELAP	0.0007	0.004	B	ND	mg/Kg-dry	1	09/04/2013 11:20	91653
o-Xylene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
Styrene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
Tetrachloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
Toluene	NELAP	0.0007	0.004	J	0.002	mg/Kg-dry	1	09/04/2013 11:20	91653
trans-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
trans-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
Trichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
Vinyl acetate	NELAP	0.0142	0.036		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
Vinyl chloride	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/04/2013 11:20	91653
Xylenes, Total	NELAP	0.0007	0.004	J	0.001	mg/Kg-dry	1	09/04/2013 11:20	91653
Surr: 1,2-Dichloroethane-d4		0	72.2-131		112.1	%REC	1	09/04/2013 11:20	91653
Surr: 4-Bromofluorobenzene		0	82.1-116	S	117.1	%REC	1	09/04/2013 11:20	91653
Surr: Dibromofluoromethane		0	77.7-120		101.6	%REC	1	09/04/2013 11:20	91653
Surr: Toluene-d8		0	86-116		102.5	%REC	1	09/04/2013 11:20	91653

Surrogate recovery is outside QC limits due to matrix interference.

Contamination present in MBLK for Methylene Chloride. Sample results below the RL are reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-004

Client Sample ID: 1467V-1-B19

Matrix: SOLID

Collection Date: 08/29/2013 15:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		21.8	%	1	09/03/2013 12:31	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		78.2	%	1	09/03/2013 12:31	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.1		1	09/03/2013 14:54	R181368
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.314	mg/L	1	09/11/2013 12:51	91773
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0958	mg/L	1	09/06/2013 12:13	91677
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 12:13	91677
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 12:13	91677
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 12:13	91677
Chromium	NELAP	0.004	0.01		0.0151	mg/L	1	09/06/2013 12:13	91677
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/06/2013 12:13	91677
Iron	NELAP	0.007	0.02	X	12.8	mg/L	1	09/06/2013 12:13	91677
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 12:13	91677
Manganese	NELAP	0.0016	0.005		0.0643	mg/L	1	09/06/2013 12:13	91677
Nickel	NELAP	0.0033	0.01	J	0.009	mg/L	1	09/06/2013 12:13	91677
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 12:13	91677
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 12:13	91677
Zinc	NELAP	0.0021	0.01		0.0325	mg/L	1	09/06/2013 12:13	91677
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 19:17	91680
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 16:38	91680
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/06/2013 12:27	91686
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.36	4.72		24000	mg/Kg-dry	1	09/04/2013 18:43	91573
Antimony	NELAP	2.5	4.81		< 4.81	mg/Kg-dry	1	09/05/2013 22:59	91623
Arsenic	NELAP	1.18	2.36		10.5	mg/Kg-dry	1	09/04/2013 18:43	91573
Barium	NELAP	0.24	0.47		139	mg/Kg-dry	1	09/04/2013 18:43	91573
Beryllium	NELAP	0.05	0.09		0.96	mg/Kg-dry	1	09/04/2013 18:43	91573
Boron	NELAP	0.94	1.89		7.63	mg/Kg-dry	1	09/04/2013 18:43	91573
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	09/04/2013 18:43	91573
Calcium	NELAP	2.36	4.72		2220	mg/Kg-dry	1	09/04/2013 18:43	91573
Chromium	NELAP	0.47	0.94	X	29.5	mg/Kg-dry	1	09/04/2013 18:43	91573
Cobalt	NELAP	0.47	0.94		11	mg/Kg-dry	1	09/04/2013 18:43	91573
Copper	NELAP	0.47	0.94		21.1	mg/Kg-dry	1	09/04/2013 18:43	91573
Iron	NELAP	0.94	1.89	X	28500	mg/Kg-dry	1	09/04/2013 18:43	91573
Lead	NELAP	1.89	3.77		20.2	mg/Kg-dry	1	09/04/2013 18:43	91573
Magnesium	NELAP	0.47	0.94	B	4180	mg/Kg-dry	1	09/04/2013 18:43	91573
Manganese	NELAP	0.24	0.47	X	637	mg/Kg-dry	1	09/04/2013 18:43	91573
Nickel	NELAP	0.47	0.94		22.8	mg/Kg-dry	1	09/04/2013 18:43	91573
Potassium	NELAP	4.72	9.43		1870	mg/Kg-dry	1	09/05/2013 17:57	91573
Silver	NELAP	0.47	0.52		< 0.52	mg/Kg-dry	1	09/04/2013 18:43	91573
Sodium	NELAP	2.36	4.72		3750	mg/Kg-dry	1	09/04/2013 18:43	91573

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-004

Client Sample ID: 1467V-1-B19

Matrix: SOLID

Collection Date: 08/29/2013 15:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.36	2.45		< 2.45	mg/Kg-dry	1	09/04/2013 18:43	91573
Vanadium	NELAP	0.47	0.94		52.1	mg/Kg-dry	1	09/04/2013 18:43	91573
Zinc	NELAP	0.47	0.94		59.1	mg/Kg-dry	1	09/04/2013 18:43	91573
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.33	0.566		< 0.566	mg/Kg-dry	1	09/09/2013 15:03	91588
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.056	mg/Kg-dry	1	09/04/2013 12:46	91563
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.171	0.643		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
1,2-Dichlorobenzene	NELAP	0.204	0.643		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
1,3-Dichlorobenzene	NELAP	0.216	0.643		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
1,4-Dichlorobenzene	NELAP	0.204	0.643		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
2,4,5-Trichlorophenol	NELAP	0.122	0.45		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
2,4,6-Trichlorophenol	NELAP	0.162	0.45		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
2,4-Dichlorophenol	NELAP	0.156	0.643		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
2,4-Dimethylphenol	NELAP	0.163	0.643		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
2,4-Dinitrophenol	NELAP	0.138	1.29		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
2,4-Dinitrotoluene	NELAP	0.134	0.45		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
2,6-Dinitrotoluene	NELAP	0.139	0.45		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
2-Chloronaphthalene	NELAP	0.154	0.45		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
2-Chlorophenol	NELAP	0.163	0.643		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
2-Methylnaphthalene	NELAP	0.153	0.45		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
2-Nitroaniline	NELAP	0.117	1.29		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
2-Nitrophenol	NELAP	0.144	0.45		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
3,3'-Dichlorobenzidine	NELAP	0.257	0.45		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
3-Nitroaniline	NELAP	0.105	1.29		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
4,6-Dinitro-2-methylphenol	NELAP	0.139	1.29		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
4-Bromophenyl phenyl ether	NELAP	0.118	0.45		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
4-Chloro-3-methylphenol	NELAP	0.141	0.643		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
4-Chloroaniline	NELAP	0.156	0.643		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
4-Chlorophenyl phenyl ether	NELAP	0.127	0.45		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
4-Nitroaniline	NELAP	0.117	0.643		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
4-Nitrophenol	NELAP	0.126	0.45		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Acenaphthene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Acenaphthylene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Anthracene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Benzo(a)anthracene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Benzo(a)pyrene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Benzo(b)fluoranthene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Benzo(g,h,i)perylene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Benzo(k)fluoranthene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Bis(2-chloroethoxy)methane	NELAP	0.15	0.45		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Bis(2-chloroethyl)ether	NELAP	0.183	0.643		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Bis(2-chloroisopropyl)ether	NELAP	0.147	0.45		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Bis(2-ethylhexyl)phthalate	NELAP	0.15	0.45		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Butyl benzyl phthalate	NELAP	0.13	0.45		ND	mg/Kg-dry	1	09/07/2013 1:53	91555

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-004

Client Sample ID: 1467V-1-B19

Matrix: SOLID

Collection Date: 08/29/2013 15:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.157	0.643		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Chrysene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Dibenzo(a,h)anthracene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Dibenzofuran	NELAP	0.162	0.45		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Diethyl phthalate	NELAP	0.123	0.643		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Dimethyl phthalate	NELAP	0.117	0.45		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Di-n-butyl phthalate	NELAP	0.132	0.45		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Di-n-octyl phthalate	NELAP	0.134	0.45		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Fluoranthene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Fluorene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Hexachlorobenzene	NELAP	0.126	0.45		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Hexachlorobutadiene	NELAP	0.199	0.643		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Hexachlorocyclopentadiene	NELAP	0.131	0.45		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Hexachloroethane	NELAP	0.215	0.643		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Indeno(1,2,3-cd)pyrene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Isophorone	NELAP	0.152	0.45		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
m,p-Cresol	NELAP	0.162	0.643		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Naphthalene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Nitrobenzene	NELAP	0.161	0.643		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
N-Nitroso-di-n-propylamine	NELAP	0.141	0.643		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
N-Nitrosodiphenylamine	NELAP	0.118	0.643		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
o-Cresol	NELAP	0.152	0.643		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Pentachlorophenol	NELAP	0.848	2.57		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Phenanthrene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Phenol	NELAP	0.149	0.45		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Pyrene	NELAP	0.021	0.044		ND	mg/Kg-dry	1	09/07/2013 1:53	91555
Surr: 2,4,6-Tribromophenol		0	32.7-130		63.1	%REC	1	09/07/2013 1:53	91555
Surr: 2-Fluorobiphenyl		0	34.1-116		49.8	%REC	1	09/07/2013 1:53	91555
Surr: 2-Fluorophenol		0	30.5-99		63.8	%REC	1	09/07/2013 1:53	91555
Surr: Nitrobenzene-d5		0	34.1-101		60.9	%REC	1	09/07/2013 1:53	91555
Surr: Phenol-d5		0	34.9-110		67.9	%REC	1	09/07/2013 1:53	91555
Surr: p-Terphenyl-d14		0	41.7-124		71.2	%REC	1	09/07/2013 1:53	91555

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
1,1,2-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
1,1-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
1,1-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
1,2-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
1,2-Dichloropropane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
1,3-Dichloropropene, Total		0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
2-Butanone	NELAP	0.0089	0.044	J	0.011	mg/Kg-dry	1	09/04/2013 11:46	91653
2-Hexanone	NELAP	0.0089	0.044		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
4-Methyl-2-pentanone	NELAP	0.0089	0.044		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
Acetone	NELAP	0.0089	0.044		0.067	mg/Kg-dry	1	09/04/2013 11:46	91653
Benzene	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
Bromodichloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-004

Client Sample ID: 1467V-1-B19

Matrix: SOLID

Collection Date: 08/29/2013 15:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
Bromomethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
Carbon disulfide	NELAP	0.0027	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
Carbon tetrachloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
Chlorobenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
Chloroethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
Chloroform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
Chloromethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
cis-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
cis-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
Dibromochloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
Ethylbenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
m,p-Xylenes	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
Methylene chloride	NELAP	0.0009	0.004	B	ND	mg/Kg-dry	1	09/04/2013 11:46	91653
o-Xylene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
Styrene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
Tetrachloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
Toluene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
trans-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
trans-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
Trichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
Vinyl acetate	NELAP	0.0178	0.044		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
Xylenes, Total	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 11:46	91653
Surr: 1,2-Dichloroethane-d4		0	72.2-131		112.1	%REC	1	09/04/2013 11:46	91653
Surr: 4-Bromofluorobenzene		0	82.1-116	S	121.7	%REC	1	09/04/2013 11:46	91653
Surr: Dibromofluoromethane		0	77.7-120		101.7	%REC	1	09/04/2013 11:46	91653
Surr: Toluene-d8		0	86-116		106.5	%REC	1	09/04/2013 11:46	91653

Surrogate recovery is outside QC limits due to matrix interference.

Contamination present in MBLK for Methylene Chloride. Sample results below the RL are reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-005

Client Sample ID: 1467V-1-B19 DUP

Matrix: SOLID

Collection Date: 08/29/2013 15:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		20.1	%	1	09/03/2013 12:31	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		79.9	%	1	09/03/2013 12:31	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.83		1	09/03/2013 14:56	R181368
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.411	mg/L	1	09/11/2013 13:23	91773
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.156	mg/L	1	09/06/2013 12:17	91677
Beryllium	NELAP	0.0003	0.001	J	0.0003	mg/L	1	09/06/2013 12:17	91677
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 12:17	91677
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 12:17	91677
Chromium	NELAP	0.004	0.01		0.0201	mg/L	1	09/06/2013 12:17	91677
Cobalt	NELAP	0.0022	0.01	J	0.0028	mg/L	1	09/06/2013 12:17	91677
Iron	NELAP	0.007	0.02	X	16.6	mg/L	1	09/06/2013 12:17	91677
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 12:17	91677
Manganese	NELAP	0.0016	0.005		0.0724	mg/L	1	09/06/2013 12:17	91677
Nickel	NELAP	0.0033	0.01		0.0133	mg/L	1	09/06/2013 12:17	91677
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 12:17	91677
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 12:17	91677
Zinc	NELAP	0.0021	0.01		0.0374	mg/L	1	09/06/2013 12:17	91677
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 19:21	91680
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 16:41	91680
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/06/2013 12:29	91686
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.4	4.81		12900	mg/Kg-dry	1	09/04/2013 18:49	91573
Antimony	NELAP	2.45	4.72		< 4.72	mg/Kg-dry	1	09/05/2013 23:03	91623
Arsenic	NELAP	1.2	2.4		8.35	mg/Kg-dry	1	09/04/2013 18:49	91573
Barium	NELAP	0.24	0.48		119	mg/Kg-dry	1	09/04/2013 18:49	91573
Beryllium	NELAP	0.05	0.1		0.68	mg/Kg-dry	1	09/04/2013 18:49	91573
Boron	NELAP	0.96	1.92		6.75	mg/Kg-dry	1	09/04/2013 18:49	91573
Cadmium	NELAP	0.1	0.19		< 0.19	mg/Kg-dry	1	09/04/2013 18:49	91573
Calcium	NELAP	2.4	4.81		7160	mg/Kg-dry	1	09/04/2013 18:49	91573
Chromium	NELAP	0.48	0.96	X	21.8	mg/Kg-dry	1	09/04/2013 18:49	91573
Cobalt	NELAP	0.48	0.96		6.84	mg/Kg-dry	1	09/04/2013 18:49	91573
Copper	NELAP	0.48	0.96		16.6	mg/Kg-dry	1	09/04/2013 18:49	91573
Iron	NELAP	0.96	1.92	X	21100	mg/Kg-dry	1	09/04/2013 18:49	91573
Lead	NELAP	1.92	3.85		13.4	mg/Kg-dry	1	09/04/2013 18:49	91573
Magnesium	NELAP	0.48	0.96	B	5900	mg/Kg-dry	1	09/04/2013 18:49	91573
Manganese	NELAP	0.24	0.48		447	mg/Kg-dry	1	09/04/2013 18:49	91573
Nickel	NELAP	0.48	0.96		37.3	mg/Kg-dry	1	09/04/2013 18:49	91573
Potassium	NELAP	4.81	9.62		1400	mg/Kg-dry	1	09/05/2013 18:03	91573
Silver	NELAP	0.48	0.53		< 0.53	mg/Kg-dry	1	09/04/2013 18:49	91573
Sodium	NELAP	2.4	4.81		1800	mg/Kg-dry	1	09/04/2013 18:49	91573

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-005

Client Sample ID: 1467V-1-B19 DUP

Matrix: SOLID

Collection Date: 08/29/2013 15:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.4	2.5		< 2.5	mg/Kg-dry	1	09/04/2013 18:49	91573
Vanadium	NELAP	0.48	0.96		38.1	mg/Kg-dry	1	09/04/2013 18:49	91573
Zinc	NELAP	0.48	0.96		40.4	mg/Kg-dry	1	09/04/2013 18:49	91573
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.324	0.556		< 0.556	mg/Kg-dry	1	09/09/2013 15:07	91588
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.031	mg/Kg-dry	1	09/04/2013 12:48	91563
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.168	0.633		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
1,2-Dichlorobenzene	NELAP	0.201	0.633		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
1,3-Dichlorobenzene	NELAP	0.213	0.633		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
1,4-Dichlorobenzene	NELAP	0.201	0.633		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
2,4,5-Trichlorophenol	NELAP	0.12	0.443		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
2,4,6-Trichlorophenol	NELAP	0.159	0.443		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
2,4-Dichlorophenol	NELAP	0.153	0.633		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
2,4-Dimethylphenol	NELAP	0.161	0.633		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
2,4-Dinitrophenol	NELAP	0.135	1.27		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
2,4-Dinitrotoluene	NELAP	0.132	0.443		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
2,6-Dinitrotoluene	NELAP	0.137	0.443		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
2-Chloronaphthalene	NELAP	0.152	0.443		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
2-Chlorophenol	NELAP	0.161	0.633		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
2-Methylnaphthalene	NELAP	0.151	0.443		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
2-Nitroaniline	NELAP	0.115	1.27		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
2-Nitrophenol	NELAP	0.142	0.443		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
3,3'-Dichlorobenzidine	NELAP	0.253	0.443		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
3-Nitroaniline	NELAP	0.104	1.27		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
4,6-Dinitro-2-methylphenol	NELAP	0.137	1.27		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
4-Bromophenyl phenyl ether	NELAP	0.116	0.443		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
4-Chloro-3-methylphenol	NELAP	0.139	0.633		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
4-Chloroaniline	NELAP	0.153	0.633		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
4-Chlorophenyl phenyl ether	NELAP	0.125	0.443		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
4-Nitroaniline	NELAP	0.115	0.633		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
4-Nitrophenol	NELAP	0.124	0.443		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Acenaphthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Acenaphthylene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Anthracene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Benzo(a)anthracene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Benzo(a)pyrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Benzo(b)fluoranthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Benzo(g,h,i)perylene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Benzo(k)fluoranthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Bis(2-chloroethoxy)methane	NELAP	0.148	0.443		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Bis(2-chloroethyl)ether	NELAP	0.18	0.633		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Bis(2-chloroisopropyl)ether	NELAP	0.144	0.443		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Bis(2-ethylhexyl)phthalate	NELAP	0.148	0.443		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Butyl benzyl phthalate	NELAP	0.128	0.443		ND	mg/Kg-dry	1	09/07/2013 3:30	91555

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-005

Client Sample ID: 1467V-1-B19 DUP

Matrix: SOLID

Collection Date: 08/29/2013 15:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.154	0.633		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Chrysene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Dibenzo(a,h)anthracene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Dibenzofuran	NELAP	0.159	0.443		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Diethyl phthalate	NELAP	0.121	0.633		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Dimethyl phthalate	NELAP	0.115	0.443		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Di-n-butyl phthalate	NELAP	0.13	0.443		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Di-n-octyl phthalate	NELAP	0.132	0.443		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Fluoranthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Fluorene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Hexachlorobenzene	NELAP	0.124	0.443		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Hexachlorobutadiene	NELAP	0.196	0.633		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Hexachlorocyclopentadiene	NELAP	0.129	0.443		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Hexachloroethane	NELAP	0.211	0.633		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Indeno(1,2,3-cd)pyrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Isophorone	NELAP	0.149	0.443		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
m,p-Cresol	NELAP	0.159	0.633		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Naphthalene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Nitrobenzene	NELAP	0.158	0.633		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
N-Nitroso-di-n-propylamine	NELAP	0.139	0.633		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
N-Nitrosodiphenylamine	NELAP	0.116	0.633		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
o-Cresol	NELAP	0.149	0.633		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Pentachlorophenol	NELAP	0.835	2.53		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Phenanthrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Phenol	NELAP	0.147	0.443		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Pyrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 3:30	91555
Surr: 2,4,6-Tribromophenol		0	32.7-130		70.8	%REC	1	09/07/2013 3:30	91555
Surr: 2-Fluorobiphenyl		0	34.1-116		57.7	%REC	1	09/07/2013 3:30	91555
Surr: 2-Fluorophenol		0	30.5-99		63.1	%REC	1	09/07/2013 3:30	91555
Surr: Nitrobenzene-d5		0	34.1-101		63.6	%REC	1	09/07/2013 3:30	91555
Surr: Phenol-d5		0	34.9-110		69	%REC	1	09/07/2013 3:30	91555
Surr: p-Terphenyl-d14		0	41.7-124		76.6	%REC	1	09/07/2013 3:30	91555

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
1,1,2-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
1,1-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
1,1-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
1,2-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
1,2-Dichloropropane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
1,3-Dichloropropene, Total		0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
2-Butanone	NELAP	0.0091	0.045		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
2-Hexanone	NELAP	0.0091	0.045		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
4-Methyl-2-pentanone	NELAP	0.0091	0.045		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
Acetone	NELAP	0.0091	0.045		0.048	mg/Kg-dry	1	09/04/2013 12:12	91653
Benzene	NELAP	0.0005	0.001		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
Bromodichloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 12:12	91653

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-005

Client Sample ID: 1467V-1-B19 DUP

Matrix: SOLID

Collection Date: 08/29/2013 15:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
Bromomethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
Carbon disulfide	NELAP	0.0027	0.005		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
Carbon tetrachloride	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
Chlorobenzene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
Chloroethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
Chloroform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
Chloromethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
cis-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
cis-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
Dibromochloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
Ethylbenzene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
m,p-Xylenes	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
Methylene chloride	NELAP	0.0009	0.005	B	ND	mg/Kg-dry	1	09/04/2013 12:12	91653
o-Xylene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
Styrene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
Tetrachloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
Toluene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
trans-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
trans-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
Trichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
Vinyl acetate	NELAP	0.0181	0.045		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
Xylenes, Total	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/04/2013 12:12	91653
Surr: 1,2-Dichloroethane-d4		0	72.2-131		106.7	%REC	1	09/04/2013 12:12	91653
Surr: 4-Bromofluorobenzene		0	82.1-116	S	118	%REC	1	09/04/2013 12:12	91653
Surr: Dibromofluoromethane		0	77.7-120		100.7	%REC	1	09/04/2013 12:12	91653
Surr: Toluene-d8		0	86-116		105.4	%REC	1	09/04/2013 12:12	91653

Surrogate recovery is outside QC limits due to matrix interference.

Contamination present in MBLK for Methylene Chloride. Sample results below the RL are reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-006

Client Sample ID: 1467V-1-B10-1

Matrix: SOLID

Collection Date: 08/29/2013 16:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		6.9	%	1	09/03/2013 12:31	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		93.1	%	1	09/03/2013 12:31	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.7		1	09/03/2013 15:01	R181368
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.05	0.1		< 0.1	mg/L	1	09/11/2013 15:38	91780
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0519	mg/L	1	09/06/2013 12:20	91677
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 12:20	91677
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 12:20	91677
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 12:20	91677
Chromium	NELAP	0.004	0.01	J	0.0072	mg/L	1	09/06/2013 12:20	91677
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/06/2013 12:20	91677
Iron	NELAP	0.007	0.02	X	5.6	mg/L	1	09/06/2013 12:20	91677
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 12:20	91677
Manganese	NELAP	0.0016	0.005		0.043	mg/L	1	09/06/2013 12:20	91677
Nickel	NELAP	0.0033	0.01	J	0.0053	mg/L	1	09/06/2013 12:20	91677
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 12:20	91677
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 12:20	91677
Zinc	NELAP	0.0021	0.01		0.0176	mg/L	1	09/06/2013 12:20	91677
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 19:25	91680
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 16:45	91680
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/06/2013 12:31	91686
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.4	4.81		6370	mg/Kg-dry	1	09/04/2013 18:55	91573
Antimony	NELAP	2.41	4.63		< 4.63	mg/Kg-dry	1	09/05/2013 23:06	91623
Arsenic	NELAP	1.2	2.4		3.56	mg/Kg-dry	1	09/04/2013 18:55	91573
Barium	NELAP	0.24	0.48		35.3	mg/Kg-dry	1	09/04/2013 18:55	91573
Beryllium	NELAP	0.05	0.1		0.39	mg/Kg-dry	1	09/04/2013 18:55	91573
Boron	NELAP	0.96	1.92		9.75	mg/Kg-dry	1	09/04/2013 18:55	91573
Cadmium	NELAP	0.1	0.19		< 0.19	mg/Kg-dry	1	09/04/2013 18:55	91573
Calcium	NELAP	2.4	4.81		90300	mg/Kg-dry	1	09/04/2013 18:55	91573
Chromium	NELAP	0.48	0.96		10.4	mg/Kg-dry	1	09/04/2013 18:55	91573
Cobalt	NELAP	0.48	0.96		4.03	mg/Kg-dry	1	09/04/2013 18:55	91573
Copper	NELAP	0.48	0.96		10.4	mg/Kg-dry	1	09/04/2013 18:55	91573
Iron	NELAP	0.96	1.92		10800	mg/Kg-dry	1	09/04/2013 18:55	91573
Lead	NELAP	1.92	3.85		5.1	mg/Kg-dry	1	09/04/2013 18:55	91573
Magnesium	NELAP	0.48	0.96	B	43400	mg/Kg-dry	1	09/04/2013 18:55	91573
Manganese	NELAP	0.24	0.48		271	mg/Kg-dry	1	09/04/2013 18:55	91573
Nickel	NELAP	0.48	0.96		10.6	mg/Kg-dry	1	09/04/2013 18:55	91573
Potassium	NELAP	4.81	9.62		1630	mg/Kg-dry	1	09/05/2013 18:09	91573
Silver	NELAP	0.48	0.53		< 0.53	mg/Kg-dry	1	09/04/2013 18:55	91573
Sodium	NELAP	2.4	4.81		192	mg/Kg-dry	1	09/04/2013 18:55	91573

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-006

Client Sample ID: 1467V-1-B10-1

Matrix: SOLID

Collection Date: 08/29/2013 16:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.4	2.5		< 2.5	mg/Kg-dry	1	09/04/2013 18:55	91573
Vanadium	NELAP	0.48	0.96		15.2	mg/Kg-dry	1	09/04/2013 18:55	91573
Zinc	NELAP	0.48	0.96		22.7	mg/Kg-dry	1	09/04/2013 18:55	91573
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.324	0.556		< 0.556	mg/Kg-dry	1	09/09/2013 15:10	91588
SW-846 7471B									
Mercury	NELAP	0.003	0.01		0.011	mg/Kg-dry	1	09/04/2013 12:50	91563
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.144	0.541		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
1,2-Dichlorobenzene	NELAP	0.172	0.541		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
1,3-Dichlorobenzene	NELAP	0.182	0.541		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
1,4-Dichlorobenzene	NELAP	0.172	0.541		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
2,4,5-Trichlorophenol	NELAP	0.103	0.379		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
2,4,6-Trichlorophenol	NELAP	0.136	0.379		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
2,4-Dichlorophenol	NELAP	0.131	0.541		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
2,4-Dimethylphenol	NELAP	0.137	0.541		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
2,4-Dinitrophenol	NELAP	0.116	1.08		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
2,4-Dinitrotoluene	NELAP	0.113	0.379		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
2,6-Dinitrotoluene	NELAP	0.117	0.379		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
2-Chloronaphthalene	NELAP	0.13	0.379		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
2-Chlorophenol	NELAP	0.137	0.541		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
2-Methylnaphthalene	NELAP	0.129	0.379		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
2-Nitroaniline	NELAP	0.098	1.08		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
2-Nitrophenol	NELAP	0.121	0.379		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
3,3'-Dichlorobenzidine	NELAP	0.216	0.379		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
3-Nitroaniline	NELAP	0.089	1.08		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
4,6-Dinitro-2-methylphenol	NELAP	0.117	1.08		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
4-Bromophenyl phenyl ether	NELAP	0.1	0.379		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
4-Chloro-3-methylphenol	NELAP	0.119	0.541		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
4-Chloroaniline	NELAP	0.131	0.541		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
4-Chlorophenyl phenyl ether	NELAP	0.107	0.379		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
4-Nitroaniline	NELAP	0.098	0.541		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
4-Nitrophenol	NELAP	0.106	0.379		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Acenaphthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Acenaphthylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Benzo(a)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Benzo(a)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Benzo(b)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Benzo(g,h,i)perylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Benzo(k)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Bis(2-chloroethoxy)methane	NELAP	0.127	0.379		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Bis(2-chloroethyl)ether	NELAP	0.154	0.541		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Bis(2-chloroisopropyl)ether	NELAP	0.123	0.379		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Bis(2-ethylhexyl)phthalate	NELAP	0.127	0.379		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Butyl benzyl phthalate	NELAP	0.109	0.379		ND	mg/Kg-dry	1	09/06/2013 4:18	91555

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-006

Client Sample ID: 1467V-1-B10-1

Matrix: SOLID

Collection Date: 08/29/2013 16:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.132	0.541		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Chrysene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Dibenzo(a,h)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Dibenzofuran	NELAP	0.136	0.379		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Diethyl phthalate	NELAP	0.104	0.541		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Dimethyl phthalate	NELAP	0.098	0.379		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Di-n-butyl phthalate	NELAP	0.111	0.379		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Di-n-octyl phthalate	NELAP	0.113	0.379		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Fluorene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Hexachlorobenzene	NELAP	0.106	0.379		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Hexachlorobutadiene	NELAP	0.168	0.541		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Hexachlorocyclopentadiene	NELAP	0.11	0.379		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Hexachloroethane	NELAP	0.181	0.541		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Indeno(1,2,3-cd)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Isophorone	NELAP	0.128	0.379		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
m,p-Cresol	NELAP	0.136	0.541		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Naphthalene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Nitrobenzene	NELAP	0.135	0.541		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
N-Nitroso-di-n-propylamine	NELAP	0.119	0.541		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
N-Nitrosodiphenylamine	NELAP	0.1	0.541		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
o-Cresol	NELAP	0.128	0.541		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Pentachlorophenol	NELAP	0.714	2.16		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Phenanthrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Phenol	NELAP	0.126	0.379		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 4:18	91555
Surr: 2,4,6-Tribromophenol		0	32.7-130		70.9	%REC	1	09/06/2013 4:18	91555
Surr: 2-Fluorobiphenyl		0	34.1-116		64.5	%REC	1	09/06/2013 4:18	91555
Surr: 2-Fluorophenol		0	30.5-99		62.5	%REC	1	09/06/2013 4:18	91555
Surr: Nitrobenzene-d5		0	34.1-101		65.8	%REC	1	09/06/2013 4:18	91555
Surr: Phenol-d5		0	34.9-110		64.6	%REC	1	09/06/2013 4:18	91555
Surr: p-Terphenyl-d14		0	41.7-124		77.6	%REC	1	09/06/2013 4:18	91555

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
1,1,2,2-Tetrachloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
1,1,2-Trichloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
1,1-Dichloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
1,1-Dichloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
1,2-Dichloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
1,2-Dichloropropane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
1,3-Dichloropropene, Total		0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
2-Butanone	NELAP	0.0065	0.033		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
2-Hexanone	NELAP	0.0065	0.033		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
4-Methyl-2-pentanone	NELAP	0.0065	0.033		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
Acetone	NELAP	0.0065	0.033		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
Benzene	NELAP	0.0003	0.001		0.002	mg/Kg-dry	1	09/04/2013 12:38	91653
Bromodichloromethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 12:38	91653

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-006

Client Sample ID: 1467V-1-B10-1

Matrix: SOLID

Collection Date: 08/29/2013 16:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
Bromomethane	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
Carbon disulfide	NELAP	0.002	0.003		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
Carbon tetrachloride	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
Chlorobenzene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
Chloroethane	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
Chloroform	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
Chloromethane	NELAP	0.0013	0.007		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
cis-1,2-Dichloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
cis-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
Dibromochloromethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
Ethylbenzene	NELAP	0.0007	0.003	J	0.001	mg/Kg-dry	1	09/04/2013 12:38	91653
m,p-Xylenes	NELAP	0.0007	0.003	J	0.002	mg/Kg-dry	1	09/04/2013 12:38	91653
Methyl tert-butyl ether	NELAP	0.0003	0.001		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
Methylene chloride	NELAP	0.0007	0.003	B	ND	mg/Kg-dry	1	09/04/2013 12:38	91653
o-Xylene	NELAP	0.0007	0.003	J	0.001	mg/Kg-dry	1	09/04/2013 12:38	91653
Styrene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
Tetrachloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
Toluene	NELAP	0.0007	0.003		0.005	mg/Kg-dry	1	09/04/2013 12:38	91653
trans-1,2-Dichloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
trans-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
Trichloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
Vinyl acetate	NELAP	0.0131	0.033		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
Vinyl chloride	NELAP	0.0003	0.001		ND	mg/Kg-dry	1	09/04/2013 12:38	91653
Xylenes, Total	NELAP	0.0007	0.003	J	0.003	mg/Kg-dry	1	09/04/2013 12:38	91653
Surr: 1,2-Dichloroethane-d4		0	72.2-131		108.8	%REC	1	09/04/2013 12:38	91653
Surr: 4-Bromofluorobenzene		0	82.1-116		107	%REC	1	09/04/2013 12:38	91653
Surr: Dibromofluoromethane		0	77.7-120		101.4	%REC	1	09/04/2013 12:38	91653
Surr: Toluene-d8		0	86-116		102	%REC	1	09/04/2013 12:38	91653

Contamination present in MBLK for Methylene Chloride. Sample results below the RL are reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-007

Client Sample ID: 1467V-1-B10-2

Matrix: SOLID

Collection Date: 08/29/2013 16:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		9.2	%	1	09/03/2013 12:31	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		90.8	%	1	09/03/2013 12:31	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.53		1	09/03/2013 15:05	R181368
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0423	mg/L	1	09/06/2013 12:31	91677
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 12:31	91677
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 12:31	91677
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 12:31	91677
Chromium	NELAP	0.004	0.01	J	0.0059	mg/L	1	09/06/2013 12:31	91677
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/06/2013 12:31	91677
Iron	NELAP	0.007	0.02		4.41	mg/L	1	09/06/2013 12:31	91677
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 12:31	91677
Manganese	NELAP	0.0016	0.005		0.0335	mg/L	1	09/06/2013 12:31	91677
Nickel	NELAP	0.0033	0.01	J	0.0048	mg/L	1	09/06/2013 12:31	91677
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 12:31	91677
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 12:31	91677
Zinc	NELAP	0.0021	0.01		0.0133	mg/L	1	09/06/2013 12:31	91677
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 19:28	91680
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 16:55	91680
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/06/2013 12:38	91686
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.5	5		6880	mg/Kg-dry	1	09/04/2013 19:01	91573
Antimony	NELAP	2.45	4.72		< 4.72	mg/Kg-dry	1	09/05/2013 23:10	91623
Arsenic	NELAP	1.25	2.5		4.69	mg/Kg-dry	1	09/04/2013 19:01	91573
Barium	NELAP	0.25	0.5		40.1	mg/Kg-dry	1	09/04/2013 19:01	91573
Beryllium	NELAP	0.05	0.1		0.43	mg/Kg-dry	1	09/04/2013 19:01	91573
Boron	NELAP	1	2		10.2	mg/Kg-dry	1	09/04/2013 19:01	91573
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	09/04/2013 19:01	91573
Calcium	NELAP	2.5	5		80200	mg/Kg-dry	1	09/04/2013 19:01	91573
Chromium	NELAP	0.5	1		11.9	mg/Kg-dry	1	09/04/2013 19:01	91573
Cobalt	NELAP	0.5	1		4.32	mg/Kg-dry	1	09/04/2013 19:01	91573
Copper	NELAP	0.5	1		12.1	mg/Kg-dry	1	09/04/2013 19:01	91573
Iron	NELAP	1	2		12300	mg/Kg-dry	1	09/04/2013 19:01	91573
Lead	NELAP	2	4		5.76	mg/Kg-dry	1	09/04/2013 19:01	91573
Magnesium	NELAP	0.5	1	B	37300	mg/Kg-dry	1	09/04/2013 19:01	91573
Manganese	NELAP	0.25	0.5		331	mg/Kg-dry	1	09/04/2013 19:01	91573
Nickel	NELAP	0.5	1		12.4	mg/Kg-dry	1	09/04/2013 19:01	91573
Potassium	NELAP	5	10		1770	mg/Kg-dry	1	09/05/2013 18:15	91573
Silver	NELAP	0.5	0.55		< 0.55	mg/Kg-dry	1	09/04/2013 19:01	91573
Sodium	NELAP	2.5	5		178	mg/Kg-dry	1	09/04/2013 19:01	91573
Thallium	NELAP	2.5	2.6		< 2.6	mg/Kg-dry	1	09/04/2013 19:01	91573
Vanadium	NELAP	0.5	1		17.1	mg/Kg-dry	1	09/04/2013 19:01	91573
Zinc	NELAP	0.5	1		24.3	mg/Kg-dry	1	09/04/2013 19:01	91573

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-007

Client Sample ID: 1467V-1-B10-2

Matrix: SOLID

Collection Date: 08/29/2013 16:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.343	0.588		< 0.588	mg/Kg-dry	1	09/09/2013 15:13	91588
SW-846 7471B									
Mercury	NELAP	0.003	0.011		0.012	mg/Kg-dry	1	09/04/2013 12:53	91563
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.147	0.552		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
1,2-Dichlorobenzene	NELAP	0.176	0.552		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
1,3-Dichlorobenzene	NELAP	0.186	0.552		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
1,4-Dichlorobenzene	NELAP	0.176	0.552		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
2,4,5-Trichlorophenol	NELAP	0.105	0.387		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
2,4,6-Trichlorophenol	NELAP	0.139	0.387		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
2,4-Dichlorophenol	NELAP	0.134	0.552		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
2,4-Dimethylphenol	NELAP	0.14	0.552		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
2,4-Dinitrophenol	NELAP	0.118	1.1		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
2,4-Dinitrotoluene	NELAP	0.115	0.387		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
2,6-Dinitrotoluene	NELAP	0.119	0.387		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
2-Chloronaphthalene	NELAP	0.133	0.387		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
2-Chlorophenol	NELAP	0.14	0.552		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
2-Methylnaphthalene	NELAP	0.131	0.387		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
2-Nitroaniline	NELAP	0.101	1.1		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
2-Nitrophenol	NELAP	0.124	0.387		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
3,3'-Dichlorobenzidine	NELAP	0.221	0.387		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
3-Nitroaniline	NELAP	0.091	1.1		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
4,6-Dinitro-2-methylphenol	NELAP	0.119	1.1		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
4-Bromophenyl phenyl ether	NELAP	0.102	0.387		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
4-Chloro-3-methylphenol	NELAP	0.121	0.552		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
4-Chloroaniline	NELAP	0.134	0.552		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
4-Chlorophenyl phenyl ether	NELAP	0.109	0.387		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
4-Nitroaniline	NELAP	0.101	0.552		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
4-Nitrophenol	NELAP	0.108	0.387		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Acenaphthene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Acenaphthylene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Anthracene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Benzo(a)anthracene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Benzo(a)pyrene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Benzo(b)fluoranthene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Benzo(g,h,i)perylene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Benzo(k)fluoranthene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Bis(2-chloroethoxy)methane	NELAP	0.129	0.387		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Bis(2-chloroethyl)ether	NELAP	0.157	0.552		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Bis(2-chloroisopropyl)ether	NELAP	0.126	0.387		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Bis(2-ethylhexyl)phthalate	NELAP	0.129	0.387		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Butyl benzyl phthalate	NELAP	0.112	0.387		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Carbazole		0.135	0.552		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Chrysene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Dibenzo(a,h)anthracene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	09/06/2013 4:50	91555

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-007

Client Sample ID: 1467V-1-B10-2

Matrix: SOLID

Collection Date: 08/29/2013 16:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dibenzofuran	NELAP	0.139	0.387		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Diethyl phthalate	NELAP	0.106	0.552		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Dimethyl phthalate	NELAP	0.101	0.387		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Di-n-butyl phthalate	NELAP	0.114	0.387		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Di-n-octyl phthalate	NELAP	0.115	0.387		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Fluoranthene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Fluorene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Hexachlorobenzene	NELAP	0.108	0.387		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Hexachlorobutadiene	NELAP	0.171	0.552		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Hexachlorocyclopentadiene	NELAP	0.113	0.387		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Hexachloroethane	NELAP	0.184	0.552		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Indeno(1,2,3-cd)pyrene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Isophorone	NELAP	0.13	0.387		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
m,p-Cresol	NELAP	0.139	0.552		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Naphthalene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Nitrobenzene	NELAP	0.138	0.552		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
N-Nitroso-di-n-propylamine	NELAP	0.121	0.552		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
N-Nitrosodiphenylamine	NELAP	0.102	0.552		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
o-Cresol	NELAP	0.13	0.552		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Pentachlorophenol	NELAP	0.729	2.21		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Phenanthrene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Phenol	NELAP	0.128	0.387		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Pyrene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	09/06/2013 4:50	91555
Surr: 2,4,6-Tribromophenol		0	32.7-130		63.6	%REC	1	09/06/2013 4:50	91555
Surr: 2-Fluorobiphenyl		0	34.1-116		57	%REC	1	09/06/2013 4:50	91555
Surr: 2-Fluorophenol		0	30.5-99		61	%REC	1	09/06/2013 4:50	91555
Surr: Nitrobenzene-d5		0	34.1-101		64.9	%REC	1	09/06/2013 4:50	91555
Surr: Phenol-d5		0	34.9-110		64.4	%REC	1	09/06/2013 4:50	91555
Surr: p-Terphenyl-d14		0	41.7-124		77.4	%REC	1	09/06/2013 4:50	91555
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
1,1,1,2-Tetrachloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
1,1,2-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
1,1-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
1,1-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
1,2-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
1,2-Dichloropropane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
1,3-Dichloropropene, Total		0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
2-Butanone	NELAP	0.0073	0.036		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
2-Hexanone	NELAP	0.0073	0.036		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
4-Methyl-2-pentanone	NELAP	0.0073	0.036		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
Acetone	NELAP	0.0073	0.036		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
Benzene	NELAP	0.0004	0.001		0.002	mg/Kg-dry	1	09/07/2013 19:25	91748
Bromodichloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
Bromoform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
Bromomethane	NELAP	0.0015	0.007		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
Carbon disulfide	NELAP	0.0022	0.004		ND	mg/Kg-dry	1	09/07/2013 19:25	91748



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-007

Client Sample ID: 1467V-1-B10-2

Matrix: SOLID

Collection Date: 08/29/2013 16:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbon tetrachloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
Chlorobenzene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
Chloroethane	NELAP	0.0015	0.007		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
Chloroform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
Chloromethane	NELAP	0.0015	0.007		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
cis-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
cis-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
Dibromochloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
Ethylbenzene	NELAP	0.0007	0.004	J	0.001	mg/Kg-dry	1	09/07/2013 19:25	91748
m,p-Xylenes	NELAP	0.0007	0.004	J	0.002	mg/Kg-dry	1	09/07/2013 19:25	91748
Methyl tert-butyl ether	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
Methylene chloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
o-Xylene	NELAP	0.0007	0.004	J	0.001	mg/Kg-dry	1	09/07/2013 19:25	91748
Styrene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
Tetrachloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
Toluene	NELAP	0.0007	0.004		0.004	mg/Kg-dry	1	09/07/2013 19:25	91748
trans-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
trans-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
Trichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
Vinyl acetate	NELAP	0.0145	0.036		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
Vinyl chloride	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/07/2013 19:25	91748
Xylenes, Total	NELAP	0.0007	0.004	J	0.003	mg/Kg-dry	1	09/07/2013 19:25	91748
Surr: 1,2-Dichloroethane-d4		0	72.2-131		104.4	%REC	1	09/07/2013 19:25	91748
Surr: 4-Bromofluorobenzene		0	82.1-116		102.7	%REC	1	09/07/2013 19:25	91748
Surr: Dibromofluoromethane		0	77.7-120		100.2	%REC	1	09/07/2013 19:25	91748
Surr: Toluene-d8		0	86-116		101.6	%REC	1	09/07/2013 19:25	91748

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-008

Client Sample ID: 1467V-1-B21-1

Matrix: SOLID

Collection Date: 08/29/2013 16:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		23.2	%	1	09/03/2013 12:32	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		76.8	%	1	09/03/2013 12:32	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.18		1	09/03/2013 15:07	R181368
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.0298	mg/L	1	09/11/2013 13:29	91773
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.198	mg/L	1	09/06/2013 12:35	91677
Beryllium	NELAP	0.0003	0.001	J	0.0006	mg/L	1	09/06/2013 12:35	91677
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 12:35	91677
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 12:35	91677
Chromium	NELAP	0.004	0.01		0.0326	mg/L	1	09/06/2013 12:35	91677
Cobalt	NELAP	0.0022	0.01	J	0.0043	mg/L	1	09/06/2013 12:35	91677
Iron	NELAP	0.007	0.02	X	30.3	mg/L	1	09/06/2013 12:35	91677
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 12:35	91677
Manganese	NELAP	0.0016	0.005		0.0788	mg/L	1	09/06/2013 12:35	91677
Nickel	NELAP	0.0033	0.01		0.0201	mg/L	1	09/06/2013 12:35	91677
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 12:35	91677
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 12:35	91677
Zinc	NELAP	0.0021	0.01		0.0661	mg/L	1	09/06/2013 12:35	91677
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 19:32	91680
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 16:58	91680
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/06/2013 12:40	91686
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.27	4.55		14600	mg/Kg-dry	1	09/04/2013 19:07	91573
Antimony	NELAP	2.36	4.55		< 4.55	mg/Kg-dry	1	09/05/2013 23:14	91623
Arsenic	NELAP	1.14	2.27		7.3	mg/Kg-dry	1	09/04/2013 19:07	91573
Barium	NELAP	0.23	0.45		130	mg/Kg-dry	1	09/04/2013 19:07	91573
Beryllium	NELAP	0.05	0.09		0.66	mg/Kg-dry	1	09/04/2013 19:07	91573
Boron	NELAP	0.91	1.82		6.48	mg/Kg-dry	1	09/04/2013 19:07	91573
Cadmium	NELAP	0.09	0.18	J	0.14	mg/Kg-dry	1	09/04/2013 19:07	91573
Calcium	NELAP	2.27	4.55		18800	mg/Kg-dry	1	09/04/2013 19:07	91573
Chromium	NELAP	0.45	0.91	X	22.2	mg/Kg-dry	1	09/04/2013 19:07	91573
Cobalt	NELAP	0.45	0.91		6.39	mg/Kg-dry	1	09/04/2013 19:07	91573
Copper	NELAP	0.45	0.91		18.2	mg/Kg-dry	1	09/04/2013 19:07	91573
Iron	NELAP	0.91	1.82	X	20700	mg/Kg-dry	1	09/04/2013 19:07	91573
Lead	NELAP	1.82	3.64		12.3	mg/Kg-dry	1	09/04/2013 19:07	91573
Magnesium	NELAP	0.45	0.91	B	12600	mg/Kg-dry	1	09/04/2013 19:07	91573
Manganese	NELAP	0.23	0.45		416	mg/Kg-dry	1	09/04/2013 19:07	91573
Nickel	NELAP	0.45	0.91		18.1	mg/Kg-dry	1	09/04/2013 19:07	91573
Potassium	NELAP	4.55	9.09		1550	mg/Kg-dry	1	09/05/2013 18:33	91573
Silver	NELAP	0.45	0.5		< 0.5	mg/Kg-dry	1	09/04/2013 19:07	91573
Sodium	NELAP	2.27	4.55		1360	mg/Kg-dry	1	09/04/2013 19:07	91573

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-008

Client Sample ID: 1467V-1-B21-1

Matrix: SOLID

Collection Date: 08/29/2013 16:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.27	2.36		< 2.36	mg/Kg-dry	1	09/04/2013 19:07	91573
Vanadium	NELAP	0.45	0.91		36.9	mg/Kg-dry	1	09/04/2013 19:07	91573
Zinc	NELAP	0.45	0.91		50.2	mg/Kg-dry	1	09/04/2013 19:07	91573
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.343	0.588		< 0.588	mg/Kg-dry	1	09/09/2013 15:17	91588
SW-846 7471B									
Mercury	NELAP	0.003	0.013		0.04	mg/Kg-dry	1	09/04/2013 12:55	91563
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.174	0.655		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
1,2-Dichlorobenzene	NELAP	0.208	0.655		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
1,3-Dichlorobenzene	NELAP	0.22	0.655		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
1,4-Dichlorobenzene	NELAP	0.208	0.655		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
2,4,5-Trichlorophenol	NELAP	0.124	0.459		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
2,4,6-Trichlorophenol	NELAP	0.165	0.459		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
2,4-Dichlorophenol	NELAP	0.159	0.655		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
2,4-Dimethylphenol	NELAP	0.166	0.655		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
2,4-Dinitrophenol	NELAP	0.14	1.31		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
2,4-Dinitrotoluene	NELAP	0.136	0.459		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
2,6-Dinitrotoluene	NELAP	0.141	0.459		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
2-Chloronaphthalene	NELAP	0.157	0.459		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
2-Chlorophenol	NELAP	0.166	0.655		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
2-Methylnaphthalene	NELAP	0.156	0.459		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
2-Nitroaniline	NELAP	0.119	1.31		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
2-Nitrophenol	NELAP	0.147	0.459		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
3,3'-Dichlorobenzidine	NELAP	0.262	0.459		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
3-Nitroaniline	NELAP	0.107	1.31		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
4,6-Dinitro-2-methylphenol	NELAP	0.141	1.31		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
4-Bromophenyl phenyl ether	NELAP	0.121	0.459		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
4-Chloro-3-methylphenol	NELAP	0.144	0.655		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
4-Chloroaniline	NELAP	0.159	0.655		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
4-Chlorophenyl phenyl ether	NELAP	0.13	0.459		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
4-Nitroaniline	NELAP	0.119	0.655		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
4-Nitrophenol	NELAP	0.128	0.459		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Acenaphthene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Acenaphthylene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Anthracene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Benzo(a)anthracene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Benzo(a)pyrene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Benzo(b)fluoranthene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Benzo(g,h,i)perylene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Benzo(k)fluoranthene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Bis(2-chloroethoxy)methane	NELAP	0.153	0.459		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Bis(2-chloroethyl)ether	NELAP	0.186	0.655		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Bis(2-chloroisopropyl)ether	NELAP	0.149	0.459		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Bis(2-ethylhexyl)phthalate	NELAP	0.153	0.459		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Butyl benzyl phthalate	NELAP	0.132	0.459		ND	mg/Kg-dry	1	09/06/2013 5:22	91555

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-008

Client Sample ID: 1467V-1-B21-1

Matrix: SOLID

Collection Date: 08/29/2013 16:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.16	0.655		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Chrysene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Dibenzo(a,h)anthracene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Dibenzofuran	NELAP	0.165	0.459		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Diethyl phthalate	NELAP	0.126	0.655		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Dimethyl phthalate	NELAP	0.119	0.459		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Di-n-butyl phthalate	NELAP	0.135	0.459		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Di-n-octyl phthalate	NELAP	0.136	0.459		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Fluoranthene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Fluorene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Hexachlorobenzene	NELAP	0.128	0.459		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Hexachlorobutadiene	NELAP	0.203	0.655		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Hexachlorocyclopentadiene	NELAP	0.134	0.459		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Hexachloroethane	NELAP	0.219	0.655		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Indeno(1,2,3-cd)pyrene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Isophorone	NELAP	0.155	0.459		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
m,p-Cresol	NELAP	0.165	0.655		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Naphthalene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Nitrobenzene	NELAP	0.164	0.655		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
N-Nitroso-di-n-propylamine	NELAP	0.144	0.655		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
N-Nitrosodiphenylamine	NELAP	0.121	0.655		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
o-Cresol	NELAP	0.155	0.655		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Pentachlorophenol	NELAP	0.865	2.62		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Phenanthrene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Phenol	NELAP	0.152	0.459		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Pyrene	NELAP	0.022	0.045		ND	mg/Kg-dry	1	09/06/2013 5:22	91555
Surr: 2,4,6-Tribromophenol		0	32.7-130		60.7	%REC	1	09/06/2013 5:22	91555
Surr: 2-Fluorobiphenyl		0	34.1-116		38	%REC	1	09/06/2013 5:22	91555
Surr: 2-Fluorophenol		0	30.5-99		59.1	%REC	1	09/06/2013 5:22	91555
Surr: Nitrobenzene-d5		0	34.1-101		60.6	%REC	1	09/06/2013 5:22	91555
Surr: Phenol-d5		0	34.9-110		61.7	%REC	1	09/06/2013 5:22	91555
Surr: p-Terphenyl-d14		0	41.7-124		75.9	%REC	1	09/06/2013 5:22	91555

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
1,1,2-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
1,1-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
1,1-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
1,2-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
1,2-Dichloropropane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
1,3-Dichloropropene, Total		0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
2-Butanone	NELAP	0.0089	0.044		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
2-Hexanone	NELAP	0.0089	0.044		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
4-Methyl-2-pentanone	NELAP	0.0089	0.044		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
Acetone	NELAP	0.0089	0.044		0.055	mg/Kg-dry	1	09/07/2013 19:52	91748
Benzene	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
Bromodichloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-008

Client Sample ID: 1467V-1-B21-1

Matrix: SOLID

Collection Date: 08/29/2013 16:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
Bromomethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
Carbon disulfide	NELAP	0.0027	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
Carbon tetrachloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
Chlorobenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
Chloroethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
Chloroform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
Chloromethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
cis-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
cis-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
Dibromochloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
Ethylbenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
m,p-Xylenes	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
Methylene chloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
o-Xylene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
Styrene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
Tetrachloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
Toluene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
trans-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
trans-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
Trichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
Vinyl acetate	NELAP	0.0177	0.044		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
Xylenes, Total	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 19:52	91748
Surr: 1,2-Dichloroethane-d4		0	72.2-131		109.7	%REC	1	09/07/2013 19:52	91748
Surr: 4-Bromofluorobenzene		0	82.1-116		102.9	%REC	1	09/07/2013 19:52	91748
Surr: Dibromofluoromethane		0	77.7-120		98.4	%REC	1	09/07/2013 19:52	91748
Surr: Toluene-d8		0	86-116		102.4	%REC	1	09/07/2013 19:52	91748

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-009

Client Sample ID: 1467V-1-B21-2

Matrix: SOLID

Collection Date: 08/29/2013 16:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		10.7	%	1	09/03/2013 12:32	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		89.3	%	1	09/03/2013 12:32	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.22		1	09/03/2013 15:09	R181368
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.335	mg/L	1	09/11/2013 13:47	91773
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0574	mg/L	1	09/06/2013 12:39	91677
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 12:39	91677
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 12:39	91677
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 12:39	91677
Chromium	NELAP	0.004	0.01	J	0.0085	mg/L	1	09/06/2013 12:39	91677
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/06/2013 12:39	91677
Iron	NELAP	0.007	0.02	X	7.07	mg/L	1	09/06/2013 12:39	91677
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 12:39	91677
Manganese	NELAP	0.0016	0.005		0.0558	mg/L	1	09/06/2013 12:39	91677
Nickel	NELAP	0.0033	0.01	J	0.0075	mg/L	1	09/06/2013 12:39	91677
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 12:39	91677
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 12:39	91677
Zinc	NELAP	0.0021	0.01		0.02	mg/L	1	09/06/2013 12:39	91677
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 19:36	91680
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 17:02	91680
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/06/2013 12:43	91686
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.5	5		6650	mg/Kg-dry	1	09/04/2013 19:13	91573
Antimony	NELAP	2.45	4.72		< 4.72	mg/Kg-dry	1	09/05/2013 23:17	91623
Arsenic	NELAP	1.25	2.5		4.62	mg/Kg-dry	1	09/04/2013 19:13	91573
Barium	NELAP	0.25	0.5		40.3	mg/Kg-dry	1	09/04/2013 19:13	91573
Beryllium	NELAP	0.05	0.1		0.42	mg/Kg-dry	1	09/04/2013 19:13	91573
Boron	NELAP	1	2		10.7	mg/Kg-dry	1	09/04/2013 19:13	91573
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	09/04/2013 19:13	91573
Calcium	NELAP	2.5	5		82700	mg/Kg-dry	1	09/04/2013 19:13	91573
Chromium	NELAP	0.5	1		12.1	mg/Kg-dry	1	09/04/2013 19:13	91573
Cobalt	NELAP	0.5	1		4.63	mg/Kg-dry	1	09/04/2013 19:13	91573
Copper	NELAP	0.5	1		12.5	mg/Kg-dry	1	09/04/2013 19:13	91573
Iron	NELAP	1	2		13900	mg/Kg-dry	1	09/04/2013 19:13	91573
Lead	NELAP	2	4		5.23	mg/Kg-dry	1	09/04/2013 19:13	91573
Magnesium	NELAP	0.5	1	B	39500	mg/Kg-dry	1	09/04/2013 19:13	91573
Manganese	NELAP	0.25	0.5		312	mg/Kg-dry	1	09/04/2013 19:13	91573
Nickel	NELAP	0.5	1		12.4	mg/Kg-dry	1	09/04/2013 19:13	91573
Potassium	NELAP	5	10		1860	mg/Kg-dry	1	09/05/2013 18:39	91573
Silver	NELAP	0.5	0.55		< 0.55	mg/Kg-dry	1	09/04/2013 19:13	91573
Sodium	NELAP	2.5	5		196	mg/Kg-dry	1	09/04/2013 19:13	91573

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-009

Client Sample ID: 1467V-1-B21-2

Matrix: SOLID

Collection Date: 08/29/2013 16:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.5	2.6		< 2.6	mg/Kg-dry	1	09/04/2013 19:13	91573
Vanadium	NELAP	0.5	1		17.3	mg/Kg-dry	1	09/04/2013 19:13	91573
Zinc	NELAP	0.5	1		24.1	mg/Kg-dry	1	09/04/2013 19:13	91573
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.343	0.588		< 0.588	mg/Kg-dry	1	09/09/2013 15:20	91588
SW-846 7471B									
Mercury	NELAP	0.003	0.011		0.012	mg/Kg-dry	1	09/04/2013 12:57	91563
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.15	0.562		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
1,2-Dichlorobenzene	NELAP	0.179	0.562		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
1,3-Dichlorobenzene	NELAP	0.189	0.562		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
1,4-Dichlorobenzene	NELAP	0.179	0.562		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
2,4,5-Trichlorophenol	NELAP	0.107	0.394		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
2,4,6-Trichlorophenol	NELAP	0.142	0.394		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
2,4-Dichlorophenol	NELAP	0.136	0.562		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
2,4-Dimethylphenol	NELAP	0.143	0.562		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
2,4-Dinitrophenol	NELAP	0.12	1.12		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
2,4-Dinitrotoluene	NELAP	0.117	0.394		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
2,6-Dinitrotoluene	NELAP	0.121	0.394		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
2-Chloronaphthalene	NELAP	0.135	0.394		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
2-Chlorophenol	NELAP	0.143	0.562		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
2-Methylnaphthalene	NELAP	0.134	0.394		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
2-Nitroaniline	NELAP	0.102	1.12		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
2-Nitrophenol	NELAP	0.126	0.394		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
3,3'-Dichlorobenzidine	NELAP	0.225	0.394		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
3-Nitroaniline	NELAP	0.092	1.12		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
4,6-Dinitro-2-methylphenol	NELAP	0.121	1.12		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
4-Bromophenyl phenyl ether	NELAP	0.103	0.394		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
4-Chloro-3-methylphenol	NELAP	0.124	0.562		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
4-Chloroaniline	NELAP	0.136	0.562		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
4-Chlorophenyl phenyl ether	NELAP	0.111	0.394		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
4-Nitroaniline	NELAP	0.102	0.562		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
4-Nitrophenol	NELAP	0.11	0.394		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Acenaphthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Acenaphthylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Benzo(a)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Benzo(a)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Benzo(b)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Benzo(g,h,i)perylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Benzo(k)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Bis(2-chloroethoxy)methane	NELAP	0.132	0.394		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Bis(2-chloroethyl)ether	NELAP	0.16	0.562		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Bis(2-chloroisopropyl)ether	NELAP	0.128	0.394		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Bis(2-ethylhexyl)phthalate	NELAP	0.132	0.394		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Butyl benzyl phthalate	NELAP	0.114	0.394		ND	mg/Kg-dry	1	09/06/2013 5:54	91555

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-009

Client Sample ID: 1467V-1-B21-2

Matrix: SOLID

Collection Date: 08/29/2013 16:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.137	0.562		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Chrysene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Dibenzo(a,h)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Dibenzofuran	NELAP	0.142	0.394		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Diethyl phthalate	NELAP	0.108	0.562		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Dimethyl phthalate	NELAP	0.102	0.394		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Di-n-butyl phthalate	NELAP	0.116	0.394		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Di-n-octyl phthalate	NELAP	0.117	0.394		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Fluorene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Hexachlorobenzene	NELAP	0.11	0.394		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Hexachlorobutadiene	NELAP	0.174	0.562		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Hexachlorocyclopentadiene	NELAP	0.115	0.394		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Hexachloroethane	NELAP	0.188	0.562		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Isophorone	NELAP	0.133	0.394		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
m,p-Cresol	NELAP	0.142	0.562		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Naphthalene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Nitrobenzene	NELAP	0.141	0.562		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
N-Nitroso-di-n-propylamine	NELAP	0.124	0.562		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
N-Nitrosodiphenylamine	NELAP	0.103	0.562		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
o-Cresol	NELAP	0.133	0.562		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Pentachlorophenol	NELAP	0.742	2.25		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Phenanthrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Phenol	NELAP	0.13	0.394		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 5:54	91555
Surr: 2,4,6-Tribromophenol		0	32.7-130		63.4	%REC	1	09/06/2013 5:54	91555
Surr: 2-Fluorobiphenyl		0	34.1-116		62.7	%REC	1	09/06/2013 5:54	91555
Surr: 2-Fluorophenol		0	30.5-99		62.1	%REC	1	09/06/2013 5:54	91555
Surr: Nitrobenzene-d5		0	34.1-101		67.2	%REC	1	09/06/2013 5:54	91555
Surr: Phenol-d5		0	34.9-110		65.5	%REC	1	09/06/2013 5:54	91555
Surr: p-Terphenyl-d14		0	41.7-124		77.1	%REC	1	09/06/2013 5:54	91555
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
1,1,2,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
2-Butanone	NELAP	0.0082	0.041		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
2-Hexanone	NELAP	0.0082	0.041		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
4-Methyl-2-pentanone	NELAP	0.0082	0.041		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
Acetone	NELAP	0.0082	0.041		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
Benzene	NELAP	0.0004	0.001		0.003	mg/Kg-dry	1	09/07/2013 20:18	91748
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 20:18	91748



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-009

Client Sample ID: 1467V-1-B21-2

Matrix: SOLID

Collection Date: 08/29/2013 16:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
Bromomethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
Carbon disulfide	NELAP	0.0024	0.004		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
Chloroethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
Chloromethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
Ethylbenzene	NELAP	0.0008	0.004	J	0.002	mg/Kg-dry	1	09/07/2013 20:18	91748
m,p-Xylenes	NELAP	0.0008	0.004	J	0.003	mg/Kg-dry	1	09/07/2013 20:18	91748
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
Methylene chloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
o-Xylene	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/07/2013 20:18	91748
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
Toluene	NELAP	0.0008	0.004		0.006	mg/Kg-dry	1	09/07/2013 20:18	91748
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
Vinyl acetate	NELAP	0.0163	0.041		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/07/2013 20:18	91748
Xylenes, Total	NELAP	0.0008	0.004		0.004	mg/Kg-dry	1	09/07/2013 20:18	91748
Surr: 1,2-Dichloroethane-d4		0	72.2-131		105	%REC	1	09/07/2013 20:18	91748
Surr: 4-Bromofluorobenzene		0	82.1-116		103.5	%REC	1	09/07/2013 20:18	91748
Surr: Dibromofluoromethane		0	77.7-120		102.2	%REC	1	09/07/2013 20:18	91748
Surr: Toluene-d8		0	86-116		102.5	%REC	1	09/07/2013 20:18	91748

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-010

Client Sample ID: 1467V-1-B11-1

Matrix: SOLID

Collection Date: 08/29/2013 17:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		8.4	%	1	09/03/2013 12:32	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		91.6	%	1	09/03/2013 12:32	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.13		1	09/03/2013 15:15	R181368
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0307	mg/L	1	09/06/2013 12:42	91677
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 12:42	91677
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 12:42	91677
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 12:42	91677
Chromium	NELAP	0.004	0.01	J	0.0051	mg/L	1	09/06/2013 12:42	91677
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/06/2013 12:42	91677
Iron	NELAP	0.007	0.02		2.73	mg/L	1	09/06/2013 12:42	91677
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 12:42	91677
Manganese	NELAP	0.0016	0.005		0.02	mg/L	1	09/06/2013 12:42	91677
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/06/2013 12:42	91677
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 12:42	91677
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 12:42	91677
Zinc	NELAP	0.0021	0.01		0.0107	mg/L	1	09/06/2013 12:42	91677
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 19:55	91680
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 17:05	91680
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/06/2013 12:45	91686
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.4	4.81	S	6710	mg/Kg-dry	1	09/04/2013 19:19	91573
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	09/05/2013 23:21	91623
Arsenic	NELAP	1.2	2.4		4.69	mg/Kg-dry	1	09/04/2013 19:19	91573
Barium	NELAP	0.24	0.48		31.8	mg/Kg-dry	1	09/04/2013 19:19	91573
Beryllium	NELAP	0.05	0.1		0.41	mg/Kg-dry	1	09/04/2013 19:19	91573
Boron	NELAP	0.96	1.92		10.2	mg/Kg-dry	1	09/04/2013 19:19	91573
Cadmium	NELAP	0.1	0.19		< 0.19	mg/Kg-dry	1	09/04/2013 19:19	91573
Calcium	NELAP	2.4	4.81	S	78400	mg/Kg-dry	1	09/04/2013 19:19	91573
Chromium	NELAP	0.48	0.96		10.9	mg/Kg-dry	1	09/04/2013 19:19	91573
Cobalt	NELAP	0.48	0.96		4.33	mg/Kg-dry	1	09/04/2013 19:19	91573
Copper	NELAP	0.48	0.96		11.5	mg/Kg-dry	1	09/04/2013 19:19	91573
Iron	NELAP	0.96	1.92	S	11800	mg/Kg-dry	1	09/04/2013 19:19	91573
Lead	NELAP	1.92	3.85		5.76	mg/Kg-dry	1	09/04/2013 19:19	91573
Magnesium	NELAP	0.48	0.96	BS	36100	mg/Kg-dry	1	09/04/2013 19:19	91573
Manganese	NELAP	0.24	0.48	S	288	mg/Kg-dry	1	09/05/2013 18:45	91573
Nickel	NELAP	0.48	0.96		11	mg/Kg-dry	1	09/04/2013 19:19	91573
Potassium	NELAP	4.81	9.62	S	1710	mg/Kg-dry	1	09/05/2013 18:45	91573
Silver	NELAP	0.48	0.53		< 0.53	mg/Kg-dry	1	09/04/2013 19:19	91573
Sodium	NELAP	2.4	4.81		192	mg/Kg-dry	1	09/04/2013 19:19	91573
Thallium	NELAP	2.4	2.5		< 2.5	mg/Kg-dry	1	09/04/2013 19:19	91573
Vanadium	NELAP	0.48	0.96		17.1	mg/Kg-dry	1	09/04/2013 19:19	91573
Zinc	NELAP	0.48	0.96		27.2	mg/Kg-dry	1	09/04/2013 19:19	91573

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-010

Client Sample ID: 1467V-1-B11-1

Matrix: SOLID

Collection Date: 08/29/2013 17:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
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SW-846 3050B, 6010B, METALS BY ICP

MS QC limits for Mn and K are not applicable due to high sample/spike ratio.

Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).

MS QC limits for Al, Ca, Fe, and Mg are not applicable due to high sample/spike ratio.

SW-846 3050B, 7010 METALS BY GFAA

Selenium	NELAP	0.343	0.588	S	< 0.588	mg/Kg-dry	1	09/10/2013 12:12	91588
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Se - Matrix interference present in sample. Confirmed by bench spike.

SW-846 7471B

Mercury	NELAP	0.003	0.011		0.011	mg/Kg-dry	1	09/04/2013 12:59	91563
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SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

1,2,4-Trichlorobenzene	NELAP	0.146	0.55		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
1,2-Dichlorobenzene	NELAP	0.175	0.55		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
1,3-Dichlorobenzene	NELAP	0.185	0.55		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
1,4-Dichlorobenzene	NELAP	0.175	0.55		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
2,4,5-Trichlorophenol	NELAP	0.105	0.385		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
2,4,6-Trichlorophenol	NELAP	0.139	0.385		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
2,4-Dichlorophenol	NELAP	0.133	0.55		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
2,4-Dimethylphenol	NELAP	0.14	0.55		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
2,4-Dinitrophenol	NELAP	0.118	1.1		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
2,4-Dinitrotoluene	NELAP	0.114	0.385		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
2,6-Dinitrotoluene	NELAP	0.119	0.385		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
2-Chloronaphthalene	NELAP	0.132	0.385		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
2-Chlorophenol	NELAP	0.14	0.55		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
2-Methylnaphthalene	NELAP	0.131	0.385		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
2-Nitroaniline	NELAP	0.1	1.1		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
2-Nitrophenol	NELAP	0.123	0.385		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
3,3'-Dichlorobenzidine	NELAP	0.22	0.385		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
3-Nitroaniline	NELAP	0.09	1.1		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
4,6-Dinitro-2-methylphenol	NELAP	0.119	1.1		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
4-Bromophenyl phenyl ether	NELAP	0.101	0.385		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
4-Chloro-3-methylphenol	NELAP	0.121	0.55		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
4-Chloroaniline	NELAP	0.133	0.55		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
4-Chlorophenyl phenyl ether	NELAP	0.109	0.385		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
4-Nitroaniline	NELAP	0.1	0.55		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
4-Nitrophenol	NELAP	0.108	0.385		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Acenaphthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Acenaphthylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Benzo(a)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Benzo(a)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Benzo(b)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Benzo(g,h,i)perylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Benzo(k)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Bis(2-chloroethoxy)methane	NELAP	0.129	0.385		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Bis(2-chloroethyl)ether	NELAP	0.156	0.55		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Bis(2-chloroisopropyl)ether	NELAP	0.125	0.385		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Bis(2-ethylhexyl)phthalate	NELAP	0.129	0.385		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Butyl benzyl phthalate	NELAP	0.111	0.385		ND	mg/Kg-dry	1	09/06/2013 6:26	91555

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-010

Client Sample ID: 1467V-1-B11-1

Matrix: SOLID

Collection Date: 08/29/2013 17:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.134	0.55		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Chrysene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Dibenzo(a,h)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Dibenzofuran	NELAP	0.139	0.385		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Diethyl phthalate	NELAP	0.106	0.55		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Dimethyl phthalate	NELAP	0.1	0.385		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Di-n-butyl phthalate	NELAP	0.113	0.385		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Di-n-octyl phthalate	NELAP	0.114	0.385		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Fluorene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Hexachlorobenzene	NELAP	0.108	0.385		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Hexachlorobutadiene	NELAP	0.171	0.55		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Hexachlorocyclopentadiene	NELAP	0.112	0.385		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Hexachloroethane	NELAP	0.184	0.55		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Indeno(1,2,3-cd)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Isophorone	NELAP	0.13	0.385		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
m,p-Cresol	NELAP	0.139	0.55		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Naphthalene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Nitrobenzene	NELAP	0.138	0.55		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
N-Nitroso-di-n-propylamine	NELAP	0.121	0.55		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
N-Nitrosodiphenylamine	NELAP	0.101	0.55		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
o-Cresol	NELAP	0.13	0.55		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Pentachlorophenol	NELAP	0.726	2.2		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Phenanthrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Phenol	NELAP	0.128	0.385		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 6:26	91555
Surr: 2,4,6-Tribromophenol		0	32.7-130		63.1	%REC	1	09/06/2013 6:26	91555
Surr: 2-Fluorobiphenyl		0	34.1-116		64.3	%REC	1	09/06/2013 6:26	91555
Surr: 2-Fluorophenol		0	30.5-99		60.1	%REC	1	09/06/2013 6:26	91555
Surr: Nitrobenzene-d5		0	34.1-101		62.7	%REC	1	09/06/2013 6:26	91555
Surr: Phenol-d5		0	34.9-110		63.4	%REC	1	09/06/2013 6:26	91555
Surr: p-Terphenyl-d14		0	41.7-124		69.7	%REC	1	09/06/2013 6:26	91555

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
1,1,2,2-Tetrachloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
1,1,2-Trichloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
1,1-Dichloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
1,1-Dichloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
1,2-Dichloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
1,2-Dichloropropane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
1,3-Dichloropropene, Total		0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
2-Butanone	NELAP	0.007	0.035		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
2-Hexanone	NELAP	0.007	0.035		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
4-Methyl-2-pentanone	NELAP	0.007	0.035		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
Acetone	NELAP	0.007	0.035	J	0.009	mg/Kg-dry	1	09/07/2013 20:45	91748
Benzene	NELAP	0.0003	0.001		0.002	mg/Kg-dry	1	09/07/2013 20:45	91748
Bromodichloromethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 20:45	91748



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-010

Client Sample ID: 1467V-1-B11-1

Matrix: SOLID

Collection Date: 08/29/2013 17:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
Bromomethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
Carbon disulfide	NELAP	0.0021	0.003		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
Carbon tetrachloride	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
Chlorobenzene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
Chloroethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
Chloroform	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
Chloromethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
cis-1,2-Dichloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
cis-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
Dibromochloromethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
Ethylbenzene	NELAP	0.0007	0.003	J	0.001	mg/Kg-dry	1	09/07/2013 20:45	91748
m,p-Xylenes	NELAP	0.0007	0.003	J	0.001	mg/Kg-dry	1	09/07/2013 20:45	91748
Methyl tert-butyl ether	NELAP	0.0003	0.001		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
Methylene chloride	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
o-Xylene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
Styrene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
Tetrachloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
Toluene	NELAP	0.0007	0.003	J	0.003	mg/Kg-dry	1	09/07/2013 20:45	91748
trans-1,2-Dichloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
trans-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
Trichloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
Vinyl acetate	NELAP	0.0139	0.035		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
Vinyl chloride	NELAP	0.0003	0.001		ND	mg/Kg-dry	1	09/07/2013 20:45	91748
Xylenes, Total	NELAP	0.0007	0.003	J	0.001	mg/Kg-dry	1	09/07/2013 20:45	91748
Surr: 1,2-Dichloroethane-d4			0 72.2-131		107.6	%REC	1	09/07/2013 20:45	91748
Surr: 4-Bromofluorobenzene			0 82.1-116		101.2	%REC	1	09/07/2013 20:45	91748
Surr: Dibromofluoromethane			0 77.7-120		101.5	%REC	1	09/07/2013 20:45	91748
Surr: Toluene-d8			0 86-116		101.2	%REC	1	09/07/2013 20:45	91748

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-011

Client Sample ID: 1467V-1-B11-2

Matrix: SOLID

Collection Date: 08/29/2013 17:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		16.6	%	1	09/03/2013 12:33	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		83.4	%	1	09/03/2013 12:33	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.24		1	09/03/2013 15:18	R181368
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.05	0.1	J	0.0828	mg/L	1	09/11/2013 15:41	91780
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/11/2013 15:41	91780
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0461	mg/L	1	09/06/2013 12:53	91677
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 12:53	91677
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 12:53	91677
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 12:53	91677
Chromium	NELAP	0.004	0.01	J	0.007	mg/L	1	09/06/2013 12:53	91677
Cobalt	NELAP	0.0022	0.01	J	0.0027	mg/L	1	09/06/2013 12:53	91677
Iron	NELAP	0.007	0.02	X	6.44	mg/L	1	09/06/2013 12:53	91677
Lead	NELAP	0.006	0.007	X	0.0106	mg/L	1	09/06/2013 12:53	91677
Manganese	NELAP	0.0016	0.005		0.0564	mg/L	1	09/06/2013 12:53	91677
Nickel	NELAP	0.0033	0.01	J	0.0062	mg/L	1	09/06/2013 12:53	91677
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 12:53	91677
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 12:53	91677
Zinc	NELAP	0.0021	0.01		0.0193	mg/L	1	09/06/2013 12:53	91677
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 19:58	91680
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 17:08	91680
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/06/2013 12:47	91686
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.31	4.63		4880	mg/Kg-dry	1	09/04/2013 19:50	91573
Antimony	NELAP	2.36	4.55		< 4.55	mg/Kg-dry	1	09/05/2013 23:32	91623
Arsenic	NELAP	1.16	2.31		8.59	mg/Kg-dry	1	09/04/2013 19:50	91573
Barium	NELAP	0.23	0.46		28.5	mg/Kg-dry	1	09/04/2013 19:50	91573
Beryllium	NELAP	0.05	0.09		0.33	mg/Kg-dry	1	09/04/2013 19:50	91573
Boron	NELAP	0.93	1.85		7.75	mg/Kg-dry	1	09/04/2013 19:50	91573
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	09/04/2013 19:50	91573
Calcium	NELAP	2.31	4.63		79500	mg/Kg-dry	1	09/04/2013 19:50	91573
Chromium	NELAP	0.46	0.93		10.2	mg/Kg-dry	1	09/04/2013 19:50	91573
Cobalt	NELAP	0.46	0.93		3.02	mg/Kg-dry	1	09/04/2013 19:50	91573
Copper	NELAP	0.46	0.93		11.8	mg/Kg-dry	1	09/04/2013 19:50	91573
Iron	NELAP	0.93	1.85	X	21300	mg/Kg-dry	1	09/04/2013 19:50	91573
Lead	NELAP	1.85	3.7		10.3	mg/Kg-dry	1	09/04/2013 19:50	91573
Magnesium	NELAP	0.46	0.93	B	36400	mg/Kg-dry	1	09/04/2013 19:50	91573
Manganese	NELAP	0.23	0.46		214	mg/Kg-dry	1	09/04/2013 19:50	91573
Nickel	NELAP	0.46	0.93		8.88	mg/Kg-dry	1	09/04/2013 19:50	91573
Potassium	NELAP	4.63	9.26		1360	mg/Kg-dry	1	09/05/2013 19:03	91573
Silver	NELAP	0.46	0.51		< 0.51	mg/Kg-dry	1	09/04/2013 19:50	91573

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-011

Client Sample ID: 1467V-1-B11-2

Matrix: SOLID

Collection Date: 08/29/2013 17:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Sodium	NELAP	2.31	4.63		148	mg/Kg-dry	1	09/04/2013 19:50	91573
Thallium	NELAP	2.31	2.41		< 2.41	mg/Kg-dry	1	09/04/2013 19:50	91573
Vanadium	NELAP	0.46	0.93		17.4	mg/Kg-dry	1	09/04/2013 19:50	91573
Zinc	NELAP	0.46	0.93		32.2	mg/Kg-dry	1	09/04/2013 19:50	91573
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.343	0.588		< 0.588	mg/Kg-dry	1	09/09/2013 15:44	91588
SW-846 7471B									
Mercury	NELAP	0.003	0.011		0.012	mg/Kg-dry	1	09/04/2013 13:02	91563
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.159	0.597		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
1,2-Dichlorobenzene	NELAP	0.19	0.597		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
1,3-Dichlorobenzene	NELAP	0.201	0.597		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
1,4-Dichlorobenzene	NELAP	0.19	0.597		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
2,4,5-Trichlorophenol	NELAP	0.114	0.418		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
2,4,6-Trichlorophenol	NELAP	0.151	0.418		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
2,4-Dichlorophenol	NELAP	0.145	0.597		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
2,4-Dimethylphenol	NELAP	0.152	0.597		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
2,4-Dinitrophenol	NELAP	0.128	1.19		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
2,4-Dinitrotoluene	NELAP	0.124	0.418		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
2,6-Dinitrotoluene	NELAP	0.129	0.418		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
2-Chloronaphthalene	NELAP	0.143	0.418		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
2-Chlorophenol	NELAP	0.152	0.597		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
2-Methylnaphthalene	NELAP	0.142	0.418		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
2-Nitroaniline	NELAP	0.109	1.19		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
2-Nitrophenol	NELAP	0.134	0.418		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
3,3'-Dichlorobenzidine	NELAP	0.239	0.418		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
3-Nitroaniline	NELAP	0.098	1.19		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
4,6-Dinitro-2-methylphenol	NELAP	0.129	1.19		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
4-Bromophenyl phenyl ether	NELAP	0.11	0.418		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
4-Chloro-3-methylphenol	NELAP	0.131	0.597		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
4-Chloroaniline	NELAP	0.145	0.597		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
4-Chlorophenyl phenyl ether	NELAP	0.118	0.418		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
4-Nitroaniline	NELAP	0.109	0.597		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
4-Nitrophenol	NELAP	0.117	0.418		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Acenaphthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Acenaphthylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Benzo(a)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Benzo(a)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Benzo(b)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Benzo(g,h,i)perylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Benzo(k)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Bis(2-chloroethoxy)methane	NELAP	0.14	0.418		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Bis(2-chloroethyl)ether	NELAP	0.17	0.597		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Bis(2-chloroisopropyl)ether	NELAP	0.136	0.418		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Bis(2-ethylhexyl)phthalate	NELAP	0.14	0.418		ND	mg/Kg-dry	1	09/06/2013 6:58	91555

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-011

Client Sample ID: 1467V-1-B11-2

Matrix: SOLID

Collection Date: 08/29/2013 17:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Butyl benzyl phthalate	NELAP	0.121	0.418		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Carbazole		0.146	0.597		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Chrysene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Dibenzo(a,h)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Dibenzofuran	NELAP	0.151	0.418		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Diethyl phthalate	NELAP	0.115	0.597		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Dimethyl phthalate	NELAP	0.109	0.418		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Di-n-butyl phthalate	NELAP	0.123	0.418		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Di-n-octyl phthalate	NELAP	0.124	0.418		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Fluorene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Hexachlorobenzene	NELAP	0.117	0.418		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Hexachlorobutadiene	NELAP	0.185	0.597		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Hexachlorocyclopentadiene	NELAP	0.122	0.418		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Hexachloroethane	NELAP	0.2	0.597		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Isophorone	NELAP	0.141	0.418		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
m,p-Cresol	NELAP	0.151	0.597		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Naphthalene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Nitrobenzene	NELAP	0.149	0.597		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
N-Nitroso-di-n-propylamine	NELAP	0.131	0.597		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
N-Nitrosodiphenylamine	NELAP	0.11	0.597		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
o-Cresol	NELAP	0.141	0.597		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Pentachlorophenol	NELAP	0.789	2.39		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Phenanthrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Phenol	NELAP	0.139	0.418		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 6:58	91555
Surr: 2,4,6-Tribromophenol		0	32.7-130		61.1	%REC	1	09/06/2013 6:58	91555
Surr: 2-Fluorobiphenyl		0	34.1-116		58.3	%REC	1	09/06/2013 6:58	91555
Surr: 2-Fluorophenol		0	30.5-99		66.1	%REC	1	09/06/2013 6:58	91555
Surr: Nitrobenzene-d5		0	34.1-101		62.7	%REC	1	09/06/2013 6:58	91555
Surr: Phenol-d5		0	34.9-110		68	%REC	1	09/06/2013 6:58	91555
Surr: p-Terphenyl-d14		0	41.7-124		76.5	%REC	1	09/06/2013 6:58	91555
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
1,1,2,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
2-Butanone	NELAP	0.0079	0.039		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
2-Hexanone	NELAP	0.0079	0.039		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
4-Methyl-2-pentanone	NELAP	0.0079	0.039		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
Acetone	NELAP	0.0079	0.039		0.109	mg/Kg-dry	1	09/07/2013 21:12	91748
Benzene	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/07/2013 21:12	91748

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-011

Client Sample ID: 1467V-1-B11-2

Matrix: SOLID

Collection Date: 08/29/2013 17:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
Bromomethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
Carbon disulfide	NELAP	0.0024	0.004		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
Chloroethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
Chloromethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
Ethylbenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
m,p-Xylenes	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/07/2013 21:12	91748
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
Methylene chloride	NELAP	0.0008	0.004	J	0.003	mg/Kg-dry	1	09/07/2013 21:12	91748
o-Xylene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
Toluene	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/07/2013 21:12	91748
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
Vinyl acetate	NELAP	0.0157	0.039		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/07/2013 21:12	91748
Xylenes, Total	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/07/2013 21:12	91748
Surr: 1,2-Dichloroethane-d4		0	72.2-131		106.5	%REC	1	09/07/2013 21:12	91748
Surr: 4-Bromofluorobenzene		0	82.1-116		106.8	%REC	1	09/07/2013 21:12	91748
Surr: Dibromofluoromethane		0	77.7-120		100.8	%REC	1	09/07/2013 21:12	91748
Surr: Toluene-d8		0	86-116		102.2	%REC	1	09/07/2013 21:12	91748

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-012

Client Sample ID: 1467V-1-B20

Matrix: SOLID

Collection Date: 08/29/2013 17:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		20.5	%	1	09/03/2013 12:33	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		79.5	%	1	09/03/2013 12:33	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.09		1	09/03/2013 15:22	R181368
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.382	mg/L	1	09/11/2013 14:07	91773
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0938	mg/L	1	09/06/2013 12:57	91677
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 12:57	91677
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 12:57	91677
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 12:57	91677
Chromium	NELAP	0.004	0.01		0.0136	mg/L	1	09/06/2013 12:57	91677
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/06/2013 12:57	91677
Iron	NELAP	0.007	0.02	X	10.1	mg/L	1	09/06/2013 12:57	91677
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 12:57	91677
Manganese	NELAP	0.0016	0.005		0.0332	mg/L	1	09/06/2013 12:57	91677
Nickel	NELAP	0.0033	0.01	J	0.0084	mg/L	1	09/06/2013 12:57	91677
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 12:57	91677
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 12:57	91677
Zinc	NELAP	0.0021	0.01		0.0316	mg/L	1	09/06/2013 12:57	91677
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 20:02	91680
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 17:12	91680
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/06/2013 12:49	91686
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.4	4.81		18800	mg/Kg-dry	1	09/04/2013 19:56	91573
Antimony	NELAP	2.5	4.81		< 4.81	mg/Kg-dry	1	09/05/2013 23:36	91623
Arsenic	NELAP	1.2	2.4		6.51	mg/Kg-dry	1	09/04/2013 19:56	91573
Barium	NELAP	0.24	0.48		149	mg/Kg-dry	1	09/04/2013 19:56	91573
Beryllium	NELAP	0.05	0.1		0.78	mg/Kg-dry	1	09/04/2013 19:56	91573
Boron	NELAP	0.96	1.92		4.95	mg/Kg-dry	1	09/04/2013 19:56	91573
Cadmium	NELAP	0.1	0.19		< 0.19	mg/Kg-dry	1	09/04/2013 19:56	91573
Calcium	NELAP	2.4	4.81		4100	mg/Kg-dry	1	09/04/2013 19:56	91573
Chromium	NELAP	0.48	0.96	X	23.2	mg/Kg-dry	1	09/04/2013 19:56	91573
Cobalt	NELAP	0.48	0.96		5.82	mg/Kg-dry	1	09/04/2013 19:56	91573
Copper	NELAP	0.48	0.96		13.4	mg/Kg-dry	1	09/04/2013 19:56	91573
Iron	NELAP	0.96	1.92	X	20300	mg/Kg-dry	1	09/04/2013 19:56	91573
Lead	NELAP	1.92	3.85		14.8	mg/Kg-dry	1	09/04/2013 19:56	91573
Magnesium	NELAP	0.48	0.96	B	3600	mg/Kg-dry	1	09/04/2013 19:56	91573
Manganese	NELAP	0.24	0.48		264	mg/Kg-dry	1	09/04/2013 19:56	91573
Nickel	NELAP	0.48	0.96		14.8	mg/Kg-dry	1	09/04/2013 19:56	91573
Potassium	NELAP	4.81	9.62		1410	mg/Kg-dry	1	09/05/2013 19:09	91573
Silver	NELAP	0.48	0.53		< 0.53	mg/Kg-dry	1	09/04/2013 19:56	91573
Sodium	NELAP	2.4	4.81		1280	mg/Kg-dry	1	09/04/2013 19:56	91573

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-012

Client Sample ID: 1467V-1-B20

Matrix: SOLID

Collection Date: 08/29/2013 17:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.4	2.5		< 2.5	mg/Kg-dry	1	09/04/2013 19:56	91573
Vanadium	NELAP	0.48	0.96		39	mg/Kg-dry	1	09/04/2013 19:56	91573
Zinc	NELAP	0.48	0.96		52.3	mg/Kg-dry	1	09/04/2013 19:56	91573
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.35	0.6		< 0.6	mg/Kg-dry	1	09/09/2013 15:48	91588
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.038	mg/Kg-dry	1	09/04/2013 13:13	91563
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.167	0.626		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
1,2-Dichlorobenzene	NELAP	0.199	0.626		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
1,3-Dichlorobenzene	NELAP	0.21	0.626		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
1,4-Dichlorobenzene	NELAP	0.199	0.626		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
2,4,5-Trichlorophenol	NELAP	0.119	0.438		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
2,4,6-Trichlorophenol	NELAP	0.158	0.438		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
2,4-Dichlorophenol	NELAP	0.152	0.626		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
2,4-Dimethylphenol	NELAP	0.159	0.626		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
2,4-Dinitrophenol	NELAP	0.134	1.25		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
2,4-Dinitrotoluene	NELAP	0.13	0.438		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
2,6-Dinitrotoluene	NELAP	0.135	0.438		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
2-Chloronaphthalene	NELAP	0.15	0.438		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
2-Chlorophenol	NELAP	0.159	0.626		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
2-Methylnaphthalene	NELAP	0.149	0.438		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
2-Nitroaniline	NELAP	0.114	1.25		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
2-Nitrophenol	NELAP	0.14	0.438		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
3,3'-Dichlorobenzidine	NELAP	0.251	0.438		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
3-Nitroaniline	NELAP	0.103	1.25		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
4,6-Dinitro-2-methylphenol	NELAP	0.135	1.25		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
4-Bromophenyl phenyl ether	NELAP	0.115	0.438		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
4-Chloro-3-methylphenol	NELAP	0.138	0.626		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
4-Chloroaniline	NELAP	0.152	0.626		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
4-Chlorophenyl phenyl ether	NELAP	0.124	0.438		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
4-Nitroaniline	NELAP	0.114	0.626		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
4-Nitrophenol	NELAP	0.123	0.438		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Acenaphthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Acenaphthylene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Anthracene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Benzo(a)anthracene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Benzo(a)pyrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Benzo(b)fluoranthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Benzo(g,h,i)perylene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Benzo(k)fluoranthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Bis(2-chloroethoxy)methane	NELAP	0.147	0.438		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Bis(2-chloroethyl)ether	NELAP	0.178	0.626		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Bis(2-chloroisopropyl)ether	NELAP	0.143	0.438		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Bis(2-ethylhexyl)phthalate	NELAP	0.147	0.438		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Butyl benzyl phthalate	NELAP	0.127	0.438		ND	mg/Kg-dry	1	09/06/2013 7:31	91555

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-012

Client Sample ID: 1467V-1-B20

Matrix: SOLID

Collection Date: 08/29/2013 17:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.153	0.626		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Chrysene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Dibenzo(a,h)anthracene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Dibenzofuran	NELAP	0.158	0.438		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Diethyl phthalate	NELAP	0.12	0.626		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Dimethyl phthalate	NELAP	0.114	0.438		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Di-n-butyl phthalate	NELAP	0.129	0.438		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Di-n-octyl phthalate	NELAP	0.13	0.438		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Fluoranthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Fluorene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Hexachlorobenzene	NELAP	0.123	0.438		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Hexachlorobutadiene	NELAP	0.194	0.626		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Hexachlorocyclopentadiene	NELAP	0.128	0.438		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Hexachloroethane	NELAP	0.209	0.626		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Indeno(1,2,3-cd)pyrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Isophorone	NELAP	0.148	0.438		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
m,p-Cresol	NELAP	0.158	0.626		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Naphthalene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Nitrobenzene	NELAP	0.157	0.626		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
N-Nitroso-di-n-propylamine	NELAP	0.138	0.626		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
N-Nitrosodiphenylamine	NELAP	0.115	0.626		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
o-Cresol	NELAP	0.148	0.626		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Pentachlorophenol	NELAP	0.827	2.51		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Phenanthrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Phenol	NELAP	0.145	0.438		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Pyrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/06/2013 7:31	91555
Surr: 2,4,6-Tribromophenol		0	32.7-130		63.9	%REC	1	09/06/2013 7:31	91555
Surr: 2-Fluorobiphenyl		0	34.1-116		50.3	%REC	1	09/06/2013 7:31	91555
Surr: 2-Fluorophenol		0	30.5-99		62.4	%REC	1	09/06/2013 7:31	91555
Surr: Nitrobenzene-d5		0	34.1-101		66.2	%REC	1	09/06/2013 7:31	91555
Surr: Phenol-d5		0	34.9-110		67.8	%REC	1	09/06/2013 7:31	91555
Surr: p-Terphenyl-d14		0	41.7-124		73.5	%REC	1	09/06/2013 7:31	91555
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
1,1,2-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
1,1-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
1,1-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
1,2-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
1,2-Dichloropropane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
1,3-Dichloropropene, Total		0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
2-Butanone	NELAP	0.0092	0.046		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
2-Hexanone	NELAP	0.0092	0.046		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
4-Methyl-2-pentanone	NELAP	0.0092	0.046		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
Acetone	NELAP	0.0092	0.046	J	0.039	mg/Kg-dry	1	09/07/2013 21:38	91748
Benzene	NELAP	0.0005	0.001		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
Bromodichloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-012

Client Sample ID: 1467V-1-B20

Matrix: SOLID

Collection Date: 08/29/2013 17:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
Bromomethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
Carbon disulfide	NELAP	0.0028	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
Carbon tetrachloride	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
Chlorobenzene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
Chloroethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
Chloroform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
Chloromethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
cis-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
cis-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
Dibromochloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
Ethylbenzene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
m,p-Xylenes	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
Methylene chloride	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
o-Xylene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
Styrene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
Tetrachloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
Toluene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
trans-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
trans-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
Trichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
Vinyl acetate	NELAP	0.0183	0.046		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
Xylenes, Total	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/07/2013 21:38	91748
Surr: 1,2-Dichloroethane-d4		0	72.2-131		105.7	%REC	1	09/07/2013 21:38	91748
Surr: 4-Bromofluorobenzene		0	82.1-116		102.8	%REC	1	09/07/2013 21:38	91748
Surr: Dibromofluoromethane		0	77.7-120		101.4	%REC	1	09/07/2013 21:38	91748
Surr: Toluene-d8		0	86-116		102.7	%REC	1	09/07/2013 21:38	91748

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-013

Client Sample ID: 1467V-1-B12-1

Matrix: SOLID

Collection Date: 08/29/2013 17:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		12.1	%	1	09/03/2013 12:33	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		87.9	%	1	09/03/2013 12:33	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.46		1	09/03/2013 15:27	R181368
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.102	mg/L	1	09/11/2013 14:14	91773
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/11/2013 14:14	91773
Manganese	NELAP	0.0016	0.005		0.544	mg/L	1	09/11/2013 14:14	91773
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.154	mg/L	1	09/06/2013 13:01	91677
Beryllium	NELAP	0.0003	0.001	J	0.0006	mg/L	1	09/06/2013 13:01	91677
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 13:01	91677
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 13:01	91677
Chromium	NELAP	0.004	0.01		0.0238	mg/L	1	09/06/2013 13:01	91677
Cobalt	NELAP	0.0022	0.01	J	0.0063	mg/L	1	09/06/2013 13:01	91677
Iron	NELAP	0.007	0.02	X	22.2	mg/L	1	09/06/2013 13:01	91677
Lead	NELAP	0.006	0.007	X	0.0089	mg/L	1	09/06/2013 13:01	91677
Manganese	NELAP	0.0016	0.005	X	0.163	mg/L	1	09/06/2013 13:01	91677
Nickel	NELAP	0.0033	0.01		0.02	mg/L	1	09/06/2013 13:01	91677
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 13:01	91677
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 13:01	91677
Zinc	NELAP	0.0021	0.01		0.0577	mg/L	1	09/06/2013 13:01	91677
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 20:06	91680
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 17:15	91680
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/06/2013 12:52	91686
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.36	4.72		9060	mg/Kg-dry	1	09/04/2013 20:02	91573
Antimony	NELAP	2.45	4.72		< 4.72	mg/Kg-dry	1	09/05/2013 23:39	91623
Arsenic	NELAP	1.18	2.36		4.63	mg/Kg-dry	1	09/04/2013 20:02	91573
Barium	NELAP	0.24	0.47		62.2	mg/Kg-dry	1	09/04/2013 20:02	91573
Beryllium	NELAP	0.05	0.09		0.52	mg/Kg-dry	1	09/04/2013 20:02	91573
Boron	NELAP	0.94	1.89		10.9	mg/Kg-dry	1	09/04/2013 20:02	91573
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	09/04/2013 20:02	91573
Calcium	NELAP	2.36	4.72		68500	mg/Kg-dry	1	09/04/2013 20:02	91573
Chromium	NELAP	0.47	0.94	X	14.5	mg/Kg-dry	1	09/04/2013 20:02	91573
Cobalt	NELAP	0.47	0.94		5.65	mg/Kg-dry	1	09/04/2013 20:02	91573
Copper	NELAP	0.47	0.94		13.3	mg/Kg-dry	1	09/04/2013 20:02	91573
Iron	NELAP	0.94	1.89		14000	mg/Kg-dry	1	09/04/2013 20:02	91573
Lead	NELAP	1.89	3.77		6.16	mg/Kg-dry	1	09/04/2013 20:02	91573
Magnesium	NELAP	0.47	0.94	B	33900	mg/Kg-dry	1	09/04/2013 20:02	91573
Manganese	NELAP	0.24	0.47		299	mg/Kg-dry	1	09/04/2013 20:02	91573
Nickel	NELAP	0.47	0.94		14.2	mg/Kg-dry	1	09/04/2013 20:02	91573
Potassium	NELAP	4.72	9.43		1900	mg/Kg-dry	1	09/05/2013 19:15	91573

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-013

Client Sample ID: 1467V-1-B12-1

Matrix: SOLID

Collection Date: 08/29/2013 17:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Silver	NELAP	0.47	0.52		< 0.52	mg/Kg-dry	1	09/04/2013 20:02	91573
Sodium	NELAP	2.36	4.72		1490	mg/Kg-dry	1	09/04/2013 20:02	91573
Thallium	NELAP	2.36	2.45		< 2.45	mg/Kg-dry	1	09/04/2013 20:02	91573
Vanadium	NELAP	0.47	0.94		20.4	mg/Kg-dry	1	09/04/2013 20:02	91573
Zinc	NELAP	0.47	0.94		28.6	mg/Kg-dry	1	09/04/2013 20:02	91573
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.33	0.566		< 0.566	mg/Kg-dry	1	09/09/2013 15:51	91588
SW-846 7471B									
Mercury	NELAP	0.003	0.011		0.016	mg/Kg-dry	1	09/04/2013 13:15	91563
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.152	0.571		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
1,2-Dichlorobenzene	NELAP	0.181	0.571		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
1,3-Dichlorobenzene	NELAP	0.192	0.571		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
1,4-Dichlorobenzene	NELAP	0.181	0.571		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
2,4,5-Trichlorophenol	NELAP	0.108	0.399		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
2,4,6-Trichlorophenol	NELAP	0.144	0.399		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
2,4-Dichlorophenol	NELAP	0.138	0.571		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
2,4-Dimethylphenol	NELAP	0.145	0.571		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
2,4-Dinitrophenol	NELAP	0.122	1.14		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
2,4-Dinitrotoluene	NELAP	0.119	0.399		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
2,6-Dinitrotoluene	NELAP	0.123	0.399		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
2-Chloronaphthalene	NELAP	0.137	0.399		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
2-Chlorophenol	NELAP	0.145	0.571		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
2-Methylnaphthalene	NELAP	0.136	0.399		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
2-Nitroaniline	NELAP	0.104	1.14		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
2-Nitrophenol	NELAP	0.128	0.399		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
3,3'-Dichlorobenzidine	NELAP	0.228	0.399		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
3-Nitroaniline	NELAP	0.094	1.14		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
4,6-Dinitro-2-methylphenol	NELAP	0.123	1.14		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
4-Bromophenyl phenyl ether	NELAP	0.105	0.399		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
4-Chloro-3-methylphenol	NELAP	0.126	0.571		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
4-Chloroaniline	NELAP	0.138	0.571		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
4-Chlorophenyl phenyl ether	NELAP	0.113	0.399		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
4-Nitroaniline	NELAP	0.104	0.571		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
4-Nitrophenol	NELAP	0.112	0.399		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Acenaphthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Acenaphthylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Benzo(a)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Benzo(a)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Benzo(b)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Benzo(g,h,i)perylene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Benzo(k)fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Bis(2-chloroethoxy)methane	NELAP	0.134	0.399		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Bis(2-chloroethyl)ether	NELAP	0.162	0.571		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Bis(2-chloroisopropyl)ether	NELAP	0.13	0.399		ND	mg/Kg-dry	1	09/07/2013 2:25	91555

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-013

Client Sample ID: 1467V-1-B12-1

Matrix: SOLID

Collection Date: 08/29/2013 17:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bis(2-ethylhexyl)phthalate	NELAP	0.134	0.399		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Butyl benzyl phthalate	NELAP	0.115	0.399		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Carbazole		0.139	0.571		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Chrysene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Dibenzo(a,h)anthracene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Dibenzofuran	NELAP	0.144	0.399		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Diethyl phthalate	NELAP	0.11	0.571		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Dimethyl phthalate	NELAP	0.104	0.399		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Di-n-butyl phthalate	NELAP	0.118	0.399		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Di-n-octyl phthalate	NELAP	0.119	0.399		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Fluoranthene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Fluorene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Hexachlorobenzene	NELAP	0.112	0.399		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Hexachlorobutadiene	NELAP	0.177	0.571		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Hexachlorocyclopentadiene	NELAP	0.116	0.399		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Hexachloroethane	NELAP	0.191	0.571		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Isophorone	NELAP	0.135	0.399		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
m,p-Cresol	NELAP	0.144	0.571		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Naphthalene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Nitrobenzene	NELAP	0.143	0.571		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
N-Nitroso-di-n-propylamine	NELAP	0.126	0.571		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
N-Nitrosodiphenylamine	NELAP	0.105	0.571		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
o-Cresol	NELAP	0.135	0.571		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Pentachlorophenol	NELAP	0.753	2.28		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Phenanthrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Phenol	NELAP	0.132	0.399		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Pyrene	NELAP	0.019	0.039		ND	mg/Kg-dry	1	09/07/2013 2:25	91555
Surr: 2,4,6-Tribromophenol		0	32.7-130		59.4	%REC	1	09/07/2013 2:25	91555
Surr: 2-Fluorobiphenyl		0	34.1-116		62.5	%REC	1	09/07/2013 2:25	91555
Surr: 2-Fluorophenol		0	30.5-99		65.8	%REC	1	09/07/2013 2:25	91555
Surr: Nitrobenzene-d5		0	34.1-101		70.1	%REC	1	09/07/2013 2:25	91555
Surr: Phenol-d5		0	34.9-110		67.3	%REC	1	09/07/2013 2:25	91555
Surr: p-Terphenyl-d14		0	41.7-124		72.6	%REC	1	09/07/2013 2:25	91555

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
1,1,2,2-Tetrachloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
1,1,2-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
1,1-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
1,1-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
1,2-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
1,2-Dichloropropane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
1,3-Dichloropropene, Total		0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
2-Butanone	NELAP	0.0073	0.037		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
2-Hexanone	NELAP	0.0073	0.037		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
4-Methyl-2-pentanone	NELAP	0.0073	0.037		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
Acetone	NELAP	0.0073	0.037		ND	mg/Kg-dry	1	09/07/2013 22:05	91748



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-013

Client Sample ID: 1467V-1-B12-1

Matrix: SOLID

Collection Date: 08/29/2013 17:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.0004	0.001		0.003	mg/Kg-dry	1	09/07/2013 22:05	91748
Bromodichloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
Bromoform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
Bromomethane	NELAP	0.0015	0.007		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
Carbon disulfide	NELAP	0.0022	0.004		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
Carbon tetrachloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
Chlorobenzene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
Chloroethane	NELAP	0.0015	0.007		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
Chloroform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
Chloromethane	NELAP	0.0015	0.007		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
cis-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
cis-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
Dibromochloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
Ethylbenzene	NELAP	0.0007	0.004	J	0.002	mg/Kg-dry	1	09/07/2013 22:05	91748
m,p-Xylenes	NELAP	0.0007	0.004	J	0.003	mg/Kg-dry	1	09/07/2013 22:05	91748
Methyl tert-butyl ether	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
Methylene chloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
o-Xylene	NELAP	0.0007	0.004	J	0.001	mg/Kg-dry	1	09/07/2013 22:05	91748
Styrene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
Tetrachloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
Toluene	NELAP	0.0007	0.004		0.006	mg/Kg-dry	1	09/07/2013 22:05	91748
trans-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
trans-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
Trichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
Vinyl acetate	NELAP	0.0146	0.037		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
Vinyl chloride	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/07/2013 22:05	91748
Xylenes, Total	NELAP	0.0007	0.004		0.004	mg/Kg-dry	1	09/07/2013 22:05	91748
Surr: 1,2-Dichloroethane-d4		0	72.2-131		106.6	%REC	1	09/07/2013 22:05	91748
Surr: 4-Bromofluorobenzene		0	82.1-116		101.5	%REC	1	09/07/2013 22:05	91748
Surr: Dibromofluoromethane		0	77.7-120		102.4	%REC	1	09/07/2013 22:05	91748
Surr: Toluene-d8		0	86-116		100.6	%REC	1	09/07/2013 22:05	91748

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-014

Client Sample ID: 1467V-1-B12-2

Matrix: SOLID

Collection Date: 08/29/2013 17:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		17.9	%	1	09/03/2013 12:34	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		82.1	%	1	09/03/2013 12:34	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.5		1	09/03/2013 15:30	R181368
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0167	mg/L	1	09/06/2013 13:04	91677
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 13:04	91677
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 13:04	91677
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 13:04	91677
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/06/2013 13:04	91677
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/06/2013 13:04	91677
Iron	NELAP	0.007	0.02		1.49	mg/L	1	09/06/2013 13:04	91677
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 13:04	91677
Manganese	NELAP	0.0016	0.005		0.0118	mg/L	1	09/06/2013 13:04	91677
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/06/2013 13:04	91677
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 13:04	91677
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 13:04	91677
Zinc	NELAP	0.0021	0.01		0.0108	mg/L	1	09/06/2013 13:04	91677
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 20:10	91680
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 17:19	91680
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/06/2013 12:54	91686
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.36	4.72		4980	mg/Kg-dry	1	09/04/2013 20:08	91573
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	09/05/2013 23:43	91623
Arsenic	NELAP	1.18	2.36		3.19	mg/Kg-dry	1	09/04/2013 20:08	91573
Barium	NELAP	0.24	0.47		27.4	mg/Kg-dry	1	09/04/2013 20:08	91573
Beryllium	NELAP	0.05	0.09		0.31	mg/Kg-dry	1	09/04/2013 20:08	91573
Boron	NELAP	0.94	1.89		7.52	mg/Kg-dry	1	09/04/2013 20:08	91573
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	09/04/2013 20:08	91573
Calcium	NELAP	2.36	4.72		68000	mg/Kg-dry	1	09/04/2013 20:08	91573
Chromium	NELAP	0.47	0.94		8.68	mg/Kg-dry	1	09/04/2013 20:08	91573
Cobalt	NELAP	0.47	0.94		3.75	mg/Kg-dry	1	09/04/2013 20:08	91573
Copper	NELAP	0.47	0.94		9.77	mg/Kg-dry	1	09/04/2013 20:08	91573
Iron	NELAP	0.94	1.89		9580	mg/Kg-dry	1	09/04/2013 20:08	91573
Lead	NELAP	1.89	3.77		4.08	mg/Kg-dry	1	09/04/2013 20:08	91573
Magnesium	NELAP	0.47	0.94	B	34100	mg/Kg-dry	1	09/04/2013 20:08	91573
Manganese	NELAP	0.24	0.47		301	mg/Kg-dry	1	09/04/2013 20:08	91573
Nickel	NELAP	0.47	0.94		9.3	mg/Kg-dry	1	09/04/2013 20:08	91573
Potassium	NELAP	4.72	9.43		1240	mg/Kg-dry	1	09/05/2013 19:22	91573
Silver	NELAP	0.47	0.52		< 0.52	mg/Kg-dry	1	09/04/2013 20:08	91573
Sodium	NELAP	2.36	4.72		376	mg/Kg-dry	1	09/04/2013 20:08	91573
Thallium	NELAP	2.36	2.45		< 2.45	mg/Kg-dry	1	09/04/2013 20:08	91573
Vanadium	NELAP	0.47	0.94		13.8	mg/Kg-dry	1	09/04/2013 20:08	91573
Zinc	NELAP	0.47	0.94		21.1	mg/Kg-dry	1	09/04/2013 20:08	91573

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-014

Client Sample ID: 1467V-1-B12-2

Matrix: SOLID

Collection Date: 08/29/2013 17:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.35	0.6		< 0.6	mg/Kg-dry	1	09/09/2013 15:54	91588
SW-846 7471B									
Mercury	NELAP	0.003	0.012	J	0.009	mg/Kg-dry	1	09/04/2013 13:17	91563
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.161	0.605		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
1,2-Dichlorobenzene	NELAP	0.192	0.605		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
1,3-Dichlorobenzene	NELAP	0.203	0.605		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
1,4-Dichlorobenzene	NELAP	0.192	0.605		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
2,4,5-Trichlorophenol	NELAP	0.115	0.423		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
2,4,6-Trichlorophenol	NELAP	0.152	0.423		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
2,4-Dichlorophenol	NELAP	0.146	0.605		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
2,4-Dimethylphenol	NELAP	0.154	0.605		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
2,4-Dinitrophenol	NELAP	0.129	1.21		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
2,4-Dinitrotoluene	NELAP	0.126	0.423		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
2,6-Dinitrotoluene	NELAP	0.131	0.423		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
2-Chloronaphthalene	NELAP	0.145	0.423		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
2-Chlorophenol	NELAP	0.154	0.605		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
2-Methylnaphthalene	NELAP	0.144	0.423		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
2-Nitroaniline	NELAP	0.11	1.21		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
2-Nitrophenol	NELAP	0.135	0.423		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
3,3'-Dichlorobenzidine	NELAP	0.242	0.423		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
3-Nitroaniline	NELAP	0.099	1.21		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
4,6-Dinitro-2-methylphenol	NELAP	0.131	1.21		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
4-Bromophenyl phenyl ether	NELAP	0.111	0.423		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
4-Chloro-3-methylphenol	NELAP	0.133	0.605		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
4-Chloroaniline	NELAP	0.146	0.605		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
4-Chlorophenyl phenyl ether	NELAP	0.12	0.423		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
4-Nitroaniline	NELAP	0.11	0.605		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
4-Nitrophenol	NELAP	0.119	0.423		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Acenaphthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Acenaphthylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Benzo(a)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Benzo(a)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Benzo(b)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Benzo(g,h,i)perylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Benzo(k)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Bis(2-chloroethoxy)methane	NELAP	0.141	0.423		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Bis(2-chloroethyl)ether	NELAP	0.172	0.605		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Bis(2-chloroisopropyl)ether	NELAP	0.138	0.423		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Bis(2-ethylhexyl)phthalate	NELAP	0.141	0.423		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Butyl benzyl phthalate	NELAP	0.122	0.423		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Carbazole		0.148	0.605		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Chrysene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Dibenzo(a,h)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 8:03	91555

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-014

Client Sample ID: 1467V-1-B12-2

Matrix: SOLID

Collection Date: 08/29/2013 17:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dibenzofuran	NELAP	0.152	0.423		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Diethyl phthalate	NELAP	0.116	0.605		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Dimethyl phthalate	NELAP	0.11	0.423		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Di-n-butyl phthalate	NELAP	0.125	0.423		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Di-n-octyl phthalate	NELAP	0.126	0.423		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Fluorene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Hexachlorobenzene	NELAP	0.119	0.423		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Hexachlorobutadiene	NELAP	0.187	0.605		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Hexachlorocyclopentadiene	NELAP	0.123	0.423		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Hexachloroethane	NELAP	0.202	0.605		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Isophorone	NELAP	0.143	0.423		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
m,p-Cresol	NELAP	0.152	0.605		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Naphthalene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Nitrobenzene	NELAP	0.151	0.605		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
N-Nitroso-di-n-propylamine	NELAP	0.133	0.605		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
N-Nitrosodiphenylamine	NELAP	0.111	0.605		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
o-Cresol	NELAP	0.143	0.605		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Pentachlorophenol	NELAP	0.798	2.42		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Phenanthrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Phenol	NELAP	0.14	0.423		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 8:03	91555
Surr: 2,4,6-Tribromophenol		0	32.7-130		62.2	%REC	1	09/06/2013 8:03	91555
Surr: 2-Fluorobiphenyl		0	34.1-116		58.6	%REC	1	09/06/2013 8:03	91555
Surr: 2-Fluorophenol		0	30.5-99		61.3	%REC	1	09/06/2013 8:03	91555
Surr: Nitrobenzene-d5		0	34.1-101		61.2	%REC	1	09/06/2013 8:03	91555
Surr: Phenol-d5		0	34.9-110		64	%REC	1	09/06/2013 8:03	91555
Surr: p-Terphenyl-d14		0	41.7-124		69.8	%REC	1	09/06/2013 8:03	91555
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
1,1,2,2-Tetrachloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
1,1,2-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
1,1-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
1,1-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
1,2-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
1,2-Dichloropropane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
1,3-Dichloropropene, Total		0.001	0.004		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
2-Butanone	NELAP	0.0101	0.05		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
2-Hexanone	NELAP	0.0101	0.05		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
4-Methyl-2-pentanone	NELAP	0.0101	0.05		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
Acetone	NELAP	0.0101	0.05		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
Benzene	NELAP	0.0005	0.001		0.004	mg/Kg-dry	1	09/07/2013 22:32	91748
Bromodichloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
Bromoform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
Bromomethane	NELAP	0.002	0.01		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
Carbon disulfide	NELAP	0.003	0.005		ND	mg/Kg-dry	1	09/07/2013 22:32	91748



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-014

Client Sample ID: 1467V-1-B12-2

Matrix: SOLID

Collection Date: 08/29/2013 17:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbon tetrachloride	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
Chlorobenzene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
Chloroethane	NELAP	0.002	0.01		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
Chloroform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
Chloromethane	NELAP	0.002	0.01		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
cis-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
cis-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
Dibromochloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
Ethylbenzene	NELAP	0.001	0.005	J	0.003	mg/Kg-dry	1	09/07/2013 22:32	91748
m,p-Xylenes	NELAP	0.001	0.005	J	0.004	mg/Kg-dry	1	09/07/2013 22:32	91748
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
Methylene chloride	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
o-Xylene	NELAP	0.001	0.005	J	0.002	mg/Kg-dry	1	09/07/2013 22:32	91748
Styrene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
Tetrachloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
Toluene	NELAP	0.001	0.005		0.009	mg/Kg-dry	1	09/07/2013 22:32	91748
trans-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
trans-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
Trichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
Vinyl acetate	NELAP	0.0202	0.05		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/07/2013 22:32	91748
Xylenes, Total	NELAP	0.001	0.005		0.005	mg/Kg-dry	1	09/07/2013 22:32	91748
Surr: 1,2-Dichloroethane-d4		0	72.2-131		103.4	%REC	1	09/07/2013 22:32	91748
Surr: 4-Bromofluorobenzene		0	82.1-116		109.4	%REC	1	09/07/2013 22:32	91748
Surr: Dibromofluoromethane		0	77.7-120		98	%REC	1	09/07/2013 22:32	91748
Surr: Toluene-d8		0	86-116		102.8	%REC	1	09/07/2013 22:32	91748

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-015

Client Sample ID: 1467V-1-B13-1

Matrix: SOLID

Collection Date: 08/29/2013 10:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		18.9	%	1	09/03/2013 12:34	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		81.1	%	1	09/03/2013 12:34	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.16		1	09/03/2013 15:33	R181368
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.464	mg/L	1	09/11/2013 14:20	91773
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0919	mg/L	1	09/06/2013 13:17	91677
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 13:17	91677
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 13:17	91677
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 13:17	91677
Chromium	NELAP	0.004	0.01	J	0.0094	mg/L	1	09/06/2013 13:17	91677
Cobalt	NELAP	0.0022	0.01	J	0.0032	mg/L	1	09/06/2013 13:17	91677
Iron	NELAP	0.007	0.02	X	6.92	mg/L	1	09/06/2013 13:17	91677
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 13:17	91677
Manganese	NELAP	0.0016	0.005		0.124	mg/L	1	09/06/2013 13:17	91677
Nickel	NELAP	0.0033	0.01	J	0.007	mg/L	1	09/06/2013 13:17	91677
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 13:17	91677
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 13:17	91677
Zinc	NELAP	0.0021	0.01		0.0272	mg/L	1	09/06/2013 13:17	91677
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 20:13	91680
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 17:22	91680
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/06/2013 12:56	91686
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.36	4.72		14300	mg/Kg-dry	1	09/04/2013 20:14	91573
Antimony	NELAP	2.5	4.81		< 4.81	mg/Kg-dry	1	09/05/2013 23:47	91623
Arsenic	NELAP	1.18	2.36		6.66	mg/Kg-dry	1	09/04/2013 20:14	91573
Barium	NELAP	0.24	0.47		144	mg/Kg-dry	1	09/04/2013 20:14	91573
Beryllium	NELAP	0.05	0.09		0.66	mg/Kg-dry	1	09/04/2013 20:14	91573
Boron	NELAP	0.94	1.89		4.95	mg/Kg-dry	1	09/04/2013 20:14	91573
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	09/04/2013 20:14	91573
Calcium	NELAP	2.36	4.72		13500	mg/Kg-dry	1	09/04/2013 20:14	91573
Chromium	NELAP	0.47	0.94	X	19.1	mg/Kg-dry	1	09/04/2013 20:14	91573
Cobalt	NELAP	0.47	0.94		7.79	mg/Kg-dry	1	09/04/2013 20:14	91573
Copper	NELAP	0.47	0.94		12.7	mg/Kg-dry	1	09/04/2013 20:14	91573
Iron	NELAP	0.94	1.89	X	18500	mg/Kg-dry	1	09/04/2013 20:14	91573
Lead	NELAP	1.89	3.77		14.2	mg/Kg-dry	1	09/04/2013 20:14	91573
Magnesium	NELAP	0.47	0.94	B	7980	mg/Kg-dry	1	09/04/2013 20:14	91573
Manganese	NELAP	0.24	0.47		397	mg/Kg-dry	1	09/04/2013 20:14	91573
Nickel	NELAP	0.47	0.94		14.2	mg/Kg-dry	1	09/04/2013 20:14	91573
Potassium	NELAP	4.72	9.43		1210	mg/Kg-dry	1	09/05/2013 19:28	91573
Silver	NELAP	0.47	0.52		< 0.52	mg/Kg-dry	1	09/04/2013 20:14	91573
Sodium	NELAP	2.36	4.72		4370	mg/Kg-dry	1	09/04/2013 20:14	91573

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-015

Client Sample ID: 1467V-1-B13-1

Matrix: SOLID

Collection Date: 08/29/2013 10:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.36	2.45		< 2.45	mg/Kg-dry	1	09/04/2013 20:14	91573
Vanadium	NELAP	0.47	0.94		32	mg/Kg-dry	1	09/04/2013 20:14	91573
Zinc	NELAP	0.47	0.94		42.3	mg/Kg-dry	1	09/04/2013 20:14	91573
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.33	0.566		< 0.566	mg/Kg-dry	1	09/09/2013 15:58	91588
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.03	mg/Kg-dry	1	09/04/2013 13:20	91563
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.165	0.621		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
1,2-Dichlorobenzene	NELAP	0.197	0.621		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
1,3-Dichlorobenzene	NELAP	0.209	0.621		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
1,4-Dichlorobenzene	NELAP	0.197	0.621		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
2,4,5-Trichlorophenol	NELAP	0.118	0.434		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
2,4,6-Trichlorophenol	NELAP	0.156	0.434		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
2,4-Dichlorophenol	NELAP	0.15	0.621		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
2,4-Dimethylphenol	NELAP	0.158	0.621		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
2,4-Dinitrophenol	NELAP	0.133	1.24		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
2,4-Dinitrotoluene	NELAP	0.129	0.434		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
2,6-Dinitrotoluene	NELAP	0.134	0.434		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
2-Chloronaphthalene	NELAP	0.149	0.434		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
2-Chlorophenol	NELAP	0.158	0.621		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
2-Methylnaphthalene	NELAP	0.148	0.434		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
2-Nitroaniline	NELAP	0.113	1.24		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
2-Nitrophenol	NELAP	0.139	0.434		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
3,3'-Dichlorobenzidine	NELAP	0.248	0.434		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
3-Nitroaniline	NELAP	0.102	1.24		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
4,6-Dinitro-2-methylphenol	NELAP	0.134	1.24		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
4-Bromophenyl phenyl ether	NELAP	0.114	0.434		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
4-Chloro-3-methylphenol	NELAP	0.137	0.621		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
4-Chloroaniline	NELAP	0.15	0.621		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
4-Chlorophenyl phenyl ether	NELAP	0.123	0.434		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
4-Nitroaniline	NELAP	0.113	0.621		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
4-Nitrophenol	NELAP	0.122	0.434		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Acenaphthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Acenaphthylene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Benzo(a)anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Benzo(a)pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Benzo(b)fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Benzo(g,h,i)perylene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Benzo(k)fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Bis(2-chloroethoxy)methane	NELAP	0.145	0.434		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Bis(2-chloroethyl)ether	NELAP	0.176	0.621		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Bis(2-chloroisopropyl)ether	NELAP	0.142	0.434		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Bis(2-ethylhexyl)phthalate	NELAP	0.145	0.434		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Butyl benzyl phthalate	NELAP	0.125	0.434		ND	mg/Kg-dry	1	09/07/2013 5:07	91555

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-015

Client Sample ID: 1467V-1-B13-1

Matrix: SOLID

Collection Date: 08/29/2013 10:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
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SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

Carbazole		0.151	0.621		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Chrysene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Dibenzo(a,h)anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Dibenzofuran	NELAP	0.156	0.434		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Diethyl phthalate	NELAP	0.119	0.621		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Dimethyl phthalate	NELAP	0.113	0.434		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Di-n-butyl phthalate	NELAP	0.128	0.434		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Di-n-octyl phthalate	NELAP	0.129	0.434		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Fluorene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Hexachlorobenzene	NELAP	0.122	0.434		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Hexachlorobutadiene	NELAP	0.192	0.621		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Hexachlorocyclopentadiene	NELAP	0.127	0.434		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Hexachloroethane	NELAP	0.207	0.621		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Indeno(1,2,3-cd)pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Isophorone	NELAP	0.146	0.434		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
m,p-Cresol	NELAP	0.156	0.621		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Naphthalene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Nitrobenzene	NELAP	0.155	0.621		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
N-Nitroso-di-n-propylamine	NELAP	0.137	0.621		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
N-Nitrosodiphenylamine	NELAP	0.114	0.621		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
o-Cresol	NELAP	0.146	0.621		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Pentachlorophenol	NELAP	0.819	2.48		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Phenanthrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Phenol	NELAP	0.144	0.434		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 5:07	91555
Surr: 2,4,6-Tribromophenol		0	32.7-130		64.6	%REC	1	09/07/2013 5:07	91555
Surr: 2-Fluorobiphenyl		0	34.1-116		51	%REC	1	09/07/2013 5:07	91555
Surr: 2-Fluorophenol		0	30.5-99		60.1	%REC	1	09/07/2013 5:07	91555
Surr: Nitrobenzene-d5		0	34.1-101		61.4	%REC	1	09/07/2013 5:07	91555
Surr: Phenol-d5		0	34.9-110		64.5	%REC	1	09/07/2013 5:07	91555
Surr: p-Terphenyl-d14		0	41.7-124		70	%REC	1	09/07/2013 5:07	91555

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

1,1,1-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
1,1,2-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
1,1-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
1,1-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
1,2-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
1,2-Dichloropropane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
1,3-Dichloropropane, Total		0.0009	0.003		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
2-Butanone	NELAP	0.0087	0.043		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
2-Hexanone	NELAP	0.0087	0.043		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
4-Methyl-2-pentanone	NELAP	0.0087	0.043		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
Acetone	NELAP	0.0087	0.043	J	0.025	mg/Kg-dry	1	09/07/2013 22:59	91748
Benzene	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
Bromodichloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 22:59	91748

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-015

Client Sample ID: 1467V-1-B13-1

Matrix: SOLID

Collection Date: 08/29/2013 10:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
Bromomethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
Carbon disulfide	NELAP	0.0026	0.004		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
Carbon tetrachloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
Chlorobenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
Chloroethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
Chloroform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
Chloromethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
cis-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
cis-1,3-Dichloropropene	NELAP	0.0009	0.003		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
Dibromochloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
Ethylbenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
m,p-Xylenes	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
Methylene chloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
o-Xylene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
Styrene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
Tetrachloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
Toluene	NELAP	0.0009	0.004	J	0.001	mg/Kg-dry	1	09/07/2013 22:59	91748
trans-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
trans-1,3-Dichloropropene	NELAP	0.0009	0.003		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
Trichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
Vinyl acetate	NELAP	0.0173	0.043		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
Xylenes, Total	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 22:59	91748
Surr: 1,2-Dichloroethane-d4		0	72.2-131		104	%REC	1	09/07/2013 22:59	91748
Surr: 4-Bromofluorobenzene		0	82.1-116		110.4	%REC	1	09/07/2013 22:59	91748
Surr: Dibromofluoromethane		0	77.7-120		100.5	%REC	1	09/07/2013 22:59	91748
Surr: Toluene-d8		0	86-116		106.1	%REC	1	09/07/2013 22:59	91748

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-016

Client Sample ID: 1467V-1-B13-1 DUP

Matrix: SOLID

Collection Date: 08/29/2013 10:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		21.5	%	1	09/03/2013 12:34	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		78.5	%	1	09/03/2013 12:34	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.12		1	09/03/2013 15:34	R181368
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.0632	mg/L	1	09/11/2013 14:26	91773
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0811	mg/L	1	09/06/2013 13:21	91677
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 13:21	91677
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 13:21	91677
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 13:21	91677
Chromium	NELAP	0.004	0.01		0.0116	mg/L	1	09/06/2013 13:21	91677
Cobalt	NELAP	0.0022	0.01	J	0.0025	mg/L	1	09/06/2013 13:21	91677
Iron	NELAP	0.007	0.02	X	9.28	mg/L	1	09/06/2013 13:21	91677
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 13:21	91677
Manganese	NELAP	0.0016	0.005		0.091	mg/L	1	09/06/2013 13:21	91677
Nickel	NELAP	0.0033	0.01	J	0.0086	mg/L	1	09/06/2013 13:21	91677
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 13:21	91677
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 13:21	91677
Zinc	NELAP	0.0021	0.01		0.0278	mg/L	1	09/06/2013 13:21	91677
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 20:17	91680
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 17:26	91680
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/06/2013 12:58	91686
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.27	4.55		12300	mg/Kg-dry	1	09/04/2013 20:20	91573
Antimony	NELAP	2.45	4.72		< 4.72	mg/Kg-dry	1	09/05/2013 23:50	91623
Arsenic	NELAP	1.14	2.27		6.47	mg/Kg-dry	1	09/04/2013 20:20	91573
Barium	NELAP	0.23	0.45		164	mg/Kg-dry	1	09/04/2013 20:20	91573
Beryllium	NELAP	0.05	0.09		0.61	mg/Kg-dry	1	09/04/2013 20:20	91573
Boron	NELAP	0.91	1.82		4.77	mg/Kg-dry	1	09/04/2013 20:20	91573
Cadmium	NELAP	0.09	0.18		< 0.18	mg/Kg-dry	1	09/04/2013 20:20	91573
Calcium	NELAP	2.27	4.55		2470	mg/Kg-dry	1	09/04/2013 20:20	91573
Chromium	NELAP	0.45	0.91	X	16.1	mg/Kg-dry	1	09/04/2013 20:20	91573
Cobalt	NELAP	0.45	0.91		6.13	mg/Kg-dry	1	09/04/2013 20:20	91573
Copper	NELAP	0.45	0.91		10.3	mg/Kg-dry	1	09/04/2013 20:20	91573
Iron	NELAP	0.91	1.82	X	15100	mg/Kg-dry	1	09/04/2013 20:20	91573
Lead	NELAP	1.82	3.64		12.1	mg/Kg-dry	1	09/04/2013 20:20	91573
Magnesium	NELAP	0.45	0.91	B	2070	mg/Kg-dry	1	09/04/2013 20:20	91573
Manganese	NELAP	0.23	0.45		346	mg/Kg-dry	1	09/04/2013 20:20	91573
Nickel	NELAP	0.45	0.91		11.6	mg/Kg-dry	1	09/04/2013 20:20	91573
Potassium	NELAP	4.55	9.09		1100	mg/Kg-dry	1	09/06/2013 10:59	91573
Silver	NELAP	0.45	0.5		< 0.5	mg/Kg-dry	1	09/04/2013 20:20	91573
Sodium	NELAP	2.27	4.55		3770	mg/Kg-dry	1	09/04/2013 20:20	91573

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-016

Client Sample ID: 1467V-1-B13-1 DUP

Matrix: SOLID

Collection Date: 08/29/2013 10:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.27	2.36		< 2.36	mg/Kg-dry	1	09/04/2013 20:20	91573
Vanadium	NELAP	0.45	0.91		28.5	mg/Kg-dry	1	09/04/2013 20:20	91573
Zinc	NELAP	0.45	0.91		45	mg/Kg-dry	1	09/04/2013 20:20	91573
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.324	0.556		< 0.556	mg/Kg-dry	1	09/09/2013 16:01	91588
SW-846 7471B									
Mercury	NELAP	0.003	0.013		0.031	mg/Kg-dry	1	09/04/2013 13:22	91563
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.168	0.633		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
1,2-Dichlorobenzene	NELAP	0.201	0.633		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
1,3-Dichlorobenzene	NELAP	0.213	0.633		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
1,4-Dichlorobenzene	NELAP	0.201	0.633		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
2,4,5-Trichlorophenol	NELAP	0.12	0.443		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
2,4,6-Trichlorophenol	NELAP	0.159	0.443		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
2,4-Dichlorophenol	NELAP	0.153	0.633		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
2,4-Dimethylphenol	NELAP	0.161	0.633		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
2,4-Dinitrophenol	NELAP	0.135	1.27		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
2,4-Dinitrotoluene	NELAP	0.132	0.443		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
2,6-Dinitrotoluene	NELAP	0.137	0.443		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
2-Chloronaphthalene	NELAP	0.152	0.443		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
2-Chlorophenol	NELAP	0.161	0.633		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
2-Methylnaphthalene	NELAP	0.151	0.443		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
2-Nitroaniline	NELAP	0.115	1.27		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
2-Nitrophenol	NELAP	0.142	0.443		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
3,3'-Dichlorobenzidine	NELAP	0.253	0.443		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
3-Nitroaniline	NELAP	0.104	1.27		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
4,6-Dinitro-2-methylphenol	NELAP	0.137	1.27		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
4-Bromophenyl phenyl ether	NELAP	0.116	0.443		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
4-Chloro-3-methylphenol	NELAP	0.139	0.633		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
4-Chloroaniline	NELAP	0.153	0.633		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
4-Chlorophenyl phenyl ether	NELAP	0.125	0.443		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
4-Nitroaniline	NELAP	0.115	0.633		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
4-Nitrophenol	NELAP	0.124	0.443		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Acenaphthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Acenaphthylene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Anthracene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Benzo(a)anthracene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Benzo(a)pyrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Benzo(b)fluoranthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Benzo(g,h,i)perylene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Benzo(k)fluoranthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Bis(2-chloroethoxy)methane	NELAP	0.148	0.443		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Bis(2-chloroethyl)ether	NELAP	0.18	0.633		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Bis(2-chloroisopropyl)ether	NELAP	0.144	0.443		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Bis(2-ethylhexyl)phthalate	NELAP	0.148	0.443		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Butyl benzyl phthalate	NELAP	0.128	0.443		ND	mg/Kg-dry	1	09/07/2013 4:02	91555

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-016

Client Sample ID: 1467V-1-B13-1 DUP

Matrix: SOLID

Collection Date: 08/29/2013 10:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.154	0.633		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Chrysene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Dibenzo(a,h)anthracene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Dibenzofuran	NELAP	0.159	0.443		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Diethyl phthalate	NELAP	0.121	0.633		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Dimethyl phthalate	NELAP	0.115	0.443		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Di-n-butyl phthalate	NELAP	0.13	0.443		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Di-n-octyl phthalate	NELAP	0.132	0.443		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Fluoranthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Fluorene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Hexachlorobenzene	NELAP	0.124	0.443		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Hexachlorobutadiene	NELAP	0.196	0.633		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Hexachlorocyclopentadiene	NELAP	0.129	0.443		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Hexachloroethane	NELAP	0.211	0.633		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Indeno(1,2,3-cd)pyrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Isophorone	NELAP	0.149	0.443		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
m,p-Cresol	NELAP	0.159	0.633		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Naphthalene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Nitrobenzene	NELAP	0.158	0.633		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
N-Nitroso-di-n-propylamine	NELAP	0.139	0.633		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
N-Nitrosodiphenylamine	NELAP	0.116	0.633		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
o-Cresol	NELAP	0.149	0.633		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Pentachlorophenol	NELAP	0.835	2.53		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Phenanthrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Phenol	NELAP	0.147	0.443		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Pyrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	09/07/2013 4:02	91555
Surr: 2,4,6-Tribromophenol		0	32.7-130		60.3	%REC	1	09/07/2013 4:02	91555
Surr: 2-Fluorobiphenyl		0	34.1-116		54.9	%REC	1	09/07/2013 4:02	91555
Surr: 2-Fluorophenol		0	30.5-99		58.6	%REC	1	09/07/2013 4:02	91555
Surr: Nitrobenzene-d5		0	34.1-101		62.2	%REC	1	09/07/2013 4:02	91555
Surr: Phenol-d5		0	34.9-110		60.6	%REC	1	09/07/2013 4:02	91555
Surr: p-Terphenyl-d14		0	41.7-124		72.4	%REC	1	09/07/2013 4:02	91555
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
1,1,2-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
1,1-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
1,1-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
1,2-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
1,2-Dichloropropane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
1,3-Dichloropropene, Total		0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
2-Butanone	NELAP	0.0089	0.045		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
2-Hexanone	NELAP	0.0089	0.045		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
4-Methyl-2-pentanone	NELAP	0.0089	0.045		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
Acetone	NELAP	0.0089	0.045	J	0.022	mg/Kg-dry	1	09/07/2013 23:25	91748
Benzene	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
Bromodichloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-016

Client Sample ID: 1467V-1-B13-1 DUP

Matrix: SOLID

Collection Date: 08/29/2013 10:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
Bromomethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
Carbon disulfide	NELAP	0.0027	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
Carbon tetrachloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
Chlorobenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
Chloroethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
Chloroform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
Chloromethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
cis-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
cis-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
Dibromochloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
Ethylbenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
m,p-Xylenes	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
Methylene chloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
o-Xylene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
Styrene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
Tetrachloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
Toluene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
trans-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
trans-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
Trichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
Vinyl acetate	NELAP	0.0178	0.045		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
Xylenes, Total	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/07/2013 23:25	91748
Surr: 1,2-Dichloroethane-d4		0	72.2-131		107.5	%REC	1	09/07/2013 23:25	91748
Surr: 4-Bromofluorobenzene		0	82.1-116		106.9	%REC	1	09/07/2013 23:25	91748
Surr: Dibromofluoromethane		0	77.7-120		98.3	%REC	1	09/07/2013 23:25	91748
Surr: Toluene-d8		0	86-116		101.3	%REC	1	09/07/2013 23:25	91748

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-017

Client Sample ID: 1467V-1-B13-2

Matrix: SOLID

Collection Date: 08/29/2013 10:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		8.5	%	1	09/03/2013 12:34	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		91.5	%	1	09/03/2013 12:34	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.44		1	09/03/2013 15:38	R181368
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.0402	mg/L	1	09/11/2013 14:32	91773
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0843	mg/L	1	09/06/2013 13:25	91677
Beryllium	NELAP	0.0003	0.001	J	0.0003	mg/L	1	09/06/2013 13:25	91677
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 13:25	91677
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 13:25	91677
Chromium	NELAP	0.004	0.01		0.0137	mg/L	1	09/06/2013 13:25	91677
Cobalt	NELAP	0.0022	0.01	J	0.0035	mg/L	1	09/06/2013 13:25	91677
Iron	NELAP	0.007	0.02	X	12	mg/L	1	09/06/2013 13:25	91677
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 13:25	91677
Manganese	NELAP	0.0016	0.005		0.108	mg/L	1	09/06/2013 13:25	91677
Nickel	NELAP	0.0033	0.01		0.0123	mg/L	1	09/06/2013 13:25	91677
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 13:25	91677
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 13:25	91677
Zinc	NELAP	0.0021	0.01		0.0412	mg/L	1	09/06/2013 13:25	91677
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 20:21	91680
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 17:36	91680
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/06/2013 13:05	91686
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.45	4.9		6820	mg/Kg-dry	1	09/04/2013 20:26	91573
Antimony	NELAP	2.5	4.81		< 4.81	mg/Kg-dry	1	09/05/2013 23:54	91623
Arsenic	NELAP	1.23	2.45		4.97	mg/Kg-dry	1	09/04/2013 20:26	91573
Barium	NELAP	0.25	0.49		36.2	mg/Kg-dry	1	09/04/2013 20:26	91573
Beryllium	NELAP	0.05	0.1		0.42	mg/Kg-dry	1	09/04/2013 20:26	91573
Boron	NELAP	0.98	1.96		11	mg/Kg-dry	1	09/04/2013 20:26	91573
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	09/04/2013 20:26	91573
Calcium	NELAP	2.45	4.9		81500	mg/Kg-dry	1	09/04/2013 20:26	91573
Chromium	NELAP	0.49	0.98		12.1	mg/Kg-dry	1	09/04/2013 20:26	91573
Cobalt	NELAP	0.49	0.98		4.48	mg/Kg-dry	1	09/04/2013 20:26	91573
Copper	NELAP	0.49	0.98		12.8	mg/Kg-dry	1	09/04/2013 20:26	91573
Iron	NELAP	0.98	1.96		12400	mg/Kg-dry	1	09/04/2013 20:26	91573
Lead	NELAP	1.96	3.92		5.13	mg/Kg-dry	1	09/04/2013 20:26	91573
Magnesium	NELAP	0.49	0.98	B	37400	mg/Kg-dry	1	09/04/2013 20:26	91573
Manganese	NELAP	0.25	0.49		271	mg/Kg-dry	1	09/04/2013 20:26	91573
Nickel	NELAP	0.49	0.98		11.4	mg/Kg-dry	1	09/04/2013 20:26	91573
Potassium	NELAP	4.9	9.8		1970	mg/Kg-dry	1	09/06/2013 11:05	91573
Silver	NELAP	0.49	0.54		< 0.54	mg/Kg-dry	1	09/04/2013 20:26	91573
Sodium	NELAP	2.45	4.9		563	mg/Kg-dry	1	09/04/2013 20:26	91573

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-017

Client Sample ID: 1467V-1-B13-2

Matrix: SOLID

Collection Date: 08/29/2013 10:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.45	2.55		< 2.55	mg/Kg-dry	1	09/04/2013 20:26	91573
Vanadium	NELAP	0.49	0.98		17.2	mg/Kg-dry	1	09/04/2013 20:26	91573
Zinc	NELAP	0.49	0.98		32.7	mg/Kg-dry	1	09/04/2013 20:26	91573
<i>Sample result for Mg exceeds 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.35	0.6		< 0.6	mg/Kg-dry	1	09/09/2013 16:11	91589
SW-846 7471B									
Mercury	NELAP	0.003	0.011	J	0.01	mg/Kg-dry	1	09/04/2013 13:24	91563
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.145	0.545		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
1,2-Dichlorobenzene	NELAP	0.173	0.545		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
1,3-Dichlorobenzene	NELAP	0.183	0.545		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
1,4-Dichlorobenzene	NELAP	0.173	0.545		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
2,4,5-Trichlorophenol	NELAP	0.104	0.382		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
2,4,6-Trichlorophenol	NELAP	0.137	0.382		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
2,4-Dichlorophenol	NELAP	0.132	0.545		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
2,4-Dimethylphenol	NELAP	0.138	0.545		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
2,4-Dinitrophenol	NELAP	0.117	1.09		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
2,4-Dinitrotoluene	NELAP	0.113	0.382		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
2,6-Dinitrotoluene	NELAP	0.118	0.382		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
2-Chloronaphthalene	NELAP	0.131	0.382		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
2-Chlorophenol	NELAP	0.138	0.545		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
2-Methylnaphthalene	NELAP	0.13	0.382		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
2-Nitroaniline	NELAP	0.099	1.09		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
2-Nitrophenol	NELAP	0.122	0.382		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
3,3'-Dichlorobenzidine	NELAP	0.218	0.382		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
3-Nitroaniline	NELAP	0.089	1.09		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
4,6-Dinitro-2-methylphenol	NELAP	0.118	1.09		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
4-Bromophenyl phenyl ether	NELAP	0.1	0.382		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
4-Chloro-3-methylphenol	NELAP	0.12	0.545		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
4-Chloroaniline	NELAP	0.132	0.545		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
4-Chlorophenyl phenyl ether	NELAP	0.108	0.382		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
4-Nitroaniline	NELAP	0.099	0.545		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
4-Nitrophenol	NELAP	0.107	0.382		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Acenaphthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Acenaphthylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Benzo(a)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Benzo(a)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Benzo(b)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Benzo(g,h,i)perylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Benzo(k)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Bis(2-chloroethoxy)methane	NELAP	0.128	0.382		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Bis(2-chloroethyl)ether	NELAP	0.155	0.545		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Bis(2-chloroisopropyl)ether	NELAP	0.124	0.382		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Bis(2-ethylhexyl)phthalate	NELAP	0.128	0.382		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Butyl benzyl phthalate	NELAP	0.11	0.382		ND	mg/Kg-dry	1	09/06/2013 8:35	91555

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-017

Client Sample ID: 1467V-1-B13-2

Matrix: SOLID

Collection Date: 08/29/2013 10:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.133	0.545		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Chrysene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Dibenzo(a,h)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Dibenzofuran	NELAP	0.137	0.382		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Diethyl phthalate	NELAP	0.105	0.545		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Dimethyl phthalate	NELAP	0.099	0.382		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Di-n-butyl phthalate	NELAP	0.112	0.382		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Di-n-octyl phthalate	NELAP	0.113	0.382		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Fluorene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Hexachlorobenzene	NELAP	0.107	0.382		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Hexachlorobutadiene	NELAP	0.169	0.545		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Hexachlorocyclopentadiene	NELAP	0.111	0.382		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Hexachloroethane	NELAP	0.182	0.545		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Indeno(1,2,3-cd)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Isophorone	NELAP	0.129	0.382		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
m,p-Cresol	NELAP	0.137	0.545		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Naphthalene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Nitrobenzene	NELAP	0.136	0.545		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
N-Nitroso-di-n-propylamine	NELAP	0.12	0.545		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
N-Nitrosodiphenylamine	NELAP	0.1	0.545		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
o-Cresol	NELAP	0.129	0.545		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Pentachlorophenol	NELAP	0.72	2.18		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Phenanthrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Phenol	NELAP	0.126	0.382		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 8:35	91555
Surr: 2,4,6-Tribromophenol		0	32.7-130		59.7	%REC	1	09/06/2013 8:35	91555
Surr: 2-Fluorobiphenyl		0	34.1-116		53.2	%REC	1	09/06/2013 8:35	91555
Surr: 2-Fluorophenol		0	30.5-99		54.8	%REC	1	09/06/2013 8:35	91555
Surr: Nitrobenzene-d5		0	34.1-101		58.7	%REC	1	09/06/2013 8:35	91555
Surr: Phenol-d5		0	34.9-110		59.6	%REC	1	09/06/2013 8:35	91555
Surr: p-Terphenyl-d14		0	41.7-124		70.7	%REC	1	09/06/2013 8:35	91555
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
1,1,2,2-Tetrachloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
1,1,2-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
1,1-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
1,1-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
1,2-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
1,2-Dichloropropane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
1,3-Dichloropropene, Total		0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
2-Butanone	NELAP	0.007	0.035		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
2-Hexanone	NELAP	0.007	0.035		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
4-Methyl-2-pentanone	NELAP	0.007	0.035		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
Acetone	NELAP	0.007	0.035	J	0.011	mg/Kg-dry	1	09/07/2013 23:52	91748
Benzene	NELAP	0.0004	0.001		0.001	mg/Kg-dry	1	09/07/2013 23:52	91748
Bromodichloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 23:52	91748



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-017

Client Sample ID: 1467V-1-B13-2

Matrix: SOLID

Collection Date: 08/29/2013 10:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
Bromomethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
Carbon disulfide	NELAP	0.0021	0.004		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
Carbon tetrachloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
Chlorobenzene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
Chloroethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
Chloroform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
Chloromethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
cis-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
cis-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
Dibromochloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
Ethylbenzene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
m,p-Xylenes	NELAP	0.0007	0.004	J	0.001	mg/Kg-dry	1	09/07/2013 23:52	91748
Methyl tert-butyl ether	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
Methylene chloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
o-Xylene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
Styrene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
Tetrachloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
Toluene	NELAP	0.0007	0.004	J	0.002	mg/Kg-dry	1	09/07/2013 23:52	91748
trans-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
trans-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
Trichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
Vinyl acetate	NELAP	0.014	0.035		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
Vinyl chloride	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/07/2013 23:52	91748
Xylenes, Total	NELAP	0.0007	0.004	J	0.001	mg/Kg-dry	1	09/07/2013 23:52	91748
Surr: 1,2-Dichloroethane-d4		0	72.2-131		108	%REC	1	09/07/2013 23:52	91748
Surr: 4-Bromofluorobenzene		0	82.1-116		105.5	%REC	1	09/07/2013 23:52	91748
Surr: Dibromofluoromethane		0	77.7-120		102.4	%REC	1	09/07/2013 23:52	91748
Surr: Toluene-d8		0	86-116		103.2	%REC	1	09/07/2013 23:52	91748

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-020

Client Sample ID: 1467V-1-B15-1

Matrix: SOLID

Collection Date: 08/29/2013 9:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		17.7	%	1	09/03/2013 12:35	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		82.3	%	1	09/03/2013 12:35	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.61		1	09/03/2013 15:47	R181368
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.0846	mg/L	1	09/11/2013 15:20	91773
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0549	mg/L	1	09/06/2013 13:36	91677
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 13:36	91677
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 13:36	91677
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 13:36	91677
Chromium	NELAP	0.004	0.01	J	0.0084	mg/L	1	09/06/2013 13:36	91677
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/06/2013 13:36	91677
Iron	NELAP	0.007	0.02	X	6.79	mg/L	1	09/06/2013 13:36	91677
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 13:36	91677
Manganese	NELAP	0.0016	0.005		0.0391	mg/L	1	09/06/2013 13:36	91677
Nickel	NELAP	0.0033	0.01	J	0.0048	mg/L	1	09/06/2013 13:36	91677
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 13:36	91677
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 13:36	91677
Zinc	NELAP	0.0021	0.01		0.0218	mg/L	1	09/06/2013 13:36	91677
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 20:54	91680
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 17:53	91680
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/06/2013 13:16	91686
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.5	5		25700	mg/Kg-dry	1	09/05/2013 23:24	91586
Antimony	NELAP	2.45	4.72		< 4.72	mg/Kg-dry	1	09/06/2013 0:31	91640
Arsenic	NELAP	1.25	2.5		11.2	mg/Kg-dry	1	09/05/2013 23:24	91586
Barium	NELAP	0.25	0.5		136	mg/Kg-dry	1	09/05/2013 23:24	91586
Beryllium	NELAP	0.05	0.1		0.92	mg/Kg-dry	1	09/05/2013 23:24	91586
Boron	NELAP	1	2		5.95	mg/Kg-dry	1	09/05/2013 23:24	91586
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	09/06/2013 13:03	91586
Calcium	NELAP	2.5	5		3420	mg/Kg-dry	1	09/05/2013 23:24	91586
Chromium	NELAP	0.5	1	X	30.5	mg/Kg-dry	1	09/05/2013 23:24	91586
Cobalt	NELAP	0.5	1		8.55	mg/Kg-dry	1	09/05/2013 23:24	91586
Copper	NELAP	0.5	1		20.7	mg/Kg-dry	1	09/05/2013 23:24	91586
Iron	NELAP	1	2	X	29200	mg/Kg-dry	1	09/05/2013 23:24	91586
Lead	NELAP	2	4		16.3	mg/Kg-dry	1	09/05/2013 23:24	91586
Magnesium	NELAP	0.5	1		5230	mg/Kg-dry	1	09/05/2013 23:24	91586
Manganese	NELAP	0.25	0.5		471	mg/Kg-dry	1	09/05/2013 23:24	91586
Nickel	NELAP	0.5	1		22.6	mg/Kg-dry	1	09/05/2013 23:24	91586
Potassium	NELAP	5	10		1520	mg/Kg-dry	1	09/06/2013 13:03	91586
Silver	NELAP	0.5	0.55		< 0.55	mg/Kg-dry	1	09/05/2013 23:24	91586
Sodium	NELAP	2.5	5		180	mg/Kg-dry	1	09/06/2013 13:03	91586

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-020

Client Sample ID: 1467V-1-B15-1

Matrix: SOLID

Collection Date: 08/29/2013 9:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Thallium	NELAP	2.5	2.6		< 2.6	mg/Kg-dry	1	09/05/2013 23:24	91586
Vanadium	NELAP	0.5	1		52.6	mg/Kg-dry	1	09/05/2013 23:24	91586
Zinc	NELAP	0.5	1		60.7	mg/Kg-dry	1	09/05/2013 23:24	91586
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.343	0.588		< 0.588	mg/Kg-dry	1	09/09/2013 16:28	91589
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.047	mg/Kg-dry	1	09/04/2013 13:35	91563
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.162	0.607		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
1,2-Dichlorobenzene	NELAP	0.193	0.607		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
1,3-Dichlorobenzene	NELAP	0.204	0.607		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
1,4-Dichlorobenzene	NELAP	0.193	0.607		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
2,4,5-Trichlorophenol	NELAP	0.115	0.425		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
2,4,6-Trichlorophenol	NELAP	0.153	0.425		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
2,4-Dichlorophenol	NELAP	0.147	0.607		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
2,4-Dimethylphenol	NELAP	0.154	0.607		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
2,4-Dinitrophenol	NELAP	0.13	1.21		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
2,4-Dinitrotoluene	NELAP	0.126	0.425		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
2,6-Dinitrotoluene	NELAP	0.131	0.425		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
2-Chloronaphthalene	NELAP	0.146	0.425		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
2-Chlorophenol	NELAP	0.154	0.607		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
2-Methylnaphthalene	NELAP	0.145	0.425		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
2-Nitroaniline	NELAP	0.111	1.21		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
2-Nitrophenol	NELAP	0.136	0.425		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
3,3'-Dichlorobenzidine	NELAP	0.243	0.425		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
3-Nitroaniline	NELAP	0.1	1.21		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
4,6-Dinitro-2-methylphenol	NELAP	0.131	1.21		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
4-Bromophenyl phenyl ether	NELAP	0.112	0.425		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
4-Chloro-3-methylphenol	NELAP	0.134	0.607		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
4-Chloroaniline	NELAP	0.147	0.607		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
4-Chlorophenyl phenyl ether	NELAP	0.12	0.425		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
4-Nitroaniline	NELAP	0.111	0.607		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
4-Nitrophenol	NELAP	0.119	0.425		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Acenaphthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Acenaphthylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Benzo(a)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Benzo(a)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Benzo(b)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Benzo(g,h,i)perylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Benzo(k)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Bis(2-chloroethoxy)methane	NELAP	0.142	0.425		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Bis(2-chloroethyl)ether	NELAP	0.172	0.607		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Bis(2-chloroisopropyl)ether	NELAP	0.138	0.425		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Bis(2-ethylhexyl)phthalate	NELAP	0.142	0.425		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Butyl benzyl phthalate	NELAP	0.123	0.425		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Carbazole		0.148	0.607		ND	mg/Kg-dry	1	09/06/2013 15:23	91555

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-020

Client Sample ID: 1467V-1-B15-1

Matrix: SOLID

Collection Date: 08/29/2013 9:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chrysene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Dibenzo(a,h)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Dibenzofuran	NELAP	0.153	0.425		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Diethyl phthalate	NELAP	0.117	0.607		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Dimethyl phthalate	NELAP	0.111	0.425		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Di-n-butyl phthalate	NELAP	0.125	0.425		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Di-n-octyl phthalate	NELAP	0.126	0.425		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Fluorene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Hexachlorobenzene	NELAP	0.119	0.425		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Hexachlorobutadiene	NELAP	0.188	0.607		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Hexachlorocyclopentadiene	NELAP	0.124	0.425		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Hexachloroethane	NELAP	0.203	0.607		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Isophorone	NELAP	0.143	0.425		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
m,p-Cresol	NELAP	0.153	0.607		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Naphthalene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Nitrobenzene	NELAP	0.152	0.607		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
N-Nitroso-di-n-propylamine	NELAP	0.134	0.607		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
N-Nitrosodiphenylamine	NELAP	0.112	0.607		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
o-Cresol	NELAP	0.143	0.607		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Pentachlorophenol	NELAP	0.801	2.43		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Phenanthrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Phenol	NELAP	0.141	0.425		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 15:23	91555
Surr: 2,4,6-Tribromophenol		0	32.7-130		61.2	%REC	1	09/06/2013 15:23	91555
Surr: 2-Fluorobiphenyl		0	34.1-116		55.7	%REC	1	09/06/2013 15:23	91555
Surr: 2-Fluorophenol		0	30.5-99		56.3	%REC	1	09/06/2013 15:23	91555
Surr: Nitrobenzene-d5		0	34.1-101		61.8	%REC	1	09/06/2013 15:23	91555
Surr: Phenol-d5		0	34.9-110		59.5	%REC	1	09/06/2013 15:23	91555
Surr: p-Terphenyl-d14		0	41.7-124		66.1	%REC	1	09/06/2013 15:23	91555
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
1,1,2,2-Tetrachloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
1,1,2-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
1,1-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
1,1-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
1,2-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
1,2-Dichloropropane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
1,3-Dichloropropene, Total		0.001	0.004		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
2-Butanone	NELAP	0.0096	0.048		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
2-Hexanone	NELAP	0.0096	0.048		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
4-Methyl-2-pentanone	NELAP	0.0096	0.048		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
Acetone	NELAP	0.0096	0.048		0.068	mg/Kg-dry	1	09/08/2013 1:11	91748
Benzene	NELAP	0.0005	0.001		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
Bromodichloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
Bromoform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-020

Client Sample ID: 1467V-1-B15-1

Matrix: SOLID

Collection Date: 08/29/2013 9:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromomethane	NELAP	0.0019	0.01		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
Carbon disulfide	NELAP	0.0029	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
Carbon tetrachloride	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
Chlorobenzene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
Chloroethane	NELAP	0.0019	0.01		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
Chloroform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
Chloromethane	NELAP	0.0019	0.01		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
cis-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
cis-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
Dibromochloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
Ethylbenzene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
m,p-Xylenes	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
Methylene chloride	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
o-Xylene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
Styrene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
Tetrachloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
Toluene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
trans-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
trans-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
Trichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
Vinyl acetate	NELAP	0.0192	0.048		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
Xylenes, Total	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 1:11	91748
Surr: 1,2-Dichloroethane-d4		0	72.2-131		107.1	%REC	1	09/08/2013 1:11	91748
Surr: 4-Bromofluorobenzene		0	82.1-116		106	%REC	1	09/08/2013 1:11	91748
Surr: Dibromofluoromethane		0	77.7-120		100.6	%REC	1	09/08/2013 1:11	91748
Surr: Toluene-d8		0	86-116		102.4	%REC	1	09/08/2013 1:11	91748

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-021

Client Sample ID: 1467V-1-B15-2

Matrix: SOLID

Collection Date: 08/29/2013 9:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1	R	5.9	%	1	09/03/2013 12:36	R181377
<i>RPD for DUP was outside of QC limit due to sample composition.</i>									
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		94.1	%	1	09/03/2013 12:36	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.38		1	09/04/2013 10:10	R181393
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0276	mg/L	1	09/06/2013 13:47	91678
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 13:47	91678
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 13:47	91678
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 13:47	91678
Chromium	NELAP	0.004	0.01	J	0.0044	mg/L	1	09/06/2013 13:47	91678
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/06/2013 13:47	91678
Iron	NELAP	0.007	0.02		2.26	mg/L	1	09/06/2013 13:47	91678
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 13:47	91678
Manganese	NELAP	0.0016	0.005		0.0175	mg/L	1	09/06/2013 13:47	91678
Nickel	NELAP	0.0033	0.01	J	0.0036	mg/L	1	09/06/2013 13:47	91678
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 13:47	91678
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 13:47	91678
Zinc	NELAP	0.0021	0.01		0.0115	mg/L	1	09/06/2013 13:47	91678
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 21:05	91681
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 18:03	91681
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/06/2013 13:32	91687
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.31	4.63		6770	mg/Kg-dry	1	09/05/2013 23:30	91586
Antimony	NELAP	2.45	4.72		< 4.72	mg/Kg-dry	1	09/06/2013 0:34	91640
Arsenic	NELAP	1.16	2.31		2.84	mg/Kg-dry	1	09/06/2013 13:09	91586
Barium	NELAP	0.23	0.46		24.2	mg/Kg-dry	1	09/05/2013 23:30	91586
Beryllium	NELAP	0.05	0.09		0.42	mg/Kg-dry	1	09/05/2013 23:30	91586
Boron	NELAP	0.93	1.85		10.5	mg/Kg-dry	1	09/05/2013 23:30	91586
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	09/05/2013 23:30	91586
Calcium	NELAP	2.31	4.63		85700	mg/Kg-dry	1	09/05/2013 23:30	91586
Chromium	NELAP	0.46	0.93		13	mg/Kg-dry	1	09/05/2013 23:30	91586
Cobalt	NELAP	0.46	0.93		4.47	mg/Kg-dry	1	09/05/2013 23:30	91586
Copper	NELAP	0.46	0.93		11.7	mg/Kg-dry	1	09/05/2013 23:30	91586
Iron	NELAP	0.93	1.85		11400	mg/Kg-dry	1	09/05/2013 23:30	91586
Lead	NELAP	1.85	3.7		5.48	mg/Kg-dry	1	09/05/2013 23:30	91586
Magnesium	NELAP	0.46	0.93		40500	mg/Kg-dry	1	09/05/2013 23:30	91586
Manganese	NELAP	0.23	0.46		337	mg/Kg-dry	1	09/05/2013 23:30	91586
Nickel	NELAP	0.46	0.93		13.5	mg/Kg-dry	1	09/05/2013 23:30	91586
Potassium	NELAP	4.63	9.26		1720	mg/Kg-dry	1	09/06/2013 13:09	91586
Silver	NELAP	0.46	0.51		< 0.51	mg/Kg-dry	1	09/05/2013 23:30	91586
Sodium	NELAP	2.31	4.63		147	mg/Kg-dry	1	09/06/2013 13:09	91586
Thallium	NELAP	2.31	2.41		< 2.41	mg/Kg-dry	1	09/05/2013 23:30	91586
Vanadium	NELAP	0.46	0.93		16	mg/Kg-dry	1	09/05/2013 23:30	91586

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-021

Client Sample ID: 1467V-1-B15-2

Matrix: SOLID

Collection Date: 08/29/2013 9:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Zinc	NELAP	0.46	0.93		31.2	mg/Kg-dry	1	09/05/2013 23:30	91586
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.35	0.6		< 0.6	mg/Kg-dry	1	09/09/2013 16:32	91589
SW-846 7471B									
Mercury	NELAP	0.003	0.01	J	0.007	mg/Kg-dry	1	09/05/2013 11:42	91574
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.142	0.534		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
1,2-Dichlorobenzene	NELAP	0.17	0.534		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
1,3-Dichlorobenzene	NELAP	0.179	0.534		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
1,4-Dichlorobenzene	NELAP	0.17	0.534		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
2,4,5-Trichlorophenol	NELAP	0.101	0.374		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
2,4,6-Trichlorophenol	NELAP	0.135	0.374		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
2,4-Dichlorophenol	NELAP	0.129	0.534		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
2,4-Dimethylphenol	NELAP	0.136	0.534		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
2,4-Dinitrophenol	NELAP	0.114	1.07		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
2,4-Dinitrotoluene	NELAP	0.111	0.374		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
2,6-Dinitrotoluene	NELAP	0.115	0.374		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
2-Chloronaphthalene	NELAP	0.128	0.374		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
2-Chlorophenol	NELAP	0.136	0.534		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
2-Methylnaphthalene	NELAP	0.127	0.374		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
2-Nitroaniline	NELAP	0.097	1.07		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
2-Nitrophenol	NELAP	0.12	0.374		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
3,3'-Dichlorobenzidine	NELAP	0.214	0.374		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
3-Nitroaniline	NELAP	0.088	1.07		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
4,6-Dinitro-2-methylphenol	NELAP	0.115	1.07		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
4-Bromophenyl phenyl ether	NELAP	0.098	0.374		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
4-Chloro-3-methylphenol	NELAP	0.118	0.534		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
4-Chloroaniline	NELAP	0.129	0.534		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
4-Chlorophenyl phenyl ether	NELAP	0.106	0.374		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
4-Nitroaniline	NELAP	0.097	0.534		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
4-Nitrophenol	NELAP	0.105	0.374		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Acenaphthene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Acenaphthylene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Anthracene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Benzo(a)anthracene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Benzo(a)pyrene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Benzo(b)fluoranthene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Benzo(g,h,i)perylene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Benzo(k)fluoranthene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Bis(2-chloroethoxy)methane	NELAP	0.125	0.374		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Bis(2-chloroethyl)ether	NELAP	0.152	0.534		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Bis(2-chloroisopropyl)ether	NELAP	0.122	0.374		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Bis(2-ethylhexyl)phthalate	NELAP	0.125	0.374		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Butyl benzyl phthalate	NELAP	0.108	0.374		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Carbazole		0.13	0.534		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Chrysene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Dibenzo(a,h)anthracene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/06/2013 15:55	91580

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-021

Client Sample ID: 1467V-1-B15-2

Matrix: SOLID

Collection Date: 08/29/2013 9:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dibenzofuran	NELAP	0.135	0.374		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Diethyl phthalate	NELAP	0.103	0.534		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Dimethyl phthalate	NELAP	0.097	0.374		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Di-n-butyl phthalate	NELAP	0.11	0.374		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Di-n-octyl phthalate	NELAP	0.111	0.374		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Fluoranthene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Fluorene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Hexachlorobenzene	NELAP	0.105	0.374		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Hexachlorobutadiene	NELAP	0.166	0.534		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Hexachlorocyclopentadiene	NELAP	0.109	0.374		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Hexachloroethane	NELAP	0.178	0.534		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Indeno(1,2,3-cd)pyrene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Isophorone	NELAP	0.126	0.374		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
m,p-Cresol	NELAP	0.135	0.534		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Naphthalene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Nitrobenzene	NELAP	0.134	0.534		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
N-Nitroso-di-n-propylamine	NELAP	0.118	0.534		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
N-Nitrosodiphenylamine	NELAP	0.098	0.534		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
o-Cresol	NELAP	0.126	0.534		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Pentachlorophenol	NELAP	0.705	2.14		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Phenanthrene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Phenol	NELAP	0.124	0.374		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Pyrene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/06/2013 15:55	91580
Surr: 2,4,6-Tribromophenol		0	32.7-130		52.5	%REC	1	09/06/2013 15:55	91580
Surr: 2-Fluorobiphenyl		0	34.1-116		44.9	%REC	1	09/06/2013 15:55	91580
Surr: 2-Fluorophenol		0	30.5-99		49.7	%REC	1	09/06/2013 15:55	91580
Surr: Nitrobenzene-d5		0	34.1-101		46.7	%REC	1	09/06/2013 15:55	91580
Surr: Phenol-d5		0	34.9-110		54	%REC	1	09/06/2013 15:55	91580
Surr: p-Terphenyl-d14		0	41.7-124		66.3	%REC	1	09/06/2013 15:55	91580

LCS recovered outside upper QC limits for Dibenzo(a,h)anthracene and Benzo(g,h,i)perylene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
1,1,2,2-Tetrachloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
1,1,2-Trichloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
1,1-Dichloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
1,1-Dichloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
1,2-Dichloroethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
1,2-Dichloropropane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
1,3-Dichloropropene, Total		0.0007	0.003		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
2-Butanone	NELAP	0.0069	0.035		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
2-Hexanone	NELAP	0.0069	0.035		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
4-Methyl-2-pentanone	NELAP	0.0069	0.035		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
Acetone	NELAP	0.0069	0.035	J	0.01	mg/Kg-dry	1	09/08/2013 1:38	91748
Benzene	NELAP	0.0003	0.001		0.002	mg/Kg-dry	1	09/08/2013 1:38	91748
Bromodichloromethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
Bromoform	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
Bromomethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/08/2013 1:38	91748



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-021

Client Sample ID: 1467V-1-B15-2

Matrix: SOLID

Collection Date: 08/29/2013 9:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbon disulfide	NELAP	0.0021	0.003		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
Carbon tetrachloride	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
Chlorobenzene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
Chloroethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
Chloroform	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
Chloromethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
cis-1,2-Dichloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
cis-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
Dibromochloromethane	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
Ethylbenzene	NELAP	0.0007	0.003	J	0.001	mg/Kg-dry	1	09/08/2013 1:38	91748
m,p-Xylenes	NELAP	0.0007	0.003	J	0.002	mg/Kg-dry	1	09/08/2013 1:38	91748
Methyl tert-butyl ether	NELAP	0.0003	0.001		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
Methylene chloride	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
o-Xylene	NELAP	0.0007	0.003	J	0.001	mg/Kg-dry	1	09/08/2013 1:38	91748
Styrene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
Tetrachloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
Toluene	NELAP	0.0007	0.003		0.004	mg/Kg-dry	1	09/08/2013 1:38	91748
trans-1,2-Dichloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
trans-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
Trichloroethene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
Vinyl acetate	NELAP	0.0138	0.035		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
Vinyl chloride	NELAP	0.0003	0.001		ND	mg/Kg-dry	1	09/08/2013 1:38	91748
Xylenes, Total	NELAP	0.0007	0.003	J	0.002	mg/Kg-dry	1	09/08/2013 1:38	91748
Surr: 1,2-Dichloroethane-d4			0 72.2-131		104.3	%REC	1	09/08/2013 1:38	91748
Surr: 4-Bromofluorobenzene			0 82.1-116		109.4	%REC	1	09/08/2013 1:38	91748
Surr: Dibromofluoromethane			0 77.7-120		100.2	%REC	1	09/08/2013 1:38	91748
Surr: Toluene-d8			0 86-116		104.9	%REC	1	09/08/2013 1:38	91748

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-022

Client Sample ID: 1467V-1-B16-1

Matrix: SOLID

Collection Date: 08/29/2013 8:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		4.8	%	1	09/03/2013 12:36	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		95.2	%	1	09/03/2013 12:36	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.48		1	09/04/2013 10:14	R181393
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.05	0.1		< 0.1	mg/L	1	09/11/2013 15:49	91780
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/11/2013 15:49	91780
Manganese	NELAP	0.0016	0.005		2.92	mg/L	1	09/11/2013 15:49	91780
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.148	mg/L	1	09/06/2013 13:51	91678
Beryllium	NELAP	0.0003	0.001	J	0.0007	mg/L	1	09/06/2013 13:51	91678
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 13:51	91678
Cadmium	NELAP	0.0003	0.002	J	0.0004	mg/L	1	09/06/2013 13:51	91678
Chromium	NELAP	0.004	0.01		0.0282	mg/L	1	09/06/2013 13:51	91678
Cobalt	NELAP	0.0022	0.01	J	0.009	mg/L	1	09/06/2013 13:51	91678
Iron	NELAP	0.007	0.02	X	25.5	mg/L	1	09/06/2013 13:51	91678
Lead	NELAP	0.006	0.007	X	0.0146	mg/L	1	09/06/2013 13:51	91678
Manganese	NELAP	0.0016	0.005	X	0.197	mg/L	1	09/06/2013 13:51	91678
Nickel	NELAP	0.0033	0.01		0.0273	mg/L	1	09/06/2013 13:51	91678
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 13:51	91678
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 13:51	91678
Zinc	NELAP	0.0021	0.01		0.0784	mg/L	1	09/06/2013 13:51	91678
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 21:32	91681
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 18:21	91681
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/06/2013 13:35	91687
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.45	4.9		8350	mg/Kg-dry	1	09/05/2013 23:37	91586
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	09/06/2013 0:38	91640
Arsenic	NELAP	1.23	2.45		3.37	mg/Kg-dry	1	09/06/2013 13:15	91586
Barium	NELAP	0.25	0.49		48.5	mg/Kg-dry	1	09/05/2013 23:37	91586
Beryllium	NELAP	0.05	0.1		0.46	mg/Kg-dry	1	09/05/2013 23:37	91586
Boron	NELAP	0.98	1.96		9.27	mg/Kg-dry	1	09/05/2013 23:37	91586
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	09/05/2013 23:37	91586
Calcium	NELAP	2.45	4.9		66600	mg/Kg-dry	1	09/05/2013 23:37	91586
Chromium	NELAP	0.49	0.98	X	15.5	mg/Kg-dry	1	09/05/2013 23:37	91586
Cobalt	NELAP	0.49	0.98		5.02	mg/Kg-dry	1	09/05/2013 23:37	91586
Copper	NELAP	0.49	0.98		12.5	mg/Kg-dry	1	09/05/2013 23:37	91586
Iron	NELAP	0.98	1.96		13100	mg/Kg-dry	1	09/05/2013 23:37	91586
Lead	NELAP	1.96	3.92		7.3	mg/Kg-dry	1	09/05/2013 23:37	91586
Magnesium	NELAP	0.49	0.98		36400	mg/Kg-dry	1	09/05/2013 23:37	91586
Manganese	NELAP	0.25	0.49		198	mg/Kg-dry	1	09/05/2013 23:37	91586
Nickel	NELAP	0.49	0.98		15	mg/Kg-dry	1	09/05/2013 23:37	91586
Potassium	NELAP	4.9	9.8		1560	mg/Kg-dry	1	09/06/2013 13:15	91586

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-022

Client Sample ID: 1467V-1-B16-1

Matrix: SOLID

Collection Date: 08/29/2013 8:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Silver	NELAP	0.49	0.54		< 0.54	mg/Kg-dry	1	09/05/2013 23:37	91586
Sodium	NELAP	2.45	4.9		214	mg/Kg-dry	1	09/05/2013 23:37	91586
Thallium	NELAP	2.45	2.55		< 2.55	mg/Kg-dry	1	09/05/2013 23:37	91586
Vanadium	NELAP	0.49	0.98		22.8	mg/Kg-dry	1	09/05/2013 23:37	91586
Zinc	NELAP	0.49	0.98		37.9	mg/Kg-dry	1	09/05/2013 23:37	91586
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.318	0.545		< 0.545	mg/Kg-dry	1	09/09/2013 16:35	91589
SW-846 7471B									
Mercury	NELAP	0.003	0.01		0.02	mg/Kg-dry	1	09/05/2013 11:44	91574
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.139	0.522		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
1,2-Dichlorobenzene	NELAP	0.166	0.522		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
1,3-Dichlorobenzene	NELAP	0.175	0.522		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
1,4-Dichlorobenzene	NELAP	0.166	0.522		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
2,4,5-Trichlorophenol	NELAP	0.099	0.365		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
2,4,6-Trichlorophenol	NELAP	0.132	0.365		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
2,4-Dichlorophenol	NELAP	0.126	0.522		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
2,4-Dimethylphenol	NELAP	0.133	0.522		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
2,4-Dinitrophenol	NELAP	0.112	1.04		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
2,4-Dinitrotoluene	NELAP	0.109	0.365		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
2,6-Dinitrotoluene	NELAP	0.113	0.365		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
2-Chloronaphthalene	NELAP	0.125	0.365		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
2-Chlorophenol	NELAP	0.133	0.522		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
2-Methylnaphthalene	NELAP	0.124	0.365		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
2-Nitroaniline	NELAP	0.095	1.04		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
2-Nitrophenol	NELAP	0.117	0.365		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
3,3'-Dichlorobenzidine	NELAP	0.209	0.365		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
3-Nitroaniline	NELAP	0.086	1.04		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
4,6-Dinitro-2-methylphenol	NELAP	0.113	1.04		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
4-Bromophenyl phenyl ether	NELAP	0.096	0.365		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
4-Chloro-3-methylphenol	NELAP	0.115	0.522		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
4-Chloroaniline	NELAP	0.126	0.522		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
4-Chlorophenyl phenyl ether	NELAP	0.103	0.365		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
4-Nitroaniline	NELAP	0.095	0.522		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
4-Nitrophenol	NELAP	0.102	0.365		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Acenaphthene	NELAP	0.017	0.035		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Acenaphthylene	NELAP	0.017	0.035		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Anthracene	NELAP	0.017	0.035		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Benzo(a)anthracene	NELAP	0.017	0.035		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Benzo(a)pyrene	NELAP	0.017	0.035		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Benzo(b)fluoranthene	NELAP	0.017	0.035		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Benzo(g,h,i)perylene	NELAP	0.017	0.035		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Benzo(k)fluoranthene	NELAP	0.017	0.035		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Bis(2-chloroethoxy)methane	NELAP	0.122	0.365		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Bis(2-chloroethyl)ether	NELAP	0.148	0.522		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Bis(2-chloroisopropyl)ether	NELAP	0.119	0.365		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Bis(2-ethylhexyl)phthalate	NELAP	0.122	0.365		ND	mg/Kg-dry	1	09/06/2013 17:34	91580

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-022

Client Sample ID: 1467V-1-B16-1

Matrix: SOLID

Collection Date: 08/29/2013 8:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Butyl benzyl phthalate	NELAP	0.105	0.365		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Carbazole		0.127	0.522		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Chrysene	NELAP	0.017	0.035		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Dibenzo(a,h)anthracene	NELAP	0.017	0.035		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Dibenzofuran	NELAP	0.132	0.365		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Diethyl phthalate	NELAP	0.1	0.522		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Dimethyl phthalate	NELAP	0.095	0.365		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Di-n-butyl phthalate	NELAP	0.108	0.365		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Di-n-octyl phthalate	NELAP	0.109	0.365		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Fluoranthene	NELAP	0.017	0.035		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Fluorene	NELAP	0.017	0.035		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Hexachlorobenzene	NELAP	0.102	0.365		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Hexachlorobutadiene	NELAP	0.162	0.522		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Hexachlorocyclopentadiene	NELAP	0.106	0.365		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Hexachloroethane	NELAP	0.174	0.522		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Indeno(1,2,3-cd)pyrene	NELAP	0.017	0.035		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Isophorone	NELAP	0.123	0.365		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
m,p-Cresol	NELAP	0.132	0.522		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Naphthalene	NELAP	0.017	0.035		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Nitrobenzene	NELAP	0.13	0.522		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
N-Nitroso-di-n-propylamine	NELAP	0.115	0.522		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
N-Nitrosodiphenylamine	NELAP	0.096	0.522		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
o-Cresol	NELAP	0.123	0.522		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Pentachlorophenol	NELAP	0.689	2.09		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Phenanthrene	NELAP	0.017	0.035		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Phenol	NELAP	0.121	0.365		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Pyrene	NELAP	0.017	0.035		ND	mg/Kg-dry	1	09/06/2013 17:34	91580
Surr: 2,4,6-Tribromophenol		0	32.7-130		57.7	%REC	1	09/06/2013 17:34	91580
Surr: 2-Fluorobiphenyl		0	34.1-116		50.2	%REC	1	09/06/2013 17:34	91580
Surr: 2-Fluorophenol		0	30.5-99		55.5	%REC	1	09/06/2013 17:34	91580
Surr: Nitrobenzene-d5		0	34.1-101		51.5	%REC	1	09/06/2013 17:34	91580
Surr: Phenol-d5		0	34.9-110		60.1	%REC	1	09/06/2013 17:34	91580
Surr: p-Terphenyl-d14		0	41.7-124		63.6	%REC	1	09/06/2013 17:34	91580

LCS recovered outside upper QC limits for Dibenzo(a,h)anthracene and Benzo(g,h,i)perylene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
1,1,2,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
2-Butanone	NELAP	0.0083	0.041		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
2-Hexanone	NELAP	0.0083	0.041		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
4-Methyl-2-pentanone	NELAP	0.0083	0.041		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
Acetone	NELAP	0.0083	0.041	J	0.037	mg/Kg-dry	1	09/08/2013 2:05	91748

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-022

Client Sample ID: 1467V-1-B16-1

Matrix: SOLID

Collection Date: 08/29/2013 8:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
Bromomethane	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
Carbon disulfide	NELAP	0.0025	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
Chloroethane	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
Chloromethane	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
Ethylbenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
m,p-Xylenes	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
Methylene chloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
o-Xylene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
Toluene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
Vinyl acetate	NELAP	0.0165	0.041		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
Xylenes, Total	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:05	91748
Surr: 1,2-Dichloroethane-d4		0	72.2-131		106.3	%REC	1	09/08/2013 2:05	91748
Surr: 4-Bromofluorobenzene		0	82.1-116	S	117.4	%REC	1	09/08/2013 2:05	91748
Surr: Dibromofluoromethane		0	77.7-120		100.8	%REC	1	09/08/2013 2:05	91748
Surr: Toluene-d8		0	86-116		107.2	%REC	1	09/08/2013 2:05	91748

Surrogate recovery is outside QC limits due to matrix interference.

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-023

Client Sample ID: 1467V-1-B16-2

Matrix: SOLID

Collection Date: 08/29/2013 8:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		10.3	%	1	09/03/2013 12:36	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		89.7	%	1	09/03/2013 12:36	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.47		1	09/04/2013 10:16	R181393
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0403	mg/L	1	09/06/2013 14:03	91678
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 14:03	91678
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 14:03	91678
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 14:03	91678
Chromium	NELAP	0.004	0.01	J	0.0067	mg/L	1	09/06/2013 14:03	91678
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/06/2013 14:03	91678
Iron	NELAP	0.007	0.02	S	3.82	mg/L	1	09/06/2013 14:03	91678
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 14:03	91678
Manganese	NELAP	0.0016	0.005		0.0399	mg/L	1	09/06/2013 14:03	91678
Nickel	NELAP	0.0033	0.01	J	0.0052	mg/L	1	09/06/2013 14:03	91678
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 14:03	91678
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 14:03	91678
Zinc	NELAP	0.0021	0.01		0.0158	mg/L	1	09/06/2013 14:03	91678
<i>Fe - MS did not recover within control limits due to matrix interference. Verified by bench spike.</i>									
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 21:35	91681
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 18:24	91681
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/06/2013 13:37	91687
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.36	4.72		5270	mg/Kg-dry	1	09/05/2013 23:43	91586
Antimony	NELAP	2.5	4.81		< 4.81	mg/Kg-dry	1	09/06/2013 0:42	91640
Arsenic	NELAP	1.18	2.36	J	1.57	mg/Kg-dry	1	09/05/2013 23:43	91586
Barium	NELAP	0.24	0.47		22.4	mg/Kg-dry	1	09/05/2013 23:43	91586
Beryllium	NELAP	0.05	0.09		0.3	mg/Kg-dry	1	09/05/2013 23:43	91586
Boron	NELAP	0.94	1.89		8.16	mg/Kg-dry	1	09/05/2013 23:43	91586
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	09/05/2013 23:43	91586
Calcium	NELAP	2.36	4.72		99500	mg/Kg-dry	1	09/05/2013 23:43	91586
Chromium	NELAP	0.47	0.94		10	mg/Kg-dry	1	09/05/2013 23:43	91586
Cobalt	NELAP	0.47	0.94		3.23	mg/Kg-dry	1	09/05/2013 23:43	91586
Copper	NELAP	0.47	0.94		11.2	mg/Kg-dry	1	09/05/2013 23:43	91586
Iron	NELAP	0.94	1.89		9150	mg/Kg-dry	1	09/05/2013 23:43	91586
Lead	NELAP	1.89	3.77		5.48	mg/Kg-dry	1	09/05/2013 23:43	91586
Magnesium	NELAP	0.47	0.94		39200	mg/Kg-dry	1	09/05/2013 23:43	91586
Manganese	NELAP	0.24	0.47		273	mg/Kg-dry	1	09/05/2013 23:43	91586
Nickel	NELAP	0.47	0.94		9.62	mg/Kg-dry	1	09/05/2013 23:43	91586
Potassium	NELAP	4.72	9.43		1320	mg/Kg-dry	1	09/06/2013 13:21	91586
Silver	NELAP	0.47	0.52		< 0.52	mg/Kg-dry	1	09/05/2013 23:43	91586
Sodium	NELAP	2.36	4.72		170	mg/Kg-dry	1	09/06/2013 13:21	91586
Thallium	NELAP	2.36	2.45		< 2.45	mg/Kg-dry	1	09/05/2013 23:43	91586
Vanadium	NELAP	0.47	0.94		13.4	mg/Kg-dry	1	09/05/2013 23:43	91586

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-023

Client Sample ID: 1467V-1-B16-2

Matrix: SOLID

Collection Date: 08/29/2013 8:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Zinc	NELAP	0.47	0.94		36.7	mg/Kg-dry	1	09/05/2013 23:43	91586
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.35	0.6		< 0.6	mg/Kg-dry	1	09/09/2013 16:38	91589
SW-846 7471B									
Mercury	NELAP	0.003	0.011	J	0.004	mg/Kg-dry	1	09/05/2013 11:46	91574
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.148	0.558		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
1,2-Dichlorobenzene	NELAP	0.177	0.558		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
1,3-Dichlorobenzene	NELAP	0.187	0.558		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
1,4-Dichlorobenzene	NELAP	0.177	0.558		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
2,4,5-Trichlorophenol	NELAP	0.106	0.39		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
2,4,6-Trichlorophenol	NELAP	0.141	0.39		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
2,4-Dichlorophenol	NELAP	0.135	0.558		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
2,4-Dimethylphenol	NELAP	0.142	0.558		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
2,4-Dinitrophenol	NELAP	0.119	1.12		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
2,4-Dinitrotoluene	NELAP	0.116	0.39		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
2,6-Dinitrotoluene	NELAP	0.12	0.39		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
2-Chloronaphthalene	NELAP	0.134	0.39		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
2-Chlorophenol	NELAP	0.142	0.558		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
2-Methylnaphthalene	NELAP	0.133	0.39		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
2-Nitroaniline	NELAP	0.102	1.12		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
2-Nitrophenol	NELAP	0.125	0.39		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
3,3'-Dichlorobenzidine	NELAP	0.223	0.39		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
3-Nitroaniline	NELAP	0.091	1.12		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
4,6-Dinitro-2-methylphenol	NELAP	0.12	1.12		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
4-Bromophenyl phenyl ether	NELAP	0.103	0.39		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
4-Chloro-3-methylphenol	NELAP	0.123	0.558		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
4-Chloroaniline	NELAP	0.135	0.558		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
4-Chlorophenyl phenyl ether	NELAP	0.11	0.39		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
4-Nitroaniline	NELAP	0.102	0.558		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
4-Nitrophenol	NELAP	0.109	0.39		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Acenaphthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Acenaphthylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Benzo(a)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Benzo(a)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Benzo(b)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Benzo(g,h,i)perylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Benzo(k)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Bis(2-chloroethoxy)methane	NELAP	0.131	0.39		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Bis(2-chloroethyl)ether	NELAP	0.158	0.558		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Bis(2-chloroisopropyl)ether	NELAP	0.127	0.39		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Bis(2-ethylhexyl)phthalate	NELAP	0.131	0.39		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Butyl benzyl phthalate	NELAP	0.113	0.39		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Carbazole		0.136	0.558		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Chrysene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Dibenzo(a,h)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 18:06	91580

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-023

Client Sample ID: 1467V-1-B16-2

Matrix: SOLID

Collection Date: 08/29/2013 8:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dibenzofuran	NELAP	0.141	0.39		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Diethyl phthalate	NELAP	0.107	0.558		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Dimethyl phthalate	NELAP	0.102	0.39		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Di-n-butyl phthalate	NELAP	0.115	0.39		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Di-n-octyl phthalate	NELAP	0.116	0.39		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Fluorene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Hexachlorobenzene	NELAP	0.109	0.39		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Hexachlorobutadiene	NELAP	0.173	0.558		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Hexachlorocyclopentadiene	NELAP	0.114	0.39		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Hexachloroethane	NELAP	0.186	0.558		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Isophorone	NELAP	0.132	0.39		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
m,p-Cresol	NELAP	0.141	0.558		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Naphthalene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Nitrobenzene	NELAP	0.139	0.558		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
N-Nitroso-di-n-propylamine	NELAP	0.123	0.558		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
N-Nitrosodiphenylamine	NELAP	0.103	0.558		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
o-Cresol	NELAP	0.132	0.558		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Pentachlorophenol	NELAP	0.736	2.23		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Phenanthrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Phenol	NELAP	0.129	0.39		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 18:06	91580
Surr: 2,4,6-Tribromophenol		0	32.7-130		57.4	%REC	1	09/06/2013 18:06	91580
Surr: 2-Fluorobiphenyl		0	34.1-116		47.9	%REC	1	09/06/2013 18:06	91580
Surr: 2-Fluorophenol		0	30.5-99		54.5	%REC	1	09/06/2013 18:06	91580
Surr: Nitrobenzene-d5		0	34.1-101		49.6	%REC	1	09/06/2013 18:06	91580
Surr: Phenol-d5		0	34.9-110		60.7	%REC	1	09/06/2013 18:06	91580
Surr: p-Terphenyl-d14		0	41.7-124		67.6	%REC	1	09/06/2013 18:06	91580

LCS recovered outside upper QC limits for Dibenzo(a,h)anthracene and Benzo(g,h,i)perylene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
1,1,2,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
2-Butanone	NELAP	0.0076	0.038		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
2-Hexanone	NELAP	0.0076	0.038		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
4-Methyl-2-pentanone	NELAP	0.0076	0.038		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
Acetone	NELAP	0.0076	0.038	J	0.011	mg/Kg-dry	1	09/08/2013 2:31	91748
Benzene	NELAP	0.0004	0.001		0.002	mg/Kg-dry	1	09/08/2013 2:31	91748
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
Bromomethane	NELAP	0.0015	0.008		ND	mg/Kg-dry	1	09/08/2013 2:31	91748



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-023

Client Sample ID: 1467V-1-B16-2

Matrix: SOLID

Collection Date: 08/29/2013 8:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbon disulfide	NELAP	0.0023	0.004		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
Chloroethane	NELAP	0.0015	0.008		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
Chloromethane	NELAP	0.0015	0.008		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
Ethylbenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
m,p-Xylenes	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/08/2013 2:31	91748
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
Methylene chloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
o-Xylene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
Toluene	NELAP	0.0008	0.004	J	0.003	mg/Kg-dry	1	09/08/2013 2:31	91748
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
Vinyl acetate	NELAP	0.0153	0.038		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/08/2013 2:31	91748
Xylenes, Total	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/08/2013 2:31	91748
Surr: 1,2-Dichloroethane-d4		0	72.2-131		108.1	%REC	1	09/08/2013 2:31	91748
Surr: 4-Bromofluorobenzene		0	82.1-116	S	118.6	%REC	1	09/08/2013 2:31	91748
Surr: Dibromofluoromethane		0	77.7-120		102.3	%REC	1	09/08/2013 2:31	91748
Surr: Toluene-d8		0	86-116		107.1	%REC	1	09/08/2013 2:31	91748

Surrogate recovery is outside QC limits due to matrix interference.

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-024

Client Sample ID: 1467V-1-B17-1

Matrix: SOLID

Collection Date: 08/29/2013 10:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		19.2	%	1	09/03/2013 12:37	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		80.8	%	1	09/03/2013 12:37	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.26		1	09/04/2013 10:18	R181393
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.511	mg/L	1	09/11/2013 15:38	91773
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/11/2013 15:38	91773
Manganese	NELAP	0.0016	0.005		0.063	mg/L	1	09/11/2013 15:38	91773
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0048	0.01		0.344	mg/L	2	09/06/2013 19:23	91678
Beryllium	NELAP	0.0003	0.001		0.0011	mg/L	1	09/06/2013 14:14	91678
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 14:14	91678
Cadmium	NELAP	0.0003	0.002	J	0.0004	mg/L	1	09/06/2013 14:14	91678
Chromium	NELAP	0.008	0.02		0.0652	mg/L	2	09/06/2013 19:23	91678
Cobalt	NELAP	0.0022	0.01	J	0.009	mg/L	1	09/06/2013 14:14	91678
Iron	NELAP	0.014	0.04	X	55.9	mg/L	2	09/06/2013 19:23	91678
Lead	NELAP	0.006	0.007	X	0.013	mg/L	1	09/06/2013 14:14	91678
Manganese	NELAP	0.0032	0.01	X	0.189	mg/L	2	09/06/2013 19:23	91678
Nickel	NELAP	0.0066	0.02		0.0314	mg/L	2	09/06/2013 19:23	91678
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 14:14	91678
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 14:14	91678
Zinc	NELAP	0.0042	0.02		0.134	mg/L	2	09/06/2013 19:23	91678
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 21:39	91681
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 18:28	91681
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002	J	0.00005	mg/L	1	09/06/2013 13:39	91687
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.5	5		19800	mg/Kg-dry	1	09/05/2013 23:49	91586
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	09/06/2013 0:45	91640
Arsenic	NELAP	1.25	2.5		5.22	mg/Kg-dry	1	09/05/2013 23:49	91586
Barium	NELAP	0.25	0.5		183	mg/Kg-dry	1	09/05/2013 23:49	91586
Beryllium	NELAP	0.05	0.1		0.82	mg/Kg-dry	1	09/05/2013 23:49	91586
Boron	NELAP	1	2		6.89	mg/Kg-dry	1	09/05/2013 23:49	91586
Cadmium	NELAP	0.1	0.2		0.23	mg/Kg-dry	1	09/05/2013 23:49	91586
Calcium	NELAP	2.5	5		4580	mg/Kg-dry	1	09/05/2013 23:49	91586
Chromium	NELAP	0.5	1	X	28.5	mg/Kg-dry	1	09/05/2013 23:49	91586
Cobalt	NELAP	0.5	1		11.8	mg/Kg-dry	1	09/05/2013 23:49	91586
Copper	NELAP	0.5	1		17.5	mg/Kg-dry	1	09/05/2013 23:49	91586
Iron	NELAP	1	2	X	24000	mg/Kg-dry	1	09/05/2013 23:49	91586
Lead	NELAP	2	4		18.3	mg/Kg-dry	1	09/05/2013 23:49	91586
Magnesium	NELAP	0.5	1		5230	mg/Kg-dry	1	09/05/2013 23:49	91586
Manganese	NELAP	0.25	0.5	X	1500	mg/Kg-dry	1	09/05/2013 23:49	91586
Nickel	NELAP	0.5	1		37.6	mg/Kg-dry	1	09/05/2013 23:49	91586
Potassium	NELAP	5	10		1610	mg/Kg-dry	1	09/06/2013 13:27	91586

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-024

Client Sample ID: 1467V-1-B17-1

Matrix: SOLID

Collection Date: 08/29/2013 10:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Silver	NELAP	0.5	0.55		< 0.55	mg/Kg-dry	1	09/05/2013 23:49	91586
Sodium	NELAP	2.5	5		2500	mg/Kg-dry	1	09/06/2013 13:27	91586
Thallium	NELAP	2.5	2.6		< 2.6	mg/Kg-dry	1	09/05/2013 23:49	91586
Vanadium	NELAP	0.5	1		43.4	mg/Kg-dry	1	09/05/2013 23:49	91586
Zinc	NELAP	0.5	1		64.5	mg/Kg-dry	1	09/05/2013 23:49	91586
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.337	0.577		< 0.577	mg/Kg-dry	1	09/09/2013 16:42	91589
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.044	mg/Kg-dry	1	09/05/2013 11:48	91574
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.165	0.621		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
1,2-Dichlorobenzene	NELAP	0.198	0.621		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
1,3-Dichlorobenzene	NELAP	0.209	0.621		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
1,4-Dichlorobenzene	NELAP	0.198	0.621		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
2,4,5-Trichlorophenol	NELAP	0.118	0.435		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
2,4,6-Trichlorophenol	NELAP	0.157	0.435		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
2,4-Dichlorophenol	NELAP	0.15	0.621		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
2,4-Dimethylphenol	NELAP	0.158	0.621		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
2,4-Dinitrophenol	NELAP	0.133	1.24		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
2,4-Dinitrotoluene	NELAP	0.129	0.435		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
2,6-Dinitrotoluene	NELAP	0.134	0.435		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
2-Chloronaphthalene	NELAP	0.149	0.435		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
2-Chlorophenol	NELAP	0.158	0.621		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
2-Methylnaphthalene	NELAP	0.148	0.435		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
2-Nitroaniline	NELAP	0.113	1.24		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
2-Nitrophenol	NELAP	0.139	0.435		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
3,3'-Dichlorobenzidine	NELAP	0.249	0.435		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
3-Nitroaniline	NELAP	0.102	1.24		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
4,6-Dinitro-2-methylphenol	NELAP	0.134	1.24		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
4-Bromophenyl phenyl ether	NELAP	0.114	0.435		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
4-Chloro-3-methylphenol	NELAP	0.137	0.621		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
4-Chloroaniline	NELAP	0.15	0.621		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
4-Chlorophenyl phenyl ether	NELAP	0.123	0.435		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
4-Nitroaniline	NELAP	0.113	0.621		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
4-Nitrophenol	NELAP	0.122	0.435		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Acenaphthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Acenaphthylene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Benzo(a)anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Benzo(a)pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Benzo(b)fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Benzo(g,h,i)perylene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Benzo(k)fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Bis(2-chloroethoxy)methane	NELAP	0.145	0.435		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Bis(2-chloroethyl)ether	NELAP	0.176	0.621		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Bis(2-chloroisopropyl)ether	NELAP	0.142	0.435		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Bis(2-ethylhexyl)phthalate	NELAP	0.145	0.435		ND	mg/Kg-dry	1	09/06/2013 18:39	91580

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-024

Client Sample ID: 1467V-1-B17-1

Matrix: SOLID

Collection Date: 08/29/2013 10:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Butyl benzyl phthalate	NELAP	0.126	0.435		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Carbazole		0.152	0.621		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Chrysene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Dibenzo(a,h)anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Dibenzofuran	NELAP	0.157	0.435		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Diethyl phthalate	NELAP	0.119	0.621		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Dimethyl phthalate	NELAP	0.113	0.435		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Di-n-butyl phthalate	NELAP	0.128	0.435		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Di-n-octyl phthalate	NELAP	0.129	0.435		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Fluorene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Hexachlorobenzene	NELAP	0.122	0.435		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Hexachlorobutadiene	NELAP	0.193	0.621		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Hexachlorocyclopentadiene	NELAP	0.127	0.435		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Hexachloroethane	NELAP	0.208	0.621		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Indeno(1,2,3-cd)pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Isophorone	NELAP	0.147	0.435		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
m,p-Cresol	NELAP	0.157	0.621		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Naphthalene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Nitrobenzene	NELAP	0.155	0.621		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
N-Nitroso-di-n-propylamine	NELAP	0.137	0.621		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
N-Nitrosodiphenylamine	NELAP	0.114	0.621		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
o-Cresol	NELAP	0.147	0.621		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Pentachlorophenol	NELAP	0.82	2.49		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Phenanthrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Phenol	NELAP	0.144	0.435		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 18:39	91580
Surr: 2,4,6-Tribromophenol		0	32.7-130		50.6	%REC	1	09/06/2013 18:39	91580
Surr: 2-Fluorobiphenyl		0	34.1-116		36.5	%REC	1	09/06/2013 18:39	91580
Surr: 2-Fluorophenol		0	30.5-99		50.2	%REC	1	09/06/2013 18:39	91580
Surr: Nitrobenzene-d5		0	34.1-101		51.4	%REC	1	09/06/2013 18:39	91580
Surr: Phenol-d5		0	34.9-110		53.5	%REC	1	09/06/2013 18:39	91580
Surr: p-Terphenyl-d14		0	41.7-124		63.4	%REC	1	09/06/2013 18:39	91580

LCS recovered outside upper QC limits for Dibenzo(a,h)anthracene and Benzo(g,h,i)perylene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
1,1,2,2-Tetrachloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
1,1,2-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
1,1-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
1,1-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
1,2-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
1,2-Dichloropropane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
1,3-Dichloropropene, Total		0.001	0.004		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
2-Butanone	NELAP	0.0098	0.049		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
2-Hexanone	NELAP	0.0098	0.049		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
4-Methyl-2-pentanone	NELAP	0.0098	0.049		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
Acetone	NELAP	0.0098	0.049		0.052	mg/Kg-dry	1	09/08/2013 2:57	91748



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-024

Client Sample ID: 1467V-1-B17-1

Matrix: SOLID

Collection Date: 08/29/2013 10:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.0005	0.001		0.003	mg/Kg-dry	1	09/08/2013 2:57	91748
Bromodichloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
Bromoform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
Bromomethane	NELAP	0.002	0.01		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
Carbon disulfide	NELAP	0.0029	0.005		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
Carbon tetrachloride	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
Chlorobenzene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
Chloroethane	NELAP	0.002	0.01		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
Chloroform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
Chloromethane	NELAP	0.002	0.01		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
cis-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
cis-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
Dibromochloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
Ethylbenzene	NELAP	0.001	0.005	J	0.002	mg/Kg-dry	1	09/08/2013 2:57	91748
m,p-Xylenes	NELAP	0.001	0.005	J	0.003	mg/Kg-dry	1	09/08/2013 2:57	91748
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
Methylene chloride	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
o-Xylene	NELAP	0.001	0.005	J	0.001	mg/Kg-dry	1	09/08/2013 2:57	91748
Styrene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
Tetrachloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
Toluene	NELAP	0.001	0.005		0.007	mg/Kg-dry	1	09/08/2013 2:57	91748
trans-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
trans-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
Trichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
Vinyl acetate	NELAP	0.0196	0.049		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/08/2013 2:57	91748
Xylenes, Total	NELAP	0.001	0.005	J	0.005	mg/Kg-dry	1	09/08/2013 2:57	91748
Surr: 1,2-Dichloroethane-d4		0	72.2-131		103.9	%REC	1	09/08/2013 2:57	91748
Surr: 4-Bromofluorobenzene		0	82.1-116		113.8	%REC	1	09/08/2013 2:57	91748
Surr: Dibromofluoromethane		0	77.7-120		100.3	%REC	1	09/08/2013 2:57	91748
Surr: Toluene-d8		0	86-116		105.3	%REC	1	09/08/2013 2:57	91748

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-025

Client Sample ID: 1467V-1-B17-2

Matrix: SOLID

Collection Date: 08/29/2013 10:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		9.6	%	1	09/03/2013 12:37	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		90.4	%	1	09/03/2013 12:37	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.6		1	09/04/2013 10:23	R181393
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0433	mg/L	1	09/06/2013 14:18	91678
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 14:18	91678
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 14:18	91678
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 14:18	91678
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/06/2013 14:18	91678
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/06/2013 14:18	91678
Iron	NELAP	0.007	0.02		0.447	mg/L	1	09/06/2013 14:18	91678
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 14:18	91678
Manganese	NELAP	0.0016	0.005		0.0372	mg/L	1	09/06/2013 14:18	91678
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/06/2013 14:18	91678
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 14:18	91678
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 14:18	91678
Zinc	NELAP	0.0021	0.01	J	0.0046	mg/L	1	09/06/2013 14:18	91678
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 21:43	91681
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 18:31	91681
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/06/2013 13:42	91687
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.45	4.9	S	6940	mg/Kg-dry	1	09/05/2013 23:55	91586
Antimony	NELAP	2.36	4.55		< 4.55	mg/Kg-dry	1	09/06/2013 0:49	91640
Arsenic	NELAP	1.23	2.45	J	1.6	mg/Kg-dry	1	09/05/2013 23:55	91586
Barium	NELAP	0.25	0.49		34	mg/Kg-dry	1	09/05/2013 23:55	91586
Beryllium	NELAP	0.05	0.1		0.44	mg/Kg-dry	1	09/05/2013 23:55	91586
Boron	NELAP	0.98	1.96		10.5	mg/Kg-dry	1	09/05/2013 23:55	91586
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	09/05/2013 23:55	91586
Calcium	NELAP	2.45	4.9	S	82000	mg/Kg-dry	1	09/05/2013 23:55	91586
Chromium	NELAP	0.49	0.98	X	13.1	mg/Kg-dry	1	09/05/2013 23:55	91586
Cobalt	NELAP	0.49	0.98		4.66	mg/Kg-dry	1	09/05/2013 23:55	91586
Copper	NELAP	0.49	0.98		11.9	mg/Kg-dry	1	09/05/2013 23:55	91586
Iron	NELAP	0.98	1.96	S	12100	mg/Kg-dry	1	09/05/2013 23:55	91586
Lead	NELAP	1.96	3.92		5.67	mg/Kg-dry	1	09/05/2013 23:55	91586
Magnesium	NELAP	0.49	0.98	S	37600	mg/Kg-dry	1	09/05/2013 23:55	91586
Manganese	NELAP	0.25	0.49	S	312	mg/Kg-dry	1	09/05/2013 23:55	91586
Nickel	NELAP	0.49	0.98		12.8	mg/Kg-dry	1	09/05/2013 23:55	91586
Potassium	NELAP	4.9	9.8	S	1860	mg/Kg-dry	1	09/06/2013 13:34	91586
Silver	NELAP	0.49	0.54		< 0.54	mg/Kg-dry	1	09/05/2013 23:55	91586
Sodium	NELAP	2.45	4.9		222	mg/Kg-dry	1	09/06/2013 13:34	91586
Thallium	NELAP	2.45	2.55		< 2.55	mg/Kg-dry	1	09/05/2013 23:55	91586
Vanadium	NELAP	0.49	0.98		17.2	mg/Kg-dry	1	09/05/2013 23:55	91586
Zinc	NELAP	0.49	0.98		29.4	mg/Kg-dry	1	09/05/2013 23:55	91586

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-025

Client Sample ID: 1467V-1-B17-2

Matrix: SOLID

Collection Date: 08/29/2013 10:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
<i>MS QC limits for K are not applicable due to high sample/spike ratio.</i>									
<i>MS QC limits for Al, Ca, Fe, Mg, and Mn are not applicable due to high sample/spike ratio.</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.33	0.566	S	< 0.566	mg/Kg-dry	1	09/10/2013 12:25	91589
<i>Se - Matrix interference present in sample. Confirmed by bench spike.</i>									
SW-846 7471B									
Mercury	NELAP	0.003	0.011	J	0.008	mg/Kg-dry	1	09/05/2013 11:51	91574
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.146	0.55		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
1,2-Dichlorobenzene	NELAP	0.175	0.55		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
1,3-Dichlorobenzene	NELAP	0.185	0.55		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
1,4-Dichlorobenzene	NELAP	0.175	0.55		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
2,4,5-Trichlorophenol	NELAP	0.104	0.385		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
2,4,6-Trichlorophenol	NELAP	0.139	0.385		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
2,4-Dichlorophenol	NELAP	0.133	0.55		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
2,4-Dimethylphenol	NELAP	0.14	0.55		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
2,4-Dinitrophenol	NELAP	0.118	1.1		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
2,4-Dinitrotoluene	NELAP	0.114	0.385		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
2,6-Dinitrotoluene	NELAP	0.119	0.385		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
2-Chloronaphthalene	NELAP	0.132	0.385		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
2-Chlorophenol	NELAP	0.14	0.55		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
2-Methylnaphthalene	NELAP	0.131	0.385		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
2-Nitroaniline	NELAP	0.1	1.1		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
2-Nitrophenol	NELAP	0.123	0.385		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
3,3'-Dichlorobenzidine	NELAP	0.22	0.385		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
3-Nitroaniline	NELAP	0.09	1.1		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
4,6-Dinitro-2-methylphenol	NELAP	0.119	1.1		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
4-Bromophenyl phenyl ether	NELAP	0.101	0.385		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
4-Chloro-3-methylphenol	NELAP	0.121	0.55		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
4-Chloroaniline	NELAP	0.133	0.55		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
4-Chlorophenyl phenyl ether	NELAP	0.109	0.385		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
4-Nitroaniline	NELAP	0.1	0.55		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
4-Nitrophenol	NELAP	0.108	0.385		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Acenaphthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Acenaphthylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Benzo(a)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Benzo(a)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Benzo(b)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Benzo(g,h,i)perylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Benzo(k)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Bis(2-chloroethoxy)methane	NELAP	0.129	0.385		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Bis(2-chloroethyl)ether	NELAP	0.156	0.55		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Bis(2-chloroisopropyl)ether	NELAP	0.125	0.385		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Bis(2-ethylhexyl)phthalate	NELAP	0.129	0.385		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Butyl benzyl phthalate	NELAP	0.111	0.385		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Carbazole		0.134	0.55		ND	mg/Kg-dry	1	09/06/2013 19:11	91580

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-025

Client Sample ID: 1467V-1-B17-2

Matrix: SOLID

Collection Date: 08/29/2013 10:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chrysene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Dibenzo(a,h)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Dibenzofuran	NELAP	0.139	0.385		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Diethyl phthalate	NELAP	0.106	0.55		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Dimethyl phthalate	NELAP	0.1	0.385		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Di-n-butyl phthalate	NELAP	0.113	0.385		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Di-n-octyl phthalate	NELAP	0.114	0.385		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Fluorene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Hexachlorobenzene	NELAP	0.108	0.385		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Hexachlorobutadiene	NELAP	0.17	0.55		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Hexachlorocyclopentadiene	NELAP	0.112	0.385		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Hexachloroethane	NELAP	0.184	0.55		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Indeno(1,2,3-cd)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Isophorone	NELAP	0.13	0.385		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
m,p-Cresol	NELAP	0.139	0.55		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Naphthalene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Nitrobenzene	NELAP	0.137	0.55		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
N-Nitroso-di-n-propylamine	NELAP	0.121	0.55		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
N-Nitrosodiphenylamine	NELAP	0.101	0.55		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
o-Cresol	NELAP	0.13	0.55		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Pentachlorophenol	NELAP	0.725	2.2		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Phenanthrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Phenol	NELAP	0.128	0.385		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/06/2013 19:11	91580
Surr: 2,4,6-Tribromophenol		0	32.7-130		51.4	%REC	1	09/06/2013 19:11	91580
Surr: 2-Fluorobiphenyl		0	34.1-116		34.5	%REC	1	09/06/2013 19:11	91580
Surr: 2-Fluorophenol		0	30.5-99		48.6	%REC	1	09/06/2013 19:11	91580
Surr: Nitrobenzene-d5		0	34.1-101		51.6	%REC	1	09/06/2013 19:11	91580
Surr: Phenol-d5		0	34.9-110		54.8	%REC	1	09/06/2013 19:11	91580
Surr: p-Terphenyl-d14		0	41.7-124		63.7	%REC	1	09/06/2013 19:11	91580

LCS recovered outside upper QC limits for Dibenzo(a,h)anthracene and Benzo(g,h,i)perylene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
1,1,2,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
2-Butanone	NELAP	0.0077	0.038		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
2-Hexanone	NELAP	0.0077	0.038		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
4-Methyl-2-pentanone	NELAP	0.0077	0.038		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
Acetone	NELAP	0.0077	0.038	J	0.017	mg/Kg-dry	1	09/08/2013 3:24	91748
Benzene	NELAP	0.0004	0.001		0.003	mg/Kg-dry	1	09/08/2013 3:24	91748
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 3:24	91748



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-025

Client Sample ID: 1467V-1-B17-2

Matrix: SOLID

Collection Date: 08/29/2013 10:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
Bromomethane	NELAP	0.0015	0.008		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
Carbon disulfide	NELAP	0.0023	0.004		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
Chloroethane	NELAP	0.0015	0.008		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
Chloromethane	NELAP	0.0015	0.008		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
Ethylbenzene	NELAP	0.0008	0.004	J	0.002	mg/Kg-dry	1	09/08/2013 3:24	91748
m,p-Xylenes	NELAP	0.0008	0.004	J	0.002	mg/Kg-dry	1	09/08/2013 3:24	91748
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
Methylene chloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
o-Xylene	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/08/2013 3:24	91748
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
Toluene	NELAP	0.0008	0.004		0.005	mg/Kg-dry	1	09/08/2013 3:24	91748
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
Vinyl acetate	NELAP	0.0154	0.038		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/08/2013 3:24	91748
Xylenes, Total	NELAP	0.0008	0.004	J	0.003	mg/Kg-dry	1	09/08/2013 3:24	91748
Surr: 1,2-Dichloroethane-d4		0	72.2-131		105.1	%REC	1	09/08/2013 3:24	91748
Surr: 4-Bromofluorobenzene		0	82.1-116		110.8	%REC	1	09/08/2013 3:24	91748
Surr: Dibromofluoromethane		0	77.7-120		99	%REC	1	09/08/2013 3:24	91748
Surr: Toluene-d8		0	86-116		105.1	%REC	1	09/08/2013 3:24	91748

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-026

Client Sample ID: 1467V-1-B18-1

Matrix: SOLID

Collection Date: 08/29/2013 15:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		18.5	%	1	09/03/2013 12:37	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		81.5	%	1	09/03/2013 12:37	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.94		1	09/04/2013 10:26	R181393
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0331	mg/L	1	09/10/2013 7:44	91695
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 18:28	91695
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 18:28	91695
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 18:28	91695
Chromium	NELAP	0.004	0.01	J	0.0062	mg/L	1	09/06/2013 18:28	91695
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/06/2013 18:28	91695
Iron	NELAP	0.007	0.02		3.07	mg/L	1	09/06/2013 18:28	91695
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 18:28	91695
Manganese	NELAP	0.0016	0.005		0.0199	mg/L	1	09/10/2013 7:44	91695
Nickel	NELAP	0.0033	0.01	J	0.004	mg/L	1	09/06/2013 18:28	91695
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 18:28	91695
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 18:28	91695
Zinc	NELAP	0.0021	0.01		0.0124	mg/L	1	09/06/2013 18:28	91695
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/06/2013 22:09	91696
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 18:41	91696
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/09/2013 16:48	91727
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.45	4.9		18900	mg/Kg-dry	1	09/06/2013 0:13	91586
Antimony	NELAP	2.6	5		< 5	mg/Kg-dry	1	09/06/2013 1:00	91640
Arsenic	NELAP	1.23	2.45		10.2	mg/Kg-dry	1	09/06/2013 0:13	91586
Barium	NELAP	0.25	0.49		173	mg/Kg-dry	1	09/06/2013 0:13	91586
Beryllium	NELAP	0.05	0.1		0.86	mg/Kg-dry	1	09/06/2013 0:13	91586
Boron	NELAP	0.98	1.96		5.2	mg/Kg-dry	1	09/06/2013 0:13	91586
Cadmium	NELAP	0.1	0.2		0.2	mg/Kg-dry	1	09/06/2013 0:13	91586
Calcium	NELAP	2.45	4.9		4600	mg/Kg-dry	1	09/06/2013 0:13	91586
Chromium	NELAP	0.49	0.98	X	24.6	mg/Kg-dry	1	09/06/2013 0:13	91586
Cobalt	NELAP	0.49	0.98		11.4	mg/Kg-dry	1	09/06/2013 0:13	91586
Copper	NELAP	0.49	0.98		11.6	mg/Kg-dry	1	09/06/2013 0:13	91586
Iron	NELAP	0.98	1.96	X	26700	mg/Kg-dry	1	09/06/2013 0:13	91586
Lead	NELAP	1.96	3.92		17.4	mg/Kg-dry	1	09/06/2013 0:13	91586
Magnesium	NELAP	0.49	0.98		4630	mg/Kg-dry	1	09/06/2013 0:13	91586
Manganese	NELAP	0.25	0.49	X	972	mg/Kg-dry	1	09/06/2013 0:13	91586
Nickel	NELAP	0.49	0.98		21.9	mg/Kg-dry	1	09/06/2013 0:13	91586
Potassium	NELAP	4.9	9.8		997	mg/Kg-dry	1	09/06/2013 13:52	91586
Silver	NELAP	0.49	0.54		< 0.54	mg/Kg-dry	1	09/06/2013 0:13	91586
Sodium	NELAP	2.45	4.9		655	mg/Kg-dry	1	09/06/2013 13:52	91586
Thallium	NELAP	2.45	2.55		< 2.55	mg/Kg-dry	1	09/06/2013 0:13	91586
Vanadium	NELAP	0.49	0.98		46.7	mg/Kg-dry	1	09/06/2013 0:13	91586
Zinc	NELAP	0.49	0.98		68.7	mg/Kg-dry	1	09/06/2013 0:13	91586

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-026

Client Sample ID: 1467V-1-B18-1

Matrix: SOLID

Collection Date: 08/29/2013 15:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.337	0.577		< 0.577	mg/Kg-dry	1	09/09/2013 17:06	91589
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.064	mg/Kg-dry	1	09/05/2013 11:53	91574
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.163	0.611		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
1,2-Dichlorobenzene	NELAP	0.194	0.611		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
1,3-Dichlorobenzene	NELAP	0.205	0.611		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
1,4-Dichlorobenzene	NELAP	0.194	0.611		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
2,4,5-Trichlorophenol	NELAP	0.116	0.428		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
2,4,6-Trichlorophenol	NELAP	0.154	0.428		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
2,4-Dichlorophenol	NELAP	0.148	0.611		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
2,4-Dimethylphenol	NELAP	0.155	0.611		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
2,4-Dinitrophenol	NELAP	0.131	1.22		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
2,4-Dinitrotoluene	NELAP	0.127	0.428		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
2,6-Dinitrotoluene	NELAP	0.132	0.428		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
2-Chloronaphthalene	NELAP	0.147	0.428		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
2-Chlorophenol	NELAP	0.155	0.611		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
2-Methylnaphthalene	NELAP	0.145	0.428		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
2-Nitroaniline	NELAP	0.111	1.22		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
2-Nitrophenol	NELAP	0.137	0.428		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
3,3'-Dichlorobenzidine	NELAP	0.244	0.428		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
3-Nitroaniline	NELAP	0.1	1.22		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
4,6-Dinitro-2-methylphenol	NELAP	0.132	1.22		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
4-Bromophenyl phenyl ether	NELAP	0.112	0.428		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
4-Chloro-3-methylphenol	NELAP	0.134	0.611		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
4-Chloroaniline	NELAP	0.148	0.611		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
4-Chlorophenyl phenyl ether	NELAP	0.121	0.428		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
4-Nitroaniline	NELAP	0.111	0.611		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
4-Nitrophenol	NELAP	0.12	0.428		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Acenaphthene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Acenaphthylene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Anthracene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Benzo(a)anthracene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Benzo(a)pyrene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Benzo(b)fluoranthene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Benzo(g,h,i)perylene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Benzo(k)fluoranthene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Bis(2-chloroethoxy)methane	NELAP	0.143	0.428		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Bis(2-chloroethyl)ether	NELAP	0.174	0.611		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Bis(2-chloroisopropyl)ether	NELAP	0.139	0.428		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Bis(2-ethylhexyl)phthalate	NELAP	0.143	0.428		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Butyl benzyl phthalate	NELAP	0.123	0.428		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Carbazole		0.149	0.611		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Chrysene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Dibenzo(a,h)anthracene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Dibenzofuran	NELAP	0.154	0.428		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Diethyl phthalate	NELAP	0.117	0.611		ND	mg/Kg-dry	1	09/06/2013 19:44	91580

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-026

Client Sample ID: 1467V-1-B18-1

Matrix: SOLID

Collection Date: 08/29/2013 15:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dimethyl phthalate	NELAP	0.111	0.428		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Di-n-butyl phthalate	NELAP	0.126	0.428		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Di-n-octyl phthalate	NELAP	0.127	0.428		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Fluoranthene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Fluorene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Hexachlorobenzene	NELAP	0.12	0.428		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Hexachlorobutadiene	NELAP	0.189	0.611		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Hexachlorocyclopentadiene	NELAP	0.125	0.428		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Hexachloroethane	NELAP	0.204	0.611		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Isophorone	NELAP	0.144	0.428		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
m,p-Cresol	NELAP	0.154	0.611		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Naphthalene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Nitrobenzene	NELAP	0.153	0.611		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
N-Nitroso-di-n-propylamine	NELAP	0.134	0.611		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
N-Nitrosodiphenylamine	NELAP	0.112	0.611		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
o-Cresol	NELAP	0.144	0.611		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Pentachlorophenol	NELAP	0.807	2.44		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Phenanthrene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Phenol	NELAP	0.142	0.428		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Pyrene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 19:44	91580
Surr: 2,4,6-Tribromophenol		0	32.7-130		52.8	%REC	1	09/06/2013 19:44	91580
Surr: 2-Fluorobiphenyl		0	34.1-116		37.2	%REC	1	09/06/2013 19:44	91580
Surr: 2-Fluorophenol		0	30.5-99		49.8	%REC	1	09/06/2013 19:44	91580
Surr: Nitrobenzene-d5		0	34.1-101		47.2	%REC	1	09/06/2013 19:44	91580
Surr: Phenol-d5		0	34.9-110		53.5	%REC	1	09/06/2013 19:44	91580
Surr: p-Terphenyl-d14		0	41.7-124		60.7	%REC	1	09/06/2013 19:44	91580

LCS recovered outside upper QC limits for Dibenzo(a,h)anthracene and Benzo(g,h,i)perylene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
1,1,2-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
1,1-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
1,1-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
1,2-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
1,2-Dichloropropane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
1,3-Dichloropropene, Total		0.0009	0.003		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
2-Butanone	NELAP	0.0087	0.043		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
2-Hexanone	NELAP	0.0087	0.043		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
4-Methyl-2-pentanone	NELAP	0.0087	0.043		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
Acetone	NELAP	0.0087	0.043		0.048	mg/Kg-dry	1	09/08/2013 3:51	91748
Benzene	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
Bromodichloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
Bromoform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
Bromomethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
Carbon disulfide	NELAP	0.0026	0.004		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
Carbon tetrachloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 3:51	91748



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-026

Client Sample ID: 1467V-1-B18-1

Matrix: SOLID

Collection Date: 08/29/2013 15:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chlorobenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
Chloroethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
Chloroform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
Chloromethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
cis-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
cis-1,3-Dichloropropene	NELAP	0.0009	0.003		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
Dibromochloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
Ethylbenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
m,p-Xylenes	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
Methylene chloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
o-Xylene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
Styrene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
Tetrachloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
Toluene	NELAP	0.0009	0.004	J	0.001	mg/Kg-dry	1	09/08/2013 3:51	91748
trans-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
trans-1,3-Dichloropropene	NELAP	0.0009	0.003		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
Trichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
Vinyl acetate	NELAP	0.0173	0.043		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
Xylenes, Total	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 3:51	91748
Surr: 1,2-Dichloroethane-d4		0	72.2-131		108.7	%REC	1	09/08/2013 3:51	91748
Surr: 4-Bromofluorobenzene		0	82.1-116		106.4	%REC	1	09/08/2013 3:51	91748
Surr: Dibromofluoromethane		0	77.7-120		102.3	%REC	1	09/08/2013 3:51	91748
Surr: Toluene-d8		0	86-116		102.7	%REC	1	09/08/2013 3:51	91748

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-027

Client Sample ID: 1467V-1-B22-1

Matrix: SOLID

Collection Date: 08/30/2013 7:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		11.4	%	1	09/03/2013 12:37	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		88.6	%	1	09/03/2013 12:37	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.35		1	09/04/2013 10:29	R181393
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0336	mg/L	1	09/10/2013 7:48	91695
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 18:32	91695
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 18:32	91695
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/06/2013 18:32	91695
Chromium	NELAP	0.004	0.01	J	0.0058	mg/L	1	09/06/2013 18:32	91695
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/06/2013 18:32	91695
Iron	NELAP	0.007	0.02		3.26	mg/L	1	09/06/2013 18:32	91695
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 18:32	91695
Manganese	NELAP	0.0016	0.005		0.0421	mg/L	1	09/10/2013 7:48	91695
Nickel	NELAP	0.0033	0.01	J	0.0035	mg/L	1	09/06/2013 18:32	91695
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 18:32	91695
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 18:32	91695
Zinc	NELAP	0.0021	0.01		0.0121	mg/L	1	09/06/2013 18:32	91695
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/10/2013 13:49	91696
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 18:45	91696
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/09/2013 16:55	91727
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.45	4.9		18600	mg/Kg-dry	1	09/06/2013 0:19	91586
Antimony	NELAP	2.5	4.81		< 4.81	mg/Kg-dry	1	09/06/2013 1:04	91640
Arsenic	NELAP	1.23	2.45		8.54	mg/Kg-dry	1	09/06/2013 0:19	91586
Barium	NELAP	0.25	0.49		169	mg/Kg-dry	1	09/06/2013 0:19	91586
Beryllium	NELAP	0.05	0.1		0.79	mg/Kg-dry	1	09/06/2013 0:19	91586
Boron	NELAP	0.98	1.96		4.37	mg/Kg-dry	1	09/06/2013 0:19	91586
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	09/06/2013 0:19	91586
Calcium	NELAP	2.45	4.9		3220	mg/Kg-dry	1	09/06/2013 0:19	91586
Chromium	NELAP	0.49	0.98	X	22.2	mg/Kg-dry	1	09/06/2013 0:19	91586
Cobalt	NELAP	0.49	0.98		12.5	mg/Kg-dry	1	09/06/2013 0:19	91586
Copper	NELAP	0.49	0.98		15.3	mg/Kg-dry	1	09/06/2013 0:19	91586
Iron	NELAP	0.98	1.96	X	21600	mg/Kg-dry	1	09/06/2013 0:19	91586
Lead	NELAP	1.96	3.92		22.7	mg/Kg-dry	1	09/06/2013 0:19	91586
Magnesium	NELAP	0.49	0.98		3850	mg/Kg-dry	1	09/06/2013 0:19	91586
Manganese	NELAP	0.25	0.49	X	1100	mg/Kg-dry	1	09/06/2013 0:19	91586
Nickel	NELAP	0.49	0.98		20.6	mg/Kg-dry	1	09/06/2013 0:19	91586
Potassium	NELAP	4.9	9.8		1430	mg/Kg-dry	1	09/06/2013 13:58	91586
Silver	NELAP	0.49	0.54		< 0.54	mg/Kg-dry	1	09/06/2013 0:19	91586
Sodium	NELAP	2.45	4.9		106	mg/Kg-dry	1	09/06/2013 13:58	91586
Thallium	NELAP	2.45	2.55		< 2.55	mg/Kg-dry	1	09/06/2013 0:19	91586
Vanadium	NELAP	0.49	0.98		39	mg/Kg-dry	1	09/06/2013 0:19	91586
Zinc	NELAP	0.49	0.98		61.7	mg/Kg-dry	1	09/06/2013 0:19	91586

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-027

Client Sample ID: 1467V-1-B22-1

Matrix: SOLID

Collection Date: 08/30/2013 7:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.337	0.577	J	0.388	mg/Kg-dry	1	09/09/2013 17:09	91589
SW-846 7471B									
Mercury	NELAP	0.003	0.011		0.032	mg/Kg-dry	1	09/05/2013 11:55	91574
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.15	0.565		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
1,2-Dichlorobenzene	NELAP	0.18	0.565		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
1,3-Dichlorobenzene	NELAP	0.19	0.565		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
1,4-Dichlorobenzene	NELAP	0.18	0.565		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
2,4,5-Trichlorophenol	NELAP	0.107	0.395		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
2,4,6-Trichlorophenol	NELAP	0.142	0.395		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
2,4-Dichlorophenol	NELAP	0.137	0.565		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
2,4-Dimethylphenol	NELAP	0.143	0.565		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
2,4-Dinitrophenol	NELAP	0.121	1.13		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
2,4-Dinitrotoluene	NELAP	0.117	0.395		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
2,6-Dinitrotoluene	NELAP	0.122	0.395		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
2-Chloronaphthalene	NELAP	0.136	0.395		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
2-Chlorophenol	NELAP	0.143	0.565		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
2-Methylnaphthalene	NELAP	0.134	0.395		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
2-Nitroaniline	NELAP	0.103	1.13		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
2-Nitrophenol	NELAP	0.126	0.395		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
3,3'-Dichlorobenzidine	NELAP	0.226	0.395		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
3-Nitroaniline	NELAP	0.093	1.13		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
4,6-Dinitro-2-methylphenol	NELAP	0.122	1.13		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
4-Bromophenyl phenyl ether	NELAP	0.104	0.395		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
4-Chloro-3-methylphenol	NELAP	0.124	0.565		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
4-Chloroaniline	NELAP	0.137	0.565		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
4-Chlorophenyl phenyl ether	NELAP	0.112	0.395		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
4-Nitroaniline	NELAP	0.103	0.565		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
4-Nitrophenol	NELAP	0.111	0.395		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Acenaphthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Acenaphthylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Benzo(a)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Benzo(a)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Benzo(b)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Benzo(g,h,i)perylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Benzo(k)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Bis(2-chloroethoxy)methane	NELAP	0.132	0.395		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Bis(2-chloroethyl)ether	NELAP	0.16	0.565		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Bis(2-chloroisopropyl)ether	NELAP	0.129	0.395		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Bis(2-ethylhexyl)phthalate	NELAP	0.132	0.395		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Butyl benzyl phthalate	NELAP	0.114	0.395		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Carbazole		0.138	0.565		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Chrysene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Dibenzo(a,h)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Dibenzofuran	NELAP	0.142	0.395		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Diethyl phthalate	NELAP	0.108	0.565		ND	mg/Kg-dry	1	09/06/2013 20:16	91580

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-027

Client Sample ID: 1467V-1-B22-1

Matrix: SOLID

Collection Date: 08/30/2013 7:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dimethyl phthalate	NELAP	0.103	0.395		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Di-n-butyl phthalate	NELAP	0.116	0.395		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Di-n-octyl phthalate	NELAP	0.117	0.395		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Fluorene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Hexachlorobenzene	NELAP	0.111	0.395		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Hexachlorobutadiene	NELAP	0.175	0.565		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Hexachlorocyclopentadiene	NELAP	0.115	0.395		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Hexachloroethane	NELAP	0.189	0.565		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Isophorone	NELAP	0.133	0.395		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
m,p-Cresol	NELAP	0.142	0.565		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Naphthalene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Nitrobenzene	NELAP	0.141	0.565		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
N-Nitroso-di-n-propylamine	NELAP	0.124	0.565		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
N-Nitrosodiphenylamine	NELAP	0.104	0.565		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
o-Cresol	NELAP	0.133	0.565		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Pentachlorophenol	NELAP	0.745	2.26		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Phenanthrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Phenol	NELAP	0.131	0.395		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:16	91580
Surr: 2,4,6-Tribromophenol		0	32.7-130		105.1	%REC	1	09/06/2013 20:16	91580
Surr: 2-Fluorobiphenyl		0	34.1-116		101.5	%REC	1	09/06/2013 20:16	91580
Surr: 2-Fluorophenol		0	30.5-99	S	100.7	%REC	1	09/06/2013 20:16	91580
Surr: Nitrobenzene-d5		0	34.1-101	S	104.1	%REC	1	09/06/2013 20:16	91580
Surr: Phenol-d5		0	34.9-110	S	111.2	%REC	1	09/06/2013 20:16	91580
Surr: p-Terphenyl-d14		0	41.7-124	S	127.7	%REC	1	09/06/2013 20:16	91580

Surrogate recovery is outside QC limits due to matrix interference.

LCS recovered outside upper QC limits for Dibenzo(a,h)anthracene and Benzo(g,h,i)perylene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
1,1,1,2-Tetrachloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
1,1,2-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
1,1-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
1,1-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
1,2-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
1,2-Dichloropropane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
1,3-Dichloropropene, Total		0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
2-Butanone	NELAP	0.0089	0.044	J	0.019	mg/Kg-dry	1	09/08/2013 4:18	91748
2-Hexanone	NELAP	0.0089	0.044		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
4-Methyl-2-pentanone	NELAP	0.0089	0.044		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
Acetone	NELAP	0.0089	0.044		0.101	mg/Kg-dry	1	09/08/2013 4:18	91748
Benzene	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
Bromodichloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
Bromoform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
Bromomethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
Carbon disulfide	NELAP	0.0027	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-027

Client Sample ID: 1467V-1-B22-1

Matrix: SOLID

Collection Date: 08/30/2013 7:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbon tetrachloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
Chlorobenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
Chloroethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
Chloroform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
Chloromethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
cis-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
cis-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
Dibromochloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
Ethylbenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
m,p-Xylenes	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
Methylene chloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
o-Xylene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
Styrene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
Tetrachloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
Toluene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
trans-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
trans-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
Trichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
Vinyl acetate	NELAP	0.0177	0.044		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
Xylenes, Total	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/08/2013 4:18	91748
Surr: 1,2-Dichloroethane-d4		0	72.2-131		105	%REC	1	09/08/2013 4:18	91748
Surr: 4-Bromofluorobenzene		0	82.1-116		103.6	%REC	1	09/08/2013 4:18	91748
Surr: Dibromofluoromethane		0	77.7-120		100.9	%REC	1	09/08/2013 4:18	91748
Surr: Toluene-d8		0	86-116		103.2	%REC	1	09/08/2013 4:18	91748

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-028

Client Sample ID: 1467V-1-B22-2

Matrix: SOLID

Collection Date: 08/30/2013 7:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		10.7	%	1	09/03/2013 12:38	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		89.3	%	1	09/03/2013 12:38	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.43		1	09/04/2013 10:32	R181393
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0086	mg/L	1	09/10/2013 7:55	91695
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/06/2013 18:39	91695
Boron	NELAP	1	2		< 2	mg/L	1	09/06/2013 18:39	91695
Cadmium	NELAP	0.0003	0.002	J	0.0003	mg/L	1	09/06/2013 18:39	91695
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/06/2013 18:39	91695
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/06/2013 18:39	91695
Iron	NELAP	0.007	0.02		0.125	mg/L	1	09/06/2013 18:39	91695
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/06/2013 18:39	91695
Manganese	NELAP	0.0016	0.005	J	0.0026	mg/L	1	09/10/2013 7:55	91695
Nickel	NELAP	0.0033	0.01	J	0.0037	mg/L	1	09/06/2013 18:39	91695
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/06/2013 18:39	91695
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/06/2013 18:39	91695
Zinc	NELAP	0.0021	0.01	J	0.0051	mg/L	1	09/06/2013 18:39	91695
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/10/2013 14:00	91696
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 18:59	91696
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/09/2013 16:57	91727
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.31	4.63		2560	mg/Kg-dry	1	09/06/2013 0:37	91586
Antimony	NELAP	2.45	4.72		< 4.72	mg/Kg-dry	1	09/06/2013 1:08	91640
Arsenic	NELAP	1.16	2.31		4.45	mg/Kg-dry	1	09/06/2013 0:37	91586
Barium	NELAP	0.23	0.46		20.5	mg/Kg-dry	1	09/06/2013 0:37	91586
Beryllium	NELAP	0.05	0.09		0.19	mg/Kg-dry	1	09/06/2013 0:37	91586
Boron	NELAP	0.93	1.85		6	mg/Kg-dry	1	09/06/2013 0:37	91586
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	09/06/2013 0:37	91586
Calcium	NELAP	2.31	4.63		111000	mg/Kg-dry	1	09/06/2013 0:37	91586
Chromium	NELAP	0.46	0.93		7.35	mg/Kg-dry	1	09/06/2013 0:37	91586
Cobalt	NELAP	0.46	0.93		1.99	mg/Kg-dry	1	09/06/2013 0:37	91586
Copper	NELAP	0.46	0.93		8.15	mg/Kg-dry	1	09/06/2013 0:37	91586
Iron	NELAP	0.93	1.85		8200	mg/Kg-dry	1	09/06/2013 0:37	91586
Lead	NELAP	1.85	3.7		6.31	mg/Kg-dry	1	09/06/2013 0:37	91586
Magnesium	NELAP	0.46	0.93		63900	mg/Kg-dry	1	09/06/2013 0:37	91586
Manganese	NELAP	0.23	0.46		355	mg/Kg-dry	1	09/06/2013 0:37	91586
Nickel	NELAP	0.46	0.93		7.91	mg/Kg-dry	1	09/06/2013 0:37	91586
Potassium	NELAP	4.63	9.26		839	mg/Kg-dry	1	09/06/2013 0:37	91586
Silver	NELAP	0.46	0.51		< 0.51	mg/Kg-dry	1	09/06/2013 0:37	91586
Sodium	NELAP	2.31	4.63		156	mg/Kg-dry	1	09/06/2013 0:37	91586
Thallium	NELAP	2.31	2.41		< 2.41	mg/Kg-dry	1	09/06/2013 0:37	91586
Vanadium	NELAP	0.46	0.93		10.2	mg/Kg-dry	1	09/06/2013 0:37	91586
Zinc	NELAP	0.46	0.93		17.9	mg/Kg-dry	1	09/06/2013 0:37	91586

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-028

Client Sample ID: 1467V-1-B22-2

Matrix: SOLID

Collection Date: 08/30/2013 7:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.337	0.577		< 0.577	mg/Kg-dry	1	09/09/2013 17:12	91589
SW-846 7471B									
Mercury	NELAP	0.003	0.011	J	0.008	mg/Kg-dry	1	09/05/2013 11:57	91574
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.15	0.564		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
1,2-Dichlorobenzene	NELAP	0.179	0.564		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
1,3-Dichlorobenzene	NELAP	0.189	0.564		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
1,4-Dichlorobenzene	NELAP	0.179	0.564		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
2,4,5-Trichlorophenol	NELAP	0.107	0.395		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
2,4,6-Trichlorophenol	NELAP	0.142	0.395		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
2,4-Dichlorophenol	NELAP	0.136	0.564		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
2,4-Dimethylphenol	NELAP	0.143	0.564		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
2,4-Dinitrophenol	NELAP	0.121	1.13		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
2,4-Dinitrotoluene	NELAP	0.117	0.395		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
2,6-Dinitrotoluene	NELAP	0.122	0.395		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
2-Chloronaphthalene	NELAP	0.135	0.395		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
2-Chlorophenol	NELAP	0.143	0.564		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
2-Methylnaphthalene	NELAP	0.134	0.395		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
2-Nitroaniline	NELAP	0.103	1.13		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
2-Nitrophenol	NELAP	0.126	0.395		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
3,3'-Dichlorobenzidine	NELAP	0.225	0.395		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
3-Nitroaniline	NELAP	0.092	1.13		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
4,6-Dinitro-2-methylphenol	NELAP	0.122	1.13		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
4-Bromophenyl phenyl ether	NELAP	0.104	0.395		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
4-Chloro-3-methylphenol	NELAP	0.124	0.564		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
4-Chloroaniline	NELAP	0.136	0.564		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
4-Chlorophenyl phenyl ether	NELAP	0.112	0.395		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
4-Nitroaniline	NELAP	0.103	0.564		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
4-Nitrophenol	NELAP	0.11	0.395		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Acenaphthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Acenaphthylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Benzo(a)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Benzo(a)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Benzo(b)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Benzo(g,h,i)perylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Benzo(k)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Bis(2-chloroethoxy)methane	NELAP	0.132	0.395		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Bis(2-chloroethyl)ether	NELAP	0.16	0.564		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Bis(2-chloroisopropyl)ether	NELAP	0.129	0.395		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Bis(2-ethylhexyl)phthalate	NELAP	0.132	0.395		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Butyl benzyl phthalate	NELAP	0.114	0.395		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Carbazole		0.138	0.564		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Chrysene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Dibenzo(a,h)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Dibenzofuran	NELAP	0.142	0.395		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Diethyl phthalate	NELAP	0.108	0.564		ND	mg/Kg-dry	1	09/06/2013 20:49	91580

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-028

Client Sample ID: 1467V-1-B22-2

Matrix: SOLID

Collection Date: 08/30/2013 7:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dimethyl phthalate	NELAP	0.103	0.395	J	0.104	mg/Kg-dry	1	09/06/2013 20:49	91580
Di-n-butyl phthalate	NELAP	0.116	0.395		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Di-n-octyl phthalate	NELAP	0.117	0.395		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Fluorene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Hexachlorobenzene	NELAP	0.11	0.395		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Hexachlorobutadiene	NELAP	0.175	0.564		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Hexachlorocyclopentadiene	NELAP	0.115	0.395		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Hexachloroethane	NELAP	0.188	0.564		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Isophorone	NELAP	0.133	0.395		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
m,p-Cresol	NELAP	0.142	0.564		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Naphthalene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Nitrobenzene	NELAP	0.141	0.564		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
N-Nitroso-di-n-propylamine	NELAP	0.124	0.564		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
N-Nitrosodiphenylamine	NELAP	0.104	0.564		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
o-Cresol	NELAP	0.133	0.564		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Pentachlorophenol	NELAP	0.744	2.25		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Phenanthrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Phenol	NELAP	0.131	0.395		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/06/2013 20:49	91580
Surr: 2,4,6-Tribromophenol		0	32.7-130		54.8	%REC	1	09/06/2013 20:49	91580
Surr: 2-Fluorobiphenyl		0	34.1-116		53.5	%REC	1	09/06/2013 20:49	91580
Surr: 2-Fluorophenol		0	30.5-99		53.4	%REC	1	09/06/2013 20:49	91580
Surr: Nitrobenzene-d5		0	34.1-101		55	%REC	1	09/06/2013 20:49	91580
Surr: Phenol-d5		0	34.9-110		56.4	%REC	1	09/06/2013 20:49	91580
Surr: p-Terphenyl-d14		0	41.7-124		61.9	%REC	1	09/06/2013 20:49	91580

LCS recovered outside upper QC limits for Dibenzo(a,h)anthracene and Benzo(g,h,i)perylene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
1,1,2-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
1,1-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
1,1-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
1,2-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
1,2-Dichloropropane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
1,3-Dichloropropene, Total		0.0009	0.003		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
2-Butanone	NELAP	0.0085	0.043		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
2-Hexanone	NELAP	0.0085	0.043		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
4-Methyl-2-pentanone	NELAP	0.0085	0.043		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
Acetone	NELAP	0.0085	0.043	J	0.021	mg/Kg-dry	1	09/10/2013 17:06	91826
Benzene	NELAP	0.0004	0.001		0.002	mg/Kg-dry	1	09/10/2013 17:06	91826
Bromodichloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
Bromoform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
Bromomethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
Carbon disulfide	NELAP	0.0026	0.004		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
Carbon tetrachloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:06	91826



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090001

Client Project: IDOT2013-018

Report Date: 16-Sep-13

Lab ID: 13090001-028

Client Sample ID: 1467V-1-B22-2

Matrix: SOLID

Collection Date: 08/30/2013 7:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chlorobenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
Chloroethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
Chloroform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
Chloromethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
cis-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
cis-1,3-Dichloropropene	NELAP	0.0009	0.003		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
Dibromochloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
Ethylbenzene	NELAP	0.0009	0.004	J	0.001	mg/Kg-dry	1	09/10/2013 17:06	91826
m,p-Xylenes	NELAP	0.0009	0.004	J	0.002	mg/Kg-dry	1	09/10/2013 17:06	91826
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
Methylene chloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
o-Xylene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
Styrene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
Tetrachloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
Toluene	NELAP	0.0009	0.004	J	0.002	mg/Kg-dry	1	09/10/2013 17:06	91826
trans-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
trans-1,3-Dichloropropene	NELAP	0.0009	0.003		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
Trichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
Vinyl acetate	NELAP	0.017	0.043		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/10/2013 17:06	91826
Xylenes, Total	NELAP	0.0009	0.004	J	0.002	mg/Kg-dry	1	09/10/2013 17:06	91826
Surr: 1,2-Dichloroethane-d4		0	72.2-131		105.1	%REC	1	09/10/2013 17:06	91826
Surr: 4-Bromofluorobenzene		0	82.1-116		103.5	%REC	1	09/10/2013 17:06	91826
Surr: Dibromofluoromethane		0	77.7-120		97.3	%REC	1	09/10/2013 17:06	91826
Surr: Toluene-d8		0	86-116		101.2	%REC	1	09/10/2013 17:06	91826

CHAIN OF CUSTODY

pg. 2 of 5 Work Order # 130910001

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: ANDREW'S
 Address: _____
 City / State / Zip: _____
 Contact: COLLEEN GREY Phone: _____
 E-Mail: _____ Fax: _____

- Are these samples known to be involved in litigation? If yes, a surcharge will apply. Yes No
- Are these samples known to be hazardous? Yes No
- Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in comment section. Yes No

Samples on: Ice Blue Ice No Ice 26 °C
 Preserved in: Lab Field **FOR LAB USE ONLY**
 Lab Notes: _____

Comments: **Teklab, Inc. Courier Pick Up**

Project Name / Number	Sample Collector's Name	Billing Instructions		# and Type of Containers							INDICATE ANALYSIS REQUESTED													
		Results Requested	Sample Identification	Date/Time Sampled	UNPRES	HNO ₃	NaOH	H ₂ SO ₄	HCL	MeOH	NaHSO ₄	Other	Water	Drinking Water	Soil	Sludge	Sp. Waste	Voc's	Suoc's	Total Metals	SAPR/TCLP	PH	& Solids	
		<input type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)																						
150910001-D06		1467U-1-B10-1	8-29-13 4:25PM									X	X	X				X	X	X	X	X	X	X
207		1467U-1-B10-2	8-29-13 4:30PM									X	X	X				X	X	X	X	X	X	X
208		1467U-1-B21-1	8-29-13 4:40PM									X	X	X				X	X	X	X	X	X	X
209		1467U-1-B21-2	8-29-13 4:45PM									X	X	X				X	X	X	X	X	X	X
210		1467U-1-B11-1	8-29-13 5:10PM									X	X	X				X	X	X	X	X	X	X
211		1467U-1-B11-2	8-29-13 5:15PM									X	X	X				X	X	X	X	X	X	X
212		1467U-1-B20	8-29-13 5:00PM									X	X	X				X	X	X	X	X	X	X
213		1467U-1-B12-1	8-29-13 5:35PM									X	X	X				X	X	X	X	X	X	X
214		1467U-1-B12-2	8-29-13 5:40PM									X	X	X				X	X	X	X	X	X	X

Relinquished By	Date / Time	Received By	Date / Time
<i>[Signature]</i>	8/30/13 2:30	<i>[Signature]</i>	8/30/13 2:30
<i>[Signature]</i>	8-31-13 11:00 am	<i>[Signature]</i>	8/31/13 11:00 am
<i>[Signature]</i>	8/31/13 1:20PM	<i>[Signature]</i>	8/31/13 1:20

The individual signing this agreement on behalf of client acknowledges that he/she has read and understands the terms and conditions of this agreement, on the reverse side, and that he/she has the authority to sign on behalf of client.



CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name: <u>Pingree Drive Kane Co</u>	COC No.: <u>3</u> of <u>5</u>
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com	Project No.: <u>IDOT 2013-018</u>	Lab Job No.: <u>13090001</u>
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Sample Temp:
		Sampler:	Matrix Key:

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments		
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids		Waste Characterization	
13090001-015	1467V-1-B13-1	8-29-13	10:15AM	S	X							X	X	X			0-7.5
016	1467V-1-B13-1 DUP	8-29-13	10:20AM														0-7.5
017	1467V-1-B13-2	8-29-13	10:25AM														7.5-13
018	1467V-1-B14-1	8-29-13	9:50AM														0-5
019	1467V-1-B14-2	8-29-13	9:55AM														5-10
020	1467V-1-B15-1	8-29-13	9:15AM														0- 5 5
021	1467V-1-B15-2	8-29-13	9:20AM														5-10
022	1467V-1-B16-1	8-29-13	8:35AM														0-7.5
023	1467V-1-B16-2	8-29-13	8:40AM														7.5-13
024	1467V-1-B17-1	8-29-13	10:50AM														0-5
025	1467V-1-B17-2	8-29-13	10:55AM														5-10
026	1467V-1-B18-1	8-29-13	3:30PM	S	X												0-5

Relinquished by: <u>Zachary Korman</u>	Date/Time: <u>8-29-13 4:520PM</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8-29-13 4:00</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>8-31-13 11:00 AM</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8/31/13 11:00AM</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>8/31/13 1:20PM</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8/31/13 1:20</u>



CHAIN OF CUSTODY RECORD

Client Contact		Laboratory		Project Name: <u>Pingree Grove Kane Co</u>		COC No.: <u>4</u> of <u>5</u>																																																																																																																																																																																																																											
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Lab: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com		Project No.: <u>IDOT 2013-018</u>		Lab Job No.: <u>13090001</u>																																																																																																																																																																																																																											
				TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		Sample Temp:																																																																																																																																																																																																																											
				Sampler:		Matrix Key:																																																																																																																																																																																																																											
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		ANALYSES						W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other																																																																																																																																																																																																																									
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Lab ID</th> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Matrix</th> <th>VOCs</th> <th>SVOCs</th> <th>BTEX & MTBE</th> <th>PNAs</th> <th>Pesticides</th> <th>PCBs</th> <th>* Total Metals</th> <th>SPLP/** TCLP Metals</th> <th>pH</th> <th>% Solids</th> <th>Waste Characterization</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>* 1407V-1-B18-a</td> <td></td> <td>8-29-13</td> <td>3:35pm</td> <td>S</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>5-10</td> </tr> <tr> <td>1407-V-1-B19</td> <td></td> <td>8-29-13</td> <td>3:10pm</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0-4</td> </tr> <tr> <td>✓ 1407-V-1-B19 DUP</td> <td></td> <td>8-29-13</td> <td>3:15pm</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0-4</td> </tr> <tr> <td>1407-V-1-B20</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1407-V-1-B21-1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1407-V-1-B21-2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1407V-1-B22-1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1407V-1-B22-2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1407V-1-B23-1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1407V-1-B-23-2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1407V-1-B-24-1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1407V-1-B-24-2</td> <td></td> <td></td> <td></td> <td>S</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> </tbody> </table>	Lab ID	Sample ID	Sample Date	Sample Time	Matrix		VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments	* 1407V-1-B18-a		8-29-13	3:35pm	S	X						X	X	X	X		5-10	1407-V-1-B19		8-29-13	3:10pm													0-4	✓ 1407-V-1-B19 DUP		8-29-13	3:15pm													0-4	1407-V-1-B20																	1407-V-1-B21-1																	1407-V-1-B21-2																	1407V-1-B22-1																	1407V-1-B22-2																	1407V-1-B23-1																	1407V-1-B-23-2																	1407V-1-B-24-1																	1407V-1-B-24-2				S	X						X	X	X	X			Relinquished by: <u>Zach Koe</u> Date/Time: <u>8-28-13 4:20 pm</u> Relinquished by: <u>[Signature]</u> Date/Time: <u>8-31-13 1:03 am</u> Relinquished by: <u>[Signature]</u> Date/Time: <u>8-11-13 1:00 pm</u>
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments																																																																																																																																																																																																																	
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*see page 1



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 345 (US Route 20) - South Junction Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

2215 - 2305 Aurora Drive

City: Pingree Grove State: IL Zip Code: 60140

County: Kane Township: Rutland

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.08212 Longitude: -88.45576

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 345 (US Route 20) - South Junction
 Latitude: 42.08212 Longitude: -88.45576

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 1467V-12-B01 AND -B03 THROUGH -B05 WERE SAMPLED ADJACENT TO ISGS SITE 1467V-12. SEE FIGURES 2 AND 4 AND TABLE 3b OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEKLAB ANALYTICAL LAB REPORT - WORK ORDER NO.: 13090003

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment

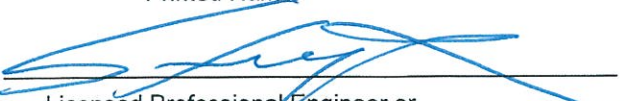
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

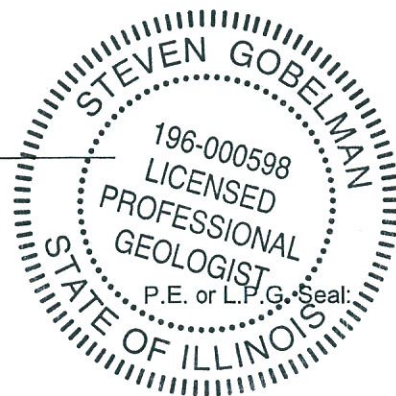
Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

7/8/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 1467V-12

2215, 2220, 2225, 2245, 2259, 2275, & 2305 Aurora Drive

Sample ID	1467V-12-B01-1	1467V-12-B01-2	1467V-12-B03-1	1467V-12-B03-1 DUP						
Sample Depth (ft)	0-7.5	7.5-15	0-5	0-5						
Sample Date	8/30/2013	8/30/2013	8/30/2013	8/30/2013						
PID	0	0	0	0						
Sample pH	8.68	8.6	7.93	7.59						
Matrix	Soil	Soil	Soil	Soil						
Inorganic Compounds, Total (mg/kg)	4.64	2.63	11.4	11.2	11.3	NA	11.3	NA	13	NA

Sample ID	1467V-12-B03-2	1467V-12-B04-1	1467V-12-B04-2	1467V-12-B05						
Sample Depth (ft)	5-10	0-5	5-10	0-5						
Sample Date	8/30/2013	8/30/2013	8/30/2013	8/30/2013						
PID	0	0	0	0						
Sample pH	8.4	8.09	8.71	7.86						
Matrix	Soil	Soil	Soil	Soil						
Inorganic Compounds, Total (mg/kg)	5.88	11.6	1.3	10.5	11.3	NA	11.3	NA	13	NA

September 13, 2013

Colleen Grey
Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711-7233
TEL: (217) 787-2334
FAX: (217) 787-9495



RE: IDOT2013-018

WorkOrder: 13090003

Dear Colleen Grey:

TEKLAB, INC received 10 samples on 8/31/2013 1:20:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | X - Value exceeds Maximum Contaminant Level |



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-001

Client Sample ID: 1467V-12-B01-1

Matrix: SOLID

Collection Date: 08/30/2013 8:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		11.4	%	1	09/03/2013 12:45	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		88.6	%	1	09/03/2013 12:45	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.68		1	09/04/2013 10:49	R181393
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.0242	mg/L	1	09/11/2013 16:33	91824
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0712	mg/L	1	09/09/2013 15:21	91712
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/09/2013 15:21	91712
Boron	NELAP	1	2		< 2	mg/L	1	09/09/2013 15:21	91712
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/09/2013 15:21	91712
Chromium	NELAP	0.004	0.01	J	0.0082	mg/L	1	09/09/2013 15:21	91712
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/09/2013 15:21	91712
Iron	NELAP	0.007	0.02	X	6.71	mg/L	1	09/09/2013 15:21	91712
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/09/2013 15:21	91712
Manganese	NELAP	0.0016	0.005		0.0427	mg/L	1	09/09/2013 15:21	91712
Nickel	NELAP	0.0033	0.01	J	0.0053	mg/L	1	09/09/2013 15:21	91712
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/09/2013 15:21	91712
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/09/2013 15:21	91712
Zinc	NELAP	0.0021	0.01		0.0193	mg/L	1	09/09/2013 15:21	91712
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/11/2013 9:51	91720
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 19:46	91720
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/09/2013 17:29	91728
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.5	5		9980	mg/Kg-dry	1	09/06/2013 2:33	91587
Antimony	NELAP	2.5	4.81		< 4.81	mg/Kg-dry	1	09/06/2013 2:10	91641
Arsenic	NELAP	1.25	2.5		4.64	mg/Kg-dry	1	09/06/2013 17:03	91587
Barium	NELAP	0.25	0.5		65.7	mg/Kg-dry	1	09/06/2013 2:33	91587
Beryllium	NELAP	0.05	0.1		0.59	mg/Kg-dry	1	09/06/2013 2:33	91587
Boron	NELAP	1	2		13.4	mg/Kg-dry	1	09/06/2013 2:33	91587
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	09/06/2013 2:33	91587
Calcium	NELAP	2.5	5		71900	mg/Kg-dry	1	09/06/2013 2:33	91587
Chromium	NELAP	0.5	1	X	16.7	mg/Kg-dry	1	09/06/2013 2:33	91587
Cobalt	NELAP	0.5	1		6.34	mg/Kg-dry	1	09/06/2013 2:33	91587
Copper	NELAP	0.5	1		13.3	mg/Kg-dry	1	09/06/2013 2:33	91587
Iron	NELAP	1	2	X	15700	mg/Kg-dry	1	09/06/2013 2:33	91587
Lead	NELAP	2	4		6.5	mg/Kg-dry	1	09/06/2013 2:33	91587
Magnesium	NELAP	0.5	1		37200	mg/Kg-dry	1	09/06/2013 2:33	91587
Manganese	NELAP	0.25	0.5		352	mg/Kg-dry	1	09/06/2013 2:33	91587
Nickel	NELAP	0.5	1		16.7	mg/Kg-dry	1	09/06/2013 2:33	91587
Potassium	NELAP	5	10		2400	mg/Kg-dry	1	09/06/2013 2:33	91587
Silver	NELAP	0.5	0.55		< 0.55	mg/Kg-dry	1	09/06/2013 2:33	91587

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-001

Client Sample ID: 1467V-12-B01-1

Matrix: SOLID

Collection Date: 08/30/2013 8:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Sodium	NELAP	2.5	5		272	mg/Kg-dry	1	09/06/2013 2:33	91587
Thallium	NELAP	2.5	2.6		< 2.6	mg/Kg-dry	1	09/06/2013 2:33	91587
Vanadium	NELAP	0.5	1		21.8	mg/Kg-dry	1	09/06/2013 2:33	91587
Zinc	NELAP	0.5	1		33.9	mg/Kg-dry	1	09/06/2013 2:33	91587
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.337	0.577		< 0.577	mg/Kg-dry	1	09/10/2013 13:23	91592
SW-846 7471B									
Mercury	NELAP	0.003	0.011	J	0.01	mg/Kg-dry	1	09/05/2013 10:09	91584
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.149	0.559		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
1,2-Dichlorobenzene	NELAP	0.178	0.559		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
1,3-Dichlorobenzene	NELAP	0.188	0.559		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
1,4-Dichlorobenzene	NELAP	0.178	0.559		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
2,4,5-Trichlorophenol	NELAP	0.106	0.392		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
2,4,6-Trichlorophenol	NELAP	0.141	0.392		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
2,4-Dichlorophenol	NELAP	0.135	0.559		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
2,4-Dimethylphenol	NELAP	0.142	0.559		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
2,4-Dinitrophenol	NELAP	0.12	1.12		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
2,4-Dinitrotoluene	NELAP	0.116	0.392		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
2,6-Dinitrotoluene	NELAP	0.121	0.392		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
2-Chloronaphthalene	NELAP	0.134	0.392		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
2-Chlorophenol	NELAP	0.142	0.559		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
2-Methylnaphthalene	NELAP	0.133	0.392		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
2-Nitroaniline	NELAP	0.102	1.12		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
2-Nitrophenol	NELAP	0.125	0.392		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
3,3'-Dichlorobenzidine	NELAP	0.224	0.392		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
3-Nitroaniline	NELAP	0.092	1.12		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
4,6-Dinitro-2-methylphenol	NELAP	0.121	1.12		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
4-Bromophenyl phenyl ether	NELAP	0.103	0.392		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
4-Chloro-3-methylphenol	NELAP	0.123	0.559		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
4-Chloroaniline	NELAP	0.135	0.559		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
4-Chlorophenyl phenyl ether	NELAP	0.111	0.392		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
4-Nitroaniline	NELAP	0.102	0.559		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
4-Nitrophenol	NELAP	0.11	0.392		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Acenaphthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Acenaphthylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Benzo(a)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Benzo(a)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Benzo(b)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Benzo(g,h,i)perylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Benzo(k)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Bis(2-chloroethoxy)methane	NELAP	0.131	0.392		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Bis(2-chloroethyl)ether	NELAP	0.159	0.559		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Bis(2-chloroisopropyl)ether	NELAP	0.128	0.392		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Bis(2-ethylhexyl)phthalate	NELAP	0.131	0.392		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Butyl benzyl phthalate	NELAP	0.113	0.392		ND	mg/Kg-dry	1	09/04/2013 19:32	91570

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-001

Client Sample ID: 1467V-12-B01-1

Matrix: SOLID

Collection Date: 08/30/2013 8:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.136	0.559		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Chrysene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Dibenzo(a,h)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Dibenzofuran	NELAP	0.141	0.392		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Diethyl phthalate	NELAP	0.107	0.559		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Dimethyl phthalate	NELAP	0.102	0.392		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Di-n-butyl phthalate	NELAP	0.115	0.392		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Di-n-octyl phthalate	NELAP	0.116	0.392		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Fluorene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Hexachlorobenzene	NELAP	0.11	0.392		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Hexachlorobutadiene	NELAP	0.173	0.559		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Hexachlorocyclopentadiene	NELAP	0.114	0.392		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Hexachloroethane	NELAP	0.187	0.559		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Isophorone	NELAP	0.132	0.392		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
m,p-Cresol	NELAP	0.141	0.559		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Naphthalene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Nitrobenzene	NELAP	0.14	0.559		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
N-Nitroso-di-n-propylamine	NELAP	0.123	0.559		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
N-Nitrosodiphenylamine	NELAP	0.103	0.559		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
o-Cresol	NELAP	0.132	0.559		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Pentachlorophenol	NELAP	0.738	2.24		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Phenanthrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Phenol	NELAP	0.13	0.392		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 19:32	91570
Surr: 2,4,6-Tribromophenol		0	32.7-130		70.7	%REC	1	09/04/2013 19:32	91570
Surr: 2-Fluorobiphenyl		0	34.1-116		69.5	%REC	1	09/04/2013 19:32	91570
Surr: 2-Fluorophenol		0	30.5-99		69.9	%REC	1	09/04/2013 19:32	91570
Surr: Nitrobenzene-d5		0	34.1-101		69.8	%REC	1	09/04/2013 19:32	91570
Surr: Phenol-d5		0	34.9-110		73.4	%REC	1	09/04/2013 19:32	91570
Surr: p-Terphenyl-d14		0	41.7-124		80.5	%REC	1	09/04/2013 19:32	91570
<i>LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
1,1,2,2-Tetrachloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
1,1,2-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
1,1-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
1,1-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
1,2-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
1,2-Dichloropropane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
1,3-Dichloropropene, Total		0.0007	0.003		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
2-Butanone	NELAP	0.0071	0.035		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
2-Hexanone	NELAP	0.0071	0.035		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
4-Methyl-2-pentanone	NELAP	0.0071	0.035		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
Acetone	NELAP	0.0071	0.035	J	0.009	mg/Kg-dry	1	09/10/2013 20:42	91826
Benzene	NELAP	0.0004	0.001		0.003	mg/Kg-dry	1	09/10/2013 20:42	91826



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-001

Client Sample ID: 1467V-12-B01-1

Matrix: SOLID

Collection Date: 08/30/2013 8:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromodichloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
Bromoform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
Bromomethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
Carbon disulfide	NELAP	0.0021	0.004		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
Carbon tetrachloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
Chlorobenzene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
Chloroethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
Chloroform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
Chloromethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
cis-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
cis-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
Dibromochloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
Ethylbenzene	NELAP	0.0007	0.004	J	0.002	mg/Kg-dry	1	09/10/2013 20:42	91826
m,p-Xylenes	NELAP	0.0007	0.004	J	0.002	mg/Kg-dry	1	09/10/2013 20:42	91826
Methyl tert-butyl ether	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
Methylene chloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
o-Xylene	NELAP	0.0007	0.004	J	0.001	mg/Kg-dry	1	09/10/2013 20:42	91826
Styrene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
Tetrachloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
Toluene	NELAP	0.0007	0.004		0.005	mg/Kg-dry	1	09/10/2013 20:42	91826
trans-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
trans-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
Trichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
Vinyl acetate	NELAP	0.0142	0.035		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
Vinyl chloride	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/10/2013 20:42	91826
Xylenes, Total	NELAP	0.0007	0.004	J	0.003	mg/Kg-dry	1	09/10/2013 20:42	91826
Surr: 1,2-Dichloroethane-d4		0	72.2-131		104.7	%REC	1	09/10/2013 20:42	91826
Surr: 4-Bromofluorobenzene		0	82.1-116		105.7	%REC	1	09/10/2013 20:42	91826
Surr: Dibromofluoromethane		0	77.7-120		103.5	%REC	1	09/10/2013 20:42	91826
Surr: Toluene-d8		0	86-116		102.2	%REC	1	09/10/2013 20:42	91826

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-002

Client Sample ID: 1467V-12-B01-2

Matrix: SOLID

Collection Date: 08/30/2013 8:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		11	%	1	09/03/2013 12:45	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		89	%	1	09/03/2013 12:45	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.6		1	09/04/2013 10:51	R181393
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.0281	mg/L	1	09/11/2013 16:44	91824
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0751	mg/L	1	09/09/2013 15:24	91712
Beryllium	NELAP	0.0003	0.001	J	0.0003	mg/L	1	09/09/2013 15:24	91712
Boron	NELAP	1	2		< 2	mg/L	1	09/09/2013 15:24	91712
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/09/2013 15:24	91712
Chromium	NELAP	0.004	0.01		0.0114	mg/L	1	09/09/2013 15:24	91712
Cobalt	NELAP	0.0022	0.01	J	0.0039	mg/L	1	09/09/2013 15:24	91712
Iron	NELAP	0.007	0.02	X	7.64	mg/L	1	09/09/2013 15:24	91712
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/09/2013 15:24	91712
Manganese	NELAP	0.0016	0.005		0.086	mg/L	1	09/09/2013 15:24	91712
Nickel	NELAP	0.0033	0.01	J	0.0097	mg/L	1	09/09/2013 15:24	91712
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/09/2013 15:24	91712
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/09/2013 15:24	91712
Zinc	NELAP	0.0021	0.01		0.0237	mg/L	1	09/09/2013 15:24	91712
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/11/2013 9:55	91720
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 19:50	91720
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/09/2013 17:31	91728
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.4	4.81		7980	mg/Kg-dry	1	09/06/2013 2:39	91587
Antimony	NELAP	2.5	4.81		< 4.81	mg/Kg-dry	1	09/06/2013 2:14	91641
Arsenic	NELAP	1.2	2.4		2.63	mg/Kg-dry	1	09/06/2013 2:39	91587
Barium	NELAP	0.24	0.48		33.8	mg/Kg-dry	1	09/06/2013 2:39	91587
Beryllium	NELAP	0.05	0.1		0.51	mg/Kg-dry	1	09/06/2013 2:39	91587
Boron	NELAP	0.96	1.92		12.6	mg/Kg-dry	1	09/06/2013 2:39	91587
Cadmium	NELAP	0.1	0.19		< 0.19	mg/Kg-dry	1	09/06/2013 2:39	91587
Calcium	NELAP	2.4	4.81		89100	mg/Kg-dry	1	09/06/2013 2:39	91587
Chromium	NELAP	0.48	0.96	X	14.6	mg/Kg-dry	1	09/06/2013 2:39	91587
Cobalt	NELAP	0.48	0.96		4.99	mg/Kg-dry	1	09/06/2013 2:39	91587
Copper	NELAP	0.48	0.96		11.1	mg/Kg-dry	1	09/06/2013 2:39	91587
Iron	NELAP	0.96	1.92		12400	mg/Kg-dry	1	09/06/2013 2:39	91587
Lead	NELAP	1.92	3.85		5.85	mg/Kg-dry	1	09/06/2013 2:39	91587
Magnesium	NELAP	0.48	0.96		41200	mg/Kg-dry	1	09/06/2013 2:39	91587
Manganese	NELAP	0.24	0.48		300	mg/Kg-dry	1	09/06/2013 2:39	91587
Nickel	NELAP	0.48	0.96		14.3	mg/Kg-dry	1	09/06/2013 2:39	91587
Potassium	NELAP	4.81	9.62		2260	mg/Kg-dry	1	09/06/2013 2:39	91587
Silver	NELAP	0.48	0.53		< 0.53	mg/Kg-dry	1	09/06/2013 2:39	91587

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-002

Client Sample ID: 1467V-12-B01-2

Matrix: SOLID

Collection Date: 08/30/2013 8:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Sodium	NELAP	2.4	4.81		282	mg/Kg-dry	1	09/06/2013 2:39	91587
Thallium	NELAP	2.4	2.5		< 2.5	mg/Kg-dry	1	09/06/2013 2:39	91587
Vanadium	NELAP	0.48	0.96		21.3	mg/Kg-dry	1	09/06/2013 2:39	91587
Zinc	NELAP	0.48	0.96		29.9	mg/Kg-dry	1	09/06/2013 2:39	91587
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.343	0.588		< 0.588	mg/Kg-dry	1	09/10/2013 13:33	91592
SW-846 7471B									
Mercury	NELAP	0.003	0.011		0.085	mg/Kg-dry	1	09/05/2013 10:11	91584
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.149	0.558		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
1,2-Dichlorobenzene	NELAP	0.178	0.558		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
1,3-Dichlorobenzene	NELAP	0.188	0.558		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
1,4-Dichlorobenzene	NELAP	0.178	0.558		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
2,4,5-Trichlorophenol	NELAP	0.106	0.391		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
2,4,6-Trichlorophenol	NELAP	0.141	0.391		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
2,4-Dichlorophenol	NELAP	0.135	0.558		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
2,4-Dimethylphenol	NELAP	0.142	0.558		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
2,4-Dinitrophenol	NELAP	0.119	1.12		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
2,4-Dinitrotoluene	NELAP	0.116	0.391		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
2,6-Dinitrotoluene	NELAP	0.121	0.391		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
2-Chloronaphthalene	NELAP	0.134	0.391		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
2-Chlorophenol	NELAP	0.142	0.558		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
2-Methylnaphthalene	NELAP	0.133	0.391		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
2-Nitroaniline	NELAP	0.102	1.12		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
2-Nitrophenol	NELAP	0.125	0.391		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
3,3'-Dichlorobenzidine	NELAP	0.223	0.391		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
3-Nitroaniline	NELAP	0.092	1.12		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
4,6-Dinitro-2-methylphenol	NELAP	0.121	1.12		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
4-Bromophenyl phenyl ether	NELAP	0.103	0.391		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
4-Chloro-3-methylphenol	NELAP	0.123	0.558		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
4-Chloroaniline	NELAP	0.135	0.558		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
4-Chlorophenyl phenyl ether	NELAP	0.111	0.391		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
4-Nitroaniline	NELAP	0.102	0.558		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
4-Nitrophenol	NELAP	0.109	0.391		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Acenaphthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Acenaphthylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Benzo(a)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Benzo(a)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Benzo(b)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Benzo(g,h,i)perylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Benzo(k)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Bis(2-chloroethoxy)methane	NELAP	0.131	0.391		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Bis(2-chloroethyl)ether	NELAP	0.159	0.558		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Bis(2-chloroisopropyl)ether	NELAP	0.127	0.391		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Bis(2-ethylhexyl)phthalate	NELAP	0.131	0.391		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Butyl benzyl phthalate	NELAP	0.113	0.391		ND	mg/Kg-dry	1	09/04/2013 22:26	91570

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-002

Client Sample ID: 1467V-12-B01-2

Matrix: SOLID

Collection Date: 08/30/2013 8:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.136	0.558		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Chrysene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Dibenzo(a,h)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Dibenzofuran	NELAP	0.141	0.391		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Diethyl phthalate	NELAP	0.107	0.558		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Dimethyl phthalate	NELAP	0.102	0.391		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Di-n-butyl phthalate	NELAP	0.115	0.391		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Di-n-octyl phthalate	NELAP	0.116	0.391		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Fluorene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Hexachlorobenzene	NELAP	0.109	0.391		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Hexachlorobutadiene	NELAP	0.173	0.558		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Hexachlorocyclopentadiene	NELAP	0.114	0.391		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Hexachloroethane	NELAP	0.186	0.558		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Isophorone	NELAP	0.132	0.391		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
m,p-Cresol	NELAP	0.141	0.558		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Naphthalene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Nitrobenzene	NELAP	0.14	0.558		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
N-Nitroso-di-n-propylamine	NELAP	0.123	0.558		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
N-Nitrosodiphenylamine	NELAP	0.103	0.558		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
o-Cresol	NELAP	0.132	0.558		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Pentachlorophenol	NELAP	0.737	2.23		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Phenanthrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Phenol	NELAP	0.13	0.391		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/04/2013 22:26	91570
Surr: 2,4,6-Tribromophenol		0	32.7-130		73.1	%REC	1	09/04/2013 22:26	91570
Surr: 2-Fluorobiphenyl		0	34.1-116		69.6	%REC	1	09/04/2013 22:26	91570
Surr: 2-Fluorophenol		0	30.5-99		67.9	%REC	1	09/04/2013 22:26	91570
Surr: Nitrobenzene-d5		0	34.1-101		73.1	%REC	1	09/04/2013 22:26	91570
Surr: Phenol-d5		0	34.9-110		72.7	%REC	1	09/04/2013 22:26	91570
Surr: p-Terphenyl-d14		0	41.7-124		82.4	%REC	1	09/04/2013 22:26	91570
<i>LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
1,1,2,2-Tetrachloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
1,1,2-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
1,1-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
1,1-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
1,2-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
1,2-Dichloropropane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
1,3-Dichloropropene, Total		0.0007	0.003		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
2-Butanone	NELAP	0.0072	0.036		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
2-Hexanone	NELAP	0.0072	0.036		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
4-Methyl-2-pentanone	NELAP	0.0072	0.036		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
Acetone	NELAP	0.0072	0.036		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
Benzene	NELAP	0.0004	0.001		0.003	mg/Kg-dry	1	09/10/2013 21:08	91826



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-002

Client Sample ID: 1467V-12-B01-2

Matrix: SOLID

Collection Date: 08/30/2013 8:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromodichloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
Bromoform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
Bromomethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
Carbon disulfide	NELAP	0.0022	0.004		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
Carbon tetrachloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
Chlorobenzene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
Chloroethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
Chloroform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
Chloromethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
cis-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
cis-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
Dibromochloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
Ethylbenzene	NELAP	0.0007	0.004	J	0.002	mg/Kg-dry	1	09/10/2013 21:08	91826
m,p-Xylenes	NELAP	0.0007	0.004	J	0.002	mg/Kg-dry	1	09/10/2013 21:08	91826
Methyl tert-butyl ether	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
Methylene chloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
o-Xylene	NELAP	0.0007	0.004	J	0.001	mg/Kg-dry	1	09/10/2013 21:08	91826
Styrene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
Tetrachloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
Toluene	NELAP	0.0007	0.004		0.005	mg/Kg-dry	1	09/10/2013 21:08	91826
trans-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
trans-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
Trichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
Vinyl acetate	NELAP	0.0144	0.036		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
Vinyl chloride	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/10/2013 21:08	91826
Xylenes, Total	NELAP	0.0007	0.004	J	0.003	mg/Kg-dry	1	09/10/2013 21:08	91826
Surr: 1,2-Dichloroethane-d4		0	72.2-131		104	%REC	1	09/10/2013 21:08	91826
Surr: 4-Bromofluorobenzene		0	82.1-116		107.7	%REC	1	09/10/2013 21:08	91826
Surr: Dibromofluoromethane		0	77.7-120		100.8	%REC	1	09/10/2013 21:08	91826
Surr: Toluene-d8		0	86-116		104.2	%REC	1	09/10/2013 21:08	91826

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-005

Client Sample ID: 1467V-12-B03-1

Matrix: SOLID

Collection Date: 08/30/2013 9:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		6.3	%	1	09/03/2013 12:46	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		93.7	%	1	09/03/2013 12:46	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.93		1	09/04/2013 11:02	R181393
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0344	mg/L	1	09/09/2013 15:43	91712
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/09/2013 15:43	91712
Boron	NELAP	1	2		< 2	mg/L	1	09/09/2013 15:43	91712
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/09/2013 15:43	91712
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	09/09/2013 15:43	91712
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/09/2013 15:43	91712
Iron	NELAP	0.007	0.02		2.71	mg/L	1	09/09/2013 15:43	91712
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/09/2013 15:43	91712
Manganese	NELAP	0.0016	0.005		0.0122	mg/L	1	09/09/2013 15:43	91712
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/09/2013 15:43	91712
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/09/2013 15:43	91712
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/09/2013 15:43	91712
Zinc	NELAP	0.0021	0.01		0.0178	mg/L	1	09/09/2013 15:43	91712
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/11/2013 10:40	91720
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 20:21	91720
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/09/2013 17:42	91728
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.31	4.63		27000	mg/Kg-dry	1	09/06/2013 3:10	91587
Antimony	NELAP	2.45	4.72		< 4.72	mg/Kg-dry	1	09/06/2013 2:32	91641
Arsenic	NELAP	1.16	2.31	X	11.4	mg/Kg-dry	1	09/06/2013 3:10	91587
Barium	NELAP	0.23	0.46		188	mg/Kg-dry	1	09/06/2013 3:10	91587
Beryllium	NELAP	0.05	0.09		1.03	mg/Kg-dry	1	09/06/2013 3:10	91587
Boron	NELAP	0.93	1.85		6.81	mg/Kg-dry	1	09/06/2013 3:10	91587
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	09/06/2013 3:10	91587
Calcium	NELAP	2.31	4.63		4560	mg/Kg-dry	1	09/06/2013 3:10	91587
Chromium	NELAP	0.46	0.93	X	32.5	mg/Kg-dry	1	09/06/2013 3:10	91587
Cobalt	NELAP	0.46	0.93		13.9	mg/Kg-dry	1	09/06/2013 3:10	91587
Copper	NELAP	0.46	0.93		22.1	mg/Kg-dry	1	09/06/2013 3:10	91587
Iron	NELAP	0.93	1.85	X	31400	mg/Kg-dry	1	09/06/2013 3:10	91587
Lead	NELAP	1.85	3.7		16.9	mg/Kg-dry	1	09/06/2013 3:10	91587
Magnesium	NELAP	0.46	0.93		5910	mg/Kg-dry	1	09/06/2013 3:10	91587
Manganese	NELAP	0.23	0.46	X	1280	mg/Kg-dry	1	09/06/2013 3:10	91587
Nickel	NELAP	0.46	0.93		28.3	mg/Kg-dry	1	09/06/2013 3:10	91587
Potassium	NELAP	4.63	9.26		1820	mg/Kg-dry	1	09/06/2013 3:10	91587
Silver	NELAP	0.46	0.51		< 0.51	mg/Kg-dry	1	09/06/2013 3:10	91587
Sodium	NELAP	2.31	4.63		142	mg/Kg-dry	1	09/06/2013 3:10	91587
Thallium	NELAP	2.31	2.41		< 2.41	mg/Kg-dry	1	09/06/2013 3:10	91587

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-005

Client Sample ID: 1467V-12-B03-1

Matrix: SOLID

Collection Date: 08/30/2013 9:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Vanadium	NELAP	0.46	0.93		53.4	mg/Kg-dry	1	09/06/2013 3:10	91587
Zinc	NELAP	0.46	0.93		68.2	mg/Kg-dry	1	09/06/2013 3:10	91587
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.33	0.566		< 0.566	mg/Kg-dry	1	09/10/2013 13:43	91592
SW-846 7471B									
Mercury	NELAP	0.003	0.011		0.042	mg/Kg-dry	1	09/05/2013 10:23	91584
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.141	0.528		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
1,2-Dichlorobenzene	NELAP	0.168	0.528		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
1,3-Dichlorobenzene	NELAP	0.177	0.528		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
1,4-Dichlorobenzene	NELAP	0.168	0.528		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
2,4,5-Trichlorophenol	NELAP	0.1	0.37		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
2,4,6-Trichlorophenol	NELAP	0.133	0.37		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
2,4-Dichlorophenol	NELAP	0.128	0.528		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
2,4-Dimethylphenol	NELAP	0.134	0.528		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
2,4-Dinitrophenol	NELAP	0.113	1.06		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
2,4-Dinitrotoluene	NELAP	0.11	0.37		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
2,6-Dinitrotoluene	NELAP	0.114	0.37		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
2-Chloronaphthalene	NELAP	0.127	0.37		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
2-Chlorophenol	NELAP	0.134	0.528		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
2-Methylnaphthalene	NELAP	0.126	0.37		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
2-Nitroaniline	NELAP	0.096	1.06		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
2-Nitrophenol	NELAP	0.118	0.37		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
3,3'-Dichlorobenzidine	NELAP	0.211	0.37		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
3-Nitroaniline	NELAP	0.087	1.06		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
4,6-Dinitro-2-methylphenol	NELAP	0.114	1.06		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
4-Bromophenyl phenyl ether	NELAP	0.097	0.37		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
4-Chloro-3-methylphenol	NELAP	0.116	0.528		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
4-Chloroaniline	NELAP	0.128	0.528		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
4-Chlorophenyl phenyl ether	NELAP	0.105	0.37		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
4-Nitroaniline	NELAP	0.096	0.528		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
4-Nitrophenol	NELAP	0.104	0.37		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Acenaphthene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Acenaphthylene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Anthracene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Benzo(a)anthracene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Benzo(a)pyrene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Benzo(b)fluoranthene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Benzo(g,h,i)perylene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Benzo(k)fluoranthene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Bis(2-chloroethoxy)methane	NELAP	0.124	0.37		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Bis(2-chloroethyl)ether	NELAP	0.15	0.528		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Bis(2-chloroisopropyl)ether	NELAP	0.12	0.37		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Bis(2-ethylhexyl)phthalate	NELAP	0.124	0.37		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Butyl benzyl phthalate	NELAP	0.107	0.37		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Carbazole		0.129	0.528		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Chrysene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/05/2013 1:08	91570



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-005

Client Sample ID: 1467V-12-B03-1

Matrix: SOLID

Collection Date: 08/30/2013 9:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dibenzo(a,h)anthracene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Dibenzofuran	NELAP	0.133	0.37		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Diethyl phthalate	NELAP	0.101	0.528		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Dimethyl phthalate	NELAP	0.096	0.37		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Di-n-butyl phthalate	NELAP	0.109	0.37		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Di-n-octyl phthalate	NELAP	0.11	0.37		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Fluoranthene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Fluorene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Hexachlorobenzene	NELAP	0.104	0.37		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Hexachlorobutadiene	NELAP	0.164	0.528		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Hexachlorocyclopentadiene	NELAP	0.108	0.37		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Hexachloroethane	NELAP	0.176	0.528		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Indeno(1,2,3-cd)pyrene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Isophorone	NELAP	0.125	0.37		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
m,p-Cresol	NELAP	0.133	0.528		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Naphthalene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Nitrobenzene	NELAP	0.132	0.528		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
N-Nitroso-di-n-propylamine	NELAP	0.116	0.528		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
N-Nitrosodiphenylamine	NELAP	0.097	0.528		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
o-Cresol	NELAP	0.125	0.528		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Pentachlorophenol	NELAP	0.697	2.11		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Phenanthrene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Phenol	NELAP	0.123	0.37		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Pyrene	NELAP	0.018	0.036		ND	mg/Kg-dry	1	09/05/2013 1:08	91570
Surr: 2,4,6-Tribromophenol		0	32.7-130		75.7	%REC	1	09/05/2013 1:08	91570
Surr: 2-Fluorobiphenyl		0	34.1-116		67.4	%REC	1	09/05/2013 1:08	91570
Surr: 2-Fluorophenol		0	30.5-99		69.6	%REC	1	09/05/2013 1:08	91570
Surr: Nitrobenzene-d5		0	34.1-101		73.3	%REC	1	09/05/2013 1:08	91570
Surr: Phenol-d5		0	34.9-110		72.9	%REC	1	09/05/2013 1:08	91570
Surr: p-Terphenyl-d14		0	41.7-124		85.5	%REC	1	09/05/2013 1:08	91570
<i>LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
1,1,2,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
2-Butanone	NELAP	0.0081	0.041		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
2-Hexanone	NELAP	0.0081	0.041		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
4-Methyl-2-pentanone	NELAP	0.0081	0.041		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
Acetone	NELAP	0.0081	0.041		0.069	mg/Kg-dry	1	09/10/2013 22:27	91826
Benzene	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 22:27	91826



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-005

Client Sample ID: 1467V-12-B03-1

Matrix: SOLID

Collection Date: 08/30/2013 9:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromomethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
Carbon disulfide	NELAP	0.0024	0.004		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
Chloroethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
Chloromethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
Ethylbenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
m,p-Xylenes	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/10/2013 22:27	91826
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
Methylene chloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
o-Xylene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
Toluene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
Vinyl acetate	NELAP	0.0163	0.041		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/10/2013 22:27	91826
Xylenes, Total	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	09/10/2013 22:27	91826
Surr: 1,2-Dichloroethane-d4		0	72.2-131		107.4	%REC	1	09/10/2013 22:27	91826
Surr: 4-Bromofluorobenzene		0	82.1-116		102.5	%REC	1	09/10/2013 22:27	91826
Surr: Dibromofluoromethane		0	77.7-120		100.6	%REC	1	09/10/2013 22:27	91826
Surr: Toluene-d8		0	86-116		99.1	%REC	1	09/10/2013 22:27	91826

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-006

Client Sample ID: 1467V-12-B03-1 DUP

Matrix: SOLID

Collection Date: 08/30/2013 9:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		11.3	%	1	09/03/2013 12:47	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		88.7	%	1	09/03/2013 12:47	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.59		1	09/04/2013 11:07	R181393
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0393	mg/L	1	09/09/2013 15:46	91712
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/09/2013 15:46	91712
Boron	NELAP	1	2		< 2	mg/L	1	09/09/2013 15:46	91712
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/09/2013 15:46	91712
Chromium	NELAP	0.004	0.01	J	0.0043	mg/L	1	09/09/2013 15:46	91712
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/09/2013 15:46	91712
Iron	NELAP	0.007	0.02		2.89	mg/L	1	09/09/2013 15:46	91712
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/09/2013 15:46	91712
Manganese	NELAP	0.0016	0.005		0.014	mg/L	1	09/09/2013 15:46	91712
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/09/2013 15:46	91712
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/09/2013 15:46	91712
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/09/2013 15:46	91712
Zinc	NELAP	0.0021	0.01		0.0104	mg/L	1	09/09/2013 15:46	91712
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/11/2013 10:43	91720
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 20:24	91720
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/09/2013 17:49	91728
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.5	5		27100	mg/Kg-dry	1	09/06/2013 3:16	91587
Antimony	NELAP	2.5	4.81		< 4.81	mg/Kg-dry	1	09/06/2013 2:36	91641
Arsenic	NELAP	1.25	2.5		11.2	mg/Kg-dry	1	09/06/2013 3:16	91587
Barium	NELAP	0.25	0.5		186	mg/Kg-dry	1	09/06/2013 3:16	91587
Beryllium	NELAP	0.05	0.1		1.06	mg/Kg-dry	1	09/06/2013 3:16	91587
Boron	NELAP	1	2		7.21	mg/Kg-dry	1	09/06/2013 3:16	91587
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	09/06/2013 3:16	91587
Calcium	NELAP	2.5	5		4660	mg/Kg-dry	1	09/06/2013 3:16	91587
Chromium	NELAP	0.5	1	X	32.7	mg/Kg-dry	1	09/06/2013 3:16	91587
Cobalt	NELAP	0.5	1		10.9	mg/Kg-dry	1	09/06/2013 3:16	91587
Copper	NELAP	0.5	1		19	mg/Kg-dry	1	09/06/2013 3:16	91587
Iron	NELAP	1	2	X	30600	mg/Kg-dry	1	09/06/2013 3:16	91587
Lead	NELAP	2	4		15.7	mg/Kg-dry	1	09/06/2013 3:16	91587
Magnesium	NELAP	0.5	1		5870	mg/Kg-dry	1	09/06/2013 3:16	91587
Manganese	NELAP	0.25	0.5	X	746	mg/Kg-dry	1	09/06/2013 3:16	91587
Nickel	NELAP	0.5	1		26	mg/Kg-dry	1	09/06/2013 3:16	91587
Potassium	NELAP	5	10		1880	mg/Kg-dry	1	09/06/2013 3:16	91587
Silver	NELAP	0.5	0.55		< 0.55	mg/Kg-dry	1	09/06/2013 3:16	91587
Sodium	NELAP	2.5	5		155	mg/Kg-dry	1	09/06/2013 3:16	91587
Thallium	NELAP	2.5	2.6		< 2.6	mg/Kg-dry	1	09/06/2013 3:16	91587



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-006

Client Sample ID: 1467V-12-B03-1 DUP

Matrix: SOLID

Collection Date: 08/30/2013 9:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Vanadium	NELAP	0.5	1		54	mg/Kg-dry	1	09/06/2013 3:16	91587
Zinc	NELAP	0.5	1		70.1	mg/Kg-dry	1	09/06/2013 3:16	91587
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.337	0.577		< 0.577	mg/Kg-dry	1	09/10/2013 13:47	91592
SW-846 7471B									
Mercury	NELAP	0.003	0.011		0.044	mg/Kg-dry	1	09/05/2013 10:25	91584
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.15	0.563		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
1,2-Dichlorobenzene	NELAP	0.179	0.563		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
1,3-Dichlorobenzene	NELAP	0.189	0.563		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
1,4-Dichlorobenzene	NELAP	0.179	0.563		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
2,4,5-Trichlorophenol	NELAP	0.107	0.394		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
2,4,6-Trichlorophenol	NELAP	0.142	0.394		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
2,4-Dichlorophenol	NELAP	0.136	0.563		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
2,4-Dimethylphenol	NELAP	0.143	0.563		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
2,4-Dinitrophenol	NELAP	0.121	1.13		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
2,4-Dinitrotoluene	NELAP	0.117	0.394		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
2,6-Dinitrotoluene	NELAP	0.122	0.394		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
2-Chloronaphthalene	NELAP	0.135	0.394		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
2-Chlorophenol	NELAP	0.143	0.563		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
2-Methylnaphthalene	NELAP	0.134	0.394		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
2-Nitroaniline	NELAP	0.103	1.13		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
2-Nitrophenol	NELAP	0.126	0.394		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
3,3'-Dichlorobenzidine	NELAP	0.225	0.394		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
3-Nitroaniline	NELAP	0.092	1.13		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
4,6-Dinitro-2-methylphenol	NELAP	0.122	1.13		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
4-Bromophenyl phenyl ether	NELAP	0.104	0.394		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
4-Chloro-3-methylphenol	NELAP	0.124	0.563		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
4-Chloroaniline	NELAP	0.136	0.563		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
4-Chlorophenyl phenyl ether	NELAP	0.112	0.394		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
4-Nitroaniline	NELAP	0.103	0.563		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
4-Nitrophenol	NELAP	0.11	0.394		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Acenaphthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Acenaphthylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Benzo(a)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Benzo(a)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Benzo(b)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Benzo(g,h,i)perylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Benzo(k)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Bis(2-chloroethoxy)methane	NELAP	0.132	0.394		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Bis(2-chloroethyl)ether	NELAP	0.16	0.563		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Bis(2-chloroisopropyl)ether	NELAP	0.128	0.394		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Bis(2-ethylhexyl)phthalate	NELAP	0.132	0.394		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Butyl benzyl phthalate	NELAP	0.114	0.394		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Carbazole		0.137	0.563		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Chrysene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 1:41	91570

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-006

Client Sample ID: 1467V-12-B03-1 DUP

Matrix: SOLID

Collection Date: 08/30/2013 9:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
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SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

Dibenzo(a,h)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Dibenzofuran	NELAP	0.142	0.394		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Diethyl phthalate	NELAP	0.108	0.563		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Dimethyl phthalate	NELAP	0.103	0.394		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Di-n-butyl phthalate	NELAP	0.116	0.394		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Di-n-octyl phthalate	NELAP	0.117	0.394		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Fluorene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Hexachlorobenzene	NELAP	0.11	0.394		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Hexachlorobutadiene	NELAP	0.175	0.563		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Hexachlorocyclopentadiene	NELAP	0.115	0.394		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Hexachloroethane	NELAP	0.188	0.563		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Isophorone	NELAP	0.133	0.394		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
m,p-Cresol	NELAP	0.142	0.563		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Naphthalene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Nitrobenzene	NELAP	0.141	0.563		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
N-Nitroso-di-n-propylamine	NELAP	0.124	0.563		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
N-Nitrosodiphenylamine	NELAP	0.104	0.563		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
o-Cresol	NELAP	0.133	0.563		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Pentachlorophenol	NELAP	0.744	2.25		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Phenanthrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Phenol	NELAP	0.131	0.394		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 1:41	91570
Surr: 2,4,6-Tribromophenol		0	32.7-130		77	%REC	1	09/05/2013 1:41	91570
Surr: 2-Fluorobiphenyl		0	34.1-116		69.3	%REC	1	09/05/2013 1:41	91570
Surr: 2-Fluorophenol		0	30.5-99		68.8	%REC	1	09/05/2013 1:41	91570
Surr: Nitrobenzene-d5		0	34.1-101		74.9	%REC	1	09/05/2013 1:41	91570
Surr: Phenol-d5		0	34.9-110		70.6	%REC	1	09/05/2013 1:41	91570
Surr: p-Terphenyl-d14		0	41.7-124		84.8	%REC	1	09/05/2013 1:41	91570

LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

1,1,1-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
1,1,2-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
1,1-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
1,1-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
1,2-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
1,2-Dichloropropane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
1,3-Dichloropropene, Total		0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
2-Butanone	NELAP	0.0094	0.047		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
2-Hexanone	NELAP	0.0094	0.047		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
4-Methyl-2-pentanone	NELAP	0.0094	0.047		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
Acetone	NELAP	0.0094	0.047	J	0.031	mg/Kg-dry	1	09/10/2013 22:53	91826
Benzene	NELAP	0.0005	0.001		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
Bromodichloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
Bromoform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-006

Client Sample ID: 1467V-12-B03-1 DUP

Matrix: SOLID

Collection Date: 08/30/2013 9:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromomethane	NELAP	0.0019	0.009		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
Carbon disulfide	NELAP	0.0028	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
Carbon tetrachloride	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
Chlorobenzene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
Chloroethane	NELAP	0.0019	0.009		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
Chloroform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
Chloromethane	NELAP	0.0019	0.009		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
cis-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
cis-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
Dibromochloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
Ethylbenzene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
m,p-Xylenes	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
Methylene chloride	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
o-Xylene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
Styrene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
Tetrachloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
Toluene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
trans-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
trans-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
Trichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
Vinyl acetate	NELAP	0.0187	0.047		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
Xylenes, Total	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/10/2013 22:53	91826
Surr: 1,2-Dichloroethane-d4		0	72.2-131		108.4	%REC	1	09/10/2013 22:53	91826
Surr: 4-Bromofluorobenzene		0	82.1-116		101	%REC	1	09/10/2013 22:53	91826
Surr: Dibromofluoromethane		0	77.7-120		99.8	%REC	1	09/10/2013 22:53	91826
Surr: Toluene-d8		0	86-116		100.9	%REC	1	09/10/2013 22:53	91826



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-007

Client Sample ID: 1467V-12-B03-2

Matrix: SOLID

Collection Date: 08/30/2013 9:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		7.5	%	1	09/03/2013 12:47	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		92.5	%	1	09/03/2013 12:47	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.4		1	09/04/2013 11:11	R181393
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0425	mg/L	1	09/09/2013 15:50	91712
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	09/09/2013 15:50	91712
Boron	NELAP	1	2		< 2	mg/L	1	09/09/2013 15:50	91712
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/09/2013 15:50	91712
Chromium	NELAP	0.004	0.01	J	0.0044	mg/L	1	09/09/2013 15:50	91712
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/09/2013 15:50	91712
Iron	NELAP	0.007	0.02		3.24	mg/L	1	09/09/2013 15:50	91712
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/09/2013 15:50	91712
Manganese	NELAP	0.0016	0.005		0.0211	mg/L	1	09/09/2013 15:50	91712
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	09/09/2013 15:50	91712
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/09/2013 15:50	91712
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/09/2013 15:50	91712
Zinc	NELAP	0.0021	0.01		0.0114	mg/L	1	09/09/2013 15:50	91712
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/11/2013 10:47	91720
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 20:27	91720
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/09/2013 17:51	91728
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.31	4.63		8310	mg/Kg-dry	1	09/06/2013 3:22	91587
Antimony	NELAP	2.41	4.63		< 4.63	mg/Kg-dry	1	09/06/2013 2:39	91641
Arsenic	NELAP	1.16	2.31		5.88	mg/Kg-dry	1	09/06/2013 3:22	91587
Barium	NELAP	0.23	0.46		55.1	mg/Kg-dry	1	09/06/2013 3:22	91587
Beryllium	NELAP	0.05	0.09		0.5	mg/Kg-dry	1	09/06/2013 3:22	91587
Boron	NELAP	0.93	1.85		11.4	mg/Kg-dry	1	09/06/2013 3:22	91587
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	09/06/2013 3:22	91587
Calcium	NELAP	2.31	4.63		80500	mg/Kg-dry	1	09/06/2013 3:22	91587
Chromium	NELAP	0.46	0.93	X	14.8	mg/Kg-dry	1	09/06/2013 3:22	91587
Cobalt	NELAP	0.46	0.93		6.14	mg/Kg-dry	1	09/06/2013 3:22	91587
Copper	NELAP	0.46	0.93		12.9	mg/Kg-dry	1	09/06/2013 3:22	91587
Iron	NELAP	0.93	1.85		14900	mg/Kg-dry	1	09/06/2013 3:22	91587
Lead	NELAP	1.85	3.7		6.94	mg/Kg-dry	1	09/06/2013 3:22	91587
Magnesium	NELAP	0.46	0.93		38500	mg/Kg-dry	1	09/06/2013 3:22	91587
Manganese	NELAP	0.23	0.46		491	mg/Kg-dry	1	09/06/2013 3:22	91587
Nickel	NELAP	0.46	0.93		16.7	mg/Kg-dry	1	09/06/2013 3:22	91587
Potassium	NELAP	4.63	9.26		1990	mg/Kg-dry	1	09/06/2013 3:22	91587
Silver	NELAP	0.46	0.51		< 0.51	mg/Kg-dry	1	09/06/2013 3:22	91587
Sodium	NELAP	2.31	4.63		144	mg/Kg-dry	1	09/06/2013 3:22	91587
Thallium	NELAP	2.31	2.41		< 2.41	mg/Kg-dry	1	09/06/2013 3:22	91587

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-007

Client Sample ID: 1467V-12-B03-2

Matrix: SOLID

Collection Date: 08/30/2013 9:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Vanadium	NELAP	0.46	0.93		20.4	mg/Kg-dry	1	09/06/2013 3:22	91587
Zinc	NELAP	0.46	0.93		33	mg/Kg-dry	1	09/06/2013 3:22	91587
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.318	0.545		< 0.545	mg/Kg-dry	1	09/10/2013 13:50	91592
SW-846 7471B									
Mercury	NELAP	0.003	0.011	J	0.004	mg/Kg-dry	1	09/05/2013 10:27	91584
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.143	0.538		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
1,2-Dichlorobenzene	NELAP	0.171	0.538		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
1,3-Dichlorobenzene	NELAP	0.181	0.538		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
1,4-Dichlorobenzene	NELAP	0.171	0.538		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
2,4,5-Trichlorophenol	NELAP	0.102	0.377		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
2,4,6-Trichlorophenol	NELAP	0.136	0.377		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
2,4-Dichlorophenol	NELAP	0.13	0.538		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
2,4-Dimethylphenol	NELAP	0.137	0.538		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
2,4-Dinitrophenol	NELAP	0.115	1.08		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
2,4-Dinitrotoluene	NELAP	0.112	0.377		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
2,6-Dinitrotoluene	NELAP	0.116	0.377		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
2-Chloronaphthalene	NELAP	0.129	0.377		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
2-Chlorophenol	NELAP	0.137	0.538		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
2-Methylnaphthalene	NELAP	0.128	0.377		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
2-Nitroaniline	NELAP	0.098	1.08		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
2-Nitrophenol	NELAP	0.121	0.377		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
3,3'-Dichlorobenzidine	NELAP	0.215	0.377		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
3-Nitroaniline	NELAP	0.088	1.08		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
4,6-Dinitro-2-methylphenol	NELAP	0.116	1.08		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
4-Bromophenyl phenyl ether	NELAP	0.099	0.377		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
4-Chloro-3-methylphenol	NELAP	0.118	0.538		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
4-Chloroaniline	NELAP	0.13	0.538		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
4-Chlorophenyl phenyl ether	NELAP	0.107	0.377		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
4-Nitroaniline	NELAP	0.098	0.538		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
4-Nitrophenol	NELAP	0.106	0.377		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Acenaphthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Acenaphthylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Benzo(a)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Benzo(a)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Benzo(b)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Benzo(g,h,i)perylene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Benzo(k)fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Bis(2-chloroethoxy)methane	NELAP	0.126	0.377		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Bis(2-chloroethyl)ether	NELAP	0.153	0.538		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Bis(2-chloroisopropyl)ether	NELAP	0.123	0.377		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Bis(2-ethylhexyl)phthalate	NELAP	0.126	0.377		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Butyl benzyl phthalate	NELAP	0.109	0.377		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Carbazole		0.131	0.538		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Chrysene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/05/2013 2:13	91570



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-007

Client Sample ID: 1467V-12-B03-2

Matrix: SOLID

Collection Date: 08/30/2013 9:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dibenzo(a,h)anthracene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Dibenzofuran	NELAP	0.136	0.377		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Diethyl phthalate	NELAP	0.103	0.538		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Dimethyl phthalate	NELAP	0.098	0.377		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Di-n-butyl phthalate	NELAP	0.111	0.377		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Di-n-octyl phthalate	NELAP	0.112	0.377		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Fluoranthene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Fluorene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Hexachlorobenzene	NELAP	0.106	0.377		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Hexachlorobutadiene	NELAP	0.167	0.538		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Hexachlorocyclopentadiene	NELAP	0.11	0.377		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Hexachloroethane	NELAP	0.18	0.538		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Indeno(1,2,3-cd)pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Isophorone	NELAP	0.127	0.377		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
m,p-Cresol	NELAP	0.136	0.538		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Naphthalene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Nitrobenzene	NELAP	0.135	0.538		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
N-Nitroso-di-n-propylamine	NELAP	0.118	0.538		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
N-Nitrosodiphenylamine	NELAP	0.099	0.538		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
o-Cresol	NELAP	0.127	0.538		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Pentachlorophenol	NELAP	0.711	2.15		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Phenanthrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Phenol	NELAP	0.125	0.377		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Pyrene	NELAP	0.018	0.037		ND	mg/Kg-dry	1	09/05/2013 2:13	91570
Surr: 2,4,6-Tribromophenol		0	32.7-130		75.4	%REC	1	09/05/2013 2:13	91570
Surr: 2-Fluorobiphenyl		0	34.1-116		74.6	%REC	1	09/05/2013 2:13	91570
Surr: 2-Fluorophenol		0	30.5-99		70.5	%REC	1	09/05/2013 2:13	91570
Surr: Nitrobenzene-d5		0	34.1-101		77.5	%REC	1	09/05/2013 2:13	91570
Surr: Phenol-d5		0	34.9-110		74.1	%REC	1	09/05/2013 2:13	91570
Surr: p-Terphenyl-d14		0	41.7-124		88.8	%REC	1	09/05/2013 2:13	91570

LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
1,1,2,2-Tetrachloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
1,1,2-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
1,1-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
1,1-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
1,2-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
1,2-Dichloropropane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
1,3-Dichloropropene, Total		0.0007	0.003		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
2-Butanone	NELAP	0.0073	0.036		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
2-Hexanone	NELAP	0.0073	0.036		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
4-Methyl-2-pentanone	NELAP	0.0073	0.036		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
Acetone	NELAP	0.0073	0.036	J	0.024	mg/Kg-dry	1	09/10/2013 23:20	91826
Benzene	NELAP	0.0004	0.001		0.002	mg/Kg-dry	1	09/10/2013 23:20	91826
Bromodichloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
Bromoform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 23:20	91826



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-007

Client Sample ID: 1467V-12-B03-2

Matrix: SOLID

Collection Date: 08/30/2013 9:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromomethane	NELAP	0.0015	0.007		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
Carbon disulfide	NELAP	0.0022	0.004		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
Carbon tetrachloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
Chlorobenzene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
Chloroethane	NELAP	0.0015	0.007		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
Chloroform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
Chloromethane	NELAP	0.0015	0.007		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
cis-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
cis-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
Dibromochloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
Ethylbenzene	NELAP	0.0007	0.004	J	0.002	mg/Kg-dry	1	09/10/2013 23:20	91826
m,p-Xylenes	NELAP	0.0007	0.004	J	0.002	mg/Kg-dry	1	09/10/2013 23:20	91826
Methyl tert-butyl ether	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
Methylene chloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
o-Xylene	NELAP	0.0007	0.004	J	0.001	mg/Kg-dry	1	09/10/2013 23:20	91826
Styrene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
Tetrachloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
Toluene	NELAP	0.0007	0.004	J	0.003	mg/Kg-dry	1	09/10/2013 23:20	91826
trans-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
trans-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
Trichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
Vinyl acetate	NELAP	0.0145	0.036		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
Vinyl chloride	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/10/2013 23:20	91826
Xylenes, Total	NELAP	0.0007	0.004	J	0.003	mg/Kg-dry	1	09/10/2013 23:20	91826
Surr: 1,2-Dichloroethane-d4		0	72.2-131		104.9	%REC	1	09/10/2013 23:20	91826
Surr: 4-Bromofluorobenzene		0	82.1-116		110.1	%REC	1	09/10/2013 23:20	91826
Surr: Dibromofluoromethane		0	77.7-120		101	%REC	1	09/10/2013 23:20	91826
Surr: Toluene-d8		0	86-116		104.1	%REC	1	09/10/2013 23:20	91826

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-008

Client Sample ID: 1467V-12-B04-1

Matrix: SOLID

Collection Date: 08/30/2013 7:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		18.2	%	1	09/03/2013 12:48	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		81.8	%	1	09/03/2013 12:48	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.09		1	09/04/2013 11:18	R181393
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.249	mg/L	1	09/11/2013 16:48	91824
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.15	mg/L	1	09/09/2013 15:54	91712
Beryllium	NELAP	0.0003	0.001	J	0.0006	mg/L	1	09/09/2013 15:54	91712
Boron	NELAP	1	2		< 2	mg/L	1	09/09/2013 15:54	91712
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/09/2013 15:54	91712
Chromium	NELAP	0.004	0.01		0.0208	mg/L	1	09/09/2013 15:54	91712
Cobalt	NELAP	0.0022	0.01	J	0.0034	mg/L	1	09/09/2013 15:54	91712
Iron	NELAP	0.007	0.02	X	22.9	mg/L	1	09/09/2013 15:54	91712
Lead	NELAP	0.006	0.007	J	0.006	mg/L	1	09/09/2013 15:54	91712
Manganese	NELAP	0.0016	0.005		0.136	mg/L	1	09/09/2013 15:54	91712
Nickel	NELAP	0.0033	0.01		0.0162	mg/L	1	09/09/2013 15:54	91712
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/09/2013 15:54	91712
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/09/2013 15:54	91712
Zinc	NELAP	0.0021	0.01		0.0492	mg/L	1	09/09/2013 15:54	91712
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/11/2013 10:51	91720
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 20:31	91720
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/09/2013 17:58	91728
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.45	4.9		24200	mg/Kg-dry	1	09/06/2013 3:28	91587
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	09/06/2013 2:43	91641
Arsenic	NELAP	1.23	2.45	X	11.6	mg/Kg-dry	1	09/06/2013 3:28	91587
Barium	NELAP	0.25	0.49		156	mg/Kg-dry	1	09/06/2013 3:28	91587
Beryllium	NELAP	0.05	0.1		1.06	mg/Kg-dry	1	09/06/2013 3:28	91587
Boron	NELAP	0.98	1.96		7.36	mg/Kg-dry	1	09/06/2013 3:28	91587
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	09/06/2013 17:09	91587
Calcium	NELAP	2.45	4.9		3090	mg/Kg-dry	1	09/06/2013 3:28	91587
Chromium	NELAP	0.49	0.98	X	30.4	mg/Kg-dry	1	09/06/2013 3:28	91587
Cobalt	NELAP	0.49	0.98		10.1	mg/Kg-dry	1	09/06/2013 3:28	91587
Copper	NELAP	0.49	0.98		26	mg/Kg-dry	1	09/06/2013 3:28	91587
Iron	NELAP	0.98	1.96	X	30200	mg/Kg-dry	1	09/06/2013 3:28	91587
Lead	NELAP	1.96	3.92		17	mg/Kg-dry	1	09/06/2013 3:28	91587
Magnesium	NELAP	0.49	0.98		5040	mg/Kg-dry	1	09/06/2013 3:28	91587
Manganese	NELAP	0.25	0.49	X	678	mg/Kg-dry	1	09/06/2013 3:28	91587
Nickel	NELAP	0.49	0.98		26.7	mg/Kg-dry	1	09/06/2013 3:28	91587
Potassium	NELAP	4.9	9.8		1830	mg/Kg-dry	1	09/06/2013 3:28	91587
Silver	NELAP	0.49	0.54		< 0.54	mg/Kg-dry	1	09/06/2013 3:28	91587



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-008

Client Sample ID: 1467V-12-B04-1

Matrix: SOLID

Collection Date: 08/30/2013 7:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Sodium	NELAP	2.45	4.9		2600	mg/Kg-dry	1	09/06/2013 3:28	91587
Thallium	NELAP	2.45	2.55		< 2.55	mg/Kg-dry	1	09/06/2013 3:28	91587
Vanadium	NELAP	0.49	0.98		53.4	mg/Kg-dry	1	09/06/2013 3:28	91587
Zinc	NELAP	0.49	0.98		62.4	mg/Kg-dry	1	09/06/2013 3:28	91587
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.35	0.6		< 0.6	mg/Kg-dry	1	09/10/2013 13:54	91592
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.031	mg/Kg-dry	1	09/05/2013 10:29	91584
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.162	0.609		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
1,2-Dichlorobenzene	NELAP	0.194	0.609		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
1,3-Dichlorobenzene	NELAP	0.205	0.609		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
1,4-Dichlorobenzene	NELAP	0.194	0.609		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
2,4,5-Trichlorophenol	NELAP	0.116	0.426		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
2,4,6-Trichlorophenol	NELAP	0.153	0.426		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
2,4-Dichlorophenol	NELAP	0.147	0.609		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
2,4-Dimethylphenol	NELAP	0.155	0.609		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
2,4-Dinitrophenol	NELAP	0.13	1.22		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
2,4-Dinitrotoluene	NELAP	0.127	0.426		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
2,6-Dinitrotoluene	NELAP	0.132	0.426		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
2-Chloronaphthalene	NELAP	0.146	0.426		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
2-Chlorophenol	NELAP	0.155	0.609		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
2-Methylnaphthalene	NELAP	0.145	0.426		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
2-Nitroaniline	NELAP	0.111	1.22		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
2-Nitrophenol	NELAP	0.136	0.426		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
3,3'-Dichlorobenzidine	NELAP	0.244	0.426		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
3-Nitroaniline	NELAP	0.1	1.22		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
4,6-Dinitro-2-methylphenol	NELAP	0.132	1.22		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
4-Bromophenyl phenyl ether	NELAP	0.112	0.426		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
4-Chloro-3-methylphenol	NELAP	0.134	0.609		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
4-Chloroaniline	NELAP	0.147	0.609		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
4-Chlorophenyl phenyl ether	NELAP	0.121	0.426		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
4-Nitroaniline	NELAP	0.111	0.609		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
4-Nitrophenol	NELAP	0.119	0.426		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Acenaphthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Acenaphthylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Benzo(a)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Benzo(a)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Benzo(b)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Benzo(g,h,i)perylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Benzo(k)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Bis(2-chloroethoxy)methane	NELAP	0.143	0.426		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Bis(2-chloroethyl)ether	NELAP	0.173	0.609		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Bis(2-chloroisopropyl)ether	NELAP	0.139	0.426		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Bis(2-ethylhexyl)phthalate	NELAP	0.143	0.426		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Butyl benzyl phthalate	NELAP	0.123	0.426		ND	mg/Kg-dry	1	09/05/2013 2:46	91570

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-008

Client Sample ID: 1467V-12-B04-1

Matrix: SOLID

Collection Date: 08/30/2013 7:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.149	0.609		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Chrysene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Dibenzo(a,h)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Dibenzofuran	NELAP	0.153	0.426		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Diethyl phthalate	NELAP	0.117	0.609		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Dimethyl phthalate	NELAP	0.111	0.426		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Di-n-butyl phthalate	NELAP	0.125	0.426		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Di-n-octyl phthalate	NELAP	0.127	0.426		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Fluorene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Hexachlorobenzene	NELAP	0.119	0.426		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Hexachlorobutadiene	NELAP	0.189	0.609		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Hexachlorocyclopentadiene	NELAP	0.124	0.426		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Hexachloroethane	NELAP	0.203	0.609		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Isophorone	NELAP	0.144	0.426		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
m,p-Cresol	NELAP	0.153	0.609		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Naphthalene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Nitrobenzene	NELAP	0.152	0.609		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
N-Nitroso-di-n-propylamine	NELAP	0.134	0.609		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
N-Nitrosodiphenylamine	NELAP	0.112	0.609		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
o-Cresol	NELAP	0.144	0.609		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Pentachlorophenol	NELAP	0.804	2.44		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Phenanthrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Phenol	NELAP	0.141	0.426		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 2:46	91570
Surr: 2,4,6-Tribromophenol		0	32.7-130		72.3	%REC	1	09/05/2013 2:46	91570
Surr: 2-Fluorobiphenyl		0	34.1-116		67.4	%REC	1	09/05/2013 2:46	91570
Surr: 2-Fluorophenol		0	30.5-99		67.8	%REC	1	09/05/2013 2:46	91570
Surr: Nitrobenzene-d5		0	34.1-101		68.2	%REC	1	09/05/2013 2:46	91570
Surr: Phenol-d5		0	34.9-110		70	%REC	1	09/05/2013 2:46	91570
Surr: p-Terphenyl-d14		0	41.7-124		81.1	%REC	1	09/05/2013 2:46	91570
<i>LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
1,1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
1,1,2-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
1,1-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
1,1-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
1,2-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
1,2-Dichloropropane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
1,3-Dichloropropene, Total		0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
2-Butanone	NELAP	0.0089	0.045		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
2-Hexanone	NELAP	0.0089	0.045		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
4-Methyl-2-pentanone	NELAP	0.0089	0.045		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
Acetone	NELAP	0.0089	0.045		0.117	mg/Kg-dry	1	09/10/2013 23:46	91826
Benzene	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/10/2013 23:46	91826



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-008

Client Sample ID: 1467V-12-B04-1

Matrix: SOLID

Collection Date: 08/30/2013 7:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromodichloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
Bromoform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
Bromomethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
Carbon disulfide	NELAP	0.0027	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
Carbon tetrachloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
Chlorobenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
Chloroethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
Chloroform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
Chloromethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
cis-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
cis-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
Dibromochloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
Ethylbenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
m,p-Xylenes	NELAP	0.0009	0.004	J	0.001	mg/Kg-dry	1	09/10/2013 23:46	91826
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
Methylene chloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
o-Xylene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
Styrene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
Tetrachloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
Toluene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
trans-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
trans-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
Trichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
Vinyl acetate	NELAP	0.0178	0.045		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/10/2013 23:46	91826
Xylenes, Total	NELAP	0.0009	0.004	J	0.001	mg/Kg-dry	1	09/10/2013 23:46	91826
Surr: 1,2-Dichloroethane-d4		0	72.2-131		108.7	%REC	1	09/10/2013 23:46	91826
Surr: 4-Bromofluorobenzene		0	82.1-116		99.6	%REC	1	09/10/2013 23:46	91826
Surr: Dibromofluoromethane		0	77.7-120		100.1	%REC	1	09/10/2013 23:46	91826
Surr: Toluene-d8		0	86-116		99.4	%REC	1	09/10/2013 23:46	91826

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-009

Client Sample ID: 1467V-12-B04-2

Matrix: SOLID

Collection Date: 08/30/2013 8:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		10.6	%	1	09/03/2013 12:48	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		89.4	%	1	09/03/2013 12:48	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.71		1	09/04/2013 11:19	R181393
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.0851	mg/L	1	09/11/2013 16:15	91818
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.0688	mg/L	1	09/09/2013 16:05	91712
Beryllium	NELAP	0.0003	0.001	J	0.0003	mg/L	1	09/09/2013 16:05	91712
Boron	NELAP	1	2		< 2	mg/L	1	09/09/2013 16:05	91712
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/09/2013 16:05	91712
Chromium	NELAP	0.004	0.01		0.0105	mg/L	1	09/09/2013 16:05	91712
Cobalt	NELAP	0.0022	0.01	J	0.0024	mg/L	1	09/09/2013 16:05	91712
Iron	NELAP	0.007	0.02	X	9.96	mg/L	1	09/09/2013 16:05	91712
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/09/2013 16:05	91712
Manganese	NELAP	0.0016	0.005		0.0755	mg/L	1	09/09/2013 16:05	91712
Nickel	NELAP	0.0033	0.01	J	0.0074	mg/L	1	09/09/2013 16:05	91712
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/09/2013 16:05	91712
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/09/2013 16:05	91712
Zinc	NELAP	0.0021	0.01		0.0295	mg/L	1	09/09/2013 16:05	91712
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/11/2013 11:13	91720
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 20:34	91720
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/09/2013 18:00	91728
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.45	4.9		7480	mg/Kg-dry	1	09/06/2013 3:34	91587
Antimony	NELAP	2.5	4.81		< 4.81	mg/Kg-dry	1	09/06/2013 2:47	91641
Arsenic	NELAP	1.23	2.45		3.56	mg/Kg-dry	1	09/06/2013 3:34	91587
Barium	NELAP	0.25	0.49		36.2	mg/Kg-dry	1	09/06/2013 3:34	91587
Beryllium	NELAP	0.05	0.1		0.47	mg/Kg-dry	1	09/06/2013 3:34	91587
Boron	NELAP	0.98	1.96		11.4	mg/Kg-dry	1	09/06/2013 3:34	91587
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	09/06/2013 3:34	91587
Calcium	NELAP	2.45	4.9		89200	mg/Kg-dry	1	09/06/2013 3:34	91587
Chromium	NELAP	0.49	0.98	X	13.2	mg/Kg-dry	1	09/06/2013 3:34	91587
Cobalt	NELAP	0.49	0.98		5.49	mg/Kg-dry	1	09/06/2013 3:34	91587
Copper	NELAP	0.49	0.98		11.6	mg/Kg-dry	1	09/06/2013 3:34	91587
Iron	NELAP	0.98	1.96		13100	mg/Kg-dry	1	09/06/2013 3:34	91587
Lead	NELAP	1.96	3.92		6.05	mg/Kg-dry	1	09/06/2013 3:34	91587
Magnesium	NELAP	0.49	0.98		41400	mg/Kg-dry	1	09/06/2013 3:34	91587
Manganese	NELAP	0.25	0.49		340	mg/Kg-dry	1	09/06/2013 3:34	91587
Nickel	NELAP	0.49	0.98		13.6	mg/Kg-dry	1	09/06/2013 3:34	91587
Potassium	NELAP	4.9	9.8		2050	mg/Kg-dry	1	09/06/2013 3:34	91587
Silver	NELAP	0.49	0.54		< 0.54	mg/Kg-dry	1	09/06/2013 3:34	91587

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-009

Client Sample ID: 1467V-12-B04-2

Matrix: SOLID

Collection Date: 08/30/2013 8:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Sodium	NELAP	2.45	4.9		415	mg/Kg-dry	1	09/06/2013 3:34	91587
Thallium	NELAP	2.45	2.55		< 2.55	mg/Kg-dry	1	09/06/2013 3:34	91587
Vanadium	NELAP	0.49	0.98		18.9	mg/Kg-dry	1	09/06/2013 3:34	91587
Zinc	NELAP	0.49	0.98		30.1	mg/Kg-dry	1	09/06/2013 3:34	91587
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.318	0.545	S	< 0.545	mg/Kg-dry	1	09/10/2013 13:57	91592
<i>Se - Matrix interference present in sample. Confirmed by bench spike.</i>									
SW-846 7471B									
Mercury	NELAP	0.003	0.011	J	0.008	mg/Kg-dry	1	09/05/2013 10:36	91584
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.148	0.555		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
1,2-Dichlorobenzene	NELAP	0.177	0.555		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
1,3-Dichlorobenzene	NELAP	0.187	0.555		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
1,4-Dichlorobenzene	NELAP	0.177	0.555		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
2,4,5-Trichlorophenol	NELAP	0.106	0.389		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
2,4,6-Trichlorophenol	NELAP	0.14	0.389		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
2,4-Dichlorophenol	NELAP	0.134	0.555		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
2,4-Dimethylphenol	NELAP	0.141	0.555		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
2,4-Dinitrophenol	NELAP	0.119	1.11		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
2,4-Dinitrotoluene	NELAP	0.115	0.389		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
2,6-Dinitrotoluene	NELAP	0.12	0.389		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
2-Chloronaphthalene	NELAP	0.133	0.389		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
2-Chlorophenol	NELAP	0.141	0.555		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
2-Methylnaphthalene	NELAP	0.132	0.389		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
2-Nitroaniline	NELAP	0.101	1.11		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
2-Nitrophenol	NELAP	0.124	0.389		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
3,3'-Dichlorobenzidine	NELAP	0.222	0.389		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
3-Nitroaniline	NELAP	0.091	1.11		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
4,6-Dinitro-2-methylphenol	NELAP	0.12	1.11		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
4-Bromophenyl phenyl ether	NELAP	0.102	0.389		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
4-Chloro-3-methylphenol	NELAP	0.122	0.555		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
4-Chloroaniline	NELAP	0.134	0.555		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
4-Chlorophenyl phenyl ether	NELAP	0.11	0.389		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
4-Nitroaniline	NELAP	0.101	0.555		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
4-Nitrophenol	NELAP	0.109	0.389		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Acenaphthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Acenaphthylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Benzo(a)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Benzo(a)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Benzo(b)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Benzo(g,h,i)perylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Benzo(k)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Bis(2-chloroethoxy)methane	NELAP	0.13	0.389		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Bis(2-chloroethyl)ether	NELAP	0.158	0.555		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Bis(2-chloroisopropyl)ether	NELAP	0.127	0.389		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Bis(2-ethylhexyl)phthalate	NELAP	0.13	0.389		ND	mg/Kg-dry	1	09/05/2013 3:18	91570



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-009

Client Sample ID: 1467V-12-B04-2

Matrix: SOLID

Collection Date: 08/30/2013 8:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Butyl benzyl phthalate	NELAP	0.112	0.389		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Carbazole		0.135	0.555		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Chrysene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Dibenzo(a,h)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Dibenzofuran	NELAP	0.14	0.389		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Diethyl phthalate	NELAP	0.107	0.555		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Dimethyl phthalate	NELAP	0.101	0.389		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Di-n-butyl phthalate	NELAP	0.114	0.389		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Di-n-octyl phthalate	NELAP	0.115	0.389		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Fluorene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Hexachlorobenzene	NELAP	0.109	0.389		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Hexachlorobutadiene	NELAP	0.172	0.555		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Hexachlorocyclopentadiene	NELAP	0.113	0.389		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Hexachloroethane	NELAP	0.185	0.555		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Isophorone	NELAP	0.131	0.389		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
m,p-Cresol	NELAP	0.14	0.555		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Naphthalene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Nitrobenzene	NELAP	0.139	0.555		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
N-Nitroso-di-n-propylamine	NELAP	0.122	0.555		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
N-Nitrosodiphenylamine	NELAP	0.102	0.555		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
o-Cresol	NELAP	0.131	0.555		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Pentachlorophenol	NELAP	0.733	2.22		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Phenanthrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Phenol	NELAP	0.129	0.389		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	09/05/2013 3:18	91570
Surr: 2,4,6-Tribromophenol		0	32.7-130		73.3	%REC	1	09/05/2013 3:18	91570
Surr: 2-Fluorobiphenyl		0	34.1-116		68.9	%REC	1	09/05/2013 3:18	91570
Surr: 2-Fluorophenol		0	30.5-99		63.5	%REC	1	09/05/2013 3:18	91570
Surr: Nitrobenzene-d5		0	34.1-101		70.5	%REC	1	09/05/2013 3:18	91570
Surr: Phenol-d5		0	34.9-110		68.4	%REC	1	09/05/2013 3:18	91570
Surr: p-Terphenyl-d14		0	41.7-124		82.6	%REC	1	09/05/2013 3:18	91570

LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
1,1,2,2-Tetrachloroethane	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
1,1,2-Trichloroethane	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
1,1-Dichloroethane	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
1,1-Dichloroethene	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
1,2-Dichloroethane	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
1,2-Dichloropropane	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
1,3-Dichloropropene, Total		0.0011	0.004		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
2-Butanone	NELAP	0.011	0.055		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
2-Hexanone	NELAP	0.011	0.055		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
4-Methyl-2-pentanone	NELAP	0.011	0.055		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
Acetone	NELAP	0.011	0.055		ND	mg/Kg-dry	1	09/11/2013 0:12	91826



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-009

Client Sample ID: 1467V-12-B04-2

Matrix: SOLID

Collection Date: 08/30/2013 8:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.0005	0.001		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
Bromodichloromethane	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
Bromoform	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
Bromomethane	NELAP	0.0022	0.011		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
Carbon disulfide	NELAP	0.0033	0.005		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
Carbon tetrachloride	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
Chlorobenzene	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
Chloroethane	NELAP	0.0022	0.011		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
Chloroform	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
Chloromethane	NELAP	0.0022	0.011		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
cis-1,2-Dichloroethene	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
cis-1,3-Dichloropropene	NELAP	0.0011	0.004		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
Dibromochloromethane	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
Ethylbenzene	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
m,p-Xylenes	NELAP	0.0011	0.005	J	0.002	mg/Kg-dry	1	09/11/2013 0:12	91826
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
Methylene chloride	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
o-Xylene	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
Styrene	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
Tetrachloroethene	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
Toluene	NELAP	0.0011	0.005	J	0.001	mg/Kg-dry	1	09/11/2013 0:12	91826
trans-1,2-Dichloroethene	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
trans-1,3-Dichloropropene	NELAP	0.0011	0.004		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
Trichloroethene	NELAP	0.0011	0.005		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
Vinyl acetate	NELAP	0.0219	0.055		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/11/2013 0:12	91826
Xylenes, Total	NELAP	0.0011	0.005	J	0.002	mg/Kg-dry	1	09/11/2013 0:12	91826
Surr: 1,2-Dichloroethane-d4		0	72.2-131		109.7	%REC	1	09/11/2013 0:12	91826
Surr: 4-Bromofluorobenzene		0	82.1-116		100.1	%REC	1	09/11/2013 0:12	91826
Surr: Dibromofluoromethane		0	77.7-120		100.2	%REC	1	09/11/2013 0:12	91826
Surr: Toluene-d8		0	86-116		100.7	%REC	1	09/11/2013 0:12	91826



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-010

Client Sample ID: 1467V-12-B05

Matrix: SOLID

Collection Date: 08/30/2013 8:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		20	%	1	09/03/2013 12:48	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		80	%	1	09/03/2013 12:48	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.86		1	09/04/2013 11:23	R181393
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.131	mg/L	1	09/11/2013 16:51	91824
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.121	mg/L	1	09/09/2013 16:08	91712
Beryllium	NELAP	0.0003	0.001	J	0.0005	mg/L	1	09/09/2013 16:08	91712
Boron	NELAP	1	2		< 2	mg/L	1	09/09/2013 16:08	91712
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/09/2013 16:08	91712
Chromium	NELAP	0.004	0.01		0.0203	mg/L	1	09/09/2013 16:08	91712
Cobalt	NELAP	0.0022	0.01	J	0.0031	mg/L	1	09/09/2013 16:08	91712
Iron	NELAP	0.007	0.02	X	20.4	mg/L	1	09/09/2013 16:08	91712
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/09/2013 16:08	91712
Manganese	NELAP	0.0016	0.005		0.136	mg/L	1	09/09/2013 16:08	91712
Nickel	NELAP	0.0033	0.01		0.0156	mg/L	1	09/09/2013 16:08	91712
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/09/2013 16:08	91712
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/09/2013 16:08	91712
Zinc	NELAP	0.0021	0.01		0.0464	mg/L	1	09/09/2013 16:08	91712
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/11/2013 11:17	91720
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 20:38	91720
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/09/2013 18:03	91728
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.31	4.63		19900	mg/Kg-dry	1	09/06/2013 3:40	91587
Antimony	NELAP	2.45	4.72		< 4.72	mg/Kg-dry	1	09/06/2013 3:05	91641
Arsenic	NELAP	1.16	2.31		10.5	mg/Kg-dry	1	09/06/2013 3:40	91587
Barium	NELAP	0.23	0.46		179	mg/Kg-dry	1	09/06/2013 3:40	91587
Beryllium	NELAP	0.05	0.09		0.93	mg/Kg-dry	1	09/06/2013 3:40	91587
Boron	NELAP	0.93	1.85		4.95	mg/Kg-dry	1	09/06/2013 3:40	91587
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	09/06/2013 3:40	91587
Calcium	NELAP	2.31	4.63		3040	mg/Kg-dry	1	09/06/2013 3:40	91587
Chromium	NELAP	0.46	0.93	X	27.1	mg/Kg-dry	1	09/06/2013 3:40	91587
Cobalt	NELAP	0.46	0.93		12.8	mg/Kg-dry	1	09/06/2013 3:40	91587
Copper	NELAP	0.46	0.93		22.6	mg/Kg-dry	1	09/06/2013 3:40	91587
Iron	NELAP	0.93	1.85	X	26700	mg/Kg-dry	1	09/06/2013 3:40	91587
Lead	NELAP	1.85	3.7		17.1	mg/Kg-dry	1	09/06/2013 3:40	91587
Magnesium	NELAP	0.46	0.93		4470	mg/Kg-dry	1	09/06/2013 3:40	91587
Manganese	NELAP	0.23	0.46	X	723	mg/Kg-dry	1	09/06/2013 3:40	91587
Nickel	NELAP	0.46	0.93		24.5	mg/Kg-dry	1	09/06/2013 3:40	91587
Potassium	NELAP	4.63	9.26		1520	mg/Kg-dry	1	09/06/2013 3:40	91587
Silver	NELAP	0.46	0.51		< 0.51	mg/Kg-dry	1	09/06/2013 3:40	91587

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-010

Client Sample ID: 1467V-12-B05

Matrix: SOLID

Collection Date: 08/30/2013 8:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Sodium	NELAP	2.31	4.63		1650	mg/Kg-dry	1	09/06/2013 3:40	91587
Thallium	NELAP	2.31	2.41		< 2.41	mg/Kg-dry	1	09/06/2013 3:40	91587
Vanadium	NELAP	0.46	0.93		43.9	mg/Kg-dry	1	09/06/2013 3:40	91587
Zinc	NELAP	0.46	0.93		57.3	mg/Kg-dry	1	09/06/2013 3:40	91587
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.324	0.556		< 0.556	mg/Kg-dry	1	09/10/2013 14:17	91592
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.032	mg/Kg-dry	1	09/05/2013 10:39	91584
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.166	0.625		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
1,2-Dichlorobenzene	NELAP	0.199	0.625		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
1,3-Dichlorobenzene	NELAP	0.21	0.625		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
1,4-Dichlorobenzene	NELAP	0.199	0.625		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
2,4,5-Trichlorophenol	NELAP	0.119	0.437		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
2,4,6-Trichlorophenol	NELAP	0.157	0.437		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
2,4-Dichlorophenol	NELAP	0.151	0.625		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
2,4-Dimethylphenol	NELAP	0.159	0.625		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
2,4-Dinitrophenol	NELAP	0.134	1.25		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
2,4-Dinitrotoluene	NELAP	0.13	0.437		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
2,6-Dinitrotoluene	NELAP	0.135	0.437		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
2-Chloronaphthalene	NELAP	0.15	0.437		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
2-Chlorophenol	NELAP	0.159	0.625		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
2-Methylnaphthalene	NELAP	0.149	0.437		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
2-Nitroaniline	NELAP	0.114	1.25		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
2-Nitrophenol	NELAP	0.14	0.437		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
3,3'-Dichlorobenzidine	NELAP	0.25	0.437		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
3-Nitroaniline	NELAP	0.102	1.25		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
4,6-Dinitro-2-methylphenol	NELAP	0.135	1.25		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
4-Bromophenyl phenyl ether	NELAP	0.115	0.437		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
4-Chloro-3-methylphenol	NELAP	0.137	0.625		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
4-Chloroaniline	NELAP	0.151	0.625		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
4-Chlorophenyl phenyl ether	NELAP	0.124	0.437		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
4-Nitroaniline	NELAP	0.114	0.625		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
4-Nitrophenol	NELAP	0.122	0.437		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Acenaphthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Acenaphthylene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Benzo(a)anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Benzo(a)pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Benzo(b)fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Benzo(g,h,i)perylene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Benzo(k)fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Bis(2-chloroethoxy)methane	NELAP	0.146	0.437		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Bis(2-chloroethyl)ether	NELAP	0.177	0.625		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Bis(2-chloroisopropyl)ether	NELAP	0.142	0.437		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Bis(2-ethylhexyl)phthalate	NELAP	0.146	0.437		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Butyl benzyl phthalate	NELAP	0.126	0.437		ND	mg/Kg-dry	1	09/06/2013 9:07	91570

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-010

Client Sample ID: 1467V-12-B05

Matrix: SOLID

Collection Date: 08/30/2013 8:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.152	0.625		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Chrysene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Dibenzo(a,h)anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Dibenzofuran	NELAP	0.157	0.437		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Diethyl phthalate	NELAP	0.12	0.625		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Dimethyl phthalate	NELAP	0.114	0.437		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Di-n-butyl phthalate	NELAP	0.129	0.437		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Di-n-octyl phthalate	NELAP	0.13	0.437		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Fluorene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Hexachlorobenzene	NELAP	0.122	0.437		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Hexachlorobutadiene	NELAP	0.194	0.625		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Hexachlorocyclopentadiene	NELAP	0.127	0.437		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Hexachloroethane	NELAP	0.209	0.625		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Indeno(1,2,3-cd)pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Isophorone	NELAP	0.147	0.437		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
m,p-Cresol	NELAP	0.157	0.625		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Naphthalene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Nitrobenzene	NELAP	0.156	0.625		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
N-Nitroso-di-n-propylamine	NELAP	0.137	0.625		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
N-Nitrosodiphenylamine	NELAP	0.115	0.625		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
o-Cresol	NELAP	0.147	0.625		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Pentachlorophenol	NELAP	0.825	2.5		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Phenanthrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Phenol	NELAP	0.145	0.437		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/06/2013 9:07	91570
Surr: 2,4,6-Tribromophenol		0	32.7-130		76.6	%REC	1	09/06/2013 9:07	91570
Surr: 2-Fluorobiphenyl		0	34.1-116		67.3	%REC	1	09/06/2013 9:07	91570
Surr: 2-Fluorophenol		0	30.5-99		73.1	%REC	1	09/06/2013 9:07	91570
Surr: Nitrobenzene-d5		0	34.1-101		70.6	%REC	1	09/06/2013 9:07	91570
Surr: Phenol-d5		0	34.9-110		74.8	%REC	1	09/06/2013 9:07	91570
Surr: p-Terphenyl-d14		0	41.7-124		80.4	%REC	1	09/06/2013 9:07	91570
<i>LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
1,1,2-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
1,1-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
1,1-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
1,2-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
1,2-Dichloropropane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
1,3-Dichloropropene, Total		0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
2-Butanone	NELAP	0.0091	0.045	J	0.01	mg/Kg-dry	1	09/11/2013 0:38	91826
2-Hexanone	NELAP	0.0091	0.045		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
4-Methyl-2-pentanone	NELAP	0.0091	0.045		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
Acetone	NELAP	0.0091	0.045		0.078	mg/Kg-dry	1	09/11/2013 0:38	91826
Benzene	NELAP	0.0005	0.001		ND	mg/Kg-dry	1	09/11/2013 0:38	91826



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090003

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090003-010

Client Sample ID: 1467V-12-B05

Matrix: SOLID

Collection Date: 08/30/2013 8:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromodichloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
Bromoform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
Bromomethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
Carbon disulfide	NELAP	0.0027	0.005		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
Carbon tetrachloride	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
Chlorobenzene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
Chloroethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
Chloroform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
Chloromethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
cis-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
cis-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
Dibromochloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
Ethylbenzene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
m,p-Xylenes	NELAP	0.0009	0.005	J	0.001	mg/Kg-dry	1	09/11/2013 0:38	91826
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
Methylene chloride	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
o-Xylene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
Styrene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
Tetrachloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
Toluene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
trans-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
trans-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
Trichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
Vinyl acetate	NELAP	0.0182	0.045		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	09/11/2013 0:38	91826
Xylenes, Total	NELAP	0.0009	0.005	J	0.001	mg/Kg-dry	1	09/11/2013 0:38	91826
Surr: 1,2-Dichloroethane-d4		0	72.2-131		105.6	%REC	1	09/11/2013 0:38	91826
Surr: 4-Bromofluorobenzene		0	82.1-116		105.6	%REC	1	09/11/2013 0:38	91826
Surr: Dibromofluoromethane		0	77.7-120		100.3	%REC	1	09/11/2013 0:38	91826
Surr: Toluene-d8		0	86-116		102.1	%REC	1	09/11/2013 0:38	91826



CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name: <u>Pingree Grove Kane Co</u>	COC No.: <u>1</u> of <u>1</u>
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com	Project No.: <u>IDOT 2013-018</u>	Lab Job No.: <u>1309003</u>
Special Instructions:		TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Sample Temp: <u>2.6 °C</u>
See Table 2 for complete parameter lists and minimum reporting limits.		Sampler:	
* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.			
** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.			

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments		
					VOCS	SVOCS	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids		Waste Characterization	
1309003-001	1467V-12-B01-1	8-30-13	8:35AM	S	X	X					X	X	X	X			0-5
002	1467V-12-B01-2	8-30-13	8:46AM														5-10
003	1467V-12-B02-1	8-30-13	9:10AM														0-5
004	1467V-12-B02-2	8-30-13	9:15AM														5-10
005	1467V-12-B03-1	8-30-13	9:30AM														0-5
006	1467V-12-B03-1DUP	8-30-13	9:35AM														0-5
007	1467V-12-B03-2	8-30-13	9:40AM														5-10
008	1467V-12-B04-1	8-30-13	7:55AM														0-5
009	1467V-12-B04-2	8-30-13	8:05AM														5-10
010	1467V-12-B05	8-30-13	8:10AM	S	X						X	X	X	X			0-5

Relinquished by:	Date/Time: <u>8/30/13 2:30</u>	Received by:	Date/Time: <u>8/30/13 1:30</u>
Relinquished by:	Date/Time: <u>8/31/13 11:00am</u>	Received by:	Date/Time: <u>8/31/13 11:00</u>
Relinquished by:	Date/Time: <u>8/31/13 1:20pm</u>	Received by:	Date/Time: <u>8/31/13 1:30pm</u>



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 345 (US Route 20) - South Junction Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
14N937 US 20

City: Unincorporated State: IL Zip Code: 60140

County: Kane Township: Rutland

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.08099 Longitude: -88.45358
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: 0890455007 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 345 (US Route 20) - South Junction

Latitude: 42.08099 Longitude: -88.45358

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATIONS 1467V-13-B01 AND -B02 WERE SAMPLED ADJACENT TO ISGS SITE 1467V-13. SEE FIGURE 5 AND TABLE 3c OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEKLAB ANALYTICAL REPORT - WORK ORDER NO.: 13090004

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment

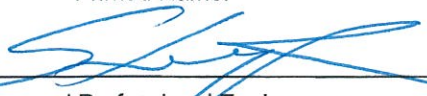
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

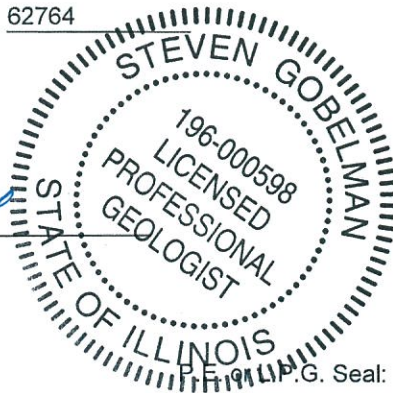
Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

7/8/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 1467V-13

Buck Brothers/J.W. Turf

Sample ID	1467V-13-B01	1467V-13-B02						
Sample Depth (ft)	0-3	0-3						
Sample Date	8/29/2013	8/29/2013						
PID	0	0						
Sample pH	7.57	8.06						
Matrix	Soil	Soil						
No Contaminants of Concern Noted.								
			¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only

September 13, 2013

Colleen Grey
Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711-7233
TEL: (217) 787-2334
FAX: (217) 787-9495



RE: IDOT2013-018

WorkOrder: 13090004

Dear Colleen Grey:

TEKLAB, INC received 2 samples on 8/31/2013 1:20:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Client: Andrews Engineering, Inc.

Work Order: 13090004

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | X - Value exceeds Maximum Contaminant Level |



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090004

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090004-001

Client Sample ID: 1467V-13-B01

Matrix: SOLID

Collection Date: 08/29/2013 12:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		17.9	%	1	09/03/2013 12:48	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		82.1	%	1	09/03/2013 12:48	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.57		1	09/04/2013 11:24	R181393
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.11	mg/L	1	09/11/2013 16:55	91824
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.11	mg/L	1	09/09/2013 16:12	91712
Beryllium	NELAP	0.0003	0.001	J	0.0003	mg/L	1	09/09/2013 16:12	91712
Boron	NELAP	1	2		< 2	mg/L	1	09/09/2013 16:12	91712
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/09/2013 16:12	91712
Chromium	NELAP	0.004	0.01		0.0178	mg/L	1	09/09/2013 16:12	91712
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	09/09/2013 16:12	91712
Iron	NELAP	0.007	0.02	X	15.7	mg/L	1	09/09/2013 16:12	91712
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/09/2013 16:12	91712
Manganese	NELAP	0.0016	0.005		0.036	mg/L	1	09/09/2013 16:12	91712
Nickel	NELAP	0.0033	0.01	J	0.0083	mg/L	1	09/09/2013 16:12	91712
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/09/2013 16:12	91712
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/09/2013 16:12	91712
Zinc	NELAP	0.0021	0.01		0.0352	mg/L	1	09/09/2013 16:12	91712
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/11/2013 11:20	91720
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 20:41	91720
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/09/2013 18:05	91728
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.45	4.9		23100	mg/Kg-dry	1	09/06/2013 3:46	91587
Antimony	NELAP	2.36	4.55		< 4.55	mg/Kg-dry	1	09/06/2013 1:52	91640
Arsenic	NELAP	1.23	2.45		7.13	mg/Kg-dry	1	09/06/2013 3:46	91587
Barium	NELAP	0.25	0.49		152	mg/Kg-dry	1	09/06/2013 3:46	91587
Beryllium	NELAP	0.05	0.1		0.89	mg/Kg-dry	1	09/06/2013 3:46	91587
Boron	NELAP	0.98	1.96		6	mg/Kg-dry	1	09/06/2013 3:46	91587
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	09/06/2013 3:46	91587
Calcium	NELAP	2.45	4.9		3700	mg/Kg-dry	1	09/06/2013 3:46	91587
Chromium	NELAP	0.49	0.98	X	30.3	mg/Kg-dry	1	09/06/2013 3:46	91587
Cobalt	NELAP	0.49	0.98		5.08	mg/Kg-dry	1	09/06/2013 3:46	91587
Copper	NELAP	0.49	0.98		19	mg/Kg-dry	1	09/06/2013 3:46	91587
Iron	NELAP	0.98	1.96	X	29600	mg/Kg-dry	1	09/06/2013 3:46	91587
Lead	NELAP	1.96	3.92		11.9	mg/Kg-dry	1	09/06/2013 3:46	91587
Magnesium	NELAP	0.49	0.98		4700	mg/Kg-dry	1	09/06/2013 3:46	91587
Manganese	NELAP	0.25	0.49		191	mg/Kg-dry	1	09/06/2013 3:46	91587
Nickel	NELAP	0.49	0.98		19.7	mg/Kg-dry	1	09/06/2013 3:46	91587
Potassium	NELAP	4.9	9.8		1580	mg/Kg-dry	1	09/06/2013 3:46	91587
Silver	NELAP	0.49	0.54		< 0.54	mg/Kg-dry	1	09/06/2013 3:46	91587

Client: Andrews Engineering, Inc.

Work Order: 13090004

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090004-001

Client Sample ID: 1467V-13-B01

Matrix: SOLID

Collection Date: 08/29/2013 12:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Sodium	NELAP	2.45	4.9		1340	mg/Kg-dry	1	09/06/2013 3:46	91587
Thallium	NELAP	2.45	2.55		< 2.55	mg/Kg-dry	1	09/06/2013 3:46	91587
Vanadium	NELAP	0.49	0.98		50.9	mg/Kg-dry	1	09/06/2013 3:46	91587
Zinc	NELAP	0.49	0.98		55	mg/Kg-dry	1	09/06/2013 3:46	91587
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.324	0.556		< 0.556	mg/Kg-dry	1	09/10/2013 14:21	91592
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.053	mg/Kg-dry	1	09/05/2013 12:24	91574
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.161	0.607		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
1,2-Dichlorobenzene	NELAP	0.193	0.607		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
1,3-Dichlorobenzene	NELAP	0.204	0.607		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
1,4-Dichlorobenzene	NELAP	0.193	0.607		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
2,4,5-Trichlorophenol	NELAP	0.115	0.425		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
2,4,6-Trichlorophenol	NELAP	0.153	0.425		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
2,4-Dichlorophenol	NELAP	0.147	0.607		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
2,4-Dimethylphenol	NELAP	0.154	0.607		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
2,4-Dinitrophenol	NELAP	0.13	1.21		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
2,4-Dinitrotoluene	NELAP	0.126	0.425		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
2,6-Dinitrotoluene	NELAP	0.131	0.425		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
2-Chloronaphthalene	NELAP	0.146	0.425		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
2-Chlorophenol	NELAP	0.154	0.607		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
2-Methylnaphthalene	NELAP	0.144	0.425		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
2-Nitroaniline	NELAP	0.11	1.21		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
2-Nitrophenol	NELAP	0.136	0.425		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
3,3'-Dichlorobenzidine	NELAP	0.243	0.425		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
3-Nitroaniline	NELAP	0.099	1.21		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
4,6-Dinitro-2-methylphenol	NELAP	0.131	1.21		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
4-Bromophenyl phenyl ether	NELAP	0.112	0.425		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
4-Chloro-3-methylphenol	NELAP	0.133	0.607		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
4-Chloroaniline	NELAP	0.147	0.607		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
4-Chlorophenyl phenyl ether	NELAP	0.12	0.425		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
4-Nitroaniline	NELAP	0.11	0.607		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
4-Nitrophenol	NELAP	0.119	0.425		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Acenaphthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Acenaphthylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Benzo(a)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Benzo(a)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Benzo(b)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Benzo(g,h,i)perylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Benzo(k)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Bis(2-chloroethoxy)methane	NELAP	0.142	0.425		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Bis(2-chloroethyl)ether	NELAP	0.172	0.607		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Bis(2-chloroisopropyl)ether	NELAP	0.138	0.425		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Bis(2-ethylhexyl)phthalate	NELAP	0.142	0.425	J	0.169	mg/Kg-dry	1	09/05/2013 22:41	91570
Butyl benzyl phthalate	NELAP	0.123	0.425		ND	mg/Kg-dry	1	09/05/2013 22:41	91570



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090004

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090004-001

Client Sample ID: 1467V-13-B01

Matrix: SOLID

Collection Date: 08/29/2013 12:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.148	0.607		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Chrysene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Dibenzo(a,h)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Dibenzofuran	NELAP	0.153	0.425		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Diethyl phthalate	NELAP	0.116	0.607		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Dimethyl phthalate	NELAP	0.11	0.425		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Di-n-butyl phthalate	NELAP	0.125	0.425		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Di-n-octyl phthalate	NELAP	0.126	0.425		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Fluorene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Hexachlorobenzene	NELAP	0.119	0.425		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Hexachlorobutadiene	NELAP	0.188	0.607		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Hexachlorocyclopentadiene	NELAP	0.124	0.425		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Hexachloroethane	NELAP	0.203	0.607		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Isophorone	NELAP	0.143	0.425		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
m,p-Cresol	NELAP	0.153	0.607		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Naphthalene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Nitrobenzene	NELAP	0.152	0.607		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
N-Nitroso-di-n-propylamine	NELAP	0.133	0.607		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
N-Nitrosodiphenylamine	NELAP	0.112	0.607		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
o-Cresol	NELAP	0.143	0.607		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Pentachlorophenol	NELAP	0.801	2.43		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Phenanthrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Phenol	NELAP	0.141	0.425		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/05/2013 22:41	91570
Surr: 2,4,6-Tribromophenol		0	32.7-130		64.3	%REC	1	09/05/2013 22:41	91570
Surr: 2-Fluorobiphenyl		0	34.1-116		56.9	%REC	1	09/05/2013 22:41	91570
Surr: 2-Fluorophenol		0	30.5-99		63.9	%REC	1	09/05/2013 22:41	91570
Surr: Nitrobenzene-d5		0	34.1-101		68.5	%REC	1	09/05/2013 22:41	91570
Surr: Phenol-d5		0	34.9-110		67.9	%REC	1	09/05/2013 22:41	91570
Surr: p-Terphenyl-d14		0	41.7-124		79.5	%REC	1	09/05/2013 22:41	91570
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
1,1,2-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
1,1-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
1,1-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
1,2-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
1,2-Dichloropropane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
1,3-Dichloropropene, Total		0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
2-Butanone	NELAP	0.0089	0.045		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
2-Hexanone	NELAP	0.0089	0.045		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
4-Methyl-2-pentanone	NELAP	0.0089	0.045		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
Acetone	NELAP	0.0089	0.045	J	0.035	mg/Kg-dry	1	09/11/2013 1:05	91826
Benzene	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
Bromodichloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090004

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090004-001

Client Sample ID: 1467V-13-B01

Matrix: SOLID

Collection Date: 08/29/2013 12:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
Bromomethane	NELAP	0.0018	0.009	J	0.003	mg/Kg-dry	1	09/11/2013 1:05	91826
Carbon disulfide	NELAP	0.0027	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
Carbon tetrachloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
Chlorobenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
Chloroethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
Chloroform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
Chloromethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
cis-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
cis-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
Dibromochloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
Ethylbenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
m,p-Xylenes	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
Methylene chloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
o-Xylene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
Styrene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
Tetrachloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
Toluene	NELAP	0.0009	0.004	J	0.001	mg/Kg-dry	1	09/11/2013 1:05	91826
trans-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
trans-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
Trichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
Vinyl acetate	NELAP	0.0178	0.045		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
Xylenes, Total	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:05	91826
Surr: 1,2-Dichloroethane-d4		0	72.2-131		108.1	%REC	1	09/11/2013 1:05	91826
Surr: 4-Bromofluorobenzene		0	82.1-116		103	%REC	1	09/11/2013 1:05	91826
Surr: Dibromofluoromethane		0	77.7-120		102.3	%REC	1	09/11/2013 1:05	91826
Surr: Toluene-d8		0	86-116		101.4	%REC	1	09/11/2013 1:05	91826



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090004

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090004-002

Client Sample ID: 1467V-13-B02

Matrix: SOLID

Collection Date: 08/29/2013 11:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		18	%	1	09/03/2013 12:49	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		82	%	1	09/03/2013 12:49	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.06		1	09/04/2013 11:26	R181393
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.125	mg/L	1	09/11/2013 16:59	91824
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.133	mg/L	1	09/09/2013 16:16	91712
Beryllium	NELAP	0.0003	0.001	J	0.0004	mg/L	1	09/09/2013 16:16	91712
Boron	NELAP	1	2		< 2	mg/L	1	09/09/2013 16:16	91712
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/09/2013 16:16	91712
Chromium	NELAP	0.004	0.01		0.0216	mg/L	1	09/09/2013 16:16	91712
Cobalt	NELAP	0.0022	0.01	J	0.0027	mg/L	1	09/09/2013 16:16	91712
Iron	NELAP	0.007	0.02	X	15.5	mg/L	1	09/09/2013 16:16	91712
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/09/2013 16:16	91712
Manganese	NELAP	0.0016	0.005		0.0501	mg/L	1	09/09/2013 16:16	91712
Nickel	NELAP	0.0033	0.01	J	0.0094	mg/L	1	09/09/2013 16:16	91712
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/09/2013 16:16	91712
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/09/2013 16:16	91712
Zinc	NELAP	0.0021	0.01		0.0523	mg/L	1	09/09/2013 16:16	91712
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/11/2013 11:24	91720
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 20:45	91720
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/09/2013 18:07	91728
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.45	4.9		15800	mg/Kg-dry	1	09/06/2013 3:52	91587
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	09/06/2013 1:55	91640
Arsenic	NELAP	1.23	2.45		4.74	mg/Kg-dry	1	09/06/2013 3:52	91587
Barium	NELAP	0.25	0.49		126	mg/Kg-dry	1	09/06/2013 3:52	91587
Beryllium	NELAP	0.05	0.1		0.75	mg/Kg-dry	1	09/06/2013 3:52	91587
Boron	NELAP	0.98	1.96		4.56	mg/Kg-dry	1	09/06/2013 3:52	91587
Cadmium	NELAP	0.1	0.2		< 0.2	mg/Kg-dry	1	09/06/2013 3:52	91587
Calcium	NELAP	2.45	4.9		3880	mg/Kg-dry	1	09/06/2013 3:52	91587
Chromium	NELAP	0.49	0.98	X	21.4	mg/Kg-dry	1	09/06/2013 3:52	91587
Cobalt	NELAP	0.49	0.98		6.25	mg/Kg-dry	1	09/06/2013 3:52	91587
Copper	NELAP	0.49	0.98		18.3	mg/Kg-dry	1	09/06/2013 3:52	91587
Iron	NELAP	0.98	1.96	X	19500	mg/Kg-dry	1	09/06/2013 3:52	91587
Lead	NELAP	1.96	3.92		12.2	mg/Kg-dry	1	09/06/2013 3:52	91587
Magnesium	NELAP	0.49	0.98		3430	mg/Kg-dry	1	09/06/2013 3:52	91587
Manganese	NELAP	0.25	0.49		426	mg/Kg-dry	1	09/06/2013 3:52	91587
Nickel	NELAP	0.49	0.98		14.9	mg/Kg-dry	1	09/06/2013 3:52	91587
Potassium	NELAP	4.9	9.8		1000	mg/Kg-dry	1	09/06/2013 3:52	91587
Silver	NELAP	0.49	0.54		< 0.54	mg/Kg-dry	1	09/06/2013 3:52	91587

Client: Andrews Engineering, Inc.

Work Order: 13090004

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090004-002

Client Sample ID: 1467V-13-B02

Matrix: SOLID

Collection Date: 08/29/2013 11:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Sodium	NELAP	2.45	4.9		1370	mg/Kg-dry	1	09/06/2013 3:52	91587
Thallium	NELAP	2.45	2.55		< 2.55	mg/Kg-dry	1	09/06/2013 3:52	91587
Vanadium	NELAP	0.49	0.98		40.6	mg/Kg-dry	1	09/06/2013 3:52	91587
Zinc	NELAP	0.49	0.98		50.1	mg/Kg-dry	1	09/06/2013 3:52	91587
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.35	0.6		< 0.6	mg/Kg-dry	1	09/10/2013 14:24	91592
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.037	mg/Kg-dry	1	09/05/2013 12:26	91574
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.161	0.605		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
1,2-Dichlorobenzene	NELAP	0.193	0.605		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
1,3-Dichlorobenzene	NELAP	0.203	0.605		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
1,4-Dichlorobenzene	NELAP	0.193	0.605		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
2,4,5-Trichlorophenol	NELAP	0.115	0.424		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
2,4,6-Trichlorophenol	NELAP	0.153	0.424		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
2,4-Dichlorophenol	NELAP	0.146	0.605		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
2,4-Dimethylphenol	NELAP	0.154	0.605		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
2,4-Dinitrophenol	NELAP	0.13	1.21		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
2,4-Dinitrotoluene	NELAP	0.126	0.424		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
2,6-Dinitrotoluene	NELAP	0.131	0.424		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
2-Chloronaphthalene	NELAP	0.145	0.424		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
2-Chlorophenol	NELAP	0.154	0.605		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
2-Methylnaphthalene	NELAP	0.144	0.424		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
2-Nitroaniline	NELAP	0.11	1.21		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
2-Nitrophenol	NELAP	0.136	0.424		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
3,3'-Dichlorobenzidine	NELAP	0.242	0.424		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
3-Nitroaniline	NELAP	0.099	1.21		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
4,6-Dinitro-2-methylphenol	NELAP	0.131	1.21		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
4-Bromophenyl phenyl ether	NELAP	0.111	0.424		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
4-Chloro-3-methylphenol	NELAP	0.133	0.605		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
4-Chloroaniline	NELAP	0.146	0.605		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
4-Chlorophenyl phenyl ether	NELAP	0.12	0.424		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
4-Nitroaniline	NELAP	0.11	0.605		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
4-Nitrophenol	NELAP	0.119	0.424		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Acenaphthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Acenaphthylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Benzo(a)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Benzo(a)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Benzo(b)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Benzo(g,h,i)perylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Benzo(k)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Bis(2-chloroethoxy)methane	NELAP	0.142	0.424		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Bis(2-chloroethyl)ether	NELAP	0.172	0.605		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Bis(2-chloroisopropyl)ether	NELAP	0.138	0.424		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Bis(2-ethylhexyl)phthalate	NELAP	0.142	0.424		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Butyl benzyl phthalate	NELAP	0.122	0.424		ND	mg/Kg-dry	1	09/06/2013 1:36	91570

Client: Andrews Engineering, Inc.

Work Order: 13090004

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090004-002

Client Sample ID: 1467V-13-B02

Matrix: SOLID

Collection Date: 08/29/2013 11:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.148	0.605		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Chrysene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Dibenzo(a,h)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Dibenzofuran	NELAP	0.153	0.424		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Diethyl phthalate	NELAP	0.116	0.605		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Dimethyl phthalate	NELAP	0.11	0.424		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Di-n-butyl phthalate	NELAP	0.125	0.424		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Di-n-octyl phthalate	NELAP	0.126	0.424		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Fluorene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Hexachlorobenzene	NELAP	0.119	0.424		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Hexachlorobutadiene	NELAP	0.188	0.605		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Hexachlorocyclopentadiene	NELAP	0.123	0.424		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Hexachloroethane	NELAP	0.202	0.605		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Isophorone	NELAP	0.143	0.424		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
m,p-Cresol	NELAP	0.153	0.605		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Naphthalene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Nitrobenzene	NELAP	0.151	0.605		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
N-Nitroso-di-n-propylamine	NELAP	0.133	0.605		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
N-Nitrosodiphenylamine	NELAP	0.111	0.605		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
o-Cresol	NELAP	0.143	0.605		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Pentachlorophenol	NELAP	0.799	2.42		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Phenanthrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Phenol	NELAP	0.14	0.424		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	09/06/2013 1:36	91570
Surr: 2,4,6-Tribromophenol		0	32.7-130		69.6	%REC	1	09/06/2013 1:36	91570
Surr: 2-Fluorobiphenyl		0	34.1-116		55.3	%REC	1	09/06/2013 1:36	91570
Surr: 2-Fluorophenol		0	30.5-99		65.3	%REC	1	09/06/2013 1:36	91570
Surr: Nitrobenzene-d5		0	34.1-101		67.1	%REC	1	09/06/2013 1:36	91570
Surr: Phenol-d5		0	34.9-110		64.6	%REC	1	09/06/2013 1:36	91570
Surr: p-Terphenyl-d14		0	41.7-124		76.2	%REC	1	09/06/2013 1:36	91570
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
1,1,2-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
1,1-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
1,1-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
1,2-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
1,2-Dichloropropane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
1,3-Dichloropropane, Total		0.0009	0.003		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
2-Butanone	NELAP	0.0086	0.043	J	0.013	mg/Kg-dry	1	09/11/2013 1:32	91826
2-Hexanone	NELAP	0.0086	0.043		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
4-Methyl-2-pentanone	NELAP	0.0086	0.043		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
Acetone	NELAP	0.0086	0.043		0.073	mg/Kg-dry	1	09/11/2013 1:32	91826
Benzene	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
Bromodichloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:32	91826



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090004

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090004-002

Client Sample ID: 1467V-13-B02

Matrix: SOLID

Collection Date: 08/29/2013 11:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
Bromomethane	NELAP	0.0017	0.009	J	0.006	mg/Kg-dry	1	09/11/2013 1:32	91826
Carbon disulfide	NELAP	0.0026	0.004		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
Carbon tetrachloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
Chlorobenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
Chloroethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
Chloroform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
Chloromethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
cis-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
cis-1,3-Dichloropropene	NELAP	0.0009	0.003		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
Dibromochloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
Ethylbenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
m,p-Xylenes	NELAP	0.0009	0.004	J	0.001	mg/Kg-dry	1	09/11/2013 1:32	91826
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
Methylene chloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
o-Xylene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
Styrene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
Tetrachloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
Toluene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
trans-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
trans-1,3-Dichloropropene	NELAP	0.0009	0.003		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
Trichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
Vinyl acetate	NELAP	0.0172	0.043		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/11/2013 1:32	91826
Xylenes, Total	NELAP	0.0009	0.004	J	0.001	mg/Kg-dry	1	09/11/2013 1:32	91826
Surr: 1,2-Dichloroethane-d4			0 72.2-131		106	%REC	1	09/11/2013 1:32	91826
Surr: 4-Bromofluorobenzene			0 82.1-116		104.8	%REC	1	09/11/2013 1:32	91826
Surr: Dibromofluoromethane			0 77.7-120		103.9	%REC	1	09/11/2013 1:32	91826
Surr: Toluene-d8			0 86-116		101.6	%REC	1	09/11/2013 1:32	91826



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 345 (US Route 20) - South Junction Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

14N915 US 20

City: Unincorporated State: IL Zip Code: 60140

County: Kane Township: Rutland

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.08062 Longitude: -88.45285
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 345 (US Route 20) - South Junction
Latitude: 42.08062 Longitude: -88.45285

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS 1467V-14-B01 AND -B02 WERE SAMPLED ADJACENT TO ISGS SITE 1467V-14. SEE FIGURE 5 AND TABLE 3d OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEKLAB ANALYTICAL REPORT - WORK ORDER NO.: 13090005

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

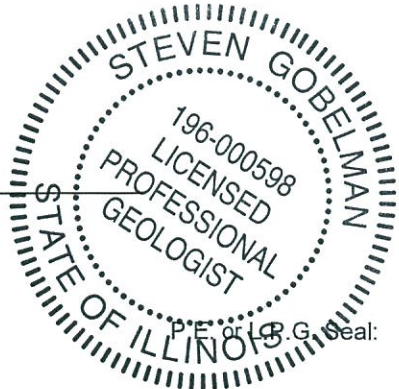
Phone: 217.785.4246

Steven Gobelman

Printed Name:

[Signature]
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

7/8/14
Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 1467V-14
Edward Hines Lumber**

Sample ID	1467V-14-B01	1467V-14-B01 DUP	1467V-14-B02							
Sample Depth (ft)	0-3	0-3	0-3							
Sample Date	8/29/2013	8/29/2013	8/29/2013							
PID	0	0	0							
Sample pH	8.2	8.45	7.58							
Matrix	Soil	Soil	Soil							
Inorganic Compounds, Total (mg/kg)										
Arsenic	10.8	11	11.4	1.3	11.3	NA	11.3	NA	13	NA

September 13, 2013

Colleen Grey
Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711-7233
TEL: (217) 787-2334
FAX: (217) 787-9495



RE: IDOT2013-018

WorkOrder: 13090005

Dear Colleen Grey:

TEKLAB, INC received 3 samples on 8/31/2013 1:20:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Client: Andrews Engineering, Inc.

Work Order: 13090005

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | X - Value exceeds Maximum Contaminant Level |

Client: Andrews Engineering, Inc.

Work Order: 13090005

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090005-001

Client Sample ID: 1467V-14-B01

Matrix: SOLID

Collection Date: 08/29/2013 13:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		18	%	1	09/03/2013 12:49	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		82	%	1	09/03/2013 12:49	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.2		1	09/04/2013 11:28	R181393
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.308	mg/L	1	09/11/2013 17:02	91824
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/11/2013 17:02	91824
Manganese	NELAP	0.0016	0.005		0.105	mg/L	1	09/11/2013 17:02	91824
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.179	mg/L	1	09/09/2013 16:19	91712
Beryllium	NELAP	0.0003	0.001	J	0.0008	mg/L	1	09/09/2013 16:19	91712
Boron	NELAP	1	2		< 2	mg/L	1	09/09/2013 16:19	91712
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/09/2013 16:19	91712
Chromium	NELAP	0.004	0.01		0.0281	mg/L	1	09/09/2013 16:19	91712
Cobalt	NELAP	0.0022	0.01	J	0.0047	mg/L	1	09/09/2013 16:19	91712
Iron	NELAP	0.007	0.02	X	26.4	mg/L	1	09/09/2013 16:19	91712
Lead	NELAP	0.006	0.007	X	0.0078	mg/L	1	09/09/2013 16:19	91712
Manganese	NELAP	0.0016	0.005	X	0.176	mg/L	1	09/09/2013 16:19	91712
Nickel	NELAP	0.0033	0.01		0.0282	mg/L	1	09/09/2013 16:19	91712
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/09/2013 16:19	91712
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/09/2013 16:19	91712
Zinc	NELAP	0.0021	0.01		0.0697	mg/L	1	09/09/2013 16:19	91712
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/11/2013 11:28	91720
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 20:48	91720
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/09/2013 18:09	91728
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.31	4.63		21500	mg/Kg-dry	1	09/06/2013 3:58	91587
Antimony	NELAP	2.5	4.81		< 4.81	mg/Kg-dry	1	09/06/2013 3:09	91641
Arsenic	NELAP	1.16	2.31		10.8	mg/Kg-dry	1	09/06/2013 3:58	91587
Barium	NELAP	0.23	0.46		165	mg/Kg-dry	1	09/06/2013 3:58	91587
Beryllium	NELAP	0.05	0.09		1.13	mg/Kg-dry	1	09/06/2013 3:58	91587
Boron	NELAP	0.93	1.85		9.35	mg/Kg-dry	1	09/06/2013 3:58	91587
Cadmium	NELAP	0.09	0.19		< 0.19	mg/Kg-dry	1	09/06/2013 3:58	91587
Calcium	NELAP	2.31	4.63		4270	mg/Kg-dry	1	09/06/2013 3:58	91587
Chromium	NELAP	0.46	0.93	X	29.6	mg/Kg-dry	1	09/06/2013 3:58	91587
Cobalt	NELAP	0.46	0.93		9.36	mg/Kg-dry	1	09/06/2013 3:58	91587
Copper	NELAP	0.46	0.93		23.4	mg/Kg-dry	1	09/06/2013 3:58	91587
Iron	NELAP	0.93	1.85	X	28400	mg/Kg-dry	1	09/06/2013 3:58	91587
Lead	NELAP	1.85	3.7		15.6	mg/Kg-dry	1	09/06/2013 3:58	91587
Magnesium	NELAP	0.46	0.93		5590	mg/Kg-dry	1	09/06/2013 3:58	91587
Manganese	NELAP	0.23	0.46	X	633	mg/Kg-dry	1	09/06/2013 3:58	91587
Nickel	NELAP	0.46	0.93		33.1	mg/Kg-dry	1	09/06/2013 3:58	91587

Client: Andrews Engineering, Inc.

Work Order: 13090005

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090005-001

Client Sample ID: 1467V-14-B01

Matrix: SOLID

Collection Date: 08/29/2013 13:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Potassium	NELAP	4.63	9.26		2440	mg/Kg-dry	1	09/06/2013 3:58	91587
Silver	NELAP	0.46	0.51		< 0.51	mg/Kg-dry	1	09/06/2013 3:58	91587
Sodium	NELAP	2.31	4.63		1470	mg/Kg-dry	1	09/06/2013 3:58	91587
Thallium	NELAP	2.31	2.41		< 2.41	mg/Kg-dry	1	09/06/2013 3:58	91587
Vanadium	NELAP	0.46	0.93		44.6	mg/Kg-dry	1	09/06/2013 3:58	91587
Zinc	NELAP	0.46	0.93		73.3	mg/Kg-dry	1	09/06/2013 3:58	91587
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.35	0.6		< 0.6	mg/Kg-dry	1	09/10/2013 14:28	91592
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.034	mg/Kg-dry	1	09/05/2013 12:33	91574
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.163	0.613		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
1,2-Dichlorobenzene	NELAP	0.195	0.613		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
1,3-Dichlorobenzene	NELAP	0.206	0.613		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
1,4-Dichlorobenzene	NELAP	0.195	0.613		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
2,4,5-Trichlorophenol	NELAP	0.117	0.429		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
2,4,6-Trichlorophenol	NELAP	0.155	0.429		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
2,4-Dichlorophenol	NELAP	0.148	0.613		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
2,4-Dimethylphenol	NELAP	0.156	0.613		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
2,4-Dinitrophenol	NELAP	0.131	1.23		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
2,4-Dinitrotoluene	NELAP	0.128	0.429		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
2,6-Dinitrotoluene	NELAP	0.133	0.429		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
2-Chloronaphthalene	NELAP	0.147	0.429		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
2-Chlorophenol	NELAP	0.156	0.613		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
2-Methylnaphthalene	NELAP	0.146	0.429		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
2-Nitroaniline	NELAP	0.112	1.23		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
2-Nitrophenol	NELAP	0.137	0.429		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
3,3'-Dichlorobenzidine	NELAP	0.245	0.429		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
3-Nitroaniline	NELAP	0.101	1.23		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
4,6-Dinitro-2-methylphenol	NELAP	0.133	1.23		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
4-Bromophenyl phenyl ether	NELAP	0.113	0.429		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
4-Chloro-3-methylphenol	NELAP	0.135	0.613		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
4-Chloroaniline	NELAP	0.148	0.613		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
4-Chlorophenyl phenyl ether	NELAP	0.121	0.429		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
4-Nitroaniline	NELAP	0.112	0.613		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
4-Nitrophenol	NELAP	0.12	0.429		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Acenaphthene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Acenaphthylene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Anthracene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Benzo(a)anthracene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Benzo(a)pyrene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Benzo(b)fluoranthene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Benzo(g,h,i)perylene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Benzo(k)fluoranthene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Bis(2-chloroethoxy)methane	NELAP	0.144	0.429		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Bis(2-chloroethyl)ether	NELAP	0.174	0.613		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Bis(2-chloroisopropyl)ether	NELAP	0.14	0.429		ND	mg/Kg-dry	1	09/06/2013 23:44	91580

Client: Andrews Engineering, Inc.

Work Order: 13090005

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090005-001

Client Sample ID: 1467V-14-B01

Matrix: SOLID

Collection Date: 08/29/2013 13:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bis(2-ethylhexyl)phthalate	NELAP	0.144	0.429		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Butyl benzyl phthalate	NELAP	0.124	0.429		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Carbazole		0.15	0.613		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Chrysene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Dibenzo(a,h)anthracene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Dibenzofuran	NELAP	0.155	0.429		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Diethyl phthalate	NELAP	0.118	0.613		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Dimethyl phthalate	NELAP	0.112	0.429		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Di-n-butyl phthalate	NELAP	0.126	0.429		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Di-n-octyl phthalate	NELAP	0.128	0.429		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Fluoranthene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Fluorene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Hexachlorobenzene	NELAP	0.12	0.429		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Hexachlorobutadiene	NELAP	0.19	0.613		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Hexachlorocyclopentadiene	NELAP	0.125	0.429		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Hexachloroethane	NELAP	0.205	0.613		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Isophorone	NELAP	0.145	0.429		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
m,p-Cresol	NELAP	0.155	0.613		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Naphthalene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Nitrobenzene	NELAP	0.153	0.613		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
N-Nitroso-di-n-propylamine	NELAP	0.135	0.613		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
N-Nitrosodiphenylamine	NELAP	0.113	0.613		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
o-Cresol	NELAP	0.145	0.613		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Pentachlorophenol	NELAP	0.81	2.45		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Phenanthrene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Phenol	NELAP	0.142	0.429		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Pyrene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	09/06/2013 23:44	91580
Surr: 2,4,6-Tribromophenol		0	32.7-130		52.3	%REC	1	09/06/2013 23:44	91580
Surr: 2-Fluorobiphenyl		0	34.1-116		47.6	%REC	1	09/06/2013 23:44	91580
Surr: 2-Fluorophenol		0	30.5-99		46	%REC	1	09/06/2013 23:44	91580
Surr: Nitrobenzene-d5		0	34.1-101		53.9	%REC	1	09/06/2013 23:44	91580
Surr: Phenol-d5		0	34.9-110		50.8	%REC	1	09/06/2013 23:44	91580
Surr: p-Terphenyl-d14		0	41.7-124		58.4	%REC	1	09/06/2013 23:44	91580

LCS recovered outside upper QC limits for Dibenzo(a,h)anthracene and Benzo(g,h,i)perylene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
1,1,2,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
2-Butanone	NELAP	0.0083	0.041	J	0.014	mg/Kg-dry	1	09/11/2013 1:58	91826
2-Hexanone	NELAP	0.0083	0.041		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
4-Methyl-2-pentanone	NELAP	0.0083	0.041		ND	mg/Kg-dry	1	09/11/2013 1:58	91826



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090005

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090005-001

Client Sample ID: 1467V-14-B01

Matrix: SOLID

Collection Date: 08/29/2013 13:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Acetone	NELAP	0.0083	0.041		0.09	mg/Kg-dry	1	09/11/2013 1:58	91826
Benzene	NELAP	0.0004	0.001		0.001	mg/Kg-dry	1	09/11/2013 1:58	91826
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
Bromomethane	NELAP	0.0017	0.008	J	0.003	mg/Kg-dry	1	09/11/2013 1:58	91826
Carbon disulfide	NELAP	0.0025	0.004		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
Chloroethane	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
Chloromethane	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
Ethylbenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
m,p-Xylenes	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
Methylene chloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
o-Xylene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
Toluene	NELAP	0.0008	0.004	J	0.003	mg/Kg-dry	1	09/11/2013 1:58	91826
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
Vinyl acetate	NELAP	0.0165	0.041		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
Xylenes, Total	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 1:58	91826
Surr: 1,2-Dichloroethane-d4		0	72.2-131		105.6	%REC	1	09/11/2013 1:58	91826
Surr: 4-Bromofluorobenzene		0	82.1-116		102.6	%REC	1	09/11/2013 1:58	91826
Surr: Dibromofluoromethane		0	77.7-120		101.1	%REC	1	09/11/2013 1:58	91826
Surr: Toluene-d8		0	86-116		101.4	%REC	1	09/11/2013 1:58	91826

Client: Andrews Engineering, Inc.

Work Order: 13090005

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090005-002

Client Sample ID: 1467V-14-B01 DUP

Matrix: SOLID

Collection Date: 08/29/2013 14:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		19.3	%	1	09/03/2013 12:49	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		80.7	%	1	09/03/2013 12:49	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.45		1	09/04/2013 11:32	R181393
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.276	mg/L	1	09/11/2013 17:06	91824
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/11/2013 17:06	91824
Manganese	NELAP	0.0016	0.005		0.106	mg/L	1	09/11/2013 17:06	91824
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.21	mg/L	1	09/09/2013 16:23	91712
Beryllium	NELAP	0.0003	0.001		0.001	mg/L	1	09/09/2013 16:23	91712
Boron	NELAP	1	2		< 2	mg/L	1	09/09/2013 16:23	91712
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/09/2013 16:23	91712
Chromium	NELAP	0.004	0.01		0.0328	mg/L	1	09/09/2013 16:23	91712
Cobalt	NELAP	0.0022	0.01	J	0.0058	mg/L	1	09/09/2013 16:23	91712
Iron	NELAP	0.007	0.02	X	32.3	mg/L	1	09/09/2013 16:23	91712
Lead	NELAP	0.006	0.007	X	0.0085	mg/L	1	09/09/2013 16:23	91712
Manganese	NELAP	0.0016	0.005	X	0.221	mg/L	1	09/09/2013 16:23	91712
Nickel	NELAP	0.0033	0.01		0.0339	mg/L	1	09/09/2013 16:23	91712
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/09/2013 16:23	91712
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/09/2013 16:23	91712
Zinc	NELAP	0.0021	0.01		0.077	mg/L	1	09/09/2013 16:23	91712
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/11/2013 11:32	91720
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 20:51	91720
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/09/2013 18:16	91728
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.4	4.81		18600	mg/Kg-dry	1	09/06/2013 4:17	91587
Antimony	NELAP	2.55	4.9		< 4.9	mg/Kg-dry	1	09/06/2013 3:12	91641
Arsenic	NELAP	1.2	2.4		11	mg/Kg-dry	1	09/06/2013 4:17	91587
Barium	NELAP	0.24	0.48		133	mg/Kg-dry	1	09/06/2013 4:17	91587
Beryllium	NELAP	0.05	0.1		0.95	mg/Kg-dry	1	09/06/2013 4:17	91587
Boron	NELAP	0.96	1.92		8.84	mg/Kg-dry	1	09/06/2013 4:17	91587
Cadmium	NELAP	0.1	0.19		< 0.19	mg/Kg-dry	1	09/06/2013 4:17	91587
Calcium	NELAP	2.4	4.81		10300	mg/Kg-dry	1	09/06/2013 4:17	91587
Chromium	NELAP	0.48	0.96	X	26.7	mg/Kg-dry	1	09/06/2013 4:17	91587
Cobalt	NELAP	0.48	0.96		9.01	mg/Kg-dry	1	09/06/2013 4:17	91587
Copper	NELAP	0.48	0.96		22.8	mg/Kg-dry	1	09/06/2013 4:17	91587
Iron	NELAP	0.96	1.92	X	27400	mg/Kg-dry	1	09/06/2013 4:17	91587
Lead	NELAP	1.92	3.85		16.3	mg/Kg-dry	1	09/06/2013 4:17	91587
Magnesium	NELAP	0.48	0.96		8420	mg/Kg-dry	1	09/06/2013 4:17	91587
Manganese	NELAP	0.24	0.48	X	754	mg/Kg-dry	1	09/06/2013 4:17	91587
Nickel	NELAP	0.48	0.96		29.8	mg/Kg-dry	1	09/06/2013 4:17	91587

Client: Andrews Engineering, Inc.

Work Order: 13090005

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090005-002

Client Sample ID: 1467V-14-B01 DUP

Matrix: SOLID

Collection Date: 08/29/2013 14:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Potassium	NELAP	4.81	9.62		2160	mg/Kg-dry	1	09/06/2013 4:17	91587
Silver	NELAP	0.48	0.53		< 0.53	mg/Kg-dry	1	09/06/2013 4:17	91587
Sodium	NELAP	2.4	4.81		1290	mg/Kg-dry	1	09/06/2013 4:17	91587
Thallium	NELAP	2.4	2.5		< 2.5	mg/Kg-dry	1	09/06/2013 4:17	91587
Vanadium	NELAP	0.48	0.96		41.9	mg/Kg-dry	1	09/06/2013 4:17	91587
Zinc	NELAP	0.48	0.96		75.5	mg/Kg-dry	1	09/06/2013 4:17	91587
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.337	0.577		< 0.577	mg/Kg-dry	1	09/10/2013 14:31	91592
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.034	mg/Kg-dry	1	09/05/2013 12:40	91574
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.164	0.618		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
1,2-Dichlorobenzene	NELAP	0.197	0.618		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
1,3-Dichlorobenzene	NELAP	0.208	0.618		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
1,4-Dichlorobenzene	NELAP	0.197	0.618		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
2,4,5-Trichlorophenol	NELAP	0.117	0.433		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
2,4,6-Trichlorophenol	NELAP	0.156	0.433		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
2,4-Dichlorophenol	NELAP	0.15	0.618		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
2,4-Dimethylphenol	NELAP	0.157	0.618		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
2,4-Dinitrophenol	NELAP	0.132	1.24		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
2,4-Dinitrotoluene	NELAP	0.129	0.433		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
2,6-Dinitrotoluene	NELAP	0.134	0.433		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
2-Chloronaphthalene	NELAP	0.148	0.433		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
2-Chlorophenol	NELAP	0.157	0.618		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
2-Methylnaphthalene	NELAP	0.147	0.433		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
2-Nitroaniline	NELAP	0.113	1.24		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
2-Nitrophenol	NELAP	0.138	0.433		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
3,3'-Dichlorobenzidine	NELAP	0.247	0.433		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
3-Nitroaniline	NELAP	0.101	1.24		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
4,6-Dinitro-2-methylphenol	NELAP	0.134	1.24		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
4-Bromophenyl phenyl ether	NELAP	0.114	0.433		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
4-Chloro-3-methylphenol	NELAP	0.136	0.618		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
4-Chloroaniline	NELAP	0.15	0.618		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
4-Chlorophenyl phenyl ether	NELAP	0.122	0.433		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
4-Nitroaniline	NELAP	0.113	0.618		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
4-Nitrophenol	NELAP	0.121	0.433		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Acenaphthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Acenaphthylene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Benzo(a)anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Benzo(a)pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Benzo(b)fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Benzo(g,h,i)perylene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Benzo(k)fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Bis(2-chloroethoxy)methane	NELAP	0.145	0.433		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Bis(2-chloroethyl)ether	NELAP	0.176	0.618		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Bis(2-chloroisopropyl)ether	NELAP	0.141	0.433		ND	mg/Kg-dry	1	09/07/2013 0:16	91580

Client: Andrews Engineering, Inc.

Work Order: 13090005

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090005-002

Client Sample ID: 1467V-14-B01 DUP

Matrix: SOLID

Collection Date: 08/29/2013 14:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bis(2-ethylhexyl)phthalate	NELAP	0.145	0.433		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Butyl benzyl phthalate	NELAP	0.125	0.433		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Carbazole		0.151	0.618		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Chrysene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Dibenzo(a,h)anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Dibenzofuran	NELAP	0.156	0.433		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Diethyl phthalate	NELAP	0.119	0.618		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Dimethyl phthalate	NELAP	0.113	0.433		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Di-n-butyl phthalate	NELAP	0.127	0.433		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Di-n-octyl phthalate	NELAP	0.129	0.433		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Fluorene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Hexachlorobenzene	NELAP	0.121	0.433		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Hexachlorobutadiene	NELAP	0.192	0.618		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Hexachlorocyclopentadiene	NELAP	0.126	0.433		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Hexachloroethane	NELAP	0.207	0.618		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Indeno(1,2,3-cd)pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Isophorone	NELAP	0.146	0.433		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
m,p-Cresol	NELAP	0.156	0.618		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Naphthalene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Nitrobenzene	NELAP	0.155	0.618		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
N-Nitroso-di-n-propylamine	NELAP	0.136	0.618		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
N-Nitrosodiphenylamine	NELAP	0.114	0.618		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
o-Cresol	NELAP	0.146	0.618		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Pentachlorophenol	NELAP	0.816	2.47		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Phenanthrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Phenol	NELAP	0.143	0.433		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:16	91580
Surr: 2,4,6-Tribromophenol		0	32.7-130		48.7	%REC	1	09/07/2013 0:16	91580
Surr: 2-Fluorobiphenyl		0	34.1-116		48.6	%REC	1	09/07/2013 0:16	91580
Surr: 2-Fluorophenol		0	30.5-99		48.1	%REC	1	09/07/2013 0:16	91580
Surr: Nitrobenzene-d5		0	34.1-101		53.6	%REC	1	09/07/2013 0:16	91580
Surr: Phenol-d5		0	34.9-110		53.3	%REC	1	09/07/2013 0:16	91580
Surr: p-Terphenyl-d14		0	41.7-124		57.7	%REC	1	09/07/2013 0:16	91580

LCS recovered outside upper QC limits for Dibenzo(a,h)anthracene and Benzo(g,h,i)perylene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
1,1,2-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
1,1-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
1,1-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
1,2-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
1,2-Dichloropropane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
1,3-Dichloropropene, Total		0.0009	0.003		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
2-Butanone	NELAP	0.0086	0.043	J	0.025	mg/Kg-dry	1	09/10/2013 17:34	91826
2-Hexanone	NELAP	0.0086	0.043		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
4-Methyl-2-pentanone	NELAP	0.0086	0.043		ND	mg/Kg-dry	1	09/10/2013 17:34	91826



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13090005

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090005-002

Client Sample ID: 1467V-14-B01 DUP

Matrix: SOLID

Collection Date: 08/29/2013 14:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Acetone	NELAP	0.0086	0.043		0.174	mg/Kg-dry	1	09/10/2013 17:34	91826
Benzene	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
Bromodichloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
Bromoform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
Bromomethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
Carbon disulfide	NELAP	0.0026	0.004		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
Carbon tetrachloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
Chlorobenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
Chloroethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
Chloroform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
Chloromethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
cis-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
cis-1,3-Dichloropropene	NELAP	0.0009	0.003		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
Dibromochloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
Ethylbenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
m,p-Xylenes	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
Methylene chloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
o-Xylene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
Styrene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
Tetrachloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
Toluene	NELAP	0.0009	0.004	J	0.003	mg/Kg-dry	1	09/10/2013 17:34	91826
trans-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
trans-1,3-Dichloropropene	NELAP	0.0009	0.003		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
Trichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
Vinyl acetate	NELAP	0.0173	0.043		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
Xylenes, Total	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	09/10/2013 17:34	91826
Surr: 1,2-Dichloroethane-d4		0	72.2-131		102.9	%REC	1	09/10/2013 17:34	91826
Surr: 4-Bromofluorobenzene		0	82.1-116		108.3	%REC	1	09/10/2013 17:34	91826
Surr: Dibromofluoromethane		0	77.7-120		102.3	%REC	1	09/10/2013 17:34	91826
Surr: Toluene-d8		0	86-116		101.1	%REC	1	09/10/2013 17:34	91826

Client: Andrews Engineering, Inc.

Work Order: 13090005

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090005-003

Client Sample ID: 1467V-14-B02

Matrix: SOLID

Collection Date: 08/29/2013 13:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		18.7	%	1	09/03/2013 12:50	R181377
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		81.3	%	1	09/03/2013 12:50	R181377
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.58		1	09/04/2013 11:37	R181393
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.136	mg/L	1	09/11/2013 17:10	91824
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0024	0.005		0.114	mg/L	1	09/09/2013 16:27	91712
Beryllium	NELAP	0.0003	0.001	J	0.0004	mg/L	1	09/09/2013 16:27	91712
Boron	NELAP	1	2		< 2	mg/L	1	09/09/2013 16:27	91712
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	09/09/2013 16:27	91712
Chromium	NELAP	0.004	0.01		0.0175	mg/L	1	09/09/2013 16:27	91712
Cobalt	NELAP	0.0022	0.01	J	0.0022	mg/L	1	09/09/2013 16:27	91712
Iron	NELAP	0.007	0.02	X	16.9	mg/L	1	09/09/2013 16:27	91712
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	09/09/2013 16:27	91712
Manganese	NELAP	0.0016	0.005		0.0886	mg/L	1	09/09/2013 16:27	91712
Nickel	NELAP	0.0033	0.01		0.0122	mg/L	1	09/09/2013 16:27	91712
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	09/09/2013 16:27	91712
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	09/09/2013 16:27	91712
Zinc	NELAP	0.0021	0.01		0.0358	mg/L	1	09/09/2013 16:27	91712
SW-846 1312, 3020A, 7010 METALS IN SPLP EXTRACT BY GFAA									
Antimony, SPLP by GFAA	NELAP	0.0017	0.005		< 0.005	mg/L	1	09/11/2013 11:35	91720
Thallium, SPLP by GFAA	NELAP	0.0005	0.002		< 0.002	mg/L	1	09/09/2013 21:02	91720
<i>Sb - LCS recovered outside upper QC limits. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).</i>									
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	09/09/2013 18:18	91728
SW-846 3050B, 6010B, METALS BY ICP									
Aluminum	NELAP	2.4	4.81	S	19300	mg/Kg-dry	1	09/06/2013 4:23	91587
Antimony	NELAP	2.6	5		< 5	mg/Kg-dry	1	09/06/2013 3:16	91641
Arsenic	NELAP	1.2	2.4	X	11.4	mg/Kg-dry	1	09/06/2013 4:23	91587
Barium	NELAP	0.24	0.48		155	mg/Kg-dry	1	09/06/2013 4:23	91587
Beryllium	NELAP	0.05	0.1		0.9	mg/Kg-dry	1	09/06/2013 4:23	91587
Boron	NELAP	1.92	3.85		7.83	mg/Kg-dry	2	09/09/2013 11:34	91587
Cadmium	NELAP	0.1	0.19		< 0.19	mg/Kg-dry	1	09/06/2013 4:23	91587
Calcium	NELAP	2.4	4.81	S	3080	mg/Kg-dry	1	09/06/2013 4:23	91587
Chromium	NELAP	0.48	0.96	X	26.7	mg/Kg-dry	1	09/06/2013 4:23	91587
Cobalt	NELAP	0.48	0.96		11.2	mg/Kg-dry	1	09/06/2013 4:23	91587
Copper	NELAP	0.48	0.96		20	mg/Kg-dry	1	09/06/2013 4:23	91587
Iron	NELAP	0.96	1.92	SX	26400	mg/Kg-dry	1	09/06/2013 4:23	91587
Lead	NELAP	1.92	3.85		15.6	mg/Kg-dry	1	09/06/2013 4:23	91587
Magnesium	NELAP	0.48	0.96	S	4460	mg/Kg-dry	1	09/06/2013 4:23	91587
Manganese	NELAP	0.24	0.48	SX	938	mg/Kg-dry	1	09/06/2013 4:23	91587
Nickel	NELAP	0.48	0.96		25.7	mg/Kg-dry	1	09/06/2013 4:23	91587
Potassium	NELAP	4.81	9.62	S	1600	mg/Kg-dry	1	09/06/2013 4:23	91587
Silver	NELAP	0.48	0.53		< 0.53	mg/Kg-dry	1	09/06/2013 4:23	91587

Client: Andrews Engineering, Inc.

Work Order: 13090005

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090005-003

Client Sample ID: 1467V-14-B02

Matrix: SOLID

Collection Date: 08/29/2013 13:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Sodium	NELAP	4.81	9.62	S	843	mg/Kg-dry	2	09/06/2013 17:16	91587
Thallium	NELAP	2.4	2.5		< 2.5	mg/Kg-dry	1	09/06/2013 4:23	91587
Vanadium	NELAP	0.48	0.96		46.3	mg/Kg-dry	1	09/06/2013 4:23	91587
Zinc	NELAP	0.48	0.96		50.4	mg/Kg-dry	1	09/06/2013 4:23	91587
<i>MS QC limits for Na are not applicable due to high sample/spike ratio.</i>									
<i>MS QC limits for Al, Ca, Fe, Mg, Mn, and K are not applicable due to high sample/spike ratio.</i>									
SW-846 3050B, 7010 METALS BY GFAA									
Selenium	NELAP	0.318	0.545	S	< 0.545	mg/Kg-dry	1	09/10/2013 14:34	91592
<i>Se - Matrix interference present in sample. Confirmed by bench spike.</i>									
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.024	mg/Kg-dry	1	09/05/2013 12:42	91574
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.165	0.621		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
1,2-Dichlorobenzene	NELAP	0.197	0.621		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
1,3-Dichlorobenzene	NELAP	0.209	0.621		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
1,4-Dichlorobenzene	NELAP	0.197	0.621		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
2,4,5-Trichlorophenol	NELAP	0.118	0.435		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
2,4,6-Trichlorophenol	NELAP	0.156	0.435		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
2,4-Dichlorophenol	NELAP	0.15	0.621		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
2,4-Dimethylphenol	NELAP	0.158	0.621		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
2,4-Dinitrophenol	NELAP	0.133	1.24		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
2,4-Dinitrotoluene	NELAP	0.129	0.435		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
2,6-Dinitrotoluene	NELAP	0.134	0.435		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
2-Chloronaphthalene	NELAP	0.149	0.435		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
2-Chlorophenol	NELAP	0.158	0.621		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
2-Methylnaphthalene	NELAP	0.148	0.435		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
2-Nitroaniline	NELAP	0.113	1.24		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
2-Nitrophenol	NELAP	0.139	0.435		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
3,3'-Dichlorobenzidine	NELAP	0.248	0.435		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
3-Nitroaniline	NELAP	0.102	1.24		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
4,6-Dinitro-2-methylphenol	NELAP	0.134	1.24		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
4-Bromophenyl phenyl ether	NELAP	0.114	0.435		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
4-Chloro-3-methylphenol	NELAP	0.137	0.621		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
4-Chloroaniline	NELAP	0.15	0.621		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
4-Chlorophenyl phenyl ether	NELAP	0.123	0.435		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
4-Nitroaniline	NELAP	0.113	0.621		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
4-Nitrophenol	NELAP	0.122	0.435		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Acenaphthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Acenaphthylene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Benzo(a)anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Benzo(a)pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Benzo(b)fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Benzo(g,h,i)perylene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Benzo(k)fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Bis(2-chloroethoxy)methane	NELAP	0.145	0.435		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Bis(2-chloroethyl)ether	NELAP	0.176	0.621		ND	mg/Kg-dry	1	09/07/2013 0:48	91580

Client: Andrews Engineering, Inc.

Work Order: 13090005

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090005-003

Client Sample ID: 1467V-14-B02

Matrix: SOLID

Collection Date: 08/29/2013 13:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bis(2-chloroisopropyl)ether	NELAP	0.142	0.435		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Bis(2-ethylhexyl)phthalate	NELAP	0.145	0.435		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Butyl benzyl phthalate	NELAP	0.125	0.435		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Carbazole		0.151	0.621		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Chrysene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Dibenzo(a,h)anthracene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Dibenzofuran	NELAP	0.156	0.435		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Diethyl phthalate	NELAP	0.119	0.621		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Dimethyl phthalate	NELAP	0.113	0.435		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Di-n-butyl phthalate	NELAP	0.128	0.435		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Di-n-octyl phthalate	NELAP	0.129	0.435		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Fluoranthene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Fluorene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Hexachlorobenzene	NELAP	0.122	0.435		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Hexachlorobutadiene	NELAP	0.192	0.621		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Hexachlorocyclopentadiene	NELAP	0.127	0.435		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Hexachloroethane	NELAP	0.207	0.621		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Indeno(1,2,3-cd)pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Isophorone	NELAP	0.147	0.435		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
m,p-Cresol	NELAP	0.156	0.621		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Naphthalene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Nitrobenzene	NELAP	0.155	0.621		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
N-Nitroso-di-n-propylamine	NELAP	0.137	0.621		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
N-Nitrosodiphenylamine	NELAP	0.114	0.621		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
o-Cresol	NELAP	0.147	0.621		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Pentachlorophenol	NELAP	0.819	2.48		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Phenanthrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Phenol	NELAP	0.144	0.435		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Pyrene	NELAP	0.021	0.042		ND	mg/Kg-dry	1	09/07/2013 0:48	91580
Surr: 2,4,6-Tribromophenol		0	32.7-130		55.5	%REC	1	09/07/2013 0:48	91580
Surr: 2-Fluorobiphenyl		0	34.1-116		44.8	%REC	1	09/07/2013 0:48	91580
Surr: 2-Fluorophenol		0	30.5-99		53.5	%REC	1	09/07/2013 0:48	91580
Surr: Nitrobenzene-d5		0	34.1-101		49.8	%REC	1	09/07/2013 0:48	91580
Surr: Phenol-d5		0	34.9-110		55.8	%REC	1	09/07/2013 0:48	91580
Surr: p-Terphenyl-d14		0	41.7-124		61.1	%REC	1	09/07/2013 0:48	91580

LCS recovered outside upper QC limits for Dibenzo(a,h)anthracene and Benzo(g,h,i)perylene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
1,1,2,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
2-Butanone	NELAP	0.0084	0.042	J	0.01	mg/Kg-dry	1	09/11/2013 20:34	91859
2-Hexanone	NELAP	0.0084	0.042		ND	mg/Kg-dry	1	09/11/2013 20:34	91859

Client: Andrews Engineering, Inc.

Work Order: 13090005

Client Project: IDOT2013-018

Report Date: 13-Sep-13

Lab ID: 13090005-003

Client Sample ID: 1467V-14-B02

Matrix: SOLID

Collection Date: 08/29/2013 13:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
4-Methyl-2-pentanone	NELAP	0.0084	0.042		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
Acetone	NELAP	0.0084	0.042		0.102	mg/Kg-dry	1	09/11/2013 20:34	91859
Benzene	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
Bromomethane	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
Carbon disulfide	NELAP	0.0025	0.004		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
Chloroethane	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
Chloromethane	NELAP	0.0017	0.008		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
Ethylbenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
m,p-Xylenes	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
Methylene chloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
o-Xylene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
Toluene	NELAP	0.0008	0.004	J	0.003	mg/Kg-dry	1	09/11/2013 20:34	91859
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
Vinyl acetate	NELAP	0.0169	0.042		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
Xylenes, Total	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	09/11/2013 20:34	91859
Surr: 1,2-Dichloroethane-d4		0	72.2-131		101	%REC	1	09/11/2013 20:34	91859
Surr: 4-Bromofluorobenzene		0	82.1-116		100.3	%REC	1	09/11/2013 20:34	91859
Surr: Dibromofluoromethane		0	77.7-120		99	%REC	1	09/11/2013 20:34	91859
Surr: Toluene-d8		0	86-116		102.5	%REC	1	09/11/2013 20:34	91859

